



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
7011EC20

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
BUYER 33 304-558-2402

VENDOR

*709032901 630-377-9100
 WORK AREA PROTECTION CORP
 2500 PRODUCTION DR
 PO BOX 4087
 SAINT CHARLES IL 60174-9081

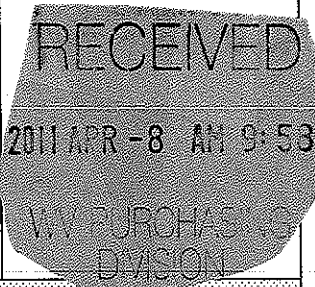
SHIP TO

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

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
02/08/2011	Net 30	Best Way	Destination	Delivered

BID OPENING DATE: 04/12/2011 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	EA		550-96		
<p>TRAILER MOUNTED SOLAR POWERED MESSAGE BOARD</p> <p>REQUEST FOR QUOTATION (RFQ) OPEN END CONTRACT</p> <p>THE WEST VIRGINIA STATE PURCHASING DIVISION FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF HIGHWAYS, IS SOLICITING BIDS FOR AN OPEN END CONTRACT TO PROVIDE A FULL MATRIX TRAILER MOUNTED SOLAR POWERED MESSAGE BOARD PER THE ATTACHED SPECIFICATIONS.</p> <p>TECHNICAL QUESTIONS CONCERNING THIS SOLICITATION MUST BE SUBMITTED IN WRITING TO SHERI SLONE IN THE WEST VIRGINIA STATE PURCHASING DIVISION VIA MAIL AT THE ADDRESS SHOWN IN THE BODY OF THIS RFQ, VIA FAX AT 304-558-4115, OR VIA EMAIL AT SHERI.D.SLONE@WV.GOV. DEADLINE FOR ALL TECHNICAL QUESTIONS IS 03/01/2011 AT THE CLOSE OF BUSINESS. ANY TECHNICAL QUESTIONS RECEIVED WILL BE ANSWERED BY FORMAL ADDENDUM TO BE ISSUED BY THE PURCHASING DIVISION AFTER THE DEADLINE HAS LAPSED.</p> <p>MANDATORY PRE-BID A MANDATORY PRE-BID WILL BE HELD ON TUESDAY, 03/15/2011 AT 10 AM IN BRUSHY FORK RD IN BUCKHANNON, WV 26201. ALL INTERESTED PARTIES ARE REQUIRED TO ATTEND THIS MEETING</p>						



SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
<i>Michael L. Colburn</i>	800-327-4417	4/7/11
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
Vice President/Offc. Mgr.	52-1488457	

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. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, 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.
5. Payment may only be made after the delivery and acceptance of goods or services.
6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.htm and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
14. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
15. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or Fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. 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. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. 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: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).



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DIVISION OF HIGHWAYS
 EQUIPMENT DIVISION
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DATE PRINTED 02/08/2011	TERMS OF SALE Net 30	SHIP VIA Best Way	FOB Destination	FREIGHT TERMS Delivered
BID OPENING DATE: 04/12/2011		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>FAILURE TO ATTEND THE MANDATORY PRE-BID SHALL RESULT IN DISQUALIFICATION OF THE BID. NO ONE PERSON MAY REPRESENT MORE THAN ONE BIDDER.</p> <p>AN ATTENDANCE SHEET WILL BE MADE AVAILABLE FOR ALL POTENTIAL BIDDERS TO COMPLETE. THIS WILL SERVE AS THE OFFICIAL DOCUMENT VERIFYING ATTENDANCE AT THE MANDATORY PRE-BID. FAILURE TO PROVIDE YOUR COMPANY AND REPRESENTATIVE NAME ON THE ATTENDANCE SHEET WILL RESULT IN DISQUALIFICATION OF THE BID. THE STATE WILL NOT ACCEPT ANY OTHER DOCUMENTATION TO VERIFY ATTENDANCE. THE BIDDER IS RESPONSIBLE FOR ENSURING THEY HAVE COMPLETED THE INFORMATION REQUIRED ON THE ATTENDANCE SHEET. THE PURCHASING DIVISION AND THE STATE AGENCY WILL NOT ASSUME ANY RESPONSIBILITY FOR A BIDDER-S FAILURE TO COMPLETE THE PRE-BID ATTENDANCE SHEET. IN ADDITION, WE REQUEST THAT ALL POTENTIAL BIDDERS INCLUDE THEIR E-MAIL ADDRESS AND FAX NUMBER.</p> <p>ALL POTENTIAL BIDDERS ARE REQUESTED TO ARRIVE PRIOR TO THE STARTING TIME FOR THE PRE-BID. BIDDERS WHO ARRIVE LATE, BUT PRIOR TO THE DISMISSAL OF THE TECHNICAL PORTION OF THE PRE-BID WILL BE PERMITTED TO SIGN IN. BIDDERS WHO ARRIVE AFTER CONCLUSION OF THE TECHNICAL PORTION OF THE PRE-BID, BUT DURING ANY SUBSEQUENT PART OF THE PRE-BID WILL NOT BE PERMITTED TO SIGN THE ATTENDANCE SHEET.</p> <p>EXHIBIT 10</p> <p>REQUISITION NO.: 7011EC20</p> <p>ADDENDUM ACKNOWLEDGEMENT</p> <p>I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Michael Lockman</i>	TELEPHONE 800-327-4417	DATE <i>4/7/11</i>
TITLE Vice President	FEIN 52-1488457	ADDRESS CHANGES TO BE NOTED ABOVE

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



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<p>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 THE 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>Mitchell P. Lockner</i> SIGNATURE Work Area Protection Corporation... COMPANY 4/7/11 DATE </p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Mitchell P. Lockner</i>	TELEPHONE 800-327-4417	DATE 4/7/11
TITLE Vice President/Offc.Mgr.	FEIN 52-1488457	ADDRESS CHANGES TO BE NOTED ABOVE

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<p>NOTE: THIS ADDENDUM ACKNOWLEDGEMENT SHOULD BE SUBMITTED WITH THE BID.</p> <p>REV. 09/21/2009</p> <p>EXHIBIT 2</p> <p>LIFE OF CONTRACT: THIS CONTRACT BECOMES EFFECTIVE UPON AWARD AND EXTENDS FOR A PERIOD OF ONE (1) 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>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Michael P. Lohme</i>	TELEPHONE 800-3274417	DATE 4/7/11
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TITLE Vice President/Offc.Mgr.	FEIN 52-1488457	ADDRESS CHANGES TO BE NOTED ABOVE
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<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 THE 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, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FUTHER ORDER.</p> <p>REV. 5/2009</p> <p>EXHIBIT 4</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS		
SIGNATURE <i>Michael P. Lohman</i>	TELEPHONE 800-327-4417	DATE 4/7/11
TITLE Vice President/Offc.Mgr.	FEIN 52-1488457	ADDRESS CHANGES TO BE NOTED ABOVE

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<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>PREFERENCE FOR USE OF DOMESTIC STEEL PRODUCTS</p> <p>1. EXCEPT WHEN AUTHORIZED BY THE DIRECTOR OF THE PURCHASING DIVISION PURSUANT TO SUBSECTION 2 BELOW, NO CONTRACTOR MAY USE OR SUPPLY STEEL PRODUCTS FOR A STATE CONTRACT PROJECT OTHER THAN THOSE STEEL PRODUCTS MADE IN THE UNITED STATES. AS USED USED I THIS CONTRACT,</p> <p>A. "STATE CONTRACT PROJECT" MEANS ANY ERECTION OR CONSTRUCTION OF, OR ANY ADDITION TO, ALTERATION OF OR OTHER IMPROVEMENT TO ANY BUILDING OR STRUCTURE, INCLUDING, BUT NOT LIMITED TO, ROAD OR HIGHWAYS, OR THE INSTALLATION OF ANY HEATING OR COOLING OR VENTILATING PLANTS OR OTHER EQUIPMENT, OR THE SUPPLY OF AND MATERIALS FOR SUCH PROJECTS, PURSUANT TO A CONTRACT WITH THE STATE OF WEST VIRGINIA FOR WHICH BIDS WERE SOLICITED ON OR AFTER JUNE 6, 2001.</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Michael P. Fisher</i>	TELEPHONE 800-327-4417	DATE 4/11
TITLE Vice President/Offc.Mgr.	FEIN 52-1488457	ADDRESS CHANGES TO BE NOTED ABOVE

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B. "STEEL PRODUCTS" MEANS PRODUCTS ROLLED, FORMED, SHAPED, DRAWN, EXTRUDED, FORGED, CAST, FABRICATED OR OTHERWISE SIMILARLY PROCESSED, OR PROCESSED BY A COMBINATION OF TWO OR MORE OF SUCH OPERATIONS, FROM STEEL MADE BY THE OPEN HEARTH, BASIC OXYGEN, ELECTRIC FURNACE, BESSEMER OR OTHER STEEL MAKING PROCESS.

C. "UNITED STATES" MEANS THE UNITED STATES OF AMERICA AND INCLUDES ALL TERRITORY, CONTINENTAL OR INSULAR, SUBJECT TO THE JURISDICTION OF THE UNITED STATES.

2. THE DIRECTOR OF THE PURCHASING DIVISION MAY, IN WRITING, AUTHORIZE THE USE OF FOREIGN STEEL PRODUCTS IF:

A. THE COST FOR EACH CONTRACT ITEM USED DOES NOT EXCEED ONE TENTH OF ONE PERCENT (.1%) OF THE TOTAL CONTRACT COST OR TWO THOUSAND FIVE HUNDRED DOLLARS (2,500.00), WHICHEVER IS GREATER. FOR THE PURPOSES OF THIS SECTION, THE COST IS THE VALUE OF THE STEEL PRODUCT AS DELIVERED TO THE PROJECT OR,

B. THE DIRECTOR OF THE PURCHASING DIVISION DETERMINES THAT SPECIFIED STEEL MATERIALS ARE NOT PRODUCED IN THE UNITED STATES IN SUFFICIENT QUANTITY OR OTHERWISE ARE NOT REASONABLY AVAILABLE TO MEET CONTRACT REQUIREMENTS.

3. A CONTRACTOR WHO USES STEEL PRODUCTS IN VIOLATION OF THIS SECTION MAY BE SUBJECT TO CIVIL PENALTIES PURSUANT TO WV CODE SECTION 5A-3-56.

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SIGNATURE <i>Michael P. Lechner</i>	TELEPHONE 800-327-4417	DATE 4/11
TITLE Vice President/Offc.Mgr.	FEIN 52-1488457	ADDRESS CHANGES TO BE NOTED ABOVE

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REV. 10/01/01

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: SHERI SLONE - FILE 33
 RFQ. NO.: 7011EC20
 BID OPENING DATE: 04/12/2011
 BID OPENING TIME: 1:30 PM

PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY
 TO CONTACT YOU REGARDING YOUR BID: 630-377-9270

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SIGNATURE	TELEPHONE	DATE
<i>Michael P. Lohmer</i>	800-327-4417	4/7/11
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				630-377-9270		
				CONTACT PERSON (PLEASE PRINT CLEARLY):		
				Michael P. Linkimer		
***** THIS IS THE END OF RFQ 7011EC20 ***** TOTAL:						<u>\$14,870.00</u>

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Michael P. Linkimer</i>	TELEPHONE 800-327-4417	DATE <i>4/7/11</i>
TITLE Vice President/Offc.Mgr.	FEIN 52-1488457	ADDRESS CHANGES TO BE NOTED ABOVE

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

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
EQUIPMENT DIVISION

PROCUREMENT SPECIFICATIONS
NO. 843-1-G

OPEN END CONTRACT

FULL MATRIX
TRAILER MOUNTED SOLAR POWERED MESSAGE BOARD

1.0 PURPOSE

It is the purpose of these specifications to describe a Full Matrix Trailer Mounted Solar Powered Message Board (hereinafter referred to as a "unit") to be purchased for use by the West Virginia Division of Highways (DOH) on an Open End Contract basis.

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, WILL 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 waive minor irregularities in bids or specifications in accordance with §148-1-4(f) of the WV Legislative Rules and Regulations.

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 should be stated in the bid and the State reserves the right to accept or reject 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.**

A completed pilot model for inspection must be provided within 30 calendar days after receipt of the purchase agreement by the successful vendor.

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, 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, 2011 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 12 service, shop, or maintenance manuals; ten (10) to be distributed to the Districts and two (2) for the Equipment Division. Also, there must be 14 parts manuals; ten (10) to be distributed to the Districts and four (4) for Equipment Division use. CD ROM is preferred in lieu of parts or service 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 excluding abuse and normal wear items 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:

To be a trailer mounted Full – Matrix Variable Message Board consisting of an optically enhanced L.E.D.s. L.E.D.s shall have a minimum of a 30° vertical and 30° horizontal cone of visibility. The full-matrix panel shall be powered by a bank of batteries in order to convey bright, distinctive messages to the traveling public. All Full-Matrix Variable Message Boards shall be tested by AASHTO's National Transportation Product Evaluation Program (NTPEP).

7.1 Batteries shall be automatically recharged by a group of solar panels located at the highest point on the unit.

7.1.1 Unit shall be designed with sufficient energy backup to operate for a period of 30 days without any sun.

7.1.2 The solar panel generator array should recharge the battery bank at a rate of approximately 2.5 hours sun to one (1) 24 hour period of usage. (Refer 7.5.3)

7.2 Sign Panel Construction:

7.2.1 To be of aluminum construction or fabricated with powder coated sheet metal and in a flat black finish. All exposed panels and seams shall be corrosion proof for a minimum of ten (10) years. With construction, all panels/parts shall be assembled as to prevent corrosion or to prevent dissimilar metal reaction from occurring.

7.2.2 The sign panel frame to be a welded assembly constructed of aluminum alloy channel, or from steel panels powder coated in a corrosion proof manner for a minimum of ten (10) years.

- 7.2.3 Length of sign panel shall not exceed 140 inches.
- 7.2.4 Face of sign shall incorporate measures to prevent fading from UV light, such as a polycarbonate or lexan face with UV inhibitors incorporated. Other methods shall be subject to review and approval.
- 7.2.5 The sign face shall be of a sufficient size in order to display three (3) lines of eight (8) characters, with each character to be eighteen (18) inches tall by twelve (12) inches wide. Characters to be spaced a minimum of three (3) inches apart.
- 7.2.6 Each character configuration to contain 54 L.E.D. lamp pixels in a six (6) element horizontal by nine (9) element vertical arrangement.
- 7.2.7 Each pixel shall consist of a minimum of three (3) LEDs.
- 7.2.8 Message color to be approximately 590 nanometers.
- 7.3 The sign to have capability to display up to six (6) messages in sequence, with variable timing in ¼ second increments under computer control.
- 7.3.1 As part of the manufacturer's pre-programmed message sequences, arrow display and flashing caution functions shall be included. All arrow and flashing caution displays described in the current MUTCD shall be provided.
- 7.3.2. All abbreviations used in pre-programmed messages shall be in compliance with the current MUTCD.
- 7.3.3. Entire sign to have capability to change all lines of message copy in not more than 100 mili-seconds.
- 7.3.4. The sign shall be clearly visible a minimum of 4500 feet.
- 7.3.5. The sign legend shall be legible from a minimum distance of 1,000 feet under daylight conditions as defined determined by NTPEP for two –non-traffic word message.
- 7.3.6. The sign legend shall be legible from a minimum distance of 900 feet under night-time conditions as determined by NTPEP for a two non-traffic word message.
- 7.3.7. Under variable light conditions, the unit shall automatically adjust light source so as to meet the visibility requirements, without being too bright or too dim.

7.4 Solar Message Board Support

7.4.1 **Solar message board sign panel shall be supported on a telescoping upright member in order to permit raising the sign panel for operation and lowering the panel for transport. The upright must be capable of 360 degrees rotation and to lock into any position to which it is manually or electrically rotated.**

7.4.2 **Raise and lower travel to be approximately four (4) feet and shall be accomplished by a hydraulic power pack.**

7.4.3 **The bottom of the sign to be minimum of seven (7) feet above ground level when in the raised position.**

7.4.4 **In transport position, the sign shall orient to the longitudinal axis of the trailer in a manner that effectively reduces aerodynamic drag during towing.**

7.5 Power and Miscellaneous Equipment:

7.5.1 **Unit shall be designed to accept two (2) power sources; one (1) being a battery bank consisting of four (4) size 4-D, deep cycle, lead acid 12 volt DC batteries wired in parallel (or as designed to meet power/time requirements).**

7.5.2 The second power supply to have the capability of the unit to accept existing 120 volt commercial electric service.

7.5.3 Batteries to be recharged by a solar panel array producing approximately 165 watts of power. (Refer 7.1.2)

7.5.4 **Unit shall provide a built-in battery charger with a minimum 25 ampere per hour rating.**

7.5.5 **Battery bank shall be housed in lockable heavy duty weatherproof battery boxes.**

7.5.6 The two (2) power sources to be enclosed in an appropriate protective housing.

7.5.7 Batteries to be capable of being recharged by a commercial 110 volt battery charger.

7.6 Control Requirements:

7.6.1 **The unit shall be controlled in all functions by an on-board dedicated computer of solid state design and be removable.**

- 7.6.2 **Unit shall include a keyboard through which user originated messages may be entered for display or storage.**
- 7.6.3 Include an LCD display screen upon which messages can be reviewed before display on sign board.
- 7.6.4 **Computer shall store a minimum of 250 programmed messages for display when called upon by user through the keyboard.**
- 7.6.5 **Capability of storing a minimum of 100 message sequences.**
- 7.6.6 Unit to maintain stored message list.
- 7.6.7 Unit to provide password coding or key entry.
- 7.6.8 Provide control programming to present sequences messages under operator control through keyboard entry.
- 7.6.9 Provide control for moving arrow displays.
- 7.7 **Solar Panel Control Unit**
- 7.7.1 **The computer and power control unit shall be housed in a weather resistant, shock resistant lockable control box which includes lighting for night-time operation.**
- 7.7.2 Power control unit to contain two (2) current meters; one (1) to show amperage generated with the battery charge operating, and one (1) to indicate amperage generated from the solar panels to be stored in the battery bank.
- 7.7.3 **The power control unit shall incorporate a PV regulator with thermal compensation for variances in ambient temperature to regulate the charge rate to the battery bank.**
- 7.7.4 The unit to incorporate an automatic intensity control feature in order to keep L.E.D. lamp matrix intensity constant with a reduction in voltage.
- 7.7.5 **The message unit must provide a photocell in order to reduce the lamp intensity at night eliminating blinding.**

7.8 Trailer:

7.8.1 **Two (2) wheel trailer shall be structurally adequate to serve both platform for components.**

7.8.2 Fenders: Steel fenders to be provided and installed over each wheel.

7.8.3 Trailer to be equipped with a hydraulic brake actuator system.

7.8.4 Leveling Jacks: Four (4) crank type, heavy duty, industrial leveling jacks; one (1) at each corner of the trailer deck to be installed.

7.9 Lighting:

7.9.1 **Unit shall include LED tail lights, stop lights, turn signals, license mount with light, and all necessary reflectors.**

7.9.2 Trailer electrical cable and connector (Cole Hersee Pt# 12081 male or equal) compatible with towing vehicles to be installed.

7.9.3 All trailer wiring to be encased in heavy duty hypalon type industrial wire looms clamped to underside of the trailer structural tubing.

7.9.4 **A two (2) inch ball type trailer hitch 6,000 pound capacity with double safety chains in accordance with SAE J684F shall be installed.**

7.10 Hydraulic Power Pack:

7.10.1 **Shall be 12 volt DC motor, pump, valve, reservoir, manual hand pump or approved equal.**

7.11 Message Cabinet Dimensions:

7.11.1 **Length: Maximum length of 140 inches.**

7.11.2 **Height: Maximum of 79 1/2 inches**

7.12 Central Processing Unit – CPU Specifications (Minimum):

7.12.1 **Microprocessor Based 27.1 MHz.**

7.12.2 **Power requirements: 175 mA DC at 12 volts DC.**

7.12.3 **Screen Size: Minimum of Three (3) lines, with Eight (8) characters per line.**

- 7.12.4 **Interfaces:** (2) RS232 9 pin D connectors and documentation on port numbers and pins. In addition, one USB port or one ETHERNET Port with USB adaptor shall be provided
- 7.12.5 **Code:** Application source code to be delivered with unit or held in escrow and provided to WVDOH in case company goes out of business.
- 7.12.6 **Documentation:** Technical documentation for unit and for application programs.
- 7.12.7 **Unit shall include all other features considered as standard equipment but not specifically addressed previously.**
- 7.12.8 **Vendor must certify that must certify that unit offered will comply with Occupational Safety and Health Act of 1970 and subsequent amendments.**
- 7.12.9 **Paint:** The complete unit to be painted with the manufacturers standard colors and materials.
- 7.12.10 **Advertising:** Manufacturer to attach a metal plate on the unit stating manufacturer, date of manufacture, serial number, model number, etc. No large decals or painted advertisements are permitted.
- 7.12.11 **Preventive Maintenance and Operator Procedures:** Manufacturers and or Dealers shall provide a preventive maintenance and operator orientation seminar at the Equipment Division, in Buckhannon, WV. All training aids i.e., videos, charts, manuals, etc., to furnished by successful vendor.
- 7.13 **Communications:**
- 7.13.1 **Unit shall be guarded from any unwanted outside RF interference which would include but not be limited to VHF/FM receiver, 2 way radio receiver, cell phones, etc.**
- 7.13.2 **Each PVMS shall be controlled and monitored by its own sign controller directly from the control console inside the control cabinet on the trailer itself.**
- 7.13.3 **The PVMS sign controller shall be able to receive instructions from and provide information to a computer containing PVMS control software compliant using NTCIP compliant communications modes:**

- 7.13.4 Remote Communications control via wireless communications with a remotely located computer. The system communications backbone, as well as all field modems or signal converters, shall provide the PVMS sign controller with an RS232 signal having a baud rate between 2,400 bps and 115,200 bps. Communications shall be static IP based with a static IP based modem installed on the trailer.
- 7.13.5 Local Communications control shall be accomplished via direct connection with a laptop computer that is connected directly to the sign control using a null modem connection and a baud rate between 2,400 bps and 115,200 bps.
- 7.13.6 Local Communications control shall be available via a keypad and LCD interface. Features shall include addition or removal of message or message (s) from the PVMS list of playing messages, adjustment of luminosity to manual or automatic, and monitorthe monitoring of miscellaneous data like battery voltage, photocells reading, etc.

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
EQUIPMENT DIVISION

BIDDER'S EVALUATION REPORT

PROCUREMENT SPECIFICATIONS FOR OPEN END CONTRACT
NO. 843-1-G

FULL MATRIX
TRAILER MOUNTED SOLAR POWERED MESSAGE BOARD

NOTE TO BIDDER: Procurement Specification No. 843-1-G, 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.: 7011EC20

Bidder's Name: Work Area Protection Corporation

Address: 2500 Production Drive, P.O. Box 4087, St. Charles, IL 60174-9081

Telephone Number: 630-377-9100

Years Bidder has been registered to do business with the State of West Virginia: 13 YRS.

Years Company has been an authorized dealer for proposed unit: 19 YRS.

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

X4.2 DELIVERY:

X4.2.1 Delivery date of completed representative unit: 15 Calendar Days After
Receipt of Purchase Agreement

X4.2.2 Delivery date of balance of completed units: 30 Calendar Days After Receipt of
Purchase Agreement

The "Bidder's Evaluation Report" is available for download on Purchasing's Web site at www.state.wv.us/admin/purchase

X5.0 AWARD CRITERIA;

X5.1 Price per unit: \$14,870.00 per unit

X6.0 SPECIFICATIONS - GENERAL

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

Precision Solar Controls Inc. SMC 2000 FM ST 2011

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: Full-Matrix Message Board Standard MAKE: PSC
 MODEL: SMC 2000 FM ST YEAR: 2011 PURCHASE AMOUNT: \$14,870.00

ENGINE: MAKE: N/A MODEL: N/A FUEL TYPE: N/A
 HORSEPOWER: N/A CYLINDER: N/A ENGINE SERIAL: N/A
 COOLING SYSTEM CAPACITY: N/A

BELTS: DESCRIPTION: _____ PART NUMBERS: _____
N/A N/A

GVW: 1875 lbs AXLE CAPACITY: FRONT: 3500 lbs REAR: N/A

TIRES: FRONT MAKE & SIZE: 205/75 D-15 Make varies based on availability
 REAR MAKE & SIZE: N/A Raised Ht: 163"
 Lowered Ht: 104"

DIMENSIONS OF UNIT: LENGTH: 168" WIDTH: 96" LENGTH: _____

VENDOR CONTACT PERSON: Tim Hohman PHONE: 330-621-1678
 FAX: 330-345-1852

PARTS: _____ Weight: 115 lbs
 BATTERY MAKE: Interstate MODEL: 4D CCA: _____
 TOP OR SIDE POST: Top Post DIMENSIONS: LENGTH _____ WIDTH _____ HEIGHT _____
 SPARK PLUGS OR FUEL INJECTORS MAKE: N/A PART #: _____
 FUEL PUMP OR INJECTION PUMP MAKE: N/A MODEL: _____
 ALTERNATOR MAKE: _____ PART #: _____
 STARTER MAKE: _____ PART #: _____
 TURBO CHARGER MAKE: _____ PART #: _____
 TRANS. MAKE: N/A MODEL: _____ AUTO/MANUAL: _____
 HYDRAULIC PUMP MAKE: _____ MODEL: _____

FILTERS	MAKE	PART NO.	LUBRICANT	MANUFACTURER TYPE
OIL	<u>N/A</u>		ENGINE	<u>N/A</u>
AIR INNER	<u>N/A</u>		TRANSMISSION	<u>N/A</u>
AIR OUTER	<u>N/A</u>		POWER STEERING	<u>N/A</u>
FUEL PRIMARY	<u>N/A</u>		HYDRAULIC	<u>NAPA/Valvoline Dexron 3</u>
FUEL SECONDARY	<u>N/A</u>		DIFFERENTIALS	<u>N/A</u>
COOLANT	<u>N/A</u>		BRAKE FLUID	<u>N/A</u>
HYDRAULIC	<u>N/A</u>		COOLANT	<u>N/A</u>
OTHER	<u>N/A</u>		OTHER	<u>N/A</u>

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 Scheduling requires 2-week notice.

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 excluding abuse and normal wear items included?
 YES NO

Describe:

Per Section 6.5 excludes due to neglect or abuse or improper maintenance

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)

See attached

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.

All service to be performed at DOH facility. Technical support and warranty replacement of parts. Tim Hohman, 1310 Wildwood Drive, Wooster, OH 44691

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

Rock Branch Industrial Park, 4 Craddock Way, Poca, WV 25259

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. *At this time we publish no list prices, only net prices at time of inquiry.

- A. Terms: Net 30 Manufacturer's published list price less: * -0- % discount
- B. Terms: Net 60 Manufacturer's published list price less: * -0- % discount
- C. Terms: Net 90 Manufacturer's published list price less: * -0- % 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 \$ ** per mechanic hour ** No charge during warranty period

B. 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: 30 days for parts from time of inquiry

F. Surcharge for miscellaneous items: -0- %

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 specification.**

Manufacturer: Precision Solar Controls Inc Model: SMC 2000 FM ST

Is unit a trailer mounted Full - Matrix Message Board consisting of an optically enhanced L.E.D.'s. YES NO 5 LED's per pixel

Are the L.E.D.s minimum of a 30° vertical and 30° horizontal cone of visibility. YES NO

Is the full matrix panel powered by a bank of batteries in order to convey bright, distinctive messages to the traveling public YES NO

Are full matrix variable message boards tested by AASHTO's National Transportation Product Evaluation Program (NTPEP). YES NO

- X7.1 Are batteries automatically recharged by a group of solar panels located at highest point on the unit? YES NO
- X7.1.1 Is unit designed to have sufficient energy backup to operate for 30 days without any sun? YES NO
- X7.1.2 Will solar panel generator recharge the battery bank at 2.5 hours sun to one (1) 24 hour period usage? YES NO
- X7.2 Sign Panel Construction:
- X7.2.1 Is sign panel aluminum constructed or fabricated with powder coated sheet metal and in a flat black finish YES NO
- All exposed panels and seams are corrosion proof for a minimum of ten (10) years YES NO
- With construction, are all panels/parts assembled as to prevent corrosion or to prevent dissimilar metal reaction for occurring YES NO
- X7.2.2 Is sign panel frame a welded assembly and constructed of aluminum alloy channel or from steel panels powder coated in a corrosion proof manner for a minimum of ten (10) years YES NO
- X7.2.3 What is length of sign panel 133 inches?
- X7.2.4 Does face of sign incorporate measures to prevent fading from UV light, such as polycarbonate or lexan face with UV inhibitors incorporated YES NO
- Is another method used? YES NO Has it been reviewed and approved? YES NO
- X7.2.5 Does sign face have size to display three (3) separate lines of eight (8) characters YES NO
- Size of characters: 18 inches tall and 12 inches wide?
- Spacing of characters: 3 inches apart
- X7.2.6 Does each character configuration contains 54 LED lamp pixels in six (6) element horizontal by nine (9) element vertical arrangement? YES NO
- X7.2.7 Each pixel consists of 5 LED'S
- X7.2.8 Message color: 590 nanometers
- X7.3 Does sign have capability to display six (6) messages in sequence, with variable timing in 1/4 second increments under computer control? YES NO

- X7.3.1 Is arrow display and flashing caution functions included as part of the manufacturer's pre-programmed message sequences YES NO
- Will all arrow and flashing caution displays described in the current MUTCD provided YES NO
- X7.3.2 Are all abbreviations used in pre-programmed messages in compliance with the current MUTCD YES NO
- X7.3.3 Does the entire sign have capability to change all lines of message copy in not more than 100 milliseconds YES NO
- X7.3.4 Will sign be clearly visible a minimum of 4500 feet YES NO
- X7.3.5 Will sign legend be legible from a minimum distance of 1,000 feet under daylight conditions as determined by NTPEP for two non-traffic word message. YES NO
- X7.3.6 Will sign legend be legible from a minimum distance of 900 feet under night-time conditions as determined by NTPEP for a two non-traffic word message YES NO
- X7.3.7 Under variable light conditions, will the unit automatically adjust light source so as to meet the visibility requirements, without being too bright or too dim YES NO
- X7.4 Solar Message Board Support:
- X7.4.1 Will solar message board sign panel be supported on a telescoping upright member in order to permit raising the sign panel for operation and lowering for transport? YES NO
- Is the upright capable of 360 degrees rotation and to lock into any position to which it manually or electrically rotated YES NO
- X7.4.2 Raise and lower travel: 59 ^{inches} ~~feet~~ and accomplished by a hydraulic power pack YES NO
- X7.4.3 Bottom of sign 7 feet above ground level when in raise position
- X7.4.4 When transporting, will sign orient to the longitudinal axis of the trailer in a manner that effectively reduces aerodynamic drag during towing? YES NO
- X7.5 Power and Miscellaneous Equipment:
- X7.5.1 Is unit designed to accept two (2) power sources; one (1) being a battery bank consisting of four (4) size 4D, deep cycle, lead acid 12 volt DC batteries wired in parallel (or as designed to meet power/time requirements YES NO
- X7.5.2 Does second power supply to have capability to accept existing 120 volt commercial electric service? YES NO

X7.5.3 Batteries are recharged by a solar panel array producing 110 watts of power

X7.5.4 Does unit have a built-in battery charger with minimum 25 amp per hr rating?
 x YES NO

X7.5.5 Is battery bank housed in lockable heavy duty weatherproof battery boxes?
 x YES NO

X7.5.6 Are the two (2) power sources enclosed in protective housing? x YES NO

X7.5.7 Are batteries capable of being recharged by a commercial 110 volt battery charger?
 x YES NO

X7.6 Control Requirements:

X7.6.1 Is unit controlled in all functions by an on-board dedicated computer of solid state design and removable? x YES NO

X7.6.2 Does unit have keyboard which user originated messages may be entered for display or storage? x YES NO

X7.6.3 Does unit have an LCD display screen, where messages are reviewed before being displayed?
 x YES NO

X7.6.4 Computer stores 250 programmed messages for display when called upon by user through keyboard x YES NO

X7.6.5 Capability of storing 100 message sequences

X7.6.6 Does unit maintain stored message list? x YES NO

X7.6.7 Does unit provide password coding or key entry? x YES NO

X7.6.8 Will unit provide control programming to present sequences messages under operator control through keyboard entry? x YES NO

X7.6.9 Does unit provide control for moving arrow displays? x YES NO

X7.7 Solar Panel Control Unit:

X7.7.1 Is computer and power control unit housed in weather resistant, shock resistant lockable control box including lighting for night time operation? x YES NO

X7.7.2 Does power control unit contain two (2) current meters; One (1) shows amperage generated with battery charger operating and one (1) indicates amperage generated from the solar panels be stored in battery bank? YES x NO

X7.7.3 Does power control unit incorporate a PV regulator with thermal compensation for variances in ambient temperature to regulate the charge rate to the battery bank? x YES NO

X7.7.4 Does unit incorporate an automatic intensity control feature to keep L.E.D. lamp matrix intensity constant with a reduction in voltage? YES NO

X7.7.5 Does message unit provide a photocell to reduce lamp intensity at night eliminating blinding? YES NO

X7.8 Trailer:

X7.8.1 Is two (2) wheel trailer structurally adequate to serve as both platform for components? YES NO

X7.8.2 Are fenders made of steel and installed over each wheel? YES NO

X7.8.3 Is trailer equipped with hydraulic brake actuator system? YES NO

X7.8.4 Is unit equipped with four (4) crank type, HD industrial leveling jacks; one (1) installed on each corner of the trailer deck? YES NO

X7.9 Lighting:

X7.9.1 Does unit include LED taillights, stop lights, turn signals, license mount with light and all necessary reflectors? YES NO

X7.9.2 Are trailer electrical cable and connector (Cole Hersee Pt #12081 male or equal) compatible with towing vehicles installed? YES NO

X7.9.3 Is all trailer wiring encased in heavy duty hypalon type industrial wire looms clamped to underside of trailer structural tubing? YES NO

X7.9.4 Does unit have two (2) inch ball type trailer hitch 3500 pound capacity with double safety chains in accordance with SAE J684F installed? YES NO

X7.10 Hydraulic Power Pack:

X7.10.1 Does unit have 12 volt DC motor, pump, valve, reservoir, manual hand pump or approved equal? YES NO

X7.11 Message Cabinet Dimensions: (approximate)

X7.11.1 Length: 133 inches

X7.11.2 Height: 79.5 inches

X7.12 Central Processing Unit - CPU specifications (Minimum):

X7.12.1 Microprocessor Based 27.1 MHz YES NO

If No, you must specify _____.

- X7.12.2 Power requirements: 175 mA DC at 12 volts DC
- X7.12.3 Specify screen size: up to 6 character lines with 100 characters per line
up to
- X7.12.4 Are interfaces (2) RS232 9 pin D connectors and documentation on port numbers and pins?
X YES NO

In addition, is one (1) USB port or one (1) ETHERNET Port with USB adaptor provided
X YES NO

- X7.12.5 Will application source code be delivered with unit
OR
held in escrow X YES NO
and provided to WVDOT in case company goes out of business? X YES NO

- X7.12.6 Will technical documentation for unit and for application programs be provided?
X YES NO

- X7.12.7 Features considered as standard equipment but not addressed:

Includes cellular IP modem static.. First year cellular service is included.

- X7.12.8 Does unit comply with OSHA of 1979 and subsequent amendments? X YES NO
- X7.12.9 Will unit be painted manufacturers standard colors and materials X YES NO
- X7.12.10 Does unit meet guidelines for advertising? X YES NO
- X7.12.11 Will Manufacturer or Dealer provide training and training aids as specified? X YES NO

X7.13 Communications:

- X7.13.1 Will unit be guarded from any unwanted outside RF interference which would include but not be limited to VHF/FM receiver, 2 way radio receiver, cell phones etc. X YES NO
- X7.13.2 Is each PVMS controlled and monitored by its own sign controller directly from the control console inside the control cabinet on the trailer itself X YES NO
- X7.13.3 Is the PVMS sign controller able to receive instructions from and provide information to a computer containing PVMS control software compliant using NTCIP compliant communications modes X YES NO

X7.13.4 Remote Communications control via wireless communications with a remotely located computer
 YES NO

Does the system communications backbone, as well as all field modems or signal converters, provide the PVMS sign controller with a RS232 signal having a baud rate between 2,400 bps and 115,200 bps.
 YES NO

Is communications static IP based with a static IP based modem installed on the trailer
 YES NO

X7.13.5 Is local communications control accomplished via direct connection with a laptop computer that is connected directly to the sign control using a null modem connection and baud rate between 2,400 bps and 115,200 bps.
 YES NO

X7.13.6 Is local communications control available via a keypad and LCD interface
 YES NO

Are the features of additional or removal of message or message(s) from the PVMS list of playing messages, adjustment of luminosity to manual or automatic, and the monitoring of miscellaneous data like battery voltage, photocells reading, etc. included
 YES NO



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
 7011EC20

PAGE
 1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
 BUYER 33
 304-558-2402

*709032901 630-377-9100
 WORK AREA PROTECTION CORP
 2500 PRODUCTION DR.
 PO BOX 4087
 SAINT CHARLES IL 60174-9081

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

VENDOR

SHIP TO

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B	FREIGHT TERMS
03/16/2011	Net 30	Best Way	Destination	Delivered
BID OPENING DATE: 04/12/2011		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM NO. 1 THIS ADDENDUM IS ISSUED TO PROVIDE A COPY OF THE MANDATORY PRE-BID ATTENDEE SHEET. BID OPENING REMAINS 04/12/2011 AT 1:30 PM. *****END ADDENDUM NO. 1*****						
0001	1	EA		550-96		
TRAILER MOUNTED SOLAR POWERED MESSAGE BOARD						
***** THIS IS THE END OF RFQ 7011EC20 ***** TOTAL:						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE: *Michael P. Lubner* TELEPHONE: 800-327-4417 DATE: 4/7/11
 TITLE: Vice President/Offc. Mgr. FEIN: 52-1488457 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. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, 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.
5. Payment may only be made after the delivery and acceptance of goods or services.
6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.htm and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
14. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
15. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. 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. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. 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: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).

PRE-BID CONFERENCE
SIGN IN SHEET

3/15/2011

Date:

7011EC20

Request for Quotation Number:

Trailer Mounted Solar Board

Project Description:

PLEASE PRINT LEGIBLY. THIS INFORMATION IS ESSENTIAL TO CONTACT THE ATTENDEES IN A TIMELY MANNER. FAILURE TO DO SO MAY RESULT IN DELAYS IN YOUR COMPANY GETTING IMPORTANT BID INFORMATION.

Firm Name: WORK AREA PROTECTION CORP
 Firm Address: 2500 Production Drive
 St. Charles, IL 60194
 Representative Attending: JOE FORD
 Phone Number: 1-800-327-4417
 Fax Number: 1-630-377-9270
 Email Address: jford@sciproductsinc.com

Firm Name: American Signal Co.
 Firm Address: 2755 Bankers Industrial Dr.
 Atlanta GA 30360
 Representative Attending: Casey Inone
 Phone Number: 770.448.6650
 Fax Number: 770.448.8970
 Email Address: cinone@amsig.com

Firm Name: Logan Corporation
 Firm Address: 272 N. Ohio Ave.
 Clarksburg, WV 26301
 Representative Attending: Joe Dinaldo
 Phone Number: 304-641-2011
 Fax Number: 304-623-5678
 Email Address: jdinaldo@logancorp.com

Firm Name: WUDOT
 Firm Address:
 Representative Attending: Tom Riley
 Phone Number:
 Fax Number:
 Email Address:

Firm Name: Roadside Traffic Systems
 Firm Address: 4301 1st Avenue
 Alltco, WV 25143
 Representative Attending: Chuck Adams
 Phone Number: 304-539-3881 or 755-1200
 Fax Number: 305-397-2836
 Email Address: cadams@roadsidetraffic.com

Firm Name: WUDOT
 Firm Address:
 Representative Attending: James Cochran
 Phone Number:
 Fax Number:
 Email Address:

PRE-BID CONFERENCE
SIGN IN SHEET

Request for Quotation Number: 7011EC20

Date: 3/15/2011

Trailer Mounted Solar Board

Project Description:

PLEASE PRINT LEGIBLY. THIS INFORMATION IS ESSENTIAL TO CONTACT THE ATTENDEES IN A TIMELY MANNER. FAILURE TO DO SO MAY RESULT IN DELAYS IN YOUR COMPANY GETTING IMPORTANT BID INFORMATION.

Firm Name:	<u>WV DOT</u>
Firm Address:	
Representative Attending:	<u>Maureen Lee</u>
Phone Number:	
Fax Number:	
Email Address:	

Firm Name:	
Firm Address:	
Representative Attending:	
Phone Number:	
Fax Number:	
Email Address:	

Firm Name:	<u>Sheri Stone</u>
Firm Address:	<u>WV DDA Purchasing</u>
Representative Attending:	
Phone Number:	
Fax Number:	
Email Address:	

Firm Name:	
Firm Address:	
Representative Attending:	
Phone Number:	
Fax Number:	
Email Address:	

Firm Name:	<u>Angie Moorman</u>
Firm Address:	<u>DOT</u>
Representative Attending:	
Phone Number:	
Fax Number:	
Email Address:	

Firm Name:	
Firm Address:	
Representative Attending:	
Phone Number:	
Fax Number:	
Email Address:	



WARRANTY & DISCLAIMERS

Solar Message Center SMC 1000 ST, 2000 FM ST

Warranty Statement

1. Precision Solar Controls, Inc. ("PSC") warrants that each new changeable message sign will be free from defects in material and workmanship for a period of two (2) years from the date of shipment, subject to the conditions and restrictions contained herein.
2. PSC further warrants parts furnished under this warranty for a period, which expires upon the termination of the warranty applicable to the message center onto which these parts are installed. Parts furnished outside of this contract are warranted for a period of ninety (90) days from the date of shipment and are subject to the conditions and restrictions applicable at shipment.
3. The exception to the warranty statement above pertains to the batteries and solar panels installed by PSC at the factory. These parts are warranted against defects in material and workmanship for a period of one (1) year for batteries and five (5) years for solar panels from date of shipment, subject to the conditions and restrictions contained herein.
4. This warranty does not apply to a product that has not been installed or maintained in accordance with PSC's instructions, has been subjected to damage in an accident, abused or neglected during operation, repaired or modified by persons other than PSC, its employees or authorized agents, or failed to have normal maintenance.
5. This warranty covers only equipment and parts manufactured by PSC. All other components and accessories furnished with PSC product are sold "as is" and without warranty, express or implied of any kind, subject to such warranty, if any, of the manufacturers thereof. PSC ALSO DISCLAIMS ALL EXPRESS, STATUTORY AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, APPLICABLE TO USED PRODUCTS, LIGHT BULBS, FUSES, ELECTRIC WIRES AND BATTERIES. THE ONLY WARRANTY, IF ANY, APPLICABLE TO THE COMPONENTS AND ACCESSORIES DESCRIBED ABOVE SHALL BE THE WARRANTY OF THE MANUFACTURERS OF THE COMPONENTS AND ACCESSORIES.
6. The buyer expressly agrees that the buyer's sole remedy and PSC's sole responsibility in respect to warranty claim is exclusively limited to repair or replacement, at PSC's option, of product or a portion thereof found by PSC to be defective. PSC does not pay for labor charges or transportation charges and shall not be liable for any incidental or consequential damages connected with repair of a product deemed to be defective or with installation or replacement of repaired product. Further PSC disclaims an liability for any incidental or consequential damages, including lost or duplicated time or expense, accruing for any reason to the owner or user of any products sold by PSC, whether claim is made in contract or in tort or under any theory of warranty, negligence or otherwise.

7. PSC reserves the right to make changes in its products from time to time without incurring any obligation to incorporate such improvements in any products previously sold or in service.
8. The terms and conditions of this warranty cannot be altered without the written consent of PSC.
9. This warranty does not apply to any product, which has not been paid for according to the terms under which the product has been invoiced. In addition, buyer agrees that PSC will not be required to honor any warranty claim from a customer whose account at PSC is not current according to PSC's payment terms.

BUYER MAY HAVE SEEN SAMPLES, ADVERTISEMENTS OR OTHER SALES LITERATURE OR HEARD STATEMENTS MADE DURING THE SALES PRESENTATION WHICH SUGGEST THAT THE PRODUCT BEING SOLD HAS QUALITIES OR CHARACTERISTICS THAT MAKE IT ATTRACTIVE. EVEN IF PSC OR OTS AGENT MADE THESE STATEMENTS DELIBERATELY, PSC DOES NOT INTEND TO INCUR LEGAL LIABILITY FOR ANY SUCH APPARENT REPRESENTATION UNLESS THEY ARE INCLUDED WITHIN THE EXPRESSED WRITTEN TERMS OF THIS CONTRACT. IF NOT EXPRESSED, ANY SUCH APPARENT REPRESENTATION IS NOT IN ANY WAY A PART OF THIS CONTRACT OR THE BARGAIN WITH THE BUYER. PSC'S AGENTS HAVE NO AUTHORITY TO GIVE WARRANTIES THAT EXCEED THOSE LISTED IN THIS CONTRACT AND BUYER IS WARNED THEREFORE TO CHECK THIS CONTRACT CAREFULLY TO SEE THAT IT CORRECTLY REFLECTS THOSE TERMS THAT ARE IMPORTANT TO THE BUYER. EXCEPT AS OTHERWISE PROVIDED IN THIS DOCUMENT, THERE ARE NO EXPRESS OR IMPLIED WARRANTIES, PARTICULARLY NOT THE WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, THAT ARE NOT CONTAINED WITHIN THE WRITTEN TERMS OF THIS CONTRACT.

10. The foregoing warranty is exclusively and in lieu of all other express, statutory, and implied warranties, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR ANY PARTICULAR PURPOSE. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE LANGUAGE IN THE PREVIOUS NINE (9) PARAGRAGHS.

Application of Warranty

1. To make a claim under this warranty, contact PSC giving a d description of the product and request a Return Goods Authorization ("RGA") number. Merchandise should not be returned to PSC until an RGA number is received.
2. After receiving an RGA number, the product should be returned, freight prepaid, to PSC. If found to be defective, and if all return freight charges have been paid, or authorization to return freight collect is received, PSC will repair or replace the product, at our option, and return it to the customer.
3. In emergency cases where it becomes impractical to wait for warranty consideration by PSC, parts will be shipped on account the customer pending warranty evaluation. Customers without an established account with PSC will be shipped parts C.O.D.. Upon completion of the warranty evaluation, the customer will be reimbursed for the charges if parts in question are found to be subject to the terms of the warranty found in this contract.



A Division of Stabler Companies Inc.

SPECIFICATION
SOLAR MESSAGE CENTER
MODEL SMC – 2000 FM ST

1.0 INTRODUCTION

This specification shall describe a trailer-mounted, portable changeable sign upon which varying electronically generated messages and graphics will be displayed to highway traffic as advisories or for the purposes of warning and/or control.

The equipment described shall be a standard model produced by a manufacturer with experience in the production of trailer-mounted traffic control products. All workmanship, materials, and assembly procedures shall be of quality design. Each component of the unit shall be adequate for and compatible with all structural and performance requirements of the complete unit. The equipment shall remain operational under inclement weather conditions.

1.1 DESCRIPTION

The Solar Message Center manufactured by Precision Solar Controls Inc. is a trailer mounted variable message board consisting of 24 LED lamp matrix panels powered by a bank of batteries in order to convey bright, distinctive messages to the traveling public. The batteries are in turn recharged automatically by a group of solar panels located at the highest point on the unit. The Solar Message Center is designed with sufficient energy backup to operate for a period of 21 days without any sun. The solar panel generator array shall recharge the battery bank at a rate of 2.5 hours sun to one 24 hour period of usage.

2.0 CONSTRUCTION REQUIREMENTS

2.1 GENERAL

The trailer and all mounted equipment shall be structurally adequate for unlimited, normal operation in wind velocities normally encountered on the roadway. The equipment shall be designed to enable one person to perform all transporting and operation functions easily and effectively without assistance.

2205 Hightower Drive.*Garland, Texas 75041*Phone (972) 278-0553*Fax (972)278-8683
www.precisionsolarcontrols.com

2.2 TRAILER

The 2 wheel trailer shall be structurally adequate to serve both as a carrier and as an operating platform for all components of the unit. The base structure shall be structural rectangular 2 inch by 4 inch steel tubing with a minimum wall thickness of .120 inches. All tubing shall be joined by welding and all structural welds shall be continuous bead welds.

Axle and suspension systems shall be rated at 3500 pounds, minimum. Wheels shall be 15 inch, tires shall be DOT trailer rated, 4 ply tires capable of towing at speeds up to 65 miles per hour. Plastic step fenders shall be installed over each wheel.

Four crank type, heavy duty, 2000 pound capacity industrial leveling jacks, one at each corner of the trailer deck, shall be installed. A 2 inch ball type trailer hitch with two safety chains in accordance with SAE J684F shall be installed. The zinc plated high strength steel chains shall be mounted to the trailer tongue using a 1/2" grade 8 steel bolt.

A lighting system shall be provided for the trailer to include tail lights, stop lights, turn signals, side marker lights, a license plate light and reflectors. A trailer electrical cable with connector compatible for towing vehicles shall be installed. To eliminate chafing no wiring shall be installed on top of the trailer frame. All wiring shall be jacketed or shielded by wire loom to guard against environmental deterioration and physical wear.

All exterior surfaces of the trailer shall be painted PSC safety orange using powder coat paint.

2.3 DISPLAY CABINET

The sign panel shall be of aluminum construction and so assembled as to prevent dissimilar metal action from occurring. The display shall be sealed with trim lock bulb type trim. Ventilation shall be natural convection. Moving parts involved in the ventilation of the sign cabinet shall not be allowed.

The width of the Solar Message Center sign panel shall not exceed 135 inches. The front face of the sign shall be covered with a clear UV inhibited polycarbonate to prevent fading. The polycarbonate window shall be held in place with a 2.0 inch cross-section aluminum frame which is mounted to the display cabinet with three stainless steel slip hinges and held open with two steel wheel style door holders with automatic release.

The Solar Message Center sign panel shall consist of one continuous LED matrix which provides text messages as well as graphic symbols. The sign panel shall be capable of projecting multiple font size characters created in the standard software. The full matrix panel shall consist of 28 LED lamp matrix pixels in height and 48 LED lamp pixels in length. Each pixel shall incorporate 5 LED's to provide complete target size definition within the pixel area. Message color shall be approximately 590 nanometers.

In addition, standard preprogrammed graphics symbols can be shown due to the full matrix capability.

The sign shall be capable of displaying at least 10 pages per message with 24 characters per page, with variable timing in 1/10 (.10) second increments under computer control. The entire sign shall completely change all lines of message in not more than 100 milliseconds.

The sign, when projecting 18 inch characters, shall be clearly visible and legible from a distance of 1,000 feet under both day and night conditions. Legibility shall increase proportionately to the size of the symbols. Under variable light level conditions, the sign shall automatically adjust its light source so as to meet the 1000 feet legibility requirements without being too dim or too intense. The intensity of the light source shall not change suddenly in response to temporary changes in ambient light conditions, such as a car's headlights, but shall have an intentional built in delay to provide a steady output.

The Solar Message Center sign panel shall be supported on a telescoping upright member in a manner to permit raising the sign for operation and lowering the sign for transport. The upright shall include a device to enable 360° rotation and shall lock into the position to which it is manually rotated. Raise and lower travel shall nominally be 5 feet and shall be accomplished by a hydraulic power pack. The bottom of the sign shall be at least 7 feet above the ground when in the raised position. In a transport position, the sign shall orient to the longitudinal axis of the trailer in a manner that effectively reduces aerodynamic drag during towing.

3.0 POWER AND MISCELLANEOUS REQUIRED EQUIPMENT

The power supply type shall be a battery bank consisting of three size 4-D, deep cycle, lead acid 12 volt DC batteries wired in parallel. The battery bank shall be housed in lockable ABS plastic weatherproof battery box. The batteries shall be recharged by a solar panel array producing 110 watts of power. The complete unit shall be painted with the manufacture's standard colors and materials.

4.0 SYSTEM CONTROL REQUIREMENTS

The Solar Message Center shall be controlled in all functions by an on-board dedicated computer that shall:

- a) Be of solid state design and be removable.
- b) Include a keyboard through which user originated messages may be entered for display or storage.
- c) Include an LCD display screen upon which messages can be reviewed before/during display on the message sign.

- d) Store 250 preprogrammed messages for display when called upon by an operator through the keyboard.
- e) Store 80 preprogrammed graphics messages.
- f) Store 100 user created multi-page messages.
- g) Maintain stored message list.
- h) Provide password coding or key entry.
- i) Provide control programming to display stored messages under operator control through keyboard entry.
- j) Provide control for moving arrow display.
- k) Provide automatic letter sizing and centering without separate programming.
- l) Provide for programming while another message is being shown.
- m) Include a schedule program to automatically start and stop the display of sequences at predetermined times.
- n) Provide character board and battery diagnostics.

The computer and charge controller shall be modular, to allow for ease of replacement. The computer and charge controller shall be housed in a lockable weather resistant enclosure, be securely attached to the frame of the trailer and shall be able to be removed or replaced with a standard Phillips screwdriver. Battery voltage and amperage generated from the solar array to the battery bank shall be monitored and displayed at the system's computer.

The charge controller shall incorporate a PV regulator with thermal compensation for variances in ambient temperature to regulate the charge rate to the battery bank.

The Solar Message Center shall incorporate an automatic intensity control feature in order to keep the LED lamp matrix intensity constant with a reduction in voltage and changes in ambient temperature. This allows the message to remain legible at a distance of 1000 feet any time the unit is operational. The Solar Message Center also has a photocell in order to reduce the lamp intensity at night, eliminating glare.

**SOLAR MESSAGE CENTER
-GENERAL SPECIFICATION-**

TRAILER SPECIFICATIONS:

TRAILER HEIGHT - TRAVEL POSITION.....104.0"
TRAILER HEIGHT - ERECTED POSITION.....163"
TRAVEL WIDTH.....96"
TRAILER LENGTH WITH TONGUE.....170.6"
TRAILER LENGTH WITHOUT TONGUE.....134"
TRAILER WEIGHT.....1875 LBS.

MAIN FRAME: 2" X 4" X .120" HIGH GRADE STEEL RECTANGULAR
TUBING

TONGUE : 3" X 3" X .250" STEEL RECTANGULAR TUBING

TONGUE SLEEVE: .375" STEEL PLATE

OUTER MAST: .250" STEEL TUBING

INNER MAST: .250" STEEL TUBING

MAST MOUNTING PLATE: .375" STEEL PLATE WITH .250" GUSSETS

SOLAR PANEL ARRAY FRAME: .125" ALUMINUM

MESSAGE CABINET: WIDTH.....133"
HEIGHT.....79.5"
DEPTH - INCLUDING SOLAR PANEL
ARRAY.....34"
DEPTH - WITHOUT SOLAR PANEL
ARRAY.....4.25"
POLYCARBONATE WINDOW THICKNESS - .125"
CABINET DELTA - TYP.....20° F

HYDRAULIC POWER PACK: 12VDC MOTOR/PUMP/VALVE/
RESERVOIR

AXLE CAPACITY.....3,500 LBS.

LEAF SPRING CAPACITY.....3,500 LBS.

FENDERS: INJECTED MOLDED PLASTIC

BATTERY ENCLOSURE - .250" UV PROTECTED ABS

SWING JACK CAPACITY.....2,000 LBS. EACH/ 8,000 LBS. TOTAL

SWING JACK TRAVEL.....15"

SMC CENTRAL PROCESSING UNIT – CPU SPECIFICATIONS:

PROCESSOR.....Rabbit Core Microprocessor 22.1 MHz
POWER REQUIREMENTS.....175 mA @ 12V
MEMORY TYPE & SIZE.....512 KB STATIC RAM
512 KB FLASH MEMORY
MEMORY BACK – UP:.....SRAM/3 YEAR LIFE
TEMPERATURE.....-40° C TO +75° C
(-40° F TO +167° F)
HUMIDITY.....95% NON-CONDENSING
DISPLAY TYPE: LIQUID CRYSTAL DISPLAY-LCD
SCREEN SIZE.....240 X 64 DOT PIXELS
INTERFACES: RS232

LED LAMP MATRIX SPECIFICATION

PIXEL SIZE..... 2" X 2"
CHARACTER SIZE.....18" H X 12" W
CHARACTER SPACING.....4.0"
LINES.....3
CHARACTER PER LINE.....8
LINE SPACING.....6"
FIELD OF VIEW..... 30° CONICAL

CONTRAST ENHANCEMENT FEATURES:

- * 5 LED PIXEL**
- * BLACK BACKGROUND**

ELECTRICAL CONTROL:

- * COMPUTER CONTROLLED/AUTOMATIC INTENSITY CONTROL-
ADJUSTS LED OUTPUT WITH VARIANCES OF AMBIENT LIGHT AND
TEMPERATURE / PHOTOCCELL CONTROLLED**
- * OVERCURRENT PROTECTION: PREVENTS WAVELENGTH SHIFT
OVER TEMPERATURE AND CURRENT VARIATIONS**

SOLAR GENERATOR SPECIFICATIONS:

SOLAR PANEL ARRAY..... 110 WATT MINIMUM

OPERATING VOLTAGE.....12 VDC

**BATTERY BANK: THREE 4D DEEP CYCLE 12 VOLT BATTERIES 570
AMP HOURS TOTAL**

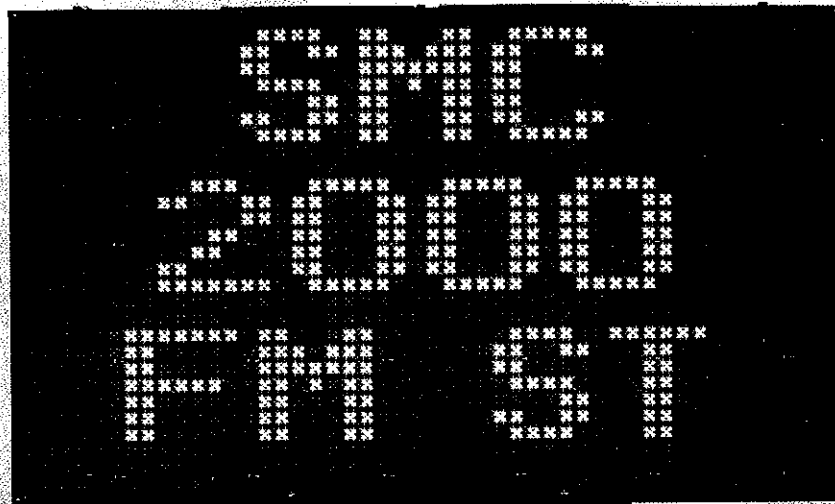
**CHARGE CONTROLLER: SERIES REGULATOR WITH THERMAL
COMPENSATION**

LOW VOLTAGE DISCONNECT, 4 point caution display.....11.0 VDC

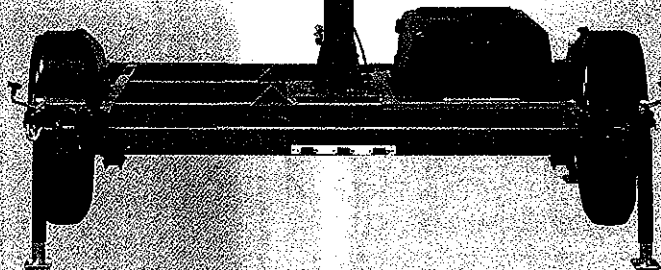
LOW VOLTAGE DISCONNECT, complete shutdown.....10.7 Volts

WELCOME

To The



Meets MUTCD
Requirements



NEW

SOLAR MESSAGE CENTER

FULL MATRIX

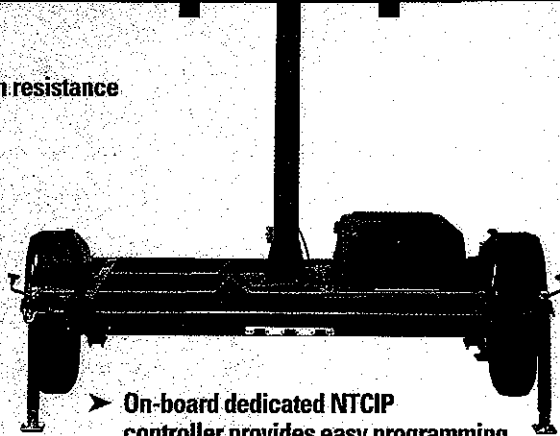
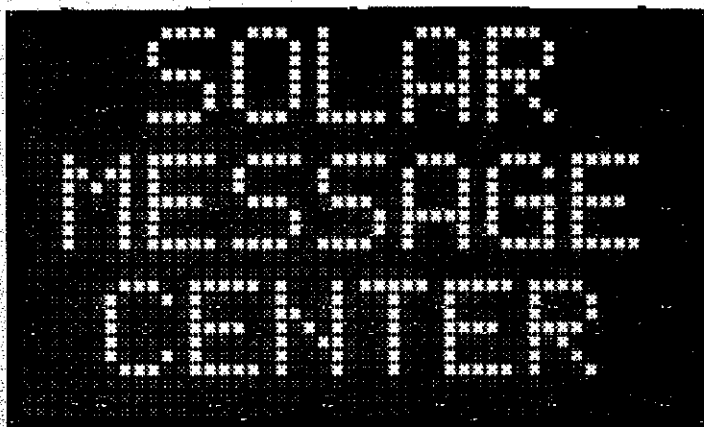
SMC 2000 FM ST

Precision Solar Controls has been recognized as the industry benchmark for quality and performance since the introduction of the original Solar Message Center.

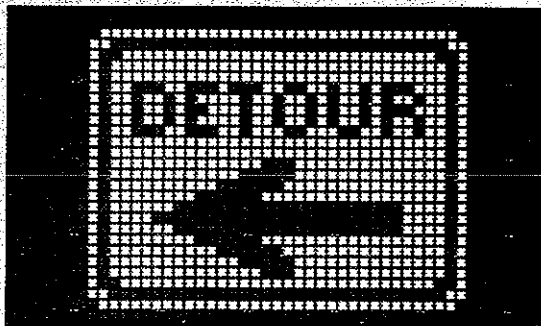
Manufactured to the same quality standards Precision Solar Controls is recognized for, the new SMC 2000 FM-ST meets all requirements of the MUTCD

You'll get just the features you want, at a price that will meet your budget.

- 5 LEDs per pixel provide uniform light output
- Energy-efficient LED display provides minimal battery maintenance and long operational life
- Automatic intensity control provides optimum LED intensity
- Industrial-grade trailer provides stable platform
- Powder-coat paint for improved fade and scratch resistance
- Calendar programming capability
- Full Matrix display provides graphic messages and arrow board capability



- Graphic and Arrow Board displays available



- On-board dedicated NTCIP controller provides easy programming with secure password protection



SMC 2000 FM-ST


 Precision
 Solar
 Controls Inc.
 800-686-7414

System Integrity

The SMC 2000 FM-ST is capable of operating independently of sunlight for 21 days using the 2 batteries in the battery bank. The solar array is sized to provide one day's power requirement in just 2.5 hours of good sunlight. This combination of extended day's use from the battery bank and quick recharge capability from the solar array result in a viable solar-assist system that will provide years of service with minimal maintenance.

LED Lamp Pixel Design

The SMC 2000 FM-ST uses 5 high-intensity, solid-state LEDs per 2-inch pixel. This creates a more uniform light output in each pixel, resulting in increased message definition and distance legibility.

Standard NTCIP-Compliant Controller

A user-friendly, NTCIP-compliant, dedicated computer designed by Precision Solar Controls reduces the number of keys required to program the SMC 2000 FM-ST.

Full Matrix Display

The SMC 2000 FM-ST provides 250 text, 60 graphic and 20 arrow board display messages preprogrammed and stored in the controller. Additionally, 100 user-created messages can be programmed and stored.

Industrial-Grade Structural Steel Trailer

The SMC 2000 FM-ST uses a durable trailer system designed to provide years of dependable service. The trailer's high-quality, powder-coat paint; 2"x 4" 11-gauge steel frame; and a 3,500-pound suspension system enhance the overall quality of the unit.

Modular Electronic Componentry

The entire system was developed with the operator/end user in mind. Electronic components are easily replaced, reducing downtime and maintenance costs. This modularity also improves system diagnostics.

SMC 2000 FM-ST Unit Specifications

- Raised height – 163" (4.14 m)
- Travel height – 104" (2.64 m)
- Width – 96" (2.43 m)
- Length with tongue – 168" (4.26 m)
- Length w/o tongue – 130" (3.3 m)
- Weight – 1875 lbs. (850.5 Kg)
- Energy Source – (2) 4D Deep Cycle batteries
- Autonomy – 21 days
- Generator – Solar Panel Array
- Operating Temperature Range – -20 to +120 degrees F (-29 to +49 degrees C)
- Lift Mechanism – Leak resistant electro-hydraulic
- Main Frame – 2" x 4" x .120" high grade steel

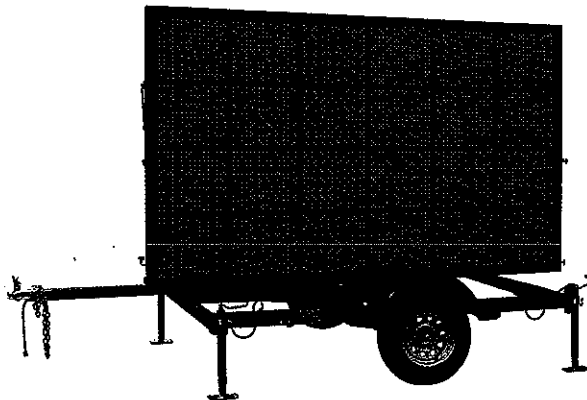
Sign Case Specifications

- Height – 79.5" (2.02 m)
- Width – 133" (3.38 m)
- Character Height – 18" (46 cm)
- Lamp – LED (5 per pixel)
- Legibility – 1000 ft. (304 m)

SMC Computer Specifications

- Control Console Display: LCD
- Pre-programmed messages: 250
- User programmed messages: 100
- NTCIP-compliant software
- Update speed: 100 Milliseconds
- Removable Solid State Design
- Off-the-shelf QWERTY keyboard

Specifications are subject to change without notice.



► The SMC 2000 FM-ST shown in travel position

OPTIONS

The new SMC 2000 FM-ST Solar Message Center. Start with the basic board, then choose the options you want. All...or none.

Remote Communication System Provides NTCIP-compliant remote programming with mapping capability. Diagnostics, including pixel out detection is also provided.

Radar Option Enables the message board to display the speed of approaching vehicles.

Increased Autonomy / Recharge Capability Additional battery(ies) are available for extended autonomy. Additional solar panels are available to recover battery voltage quicker.

Optional Brake Systems Both electric and surge brakes are available.

Tilting / Rotating Solar Panels The solar array can tilt for cleaning, or rotate to increase solar charge.

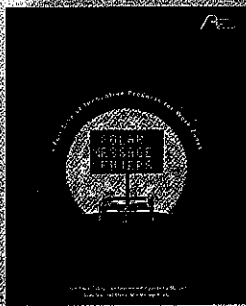
Pintle / Combination Hitch Option A 3-inch pintle ring, and a combination 2-inch ball with 3-inch pintle hitch coupler are available.

Steel Fenders / Steel Battery Box. Heavy-duty walk-on steel fenders and steel battery box are available.

6-Volt Battery Bank

Custom Paint

Other catalogs available to you from the Stabler Family of Products:



Solar LED Message Centers



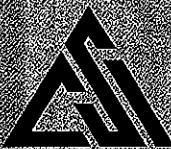
Traffic Control Products



SCI Products Inc.



Permanent Message Boards



Stabler Family Of Products

Permanent Message Boards • Audio Announcers • Work Area Protection • Traffic Control Products



800-686-7414
 2100 Highway 91, West Brainerd, Texas 75781
 Phone: 972-774-3550 Fax: 972-774-5113
www.precisioncontrols.com

Disclaimer

The product must be used only in accordance with the manufacturer's specifications and only in accordance with the manufacturer's intended purpose. Improper use, use for an unintended purpose or unauthorized modifications of this product may create a hazardous condition that may cause property damage, personal injury or death. Any modification or unintended use of this product shall immediately void all manufacturer's warranties. SCI Products, all subsidiaries and the manufacturer disclaim all liabilities for injuries to persons or property resulting from any modifications to this product, unintended use of this product or any use other than in accordance with the manufacturer's specifications.

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STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owned is an amount greater than one thousand dollars in the aggregate.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, Limited Liability Company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

Under penalty of law for false swearing (*West Virginia Code §61-5-3*), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: Work Area Protection Corporation

Authorized Signature: Michael P. Linker Date: 4/7/11

State of Illinois

County of Kane, to-wit:

Taken, subscribed, and sworn to before me this 7th day of April, 2011.

My Commission expires May 25th, 2011.

AFFIX SEAL HERE

NOTARY PUBLIC Valerie C. Hitz

