

SOLICITATION, OFFER, AND AWARD <i>(Construction, Alteration, or Repair)</i>	1. SOLICITATION NO. DTMA-95-Q-2011-0007	2. TYPE OF SOLICITATION <input type="checkbox"/> SEALED BID (IFB) <input type="checkbox"/> NEGOTIATED (RFP)	3. DATE ISSUED	PAGE OF PAGES 1 39
	IMPORTANT -- The "offer" section on the reverse must be fully completed by offeror.			

4. CONTRACT NO. DTMA-95-C-2011-0003	5. REQUISITION/PURCHASE REQUEST NO. MMA-PR5207-20110075	6. PROJECT NO. CIPDHOREN
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7. ISSUED BY U.S. Merchant Marine Academy Division of Procurement USMMA-5206 300 Steamboat Road Kings Point NY 11024-1699	CODE 00095	8. ADDRESS OFFER TO
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9. FOR INFORMATION CALL: 	a. NAME Douglas Pader	b. TELEPHONE NO. (Include area code) (NO COLLECT CALLS) 516.726.5840
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SOLICITATION

NOTE: In sealed bid solicitations "offer" and "offeror" mean "bid" and "bidder."

10. THE GOVERNMENT REQUIRES PERFORMANCE OF THE WORK DESCRIBED IN THESE DOCUMENTS (Title, identifying no., date)

11. The Contractor shall begin performance 5 calendar days and complete it within 120 calendar days after receiving award, notice to proceed. The performance period is mandatory negotiable. (See _____.)

12a. THE CONTRACTOR MUST FURNISH ANY REQUIRED PERFORMANCE AND PAYMENT BONDS? <i>(If "YES", indicate within how many calendar days after award in Item 12b.)</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	12b. CALENDAR DAYS 5
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13. ADDITIONAL SOLICITATION REQUIREMENTS:

a. Sealed offers in original and _____ copies to perform the work required are due at the place specified in Item 8 by _____ (hour) local time _____ (date). If this is a sealed bid solicitation, offers will be publicly opened at that time. Sealed envelopes containing offers shall be marked to show the offeror's name and address, the solicitation number, and the date and time offers are due.

b. An offer guarantee is, is not required.

c. All offers are subject to the (1) work requirements, and (2) other provisions and clauses incorporated in the solicitation in full text or by reference.

d. Offers providing less than _____ calendar days for Government acceptance after the date offers are due will not be considered and will be rejected.

OFFER (Must be fully completed by offeror)

14. NAME AND ADDRESS OF OFFEROR (Include ZIP Code)

Dominion Construction Corp.
108 Allen Blvd.
Farmingdale NY 11735-5617

15. TELEPHONE NO. (Include area code)

16. REMITTANCE ADDRESS (Include only if different than item 14.)

CODE 061971594

FACILITY CODE

17. The offeror agrees to perform the work required at the prices specified below in strict accordance with the terms of this solicitation, if this offer is accepted by the Government in writing within _____ calendar days after the date offers are due. (Insert any number equal to or greater than the minimum requirement stated in item 13d. Failure to insert any number means the offeror accepts the minimum in item 13d.)

AMOUNTS

18. The offeror agrees to furnish any required performance and payment bonds.

19. ACKNOWLEDGEMENT OF AMENDMENTS

(The offeror acknowledges receipt of amendments to the solicitation - give number and date of each)

AMENDMENT NO.									
DATE.									

20a. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER (Type or print)

20b. SIGNATURE

20c. OFFER DATE

AWARD (To be completed by Government)

21. ITEMS ACCEPTED:

Continued...

22. AMOUNT

\$247,000.00

23. ACCOUNTING AND APPROPRIATION DATA

See schedule

24. SUBMIT INVOICES TO ADDRESS SHOWN IN
(4 copies unless otherwise specified)

ITEM
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25. OTHER THAN FULL AND OPEN COMPETITION PURSUANT TO

10 U.S.C. 2304(c) () 41 U.S.C. 253(c) ()

26. ADMINISTERED BY

CODE 00095

U.S.Merchant Marine Academy
Division of Procurement
USMMA-5206
300 Steamboat Road
Kings Point NY 11024-1699

27. PAYMENT WILL BE MADE BY

MARAD A/P INVOICES
P.O.BOX 25710
OKLAHOMA CITY OK 73125

CONTRACTING OFFICER WILL COMPLETE ITEM 28 OR 29 AS APPLICABLE

28. NEGOTIATED AGREEMENT

(Contractor is required to sign this document and return _____ copies to issuing office.)
Contractor agrees to furnish and deliver all items or perform all work requirements identified on this form and any continuation sheets for the consideration stated in this contract. The rights and obligations of the parties to this contract shall be governed by (a) this contract award, (b) the solicitation, and (c) the clauses, representations,

29. AWARD

(Contractor is not required to sign this document.)
Your offer on this solicitation is hereby accepted as to the items listed. This award consummates the contract, which consists of (a) the Government solicitation and your offer, and (b) this contract award. No further contractual document is necessary.

30a. NAME AND TITLE OF CONTRACTOR OR PERSON AUTHORIZED TO SIGN (Type or print)

31a. NAME OF CONTRACTING OFFICER (Type or print)

Maxmillian Diah

30b. SIGNATURE

30c. DATE

31b. UNITED STATES OF AMERICA

31c. DATE

BY

Math S. Diah

23 SEP 11

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED
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NAME OF OFFEROR OR CONTRACTOR
Dominion Construction Corp.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
0001	<p>Delivery: 120 Days After Notice to Proceed Delivery Location Code: 00095 U.S Merchant Marine Academy U.S. DOT/Maritime Administration 300 Steamboat Road Kings Point NY 11024-1699 USA</p> <p>Accounting Info: 70X1750CIP-2011-1CIPDH0REN-0000014600-32010-172060 00 FOB: Destination</p> <p>Refurbishment of Delano Hall refer and new condenser water system. Obligated Amount: \$247,000.00</p> <p>The total amount of award: \$247,000.00. The obligation for this award is shown in box 22.</p>	1	EA	247,000.00	247,000.00

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Solicitation/Contract Form

52.211-10 Commencement, Prosecution, and Completion of Work. (APR 1984)

The Contractor shall be required to (a) commence work under this contract within TEN calendar days after the date the Contractor receives the notice to proceed, (b) prosecute the work diligently, and (c) complete the entire work ready for use not later than 120 DAYS after commencement. The time stated for completion shall include final cleanup of the premises.

(End of clause)

52.211-13 Time Extensions. (SEP 2000)

52.222-27 Affirmative Action Compliance Requirements for Construction. (FEB 1999)

52.232-5 Payments under Fixed-Price Construction Contracts. (SEP 2002)

52.236-2 Differing Site Conditions. (APR 1984)

52.236-3 Site Investigation and Conditions Affecting the Work. (APR 1984)

52.236-5 Materials and Workmanship. (APR 1984)

52.236-6 Supervisence by the Contractor. (APR 1984)

52.236-7 Permits and Responsibilities. (NOV 1991)

52.236-9 Protection of Existing Vegetation, Structures, Equipment, Utilities, and Improvements. (APR 1984)

52.236-12 Cleaning Up. (APR 1984)

52.236-13 Accident Prevention. (NOV 1991)

52.236-14 Availability and Use of Utility Services. (APR 1984)

52.236-15 Schedules for Construction Contracts. (APR 1984)

52.236-17 Layout of Work. (APR 1984)

52.236-21 Specifications and Drawings for Construction. (FEB 1997)

52.242-14 Suspension of Work. (APR 1984)

52.246-12 Inspection of Construction. (APR 1996)

52.246-21 Warranty of Construction. (MAR 1994)

52.248-3 Value Engineering - Construction. (OCT 2010)

52.249-10 Default (Fixed-Price Construction). (APR 1984)

Supplies or Services/Prices

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ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001	Refrigerator/Freezer Upgrade	1	EACH	\$	\$

FFP

The Contractor shall provide all material, labor, supervision and equipment to perform the following work in accordance with the Statement of Work: upgrade of refrigerator and freezer and new condenser water system at Delano Hall, United States Merchant Marine Academy.
FOB: Destination

Description/Specifications

STATEMENT OF WORK

**UPGRADE OF KITCHEN EQUIPMENT AT DELANO HALL
LOCATED AT THE
U.S. MERCHANT MARINE ACADEMY**

SECTION 1 - INTRODUCTION

- 1.1.1 This statement of work describes the services for the design and installation for the refurbishment of an existing freezer and upgrade of heat rejection system for the water cooled refrigerators and freezers located at Delano hall at the United States Merchant Marine Academy. The installation will be performed by a licensed contractor in New York State. All electrical work to be performed by a licensed electrical contractor in New York State.
- 1.2 The Academy is in operation 365 days a year, 24 hours a day, and must continue to be in operation during all phases of the construction.
- 1.3 This contractor will visit the Academy and review existing conditions prior to submitting a proposal for the design and installation for all work described in this statement of work.
- 1.4 This contractor will be responsible for all work indicated in this scope of work including mechanical, electrical, plumbing, etc.
- 1.5 All new work shall be in accordance with all local, state, federal and applicable building codes including but not limited to New York State Building Code, New York State Mechanical Code, New York State Plumbing Code, New York State Building Code, New York State Electrical Code, Underwriters Laboratories, American National Standards, ASTM, IEEE and National Electrical Manufacturers Association. The design for the new work will be submitted and signed and sealed by a licensed professional engineer in New York State.
- 1.6 All new work to be performed by a licensed contractor in New York State in applicable trades such as mechanical, electrical, plumbing, etc. All work must be installed in accordance with the equipment manufacturer's recommendations. All work must be coordinated with

existing conditions. All work must be coordinated with the Academy to minimize any down time of any facilities and existing equipment. The contractor must submit any request to the Academy for approval for equipment or facility shut downs at least 72 hours prior to the shut down.

SECTION 2 - DESIGN AND INSTALLATION FOR FREEZER AND REFRIGERATOR REFRUBISHMENT

- 2.1 The contractor is required to accomplish the following as indicated in this statement of work at the U.S. Merchant Marine Academy:
- a) The contractor will inspect the existing walk-in freezer and refrigerator and design and submit to the COTR the proposed plan for the refurbishment for approval prior to ordering materials and proceeding with the installation. The contractor will visit the site to review the existing conditions in order to prepare a design for refurbishment of the walk-in freezer and refrigerator. The contractor will design and install all required upgrades to make the freezer a complete and working system. The contractor must have a minimum of 15 previous years experience with refurbishing walk-in commercial freezer and must be able to be verified.
 - b) The design and installation will include all removals and/or relocates as required to accommodate the installation for the refurbishment of the freezer and refrigerator.
 - c) Caulk and seal all openings in freezer, refrigerator and vestibule outside of freezer and refrigerator. Replace in kind any floor tiles and corner pieces that are cracked. Paint existing walls and trim with paint with vapor sealer.
 - d) Install all new stainless steel panels over existing ceiling in freezer, refrigerator and vestibule and shall be ASTM A 167 type 316. New panels shall be fastened with stainless steel fasteners. Install new stainless steel vertical supports for the new ceiling.
 - e) Panels shall have a tongue and groove edges or flush joints with double sealed serrated neoprene rubber gaskets to assure air and vapor tight joints. The gage of all panels will be specified by the US MMA.
 - f) Any new door hardware and shall include spring loaded hinges. Include plated steel pin and cam lift bearing. Provide a door latch with cylinder lock and provisions for pad lock. Install a safety release handle to permit opening from inside when locked. Install new door gaskets. Apply protective varnish/coating sealant to existing wood doors to protect from water vapor.
 - g) Provide two tube fluorescent lamps in vapor-proof fixtures with safety shields. Provide diffuser ballasts capable of operating in minus 15

- deg. F temperature. Lights shall run full length of walk -in unit starting from 2 feet from front panel and extending within 2 feet of back panel.
- h) Provide pressure relief port in each freezer section, heated electrically and insulated.
 - i) Provide a full and operating refrigeration system to maintain the freezer temperature at (0 Deg. F.) and the refrigerator at (32 Deg F.) in conformance to ASHRAE 15. Provide pre-assembled water cooled remote condensing unit assembly with all necessary components factory installed and wired including electrical box, time clock, drier, sight glass, enclosed compressor housing and compressor rack, refrigerant, refrigerant piping, refrigerant controls, vibration isolators, pipe hangars, pipe insulation, etc. The refrigerant piping will be hard or soft copper ANSI STD. B280, wrought iron fittings, and brazed connections for 2 inch piping and smaller, 2-1/2" piping and larger will be flanged at valves and equipment, joints will be 1,150 deg. F. min. melting temperature. Refrigerant piping will be installed in accordance with ANSI standards. Charge refrigerant system with dry nitrogen while constructing joints.
 - j) Insulate refrigeration piping with flexible cellular glass a minimum 1" thickness. Seal all insulation joints.
 - k) All piping penetrating walls shall have wall sleeves and fire stopping.
 - l) Design, installation and fabrication of pipe hangars, supports and welding attachments shall conform to MSS SP-58. Hangar types and supports for bare or covered pipes shall conform to MSS Sp-69 for system temperature range. Unless otherwise indicated, horizontal and vertical piping attachments shall conform to MSS SP-58. Provide metal protection shields and inserts for insulated piping. Provide hold-down slide type utilizing factory bound graphite, Teflon or oil-impregnated metal matched surfaces
 - m) Provide an electronic monitoring and alarm system. Alarm shall warn of abnormally high or low temperatures. System components shall include a detecting thermostat, master control panel, interconnecting wiring, remote, labeled and audible alarm, and defrost compensator. Provide dials showing temperatures and pilot lights, switches, transformer, and buzzer, all as part of the master control panel. Locate master control panel and remote audible alarm as indicated. Provide power fuse to protect components. Set alarms at 10 degrees above and below specified operation temperatures. Provide a separate audible alarm system operable from inside unit, for use of personnel unable to exit. Locate remote audible alarm as indicated.
 - n) Provide all required electrical equipment and materials such as overload protection devices, electrical disconnect switches, power wiring, etc in accordance with appendix A and install as required to make the freezer fully operational and functional. All electrical work to be installed by a licensed electrical contractor in New York State. The

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- contractor will submit all calculations and intended electrical source point of connections.
- o) The contractor will provide and install vibration isolators in accordance with the manufacturer's recommendations.
 - p) The contractor will be responsible to coordinate the new installation with all existing conditions
- 2.2 The contractor will submit to the COTR for approval proposed materials and equipment to be installed under this contract. The contractor will proceed with ordering the materials and installation only after the proposed work is approved by the COTR.
- 2.3 The contractor will be responsible for providing all labor, tools and material including rigging to install the new work in accordance with the approved design. The contractors will be licensed in New York State for their specific trade.
- 2.4 The contractor will also be responsible to perform all work in accordance with the Academy's environmental and safety guidelines. The contractor will be required to submit environmental and safety plans. The contractor will be responsible to hire a rigger and submit the lifting plan to the COTR for approval.
- 2.5 Upon completion of the approved construction, the contractor will provide as-built drawings for all new work on signed and sealed mylars by a licensed professional engineer in New York State. The contractor will also provide the as-built drawings on AUTOCAD format. The contractor will also provide operation and maintenance manuals for all new equipment

SECTION 3 - DESIGN AND INSTALLATION FOR NEW CONDENSER WATER SYSTEM

- 3.1 The contractor is required to accomplish the following as indicated in this statement of work at the U.S. Merchant Marine Academy:
- a) The contractor will visit the Academy to become familiar with the existing conditions for the design and installation of a new condenser water system at Delano Hall to serve the existing water cooled walk in freezers and refrigerators. This scope of work includes the connection to 0 existing water cooled condensers and 2 water cooled condensers included in this scope of work. This contractor must coordinate and include in their proposal all work required to make the entire condenser water system a complete and functioning condenser water system. This work will include all new piping connections, valves, fittings, solenoid valves, pressure regulating valves, hangars, refrigeration condensers, refrigerant, supports, insulation etc.
 - b) The cooling tower is based on handling 190 gpm with an entering water temperature of 100 deg. F and leaving water temperature of 85

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- design F with 75 deg F WB ambient air. The cooling tower is based on forced draft, blow thru counter flow, vertical discharge cooling tower. Construct heating transfer section panels, pan, strainer, assembly, 5 kw electric heater, electric disconnect switch, fan discharge snout and internal baffles of 304 stainless steel, All other parts except fill, constructed of G-210 hot dipped galvanized. Provide pan with air and water tight access doors for access to all internal serviceable parts, stainless steel suction screens, pre-piped brass water make-up valve assembly and foam filled plastic float. Provide a V-shaped sump with outlet drain and equalizing line connections.. Install a waste water bleed line with adjustable valve. Provide two stage vane axial fan, statically balanced fans with tip speeds not to exceed 7000fpm. Provide forwardly curved centrifugal fans hot-dipped galvanized construction, statically and dynamically balanced. Arrange for single side air entry into pan-fan section. Mount fan on solid steel shaft with forced bearing journals. Shaft to be supported at each end by heavy duty regreasable self-aligning ball bearings in cast iron housing, with ANSI/AFBMA L-10 life at 30,000 hours. Provide variable frequency drive to adjust air flow for capacity control by means of proportional temperature controller in the cooling tower basin. Provide and install sound traps at the fan intake and discharge of the cooling tower.
- c) Cooling tower fan motors to be variable speed. Motors to be TEAO or TEFC with a service factor of 1.15 with class "F" insulation and dual epoxy varnish cover windings. Motors shall be suitable for inverter duty variable frequency drives. Fan drives to be solid backed belt with individual belts tied together by solid neoprene with polyester cord backing. Rate drives for 150% of motor nameplate horsepower. Provide water distribution system for each cell containing of centrally located header complete with side laterals, fittings, and nozzles. All piping to be schedule 40 PVC with nozzles of the low pressure distributor type of molded ABS plastic. Install PVC fill of serpentine design with built-in water distributors and air tabulators. Fill to be constructed of self-extinguishing poly vinyl chloride a minimum of 20 mils thick with a flame spread rating of 5 per ASTM-E84-77a. Provide eliminators of zig-zag design, constructed of PVC, assembled into sections making a strong, easily handled unit. Free water carry over not to exceed two tenths of 1 percent of the design water flow.
- d) Provide and install a complete and working condenser water system as indicated on attached details including piping, pumps, cold water make-up, drains, cooling tower, 3-way diverting valve for temperature differential by-pass control, etc. All work will be installed in accordance with the New York State Building Code.
- e) Provide and install all required electrical to support the condenser water mechanical system including upgrading existing electrical panels, circuit breaker panels, power wiring, conduits, supports, electrical disconnects, in accordance with the New York State Building

- Code and as indicated in attachment 'A'. Contractor will submit calculations indicating electrical load and source of power required for all electrical work indicated in this scope of work.
- f) Provide factory installed pan heater in each cell to maintain a pan water temperature of 40 deg F when the outdoor temperature is -10 deg F. Provide each heater with a thermostat and a low water level protection switch mounted on the unit with dry contacts for remote alarm indication. Provide electric contactors. All components in weatherproof enclosure. Provide electrical water level control complete with solid state relay/electrode, make-up water solenoid valve, low and high water level alarm contacts. Each water level controls to be guaranteed to operate properly in ambient temperature of 10 deg F.
 - g) Provide ladder, safety cage and handrails as required by OSHA.
 - h) Provide and install all required supplemental steel and steel dunnage to accommodate the new cooling tower. Contractor must submit for approval signed and sealed drawings and calculations by a licensed professional structural engineer in New York State indicating structural point loads on the building and associated supplemental steel required to accommodate the load. Contractor will be responsible for all roof penetrations, roof pitch pockets, flashing, roof sealant, structural supports and roof patched in accordance with the roof warranty.
 - i) The two pumps are each based on 190 gpm 120 ft. hd, 10 hp motors. Pumps shall be vertical in-line cartridge type for condenser water service. Pumps shall conform to CID A- A-50560, Type I general service, class I single stage and shall have replaceable mechanical seals of material and style recommended by the manufacturer for the particular service. Pumps shall have single suction with volute or diffuser water passage. Impellers shall have a radial or mixed flow. Select pumps so that the operating point on selected impeller curve will lie at or to the left of shut-off side of, and not more than 5 percent below, point of maximum efficiency for impeller. Provide and install all pump accessories indicated on attached details including electrical disconnect switches, isolation valves, temperature gauges, pressure gauges, balancing valves, unions, dielectric fittings, etc. Provide all required steel supports and vibration isolators.
 - j) The contractor shall provide a full and operation Alerton controls system for condenser water system including cooling tower start/stop, fan variable frequency drives, mixing valve, thermostatic bypass control valve, condenser water supply and return temperature and 2 pumps for start stop lead lag control as an extension of the existing Alerton controls system including programming, wiring, conduits, relays, transformers, controllers, programming graphics, etc to provide the following: cooling tower and pumps scheduled start/stop, high/low temperature alarms, alarms, etc

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- k) Condenser water piping shall be copper type L hard drawn copper tubing, conforming to ASTM B 88. Fittings for copper shall be cast copper alloy solder-joint type conforming to ANSI B16.18 or wrought copper solder joint type conforming to ASME/ANSI B16.22. Unions for copper tubing shall be ASME/ANSI B16.22: solder joint end type. Dielectric unions shall be insulated union of galvanized steel and female threaded on end. Solder joints conforming to ASME/ANSI B16.39, Class 1 dimensional strength and pressure requirements. Union shall have water impervious insulation barrier capable of limiting galvanic current to one percent of short circuit in a corresponding bimetallic joint. When dry, insulation barrier shall be able to withstand a 600 volt breakdown test.
- l) Condenser water piping shall be sized with a maximum pressure drop of 3 ft/ 100 ft and velocity of 3 feet/sec. Provide 3" valves and capped outlets for future condenser water supply and future connections.
- m) Joints for condenser water copper tubing for soldering shall be ASTM B 2, grade Sb5, tin antimony alloy for service pressures up to 150 psi; brazing filler material AWS A5.8, type Bag-5 AWS type 3 flux, except type BcuP-5 or BCuP-6 may be used for brazing copper to copper joints.
- n) End connections shall conform to paragraph entitled "End Connections". Valves shall have rising stems and shall open when turned counterclockwise.
- o) The refrigerant piping will be hard or soft copper ANSI STD. B280, wrought iron fittings, and brazed connections for 2 inch piping and smaller, 2-1/2" piping and larger will be flanged at valves and equipment, joints will be 1,150 deg. F. min. melting temperature. Refrigerant piping will be installed in accordance with ANSI standards. Charge refrigerant system with dry nitrogen while constructing joints.
- p) All piping penetrating walls shall have sleeves and fire stopping.
- q) Insulate refrigeration piping with flexible cellular glass a minimum 1" thickness. Condenser water piping shall be 2" mineral glass with vapor barrier. Seal all insulation joints from vapor penetration.
- r) Gate valves shall be bronze 2 inches and smaller MSS SP-80, wedge disc, rising stem, inside threaded type. Provide solder-joint ends when used with copper tubing. Globe and angle valves 2 inches and smaller, MSS SP-80, with renewable seats and discs except internal seats for solder-end valves. Check valves 2 inches and smaller shall be bronze MSS Sp-80 regrinding swing typ. Swing check valves and lift type shall be provided bolted caps.
- s) Water temperature mixing valves shall be ASSE 1003. Water pressure reducing shall be ASSE 1003.
- t) Ball valves shall be MSS SP-110, copper alloy that permits inspection and repair of seats and seals without removing valve body from line.
- u) Drain valves shall be gate valves that conform to MSS SP-80. Manually operated 3/4 inch pipe size and above.

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- v) Air vent valves shall be manually operated general service type.
- w) Automatic flow control valves calibrated by the manufacturer for the service specified. Valve shall automatically limit rate of flow of system to required design capacity regardless of system fluctuations. Valves shall regulate flow within 5 percent of their tag rating over a pressure differential 10 times the minimum required for control. Provide tamper proof valves with body tapings suitable for connecting instruments for verifying flow control performance. Provide self cleaning, cartridge-piston type with stainless steel, variable area orifices and stainless steel or nickel plated pistons. Valves shall have bronze bodies with threaded, soldered, or flanged connections as required for pipe fittings. Furnish such automatic flow control valve with a valve kit located outside of insulation, hose fittings suitable for use with measuring as indicated. When metering component requirements herein, composite valves consisting of integral ball valves, automatic flow control valve, thermo wells, gage cocks, strainer, and fittings or a combination thereof, are acceptable where certified by the manufacturer for specific service and installed in strict accordance with the manufacturer's recommendations.
- x) Solenoid valves provide direct acting or pilot operating for use with liquid service shall conform to UL 429 and be designed for the pressure drop required. Valves shall have self-capped manual opening stem and be constructed for servicing without removing from line. Each valve shall include a coil housing, stem and plunger assembly nonmagnetic to the plug, stainless steel enclosing tube seat-and- plunger, and proper inlet and outlet connections for installing into pipe system. Direction of flow shall be indicated on the valve body. Provide solenoid valves designed, manufactured and tested specifically for the service in all aspects, including material. Coil housing shall include moisture-proof coil in a metal housing with electrical wires extending through a female-pipe-tap conduit connection. Coil shall be wired for electrical current used and be capable of withstanding temperature of liquid encountered plus heat from coil. Provide bodies, stems and pistons of a material that will not corrode or pit when used in water systems. Valve with threaded connections shall conform to ANSI/ASME B1.20.1. Direct operated valves shall be type that operates plunger by direct action of coil. Pilot operated valve with floating piston or direct connected plunger type. Pilot operated valve with floating piston shall be used on ½ inches or larger port sizes valves capable of handling liquid temperature up to design temperature. Valves shall have flanged connections in sizes 1- 1/2 inches and larger with companion flanges either welding or soldering to piping. 1-1/4 inches and smaller may either have female thread connections or may be ferrous with soldering connections.
- y) Automatic water regulating valves for water cooled halocarbon condenser service and controlled and operated by refrigerant

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pressure in condenser acting on a spring balanced diaphragm or bellows, or condenser pressure controlled and operated by an electric or pneumatic operator. Control diaphragm shall be suitable for refrigerant in all aspects including materials. Valves shall have single seat with renewable composition discs with v-port skirts, tapered plugs or other means of providing best control of service. Valves up to and including one inch in size shall be brass or bronze. Valves 1-1/4 inch and 1-1/2 inch inches shall be brass, bronze or iron. Provide corrosion resistant material for valve and operating motor in preclude corrosion of working parts due to leakage of water from stem packing. Valve shall have direction of flow clearly and permanently indicated. Two-position valves not intended for modulated service, shall have quick opening plugs. Solenoid valves used in connection with water regulating valves shall be suitable for operation on control voltage used in system. Threaded type connections shall conform to ANSI/ASME B1.20.1.

- z) Balancing valves shall be calibrated bronze body balancing valves with integral ball valve and venture or valve orifice and valve body pressure taps for flow measurement based on differential pressure readings. Valve pressure taps and meter connections shall have seals and built-in check valves with threaded connections for a portable meter. Meter shall be provided by the same manufacturer and be capable of reading system pressures. Valve shall have internal seals to prevent leakage around rotating element and be suitable for full shut-off at rated pressure. Valves shall have an operator with integral pointer and memory stop. Balancing valves shall be selected for required flows indicated on plans.
- aa) Strainers shall be WW-S-2739 type 1 (single screen) for IPS Sizes below 2 inches. Provide type 304 stainless steel element with .047 inch minimum diameter perforations or type 304 stainless screens. Select perforation diameter or screen mesh number suitable to protect the particular component indicated. Provide internal magnets to attract ferrous particles
- bb) Design, installation and fabrication of pipe hangers, supports and welding attachments shall conform to MSS SP-58. Hanger types and supports for bare or covered pipes shall conform to MSS Sp-69 for system temperature range. Unless otherwise indicated, horizontal and vertical piping attachments shall conform to MSS SP-58. Provide metal protection shields and inserts for insulated piping. Provide hold-down slide type utilizing factory bound graphite, Teflon or oil-impregnated metal matched surfaces.
- cc) Pipe sleeves penetrating outside walls, floors, and roof slabs shall be zinc-coated steel pipe conforming to ASTM A 53. Sleeves penetrating inside partitions shall be zinc coated sheet steel not less than 0.02 inches thick, conforming to ASTM A 653/A/A 653M.

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- dd) Provide welded steel tank constructed and tested hydrostatically in accordance with ASME BPVC VIII DI. Minimum design pressure of tank shall be 125 psig. Tank shall be zinc-coated inside and out after fabrication by ASTM a 123/A 123M hot dipped process. Tank shall have a drain, fill, air charging connections. Minimum capacity shall be 5 gallons.
- ee) Pressure gauges shall be dial type, elastic element, ANSI/ASME B40.1 with integrally mounted restrictor, dial size 4-1/2 or 6 inches, positive, compound or differential pressure type as indicated. Tank gauges shall conform to CID A A-50568.
- ff) Indicating thermometers shall be dial type with an adjustable and suitable for the service.
- gg) Provide thermowell sized for each thermometer in accordance with the thermowell specification. Fluid filled thermometers (mercury is not acceptable) shall have a nominal scale diameter of 5 inches. Construction shall be stainless steel case with molded glass cover, stainless steel stem and bulb. Stem shall be straight, length as required to fit well. Bimetal thermometers shall have a scale diameter of 3-1/2 inches. Case shall be hermetic. Case and stem shall be constructed of stainless steel. Bimetal stem shall be straight and length as required to fit well.
- hh) Pressure and temperature test ports shall have brass body and EPDM and/or neoprene seals. Ports shall be rated for service between 0 and 275 degrees F and up to 500 PSIG. Ports shall be provided in lengths appropriate for insulation and installed to allow a minimum of 12 inches of access probe insertion. Provide with screw on cap attached with a strap or chain to prevent loss when removed. Ports shall be 1/4 inch and NPT and accept 1/8 inch diameter probes.
- ii) Heating and soldering shall conform to ASME/ANSI B31.9 and as specified herein horizontal runs of piping shall pitch toward dry cooler at not less than 1 inch per 20 feet. Provide sufficient pitch to assure adequate drainage and venting. Install drain valves at low points and air vents at high points.
- jj) Piping and equipment shall be entirely out of the way of electrical conduit, lighting fixtures, equipment and doors, windows and other openings. Contractor must inspect existing conditions of facility in relation to this scope of work and coordinate the layout of equipment and piping with existing conditions and clearances.
- kk) Prior to initial operation examine and inspect piping systems for conformance to plans and specifications, ANSME/ANSI B31.9. Equipment material, or work rejected because of defects or nonconformance with plans, specifications and ANSI codes for pressure piping shall be corrected as directed by contracting officer.
- ll) After completion of piping installation and prior to initial operation, conduct tests on piping system. Furnish materials and equipment required for tests. Correct defects disclosed by tests. Perform test after

- installation and prior to acceptance in presence of the Contracting officer and subject to his approval.
- mm) Hydrostatically test in accordance with requirements of ASME/ANSI B31.9. Test piping at twice the design pressure with water not exceeding 100 deg F. Before tests remove or isolate gauges, traps and other apparatus in new system that might be damaged. Repair leaks, do not caulk joints. Install a calibrated, test pressure gauge in system to observe loss in pressure. Maintain required test pressure for 12 hours to enable an inspection of joints and connections. Correct defects disclosed by test.
 - nn) The contractor will submit to the COTR for approval proposed materials and equipment to be installed under this contract. The contractor will proceed with ordering the materials and installation only after the proposed work is approved by the COTR.
 - oo) The contractor will be responsible for providing all labor, tools and material including rigging to install the new work in accordance with the approved design. The contractors will be licensed in New York State for their specific trade.
 - pp) Start-up and initially operate the condenser water system. During this time, periodically clean various strainers until no further accumulation of foreign matters occurs.
 - qq) Test, adjust and balance the hydronic system in accordance with the water flow as required by the refrigeration circuit manufacturer requirements. Testing, adjusting and balancing includes adjusting balancing existing and new valves, system water flow, temperature differential by-pass, existing and new water regulating valves, etc. All work shall be performed by a SMACNA approved independent testing, adjusting and balancing contractor and is included in this scope of work.

SECTION 4 - DELIVER SCHEDULE

- 4.1 The contractor will provide a 100% accepted installation 120 days after the notice to proceed.
- 4.2 An earlier schedule is acceptable to the Academy.
- 4.3 The contractor shall prepare and submit a detailed milestone Contractor Program Schedule(s) for the Academy review within one (1) week after receipt of executed copy of the Contract or authorized Notice-to-Proceed, whichever is earlier.

APPENDIX

ELECTRICAL SPECIFICATIONS

1. CONDUCTORS

- A. All conductors shall be copper with THHN/THWN or TFFN insulation rated 600 volts- 90 degree centigrade or better. With the exception of class two and three circuits where other insulation types are allowed according to the NEC Article 725 and 760.
- B. All branch circuit wiring shall be minimum size #12 AWG copper.
- C. All Class 1 remote control and signal circuits shall be minimum size #14 AWG copper.
- D. All Class 2 low energy remote control and signal circuits shall be minimum size #16 AWG copper.
- E. All Class 3 low energy remote control alarm and signal circuits shall be minimum size #18 copper.
- F. Phone and data communication size and insulation class shall be according to the latest approved industry standards for the application and installation environment.
- G. All conductors #10 AWG thru #4/0 AWG shall be 19 strand conductor type. All conductors 250 KCML thru 750 KCML shall be 37 strand copper type.
- H. Conductors shall be green for grounding conductors, white for neutrals. On 208/120V three phase systems, Phase A- black, B- red, C- blue. On 480/277V, three phase systems, Phase A- brown, B- orange, C- yellow with a light gray used as a neutral.
- I. All underground insulated conductors on feeders, sub feeders, or branch circuits size #8 AWG and smaller shall be color marked from the manufacturer. Color coding by color code tape is not allowed. On conductors #4 and larger striping and color coding via tape markings are acceptable as long as that at panel boards, boxes, and any other location where the conductors are visible they are marked with the appropriate color coding tape or striping for the entire length where visible.
- K. On all circuit conductors in any *approved wiring method shall have a properly sized green insulated grounding conductor. This also applies to factory assembled (MCC) metal clad cable. *See approved wiring methods listed elsewhere in this document.

2. WIRING METHODS

- A. Wiring shall be installed in any of the following methods:
 - 1) Rigid metal conduit steel full size.
 - 2) Rigid aluminum conduit

- 3) Electrical metallic tubing.
- 4) Surface metal raceway (Wiremold).
- 5) Steel flexible metal conduit (Greenfield).
- 6) Steel jacketed metal clad cable (MCC).
- 7) UL listed type liquidtight flexible metallic steel conduit (Sealtite).

B. Non metallic wiring methods shall not be used.

C. Fittings

1. Conduit fittings- all conduit fittings shall be constructed of steel or malleable iron. They shall be the compression type only. Set screw types and zinc die- cast types shall not be used.
2. Condulets shall be either threaded aluminum or malleable iron. Set screw type shall not be used.
3. Metal clad cable, metal clad cable, flexible metallic conduit, and liquidtight flexible metallic conduit, and liquidtight flexible metallic conduit connectors shall be constructed of steel or malleable iron with steel or malleable iron locknuts. Zinc die cast fittings or locknuts shall not be used.

D. Boxes and Enclosures

1. Boxes and enclosures shall be constructed of steel malleable iron or aluminum of the appropriate thickness and size required by code.
2. Non metallic boxes or enclosures shall not be used.

E. Straps, Supports, and Hardware

1. All straps and supports shall be made of steel or malleable iron.
2. All threaded rod shall be cadmium or zinc plated steel sized according to adequately support the load it is carrying. In no case, shall the rod be less than ¼ one quarter inch thick.

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3. Anchors shall be approved for the use intended according to ASTM guidelines. No lead caulking, plastic or powder actuated charge anchors shall be used. (shot type)
4. All fasteners shall be cadmium or zinc plated steel.

3. Fixtures and Luminaries

- A. All fixtures shall be UL or other NRTL approved.
- B. All fluorescent fixtures, troffers shall be constructed of a minimum 20 gauge sheet steel. The ends of fixtures shall be riveted, bolted or welded. They shall employ straight lamp design with T-8, 4100 K color index. The ballast shall be an electronic type T-8 with high power factor and a sound rating of A. An advance or, universal manufacturing ballast or equivalent is requested. In no case shall Howard Manufacturing ballast be used. (Their failure is atrocious). A select amount of fixtures shall employ internal partial lamp lighting battery back up to allow safe egress during possible power failures. The amount and location of same shall be ascertained at a later date. They shall have a minimum ninety minutes run time on battery.
- C. Exit signs shall be constructed of 20 gauge sheet steel, with riveted, bolted or welded construction. They shall be combination type signs with a minimum of two 25 watt emergency light heads and employ lead illumination for the exit part of the sign. The letters shall be eight inch high and red in color. The unit shall be of the battery backup type with a minimum of ninety minutes run time on battery.

4. Panel boards and Safety Switches

- A. All panel boards shall be the bolt on type with copper buss bars such as square D type NQOD using OOB type circuit breakers of an equivalent manufacturer having the same type of features.
- B. Load centers are not allowed, only panel boards.
- C. Safety switches shall be rated heavy duty. Square D or equivalent manufacturer. They shall be horsepower rated for motor loads. Units mounted outside shall be nema rated 3R.

5. Devices Toggle Switches, Receptacles

- A. Toggle switches shall be heavy duty with grounding screw specification grade with back and side wiring screw terminals. They shall be quiet type AC only rated 120/277 volts. The handle shall be ivory in color. They shall be leviton series type 1201-21 (15 AMP- 120 volt) single pole or the manufacturers corresponding series numbers for two pole, three pole, three way and four way, or any other manufacturers equivalent to the leviton specifications of this series. If amperage requirements are higher than 15 AMPs use the manufacturers higher AMP rated switches of the same series.
- B. Duplex receptacles shall be heavy duty specification grade grounding type with back and side wiring screw terminals. They shall be ivory in color. They shall be leviton series type 5352-I (20 AMP- 120 volts).
- C. Lower receptacles shall be heavy duty type.

6. Device Covers

- A. Flush mounted devices (switches and receptacles) shall use stainless steel cover plates. They shall have a satin finish with standard shape and be a minimum of .030" thick.
- B. Surface mounted shall use industrial type raised covers. Surface mount wire mold type boxes shall use the type of flush covers listed in section 9a.
- C. Outdoor mounted devices shall use the appropriate gasketed outdoor device cover.

Note: four (4) Schematics are appended to the end of this solicitation in PDF format.

Packaging and Marking

Inspection and Acceptance

Deliveries or Performance
120 Days after Notice to Proceed

Contract Administration Data

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Special Contract Requirements

52.234-4 Earned Value Management System. (JUL 2006)

52.211-12 -- Liquidated Damages -- Construction.

As prescribed in 1.503(b), insert the following clause in solicitations and contracts:

Liquidated Damages -- Construction (Sept 2000)

(a) If the Contractor fails to complete the work within the time specified in the contract, the Contractor shall pay liquidated damages to the Government in the amount of \$545 per day for each calendar day of delay until the work is completed or accepted.

(b) If the Government terminates the Contractor's right to proceed, liquidated damages will continue to accrue until the work is completed. These liquidated damages are in addition to excess costs of repurchase under the Termination clause.

(End of Clause)

Davis Bacon Act Wage Determination Information

General Decision Number: NY100013 07/22/2011 NY13 and any updates is applicable to this requirement.

Superseded General Decision Number: NY20080013

State: New York

Construction Types: Building, Heavy, Highway and Residential

Counties: Nassau and Suffolk Counties in New York.

BUILDING CONSTRUCTION PROJECTS, RESIDENTIAL CONSTRUCTION PROJECTS (including single family homes and apartments up to and including 4 stories), HEAVY CONSTRUCTION PROJECTS, HIGHWAY CONSTRUCTION PROJECTS

Modification	Number	Publication Date
	0	03/12/2010
	1	04/16/2010
	2	04/23/2010
	3	07/23/2010
	4	08/06/2010
	5	08/27/2010
	6	10/15/2010
	7	11/05/2010
	8	11/12/2010
	9	11/19/2010
	1	12/03/2010
	1	02/25/2011
	1	03/25/2011

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1	04/08/2011
1	04/22/2011
1	05/06/2011
1	05/20/2011
1	06/03/2011
1	06/17/2011
1	07/01/2011
2	07/22/2011

ASBE0012-0 1 01/03/2011

	Rates	Fringes
Asbestos Workers/Insulator Includes application of all insulating materials, protective coverings, coatings and finishes to all types of mechanical systems.....	\$ 58.88	25.29
HAZARDOUS MATERIAL HANDLER.....	\$ 30.00	9.10

BOIL0005-0 1 01/01/2011

	Rates	Fringes
BOILERMAKER	\$ 47.32	19.43

FOOTNOTE:

a. PAID HOLIDAYS: New Year's Day, Thanksgiving Day, Memorial Day, Independence Day, Labor Day and Good Friday, Friday after Thanksgiving, Christmas Eve Day and New Year's Eve

BRNY0001-0 1 07/01/2010

	Rates	Fringes
BRICKLAYER.	\$ 51.00	21.44
MASON - STONE.....	\$ 57.61	23.86

CARP0007-0 6 07/01/2009

	Rates	Fringes
Carpenters:		
Building.....	\$ 37.21	30.23
Heavy & Highway.....	\$ 37.21	30.23
Residential.....	\$ 33.48	30.23

CARP0740-0 1 07/01/2010

	Rates	Fringes
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MILLWRIGHT. \$ 46.19 44.93

CARP1456-0 9 07/01/2008

Rates Fringes

Carpenters:

DIVERS TENDERS.....	\$ 39.18	38.06
DIVERS	\$ 54.63	38.06
DOCKBUILDERS.....	\$ 43.61	38.06
PILEDRIVERMAN.....	\$ 43.61	38.06

CARP1536-0 1 07/01/2003

Rates Fringes

Carpenters:

TIMBERMEN.....	\$ 34.47	26.05
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ELEC0025-0 1 04/30/2011

Rates Fringes

ELECTRICIAN	\$ 46.85	16%+\$16.67
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ELEC0025-0 2 04/30/2011

Rates Fringes

Electrician :

Maintenance Unit.....	\$ 38.45	12%+\$15.24
Telephone Unit.....	\$ 34.76	16%+\$15.68
Wiring for single or multiple family dwellings and apartments up to and including 2 stories.....	\$ 27.78	11.5%+\$12.10

ELEC1049-0 2 04/06/2008

Rates Fringes

Line Construction:

Substation and Switching structures pipe type cable installation and maintenance jobs or projects; Railroad electrical distribution/transmission systems maintenance (when work is not performed by railroad employees) Overhead and Underground transmission/distribution

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line work. Fiber optic,
telephone cable and
equipment;

Ground man.....	\$ 24.83	17.91
Heavy Equipment Operator...	\$ 33.10	17.91
Lineman & Cable Splicer....	\$ 41.38	17.91
Material Man.....	\$ 36.00	17.91

ELEV0001-02 03/17/2011

	Rates	Fringes
ELEVATOR MECHANIC		
Elevator Constructor.....	\$ 53.27	24.855+a+b
Modernization and Repair....	\$ 42.31	24.705+a+b

FOOTNOTE:

a. PAID HOLIDAYS: New Year's Day, Good Friday, President's Day, Memorial Day, Independence Day, Labor Day, Columbus Day, Veteran's Day, Thanksgiving Day, Friday after Thanksgiving, and Christmas Day.

b. PAID VACATION: An employee who has worked less than 5 years shall receive vacation pay credit on the basis of 4% of his hourly rate for all hours worked; an employee who has worked 5 to 15 years shall receive vacation pay credit on the basis of 6% of his hourly rate for all hours worked; an employee who has worked 15 or more years shall receive vacation pay credit on the basis of 8% of his hourly rate for all hours worked.

ENGI0138-01 06/01/2011

BUILDING CONSTRUCTION

	Rates	Fringes
Power equipment operators:		
GROUP 1.....	\$ 50.78	28.84+a
GROUP 2.....	\$ 48.20	28.84+a
GROUP 3.....	\$ 46.48	28.84+a
GROUP 4.....	\$ 43.01	28.84+a
GROUP 5.....	\$ 41.27	28.84+a

NOTES:

Hazmat premiums:

Level A	3.50
Level B	2.50
Level C	1.50
Level D	1.00

Oiler on truck cranes with boom length of 100 ft. or more

FOOTNOTE:

a. Paid Holidays: New Year's Day, Lincoln's Birthday, Washington's Birthday or President's Day (in lieu of Lincoln's or Washington's Birthday), Good Friday, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, Christmas Day or days celebrated as such. Any holiday that falls on a Saturday will be celebrated on Friday.

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: asphalt spreader, backhoe crawler capacity over caterpillar 225 and Komatsu 300, Boiler (thermoplastic), Cherry picker, over 50 tons, CMI or maxim spreader, concrete pump (with oiler), crane (crawler truck), crane (on barge), crane (stone setting), crane (structural steel), crane (with clam shell), derrick, dragline, dredge, gradall, rader, hoist (3 drum), loading machine (bucket) cap of 10 yds or over micro-trap, with compressor (negative air machine), milling machine, large pile driver, power winch, Stone setting/structural steel, power winch (truck mounted/stone steel) powerhouse, road paver scoop, carry-all scraper in tandem shovel, sideboom tractor, sideboom tractor (used in tank work), stone spreader (self propelled tank work), zamboni (ice machine)

GROUP 2: backhoe, boom truck, bulldozer, cherypicker, conveyor multi), dinky locomotive, forklift, hoist, 2 drum, loading machine, loading machine (front end) mechanical compactors, (machine drawn), mulch machine (machine-ed), power winch, other than stone/structural steel, power winch (truck mounted other than stone steel) pump (hydraulic, with boring machine), roller, (asphalt), scoop (carry-all scraper), tower crane (maintenance man), trenching machine

GROUP 3: compressor (structural steel), Compressor (2 or more in batter), concrete finishing machine, concrete spreader, conveyor, curb machine (asphalt or concrete), curing machine, fireman, hoist (1 drum), micro-trap, (self contained negative air machine), pump (4 inches or over), pump (hydraulic), pump (jet), pump (submersible), pump (well point), pulvi-mixer, ridge cutter, roller (dirt), stripping machine, vac-all, welding and burning, welding machine (pile work), welding machine (structural steel)

GROUP 4: compressor, compressor (on crane), compressor (pile work), compressor (stone setting), concrete breaker, concrete saw or cutter, forklift (walk behind, power operated) generator-pile work, generator, hydra hammer, mechanical compactors (hand operated), oiler (truck crane),

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pin puller, portable heaters, powerbroom, power buggies, pump (double action diaphragm), pump (gypsum), trench machine (land), welding machine

GROUP 5: Latching plant (on site of job), generator (small), mixer (with skip), mixer (2 small with or without skip), mixer (2 lag or over, with or without skip), mulch machine, oiler, pump (centrifugal, up to 3 inches), root cutter, stump chipper, tower crane (oiler), tractor (caterpillar or wheel vibrator)

ENGI0138-012 06/01/2011

HEAVY & HIGHWAY

	Rates	Fringes
Power equipment operators:		
GROUP	\$ 53.48	29.09+a
GROUP	\$ 49.99	29.09+a
GROUP	\$ 48.23	29.09+a
GROUP	\$ 44.67	29.09+a
GROUP	\$ 42.93	29.09+a
GROUP	\$ 32.32	11.60+a

NOTES:

Hazmat premiums:

Level A	3.50
Level B	2.50
Level C	1.50

Truck and Crawler Cranes long boom premiums:

boom length (including jib) 100-149 ft	.50
boom length (including jib) 150-249 ft	.75
boom length (including jib) 250-349 ft	1.00
boom length (including jib) 350 ft	1.50

Cranes using clamshell buckets .25

Front end loader 10 yds and above .25

Oiler on truck cranes with boom length of 100 ft. or more .25

FOOTNOTE:

a. Paid holidays: New Years Day, Lincoln's Birthday, Washington's Birthday or Presidents Day (in lieu of Lincoln's or Washington's Birthday, Good Friday, Memorial Day, Independence Day, Labor Day, Columbus Day, Veteran's Day, Thanksgiving Day, Christmas Day or days celebrated as such. Any holiday that falls on Saturday will be celebrated on Friday

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

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GROUP 1: asphalt spreader, backhoe crawler (capacity over caterpillar 225 and komatsu 300), boiler (thermoplastic), boring machine (post hole), cherry picker (over 50 ton), CMI or maximum spreader, concrete pump, with oiler, crane (crawler truck), crane (on barge), crane (stone setting) crane (structural steel), crane (with clam shell), derrick, dragline, dredge, gradall, grader, hoist (3 drums), loading machine (bucket) capacity of 10 yards or over, micro-trap (with compressor-negative air machine), milling machine (large), piledriver, power winch (stone setting structural steel), power winch (truck mounted/stone steel), power-house, road paver, scoop, carry all (scraper in tandem), shovel, sideboom tractor, sideboom tractor (used in tank work), stone spreader (self-propelled), tank work, tower crane

GROUP 2: Bulldozer, Backhoe, Boom Truck, Boring machine/augur, Cherrypicker, Conveyor (multi), Dinky Locomotive, Forklift, Hoist (2 drum), Loading Machine, Loading Machine (front end), Mechanical Compactor (machine drawn), Mulch Machine (machine-fed), Power Winch (other than stone/structural steel), Power Winch (truck mounted/other than stone steel), Pump Hydraulic (with boring machine), Roller (asphalt), Scoop (carry-all, scraper), Tower Crane (maintenance man), Trenching Machine, Vermeer Cutter, Work Boat

GROUP 3: Curb Machine (asphalt or concrete), Maintenance Engineer (small equipment), Maintenance engineer (well-point) Mechanic (fieldman), Micro-Trap (self contained negative air machine), Milling Machine (small), Pulvi-mixer, Pump (4 inches or over), Pump Hydraulic, Pump Jet, Pump Submersible, Pump (well point), Roller Dirt, Vac-All, Welding and burning, Compressor (structural steel), Compressor (2 or more battery), Concrete Finishing Machine, Concrete Spreader, Conveyor, Curing Machine, Fireman, Hoist (one drum), Ridge Cutter, Striping Machine, Welding Machine (pile work), Welding Machine (structural Steel).

GROUP 4: Compressor, Compressor on crane, Compressor (pile work), Compressor (stone setting), Concrete Breaker, Concrete Saw or Cutter, Fork Lift (walk behind, power operated) Generator- Pile Work, Generator, Hydra Hammer, Mechanical Compoactors (hand operated), Oiler (truck crane), Pin Puller, Portable Heaters, Powerbroom, Power buggies, Power Grinders, Pump (double action diaphragm), Pump gypsum, Pump (single action 1 to 3 inches), Trench Machine hand, Welding Machine

GROUP 5: Batching Plant (on site of job), Generator (small), Grinder, Mixer (with skip), Mixer (2 small with or without skip), Mixer (2 bag or over, with or without skip), Mulch Machine, Oiler, Pump (centrifugal, up to 3 inches), Root

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Cutter, Sump Chipper, Tower Crane (oiler), Track Tamper (2 engineers each), Tractor (caterpillar or wheel), Vibrator, Work boat (deckhand),

GROUP 6: Well drillers

IRON0046-0	3	07/01/2010
	Rates	Fringes
IRONWORKER		
METALLIC LATHERS.....	\$ 39.00	47.36

IRON0197-0	1	07/01/2009
	Rates	Fringes
IRONWORKER		
STONE MERRICKMAN.....	\$ 40.50	38.32

IRON0361-0	1	01/01/2011
	Rates	Fringes
IRONWORKER (STRUCTURAL).....	\$ 43.30	30.88

IRON0580-0	1	01/01/2009
	Rates	Fringes
IRONWORKER, ORNAMENTAL.....	\$ 39.85	39.67

LABO0066-0	1	07/01/2009
BUILDING		
	Rates	Fringes
Laborers:		
Laborers.....	\$ 29.50	24.59
Plasterers Tenders.....	\$ 29.50	24.59

LABO0078-0	1	12/01/2009
	Rates	Fringes
LABORERS		
BUILDING CONSTRUCTION		
ASBESTOS (Removal,		
Abatement, Encapsulation		
or Decontamination of		
asbestos); LEAD; &		
HAZARDOUS WASTE LABORERS		
(Hazardous Waste,		

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Hazardous Materials, Biochemical and Mold Remediation, HVAC, Duct Cleaning, Re-spray Fireproofing, etc).....	\$ 31.50	12.45
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LABO1298-0 1 06/01/2009

HEAVY & HIGHWAY

	Rates	Fringes
Laborers:		
Asphalt Pavers; Formsetters	\$ 33.89	20.90+A
Asphalt Shovelers, Roller		
Boys & Tampers.....	\$ 32.94	20.90+A
Regulation Laborers.....	\$ 30.05	20.90+A

A. FOOTNOTE :

Laborers working in a hazardous material hot zone shall receive an additional 20% premium.

Where the contract provides for night work outside the regular hours of work, the employees shall be paid at straight time plus a 25% night work premium for the 8 hours worked during the night.

Firewatch work performed after regular hours shall be paid an additional 10% premium. Second and Third Shift work will be paid at a 10% premium.

Contractors requesting laborers certified for hazardous material work and/or employed on hazardous material shall be required to pay an additional 10% premium.

PAIN0009-0 2 05/01/2010

	Rates	Fringes
Painters:		
GLAZIER.....	\$ 39.00	32.24
Painters, Drywall Finishers	\$ 34.50	19.84
Spray, Scaffold, Sandblasting.....	\$ 37.50	19.84

PAIN0806-0 0 10/01/2009

	Rates	Fringes
Painters:		
Structural Steel and Bridge..	\$ 45.50	28.76

PAIN1974-0 2 07/01/2009

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	Rates	Fringes
Painters: DRYWALL TAPERS/POINTERS.....	\$ 41.32	20.81

PLAS0262-0 3 08/01/2010		
	Rates	Fringes
PLASTERER.....	\$ 39.53	25.55

PLAS0780-0 1 06/01/2010		
	Rates	Fringes
CEMENT MASO / CONCRETE FINISHER..	\$ 49.50	35.57

PLUM0200-0 1 05/01/2011		
	Rates	Fringes
PLUMBER		
BUILDING CONSTRUCTION:.....	\$ 50.48	17.66
RESIDENTIAL CONSTRUCTION:...	\$ 30.01	9.10

* PLUM0638- 01 07/01/2011		
	Rates	Fringes
PLUMBER		
SERVICE FITTERS.....	\$ 26.30	2.55
SPRINKLER FITTERS, STEAMFITTERS.....	\$ 56.06	68.08

ROOF0154-0 1 10/01/2010		
	Rates	Fringes

Service Fitter work shall consist of all repair, service and maintenance work on domestic, commercial and industrial refrigeration, air conditioning and air cooling, stoker and oil burner apparatus and heating apparatus etc., including but not exclusively the charging, evacuation, leak testing and assembling for all machines for domestic, commercial and industrial refrigeration, air conditioning and heating apparatus. Also, work shall include adjusting, including capacity adjustments, checking and repairing or replacement of all controls and start up of all machines and repairing all defects that may develop on any system for domestic, commercial and industrial refrigeration and all air conditioning, air cooling, stoker and oil burner apparatus and heating apparatus regardless of size or type.

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ROOFER, Including Built Up, Composition and Single Ply Roofs.....	\$ 38.00	26.81
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SHEE0028-0 02 07/29/2010

	Rates	Fringes
SHEET METAL WORKER		
BUILDING CONSTRUCTION.....	\$ 48.15	36.03
RESIDENTIAL CONSTRUCTION....	\$ 27.22	16.48

TEAM0282-0 02 07/01/2009

	Rates	Fringes
Truck drivers:		
Asphalt	\$ 35.40	29.2025+a+b
Euclid & turnapulls.....	\$ 35.50	29.2025+a+b
High Rise.....	\$ 42.21	29.2025+a+b

FOOTNOTES:

a. PAID HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Columbus Day, Election Day, Veterans' Day (Armistice Day), Thanksgiving Day and Christmas Day. Employees working two (2) days in the calendar week in which a holiday falls are to be paid for such holiday, provided that they shape each remaining workday during such calendar week.

b. VACATION: For each 15 days worked with the contract year an employee will receive one day vacation with pay, maximum vacation of 3 weeks per year. In addition, an employee who qualifies for two weeks (10 days) vacation or more with pay and who has been continuously employed by his employer for six years before the close of any contract year, shall be entitled to one extra day vacation; seven years before the close of any contract year, shall be entitled to two extra days vacation; eight years before the close of any contract year, shall be entitled to three extra day vacation; nine years before the close of any contract year, shall be entitled to four extra day vacation; ten years before the close of any contract year or over shall be entitled to three weeks paid vacation with pay, but in no event shall any employee be entitled to more than three weeks vacation pay per year.

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

Unlisted classifications needed for work not included within

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the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

In the listing above, the "SU" designation means that rates listed under the identifier do not reflect collectively bargained wage and fringe benefit rates. Other designations indicate unions whose rates have been determined to be prevailing.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the

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interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

Contract Clauses

52.203-3 Gratuities. (APR 1984)

52.203-5 Covenant Against Contingent Fees. (APR 1984)

52.203-7 Anti-Kickback Procedures. (OCT 2010)

52.203-13 Contractor Code of Business Ethics and Conduct. (APR 2010)

52.204-7 Central Contractor Registration. (APR 2008)

52.204-9 Personal Identity Verification of Contractor Personnel. (JAN 2011)

52.209-6 Protecting the Government's Interest When Subcontracting with Contractors Debarred, Suspended, or Proposed for Debarment. (DEC 2010)

52.215-8 Order of Precedence - Uniform Contract Format. (OCT 1997)

52.222-6 Davis-Bacon Act. (JUL 2005)

52.222-13 Compliance with Davis-Bacon and Related Act Regulations. (FEB 1988)

52.222-15 Certification of Eligibility. (FEB 1988)

52.222-26 Equal Opportunity. (MAR 2007)

52.222-36 Affirmative Action for Workers with Disabilities. (OCT 2010)

52.222-54 Employment Eligibility Verification. (JAN 2009)

52.223-3 Hazardous Material Identification and Material Safety Data. (JAN 1997)

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- 52.223-5 Pollution Prevention and Right-to-Know Information. (AUG 2003)
- 52.223-6 Drug-Free Workplace. (MAY 2001)
- 52.223-14 Toxic Chemical Release Reporting. (AUG 2003)
- 52.223-18 Contractor Policy to Ban Text Messaging While Driving. (SEP 2010)
- 52.225-13 Restrictions on Certain Foreign Purchases. (JUN 2008)
- 52.225-25 Prohibition on Engaging in Sanctioned Activities Relating to Iran-Certification. (SEP 2010)
- 52.228-14 Irrevocable Letter of Credit. (DEC 1999)
- 52.228-15 Performance and Payment Bonds - Construction. (OCT 2010)
- 52.229-3 Federal, State, and Local Taxes. (APR 2003)
- 52.229-6 Taxes - Foreign Fixed-Price Contracts. (JUN 2003)
- 52.232-27 Prompt Payment For Construction Contracts. (OCT 2008)
- 52.232-33 Payment by Electronic Funds Transfer - Central Contractor Registration. (OCT 2003)
- 52.233-1 Dispute. (JUL 2002)
- 52.233-3 Protest After Award. (AUG 1996)
- 52.233-4 Applicable Law for Breach of Contract Claim. (OCT 2004)
- 52.243-4 Change. (JUN 2007)
- 52.243-5 Change and Changed Conditions. (APR 1984)
- 52.244-6 Subcontracts for Commercial Items. (DEC 2010)
- 52.249-2 Termination for Convenience of the Government (Fixed-Price). (MAY 2004) - Alternate I (SEP 1996)
- 52.252-2 Clauses Incorporated by Reference. (FEB 1998)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es): <http://farsite.hill.af.mil>

(End of clause)

List of Documents, Exhibits and Other Attachments

Representations, Certifications, and Other Statements of Bidders

- 52.223-4 Recovered Material Certification. (MAY 2008)
- 52.236-28 Preparation of Proposals - Construction. (OCT 1997)

52.204-3 Taxpayer Identification. (OCT 1998)

(a) *Definitions.*

"Common parent" as used in this provision, means that corporate entity that owns or controls an affiliated group of corporations that files its Federal income tax returns on a consolidated basis, and of which the offeror is a member.

"Taxpayer Identification Number (TIN)," as used in this provision, means the number required by the Internal Revenue Service (IRS) to be used by the offeror in reporting income tax and other returns. The TIN may be either a Social Security Number or an Employer Identification Number.

(b) All offerors must submit the information required in paragraphs (d) through (f) of this provision to comply with debt collection requirements of 31 U.S.C. 7701(c) and 3325(d), reporting requirements of 26 U.S.C. 6041, 6041A, and 6050M, and implementing regulations issued by the IRS. If the resulting contract is subject to the payment reporting requirements described in Federal Acquisition Regulation (FAR) 4.904, the failure or refusal by the offeror to furnish the information may result in a 31 percent reduction of payments otherwise due under the contract.

(c) The TIN may be used by the Government to collect and report on any delinquent amounts arising out of the offeror's relationship with the Government (31 U.S.C. 7701(c)(3)). If the resulting contract is subject to the payment reporting requirements described in FAR 4.904, the TIN provided hereunder may be matched with IRS records to verify the accuracy of the offeror's TIN.

(d) *Taxpayer Identification Number (TIN).*

TIN: _____

TIN has been applied for.

TIN is not required because:

Offeror is a nonresident alien, foreign corporation, or foreign partnership that does not have income effectively connected with the conduct of a trade or business in the United States and does not have an office or place of business or a fiscal paying agent in the United States;

Offeror is an agency or instrumentality of a foreign government;

Offeror is an agency or instrumentality of the Federal Government.

(e) *Type of organization.*

Sole proprietorship;

Partnership;

Corporate entity (not tax-exempt);

Corporate entity (tax-exempt);

Government entity (Federal, State, or local);

- Foreign government;
- International organization per 26 CFR 1.6049-4;
- Other _____.

(f) *Common parent.*

Offeror is not owned or controlled by a common parent as defined in paragraph (a) of this provision.

Name and TIN of common parent:

Name _____

TIN _____

(End of provision)

52.219-6 -- Notice of Total Small Business Set-Aside.

As prescribed in 19.508(c), insert the following clause:

Notice of Total Small Business Set-Aside (June 2003)

(a) *Definition.* "Small business concern," as used in this clause, means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding on Government contracts, and qualified as a small business under the size standards in this solicitation.

(b) *General.*

(1) Offers are solicited only from small business concerns. Offers received from concerns that are not small business concerns shall be considered nonresponsive and will be rejected.

(2) An award resulting from this solicitation will be made to a small business concern.

(c) *Agreement.* A small business concern submitting an offer in its own name shall furnish, in performing the contract, only end items manufactured or produced by small business concerns in the United States or its outlying areas. If this procurement is processed under simplified acquisition procedures and the total amount of this contract does not exceed \$25,000, a small business concern may furnish the product of any domestic firm. This paragraph does not apply to construction or service contracts.

(End of Clause)

Alternate 1 (Oct 1995). When the acquisition is for a product in a class for which the Small Business Administration has determined that there are no small business manufacturers or processors in the Federal market in accordance with 19.502-2(c), delete paragraph (c).

Alternate II (March 2004). As prescribed in 19.508(c), substitute the following paragraph (b) for paragraph (b) of the basic clause:

(b) General.

(1) Offers are solicited only from small business concerns and Federal Prison Industries, Inc. (FPI). Offers received from concerns that are not small business concerns or FPI shall be considered nonresponsive and will be rejected.

(2) An award resulting from this solicitation will be made to either a small business concern or FPI.

52.223-13 Certification of Toxic Chemical Release Reporting. (AUG 2003)

(a) Executive Order 13148, of April 21, 2000, Greening the Government through Leadership in Environmental Management, requires submission of this certification as a prerequisite for contract award.

(b) By signing this offer, the offeror certifies that -

(1) As the owner or operator of facilities that will be used in the performance of this contract that are subject to the filing and reporting requirements described in section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA) (42 U.S.C. 11023) and section 6607 of the Pollution Prevention Act of 1990 (PPA) (42 U.S.C. 13106), the offeror will file and continue to file for such facilities for the life of the contract the Toxic Chemical Release Inventory Form (Form R) as described in sections 313(a) and (g) of EPCRA and section 6607 of PPA; or

(2) None of its owned or operated facilities to be used in the performance of this contract is subject to the Form R filing and reporting requirements because each such facility is exempt for at least one of the following reasons: *(Check each block that is applicable.)*

(i) The facility does not manufacture, process, or otherwise use any toxic chemicals listed in 40 CFR 372.65;

(ii) The facility does not have 10 or more full-time employees as specified in section 313(b)(1)(A) of EPCRA, 42 U.S.C. 11023(b)(1)(A);

(iii) The facility does not meet the reporting thresholds of toxic chemicals established under section 313(f) of EPCRA, 42 U.S.C. 11023(f) (including the alternate thresholds at 40 CFR 372.27, provided an appropriate certification form has been filed with EPA);

(iv) The facility does not fall within the following Standard Industrial Classification (SIC) codes or their corresponding North American Industry Classification System sectors:

(A) Major group code 10 (except 1011, 1081, and 1094).

(B) Major group code 12 (except 1241).

(C) Major group codes 20 through 39.

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(D) Industry code 4911, 4931, or 4939 (limited to facilities that combust coal and/or oil for the purpose of generating power for distribution in commerce).

(E) Industry code 4953 (limited to facilities regulated under the Resource Conservation and Recovery Act, Subtitle C (42 U.S.C. 6921, et seq.), 5169, 5171, or 7389 (limited to facilities primarily engaged in solvent recovery services on a contract or fee basis); or

___ (v) The facility is not located in the United States or its outlying areas.

(End of provision)

Instructions, Conditions, and Notices to Bidders

1252.242-73 Contracting Officer's Technical Representative October 1994

(a) The Contracting Officer may designate Government personnel to act as the Contracting Officer's Technical Representative (COTR) to perform functions under the contract such as review and/or inspection and acceptance of supplies, services, including construction, and other functions of a technical nature. The Contracting Officer will provide a written notice of such designation to the Contractor within five working days after contract award or for construction, not less than five working days prior to giving the contractor the notice to proceed. The designation letter will set forth the authorities and limitations of the COTR under the contract. The COTR for this project is Ed Kaja kajae@usmma.edu

(b) The Contracting Officer cannot authorize the COTR or any other representative to sign documents (i.e., contracts, contract modifications, etc.) that require the signature of the Contracting Officer.

52.204-6 Data Universal Numbering System (DUNS) Number. (APR 2008)

52.215-1 Instructions to Offerors - Competitive Acquisition. (JAN 2004)

52.236-27 Site Visit (Construction). (FEB 1995)

(a) The clauses at 52.236-2, Differing Site Conditions, and 52.236-3, Site Investigations and Conditions Affecting the Work, will be included in any contract awarded as a result of this solicitation. Accordingly, offerors or quoters are urged and expected to inspect the site where the work will be performed.

(b) Optional site visit will take place at Delano Hall on 08 August 2011 at 10:00A.M. local time. Offerors should RSVP to Ed Kaja no later than 9:00AM on 05 August 2011.

Name: Ed Kaja telephone 516-773-5133

Email: kajae@usmma.edu

(End of provision)

52.216-1 Type of Contract. (APR 1984)

The Government contemplates award of a firm fixed price contract resulting from this solicitation.

(End of provision)

52.233-2 Service of Protest. (SEP 2006)

(a) Protests, as defined in section 33.101 of the Federal Acquisition Regulation, that are filed directly with an agency, and copies of any protests that are filed with the Government Accountability Office (GAO), shall be served on the Contracting Officer (addressed as follows) by obtaining written and dated acknowledgment of receipt from *Maxmillian Diah, 300 Steamboat Road, Kings Point, NY 11024*,

(b) The copy of any protest shall be received in the office designated above within one day of filing a protest with the GAO.

(End of provision)

52.252-1 Solicitation Provisions Incorporated by Reference. (FEB 1998)

This solicitation incorporates one or more solicitation provisions by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. The offeror is cautioned that the listed provisions may include blocks that must be completed by the offeror and submitted with its quotation or offer. In lieu of submitting the full text of those provisions, the offeror may identify the provision by paragraph identifier and provide the appropriate information with its quotation or offer. Also, the full text of a solicitation provision may be accessed electronically at this/these addresses: <http://farsite.hill.af.mil>

(End of provision)

Evaluation Factors for Award

Evaluation - Commercial Items. (JAN 1999)

(a) The Government will award a contract resulting from this solicitation to the responsible offeror whose offer conforming to the solicitation will be most advantageous to the Government, price and other factors considered. The following factors shall be used to evaluate offers:

The Government will evaluate the contractor's proposal for technical acceptability.

The Government will award to the offeror whose proposal is deemed to be the Lowest Price Technically Acceptable offeror.

(b) *Options.* The Government will evaluate offers for award purposes by adding the total price for all options to the total price for the basic requirement. The Government may determine that an offer is unacceptable if the option prices are significantly unbalanced. Evaluation of options shall not obligate the Government to exercise the option(s).

(c) A written notice of award or acceptance of an offer, mailed or otherwise furnished to the successful offeror within the time for acceptance specified in the offer, shall result in a binding contract without further action by either party. Before the offer's specified expiration time, the Government may accept an offer (or part of an offer), whether or not there are negotiations after its receipt, unless a written notice of withdrawal is received before award.

(End of provision)

END
OF
CONTRACT