

<b>SOLICITATION/CONTRACT/ORDER FOR COMMERCIAL ITEMS</b> OFFEROR TO COMPLETE BLOCKS 12, 17, 23, 24, AND 30				1. REQUISITION NUMBER W68MD9-4271-1807		PAGE 1 OF 22	
2. CONTRACT NO. W912DW-04-P-0438		3. AWARD/EFFECTIVE DATE 28-Sep-2004		4. ORDER NUMBER		5. SOLICITATION NUMBER W912DW-04-Q-0164	
7. FOR SOLICITATION INFORMATION CALL:		a. NAME PATRICIA A ORTIZ		b. TELEPHONE NUMBER (No Collect Calls) 206-764-3516		8. OFFER DUE DATE/LOCAL TIME 11:00 AM 16 Sep 2004	
9. ISSUED BY USA ENGINEER DISTRICT, SEATTLE ATTN: CENWS-CT 4735 EAST MARGINAL WAY SOUTH SEATTLE WA 98134-2329  TEL: 206-764-3772 FAX: 206-764-6817		CODE W912DW		10. THIS ACQUISITION IS <input type="checkbox"/> UNRESTRICTED <input checked="" type="checkbox"/> SET ASIDE: 100 % FOR <input checked="" type="checkbox"/> SMALL BUSINESS <input type="checkbox"/> HUBZONE SMALL BUSINESS <input type="checkbox"/> 8(A)  NAICS: 541330 SIZE STANDARD:\$4.0		11. DELIVERY FOR FOB DESTINATION UNLESS BLOCK IS MARKED <input type="checkbox"/> SEE SCHEDULE  13a. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700)  13b. RATING  14. METHOD OF SOLICITATION <input checked="" type="checkbox"/> RFQ <input type="checkbox"/> IFB <input type="checkbox"/> RFP	
15. DELIVER TO MILITARY BRANCH 4735 E. MARGINAL WAY S. SEATTLE WA 98134-2385		CODE G3H0D00		16. ADMINISTERED BY USA ENGINEER DISTRICT, SEATTLE PATRICIA ORTIZ PH: 206-764-3516 FAX: 206-764-6817 PATRICIA.A.ORTIZ@US.ARMY.MIL SEATTLE WA		CODE W912DW	
17a. CONTRACTOR/OFFEROR CANNON CONSTRUCTION INC MICHAEL CANNON 406 PORTER WAY MILTON WA 98354-9638  TEL. 253 922-2787		CODE 1KTV5  FACILITY CODE		18a. PAYMENT WILL BE MADE BY US ARMY CORPS OF ENGRS FINANCE CENTER CEFC-AO-P 901-874-8556 5722 INTEGRITY DRIVE MILLINGTON TN 38054-5005		CODE W66KQZ	
<input type="checkbox"/> 17b. CHECK IF REMITTANCE IS DIFFERENT AND PUT SUCH ADDRESS IN OFFER				18b. SUBMIT INVOICES TO ADDRESS SHOWN IN BLOCK 18a. UNLESS BLOCK BELOW IS CHECKED <input type="checkbox"/> SEE ADDENDUM			
19. ITEM NO.		20. SCHEDULE OF SUPPLIES/ SERVICES		21. QUANTITY		22. UNIT	
		SEE SCHEDULE				23. UNIT PRICE	
						24. AMOUNT	
25. ACCOUNTING AND APPROPRIATION DATA  See Schedule				26. TOTAL AWARD AMOUNT (For Govt. Use Only)  \$103,075.00			
<input type="checkbox"/> 27a. SOLICITATION INCORPORATES BY REFERENCE FAR 52.212-1. 52.212-4. FAR 52.212-3. 52.212-5 ARE ATTACHED. ADDENDA <input type="checkbox"/> ARE <input type="checkbox"/> ARE NOT ATTACHED							
<input checked="" type="checkbox"/> 27b. CONTRACT/PURCHASE ORDER INCORPORATES BY REFERENCE FAR 52.212-4. FAR 52.212-5 IS ATTACHED. ADDENDA <input checked="" type="checkbox"/> ARE <input type="checkbox"/> ARE NOT ATTACHED							
28. CONTRACTOR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN <u>0</u> COPIES <input type="checkbox"/> TO ISSUING OFFICE. CONTRACTOR AGREES TO FURNISH AND DELIVER ALL ITEMS SET FORTH OR OTHERWISE IDENTIFIED ABOVE AND ON ANY ADDITIONAL SHEETS SUBJECT TO THE TERMS AND CONDITIONS SPECIFIED HEREIN.				29. AWARD OF CONTRACT: REFERENCE <sup>Quote</sup> W912Dw-04-Q-0164 <input checked="" type="checkbox"/> OFFER DATED 16-Sep-2004 . YOUR OFFER ON SOLICITATION (BLOCK 5), INCLUDING ANY ADDITIONS OR CHANGES WHICH ARE SET FORTH HEREIN, IS ACCEPTED AS TO ITEMSSEE SCHEDULE			
30a. SIGNATURE OF OFFEROR/CONTRACTOR				31a. UNITED STATES OF AMERICA (SIGNATURE OF CONTRACTING OFFICER)		31c. DATE SIGNED	
				Elaine M Ebert		29-Sep-2004	
30b. NAME AND TITLE OF SIGNER (TYPE OR PRINT)		30c. DATE SIGNED		31b. NAME OF CONTRACTING OFFICER (TYPE OR PRINT)			
				ELAINE M EBERT / CONTRACTING OFFICER  TEL: (206) 764-3638 EMAIL: elaine.m.ebert@usace.army.mil			

**SOLICITATION/CONTRACT/ORDER FOR COMMERCIAL ITEMS  
(CONTINUED)**

19. ITEM NO.	20. SCHEDULE OF SUPPLIES/ SERVICES	21. QUANTITY	22. UNIT	23. UNIT PRICE	24. AMOUNT
<p><b>SEE SCHEDULE</b></p>					

32a. QUANTITY IN COLUMN 21 HAS BEEN  
 RECEIVED  INSPECTED  ACCEPTED, AND CONFORMS TO THE CONTRACT, EXCEPT AS NOTED: \_\_\_\_\_

32b. SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE	32c. DATE	32d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE
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32e. MAILING ADDRESS OF AUTHORIZED GOVERNMENT REPRESENTATIVE	32f. TELEPHONE NUMBER OF AUTHORIZED GOVERNMENT REPRESENTATIVE
	32g. E-MAIL OF AUTHORIZED GOVERNMENT REPRESENTATIVE

33. SHIP NUMBER <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL	34. VOUCHER NUMBER	35. AMOUNT VERIFIED CORRECT FOR	36. PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL	37. CHECK NUMBER
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38. S/R ACCOUNT NUMBER	39. S/R VOUCHER NUMBER	40. PAID BY
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41a. I CERTIFY THIS ACCOUNT IS CORRECT AND PROPER FOR PAYMENT	42a. RECEIVED BY ( <i>Print</i> )
	42b. RECEIVED AT ( <i>Location</i> )
	42c. DATE REC'D (YY/MM/DD)
41b. SIGNATURE AND TITLE OF CERTIFYING OFFICER	41c. DATE

Section SF 1449 - CONTINUATION SHEET

INSTRUCTIONS

WEB INVOICING SYSTEM (WINS)

WINS IS AN OPTIONAL ONLINE INVOICING SYSTEM PROVIDING DEPARTMENT OF DEFENSE VENDORS AN ELECTRONIC MEANS OF SUBMITTING INVOICES FOR PAYMENT. VENDOR REGISTRATION FOR WINS IS ACCOMPLISHED THROUGH THE FOLLOWING DFAS WEBSITE: [HTTPS://ECWEB.DFAS.MIL](https://ecweb.dfas.mil) AT THE WEBSITE CLICK ON NEW ACCOUNT TO REGISTER AND SELECT "USACE" AS THE PAYMENT SYSTEM NAME. THE PAYMENT OFFICE CODE AND LOCATION IS "TO-UFC MILLINGTON". TO ESTABLISH AN ACCOUNT IN WINS, VENDORS MUST BE REGISTERED WITH THE CENTRAL CONTRACTOR REGISTRATION (CCR).

**Notice to Proceed is hereby issued with this signed Purchase Order.**

**Contracting Officer's Representative for this project is Anil Nisagard, 206 764-3828.**

**All work should be completed no later than 31 December 2004.**

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001		1	Lump Sum	\$103,075.00	\$103,075.00

FIBER OPTICS FOR CACTF (A0013)  
 FFP  
 PROVIDE AND INSTALL ALL MATERIALS AND EQUIPMENT NECESSARY TO  
 UPGRADE FIBER OPTICS CABLE INFRASTRUCTURE AT THE CACTF  
 LOCATED ON FORT LEWIS, WA IN ACCORDANCE WITH THE ATTACHED  
 STATEMENT OF WORK DATED 27 AUGUST 2004 , DIAGRAM (FIGURE 1) AND  
 THE WAGE DETERMINATION NO: 94-2567, WITH 25 MODIFICATIONS DATED  
 2 AUGUST 2004

COST BREAKDOWN FOR THE FOLLOWING AREAS TO INCLUDE  
 MATERIALS.

- A. AAR-TO-SCHOOL                    \$41,520.00
- B. RESIDENCE INN                    \$ 8,175.00
- C. TOWNHOUSE                        \$14,060.00
- D. BARRACKS COMPLEX               \$14,076.00
- E. WAREHOUSE COMPLEX              \$ 8,720.00
- F. FARM HOUSE COMPLEX              \$ 8,720.00
  
- G. OPEN AIR MARKET                \$ 2,990.00
- H. GUARD SHACK @  
     MUNICIPAL BUILDING               \$ 2,990.00
- I. TOWN HALL                         \$ 1,930.00

PURCHASE REQUEST NUMBER: W68MD9-4271-1807

	NET AMT	\$103,075.00
ACRN AB Funded Amount		\$103,075.00

ACCOUNTING AND APPROPRIATION DATA  
 AB:            21320500000 088082            3230H852KH10136430000 DA3G 35026  
 COST        000000000000  
 CODE:  
 AMOUNT: \$103,075.00

SOW

**STATEMENT OF WORK**  
**Fiber Optic Cable Upgrade**  
**For**  
**Combined Arms Collective Training Facility (CACTF)**  
**Fort Lewis, WA**  
**1 September 2004**

**1. Project Data.**

**1.1 Authorization:** Code 9 Construction Directive dated 8 July 2004 to provide additional fiber optic cable to the Combined Arms Collective Training Facility (CACTF) project for use in providing optimal range targetry and instrumentation support.

**1.2 Project Description:** Provide and install all materials and equipment necessary to upgrade the fiber-optic cable infrastructure at the CACTF at Fort Lewis, WA, in accordance with the attached diagram (Figure 1), this Scope of Work, and referenced materials.

**1.2.1 AAR-School:** Install one 72-strand fiber-optic cable between the After Action Review (AAR) Facility at Range 17 to the hub at the schoolhouse building on the CACTF range, a length of approximately 18,800 feet. Underground ducts are available for the entire length of the cable run. Terminate and test per UFGS 16710 and 16711 and other applicable references contained in this scope of work.

**1.2.2 Leschi Town:** Provide additional fiber-optic cable as indicated in the attached diagram (Enclosure 1). Provide and install patch panels as indicated. Terminate and test per UFGS 16710 and 16711 and other applicable references contained in this scope of work. Provide a NEMA-3R enclosure at the Open Air Market. Underground ducts are available.

**1.2.2.1 Barracks Complex Guard House:** Only two conduits serve this small building, a 1-inch and a ¾-inch. Combine existing power circuits in the 1-inch conduit and pull new fiber and (existing) control cable through the ¾-inch conduit. Re-route the existing interior surface mounted conduit to accommodate the existing power requirements and the contractually required fiber patch panel. Terminate fiber on a 6-port patch panel in a NEMA-3R enclosure.

**1.3 Project Data:**

Program	Military Construction Army (MCA)
Fiscal Year	2004
Project Title	Fiber Optic Upgrade for CACTF at Ft. Lewis WA
Project Location	Fort Lewis, WA
Programmed Gross Area	N/A
Programmed Amount (PA)	N/A
Construction Cost Limitation	N/A

Drawing Title  
Drawing File Number

CACTF Fiber Optic Cable Upgrade  
TBD

**1.4 Materials List:** Refer to the following table for an estimate of the required materials and tasks.

TASK DESCRIPTION	Amount	UNIT	TASK DESCRIPTION	Amount	UNIT
<b>1. AAR-to-School</b>			<b>5. Warehouse Complex</b>		
1-72 FO (School-MB)	4828	m	1-12 Strand FO	400	m
2-144 Port Fiber Patch Panel (School, AAR)	2	ea	4-6 FO	37	m
Terminations	144	ea	1-48 Port Patch Panel	1	ea
Testing	144	ea	6 Port Patch Panel	4	ea
<b>2. Residence Ring</b>			Terminations	72	ea
1-30 FO	50	m	Testing	72	ea
7-6 FO	37	m	<b>6. Farm House Complex</b>		
1-48 Port Patch Panel	1	ea	1-12 Strand FO (Townhouse-Farmhouse)	400	m
7-6 Port Patch Panel	7	ea	4-6 FO from Farmhouse	37	m
Terminations	72	ea	1-48 Port Patch Panel at Farmhouse	1	ea
Testing	72	ea	6 Port Patch Panel	4	ea
<b>3. Townhouse</b>			Terminations	72	ea
1-96 Strand FO	340	m	Testing	72	ea
1-144 Port Patch Panel	1	ea	<b>7. Open Air Market</b>		
Terminations	192	ea	1-6 Strand FO from Hotel	340	m
Testing	192	ea	1-6 Port Patch Panel	1	ea
<b>4. Barracks Complex</b>			Terminations	12	ea
1-48 Strand FO	150	m	Testing	12	ea
7-6 FO	37	m	<b>8. Guard Shack @Municipal Building</b>		
48 Port Patch Panel	1	ea	1-6 Strand FO from Municipal	100	m
6 Port Patch Panel	7	ea	1-6 Port Patch Panel	1	ea
Terminations	180	ea	Terminations	12	ea
Testing	180	ea	Testing	12	ea
Conduit, 1"	1	clf	<b>9. Town Hall</b>		
J-Box, Couplings, Elbow	2	ea	1-6 Strand FO from Town House	100	m
NEMA 3 Enclosure at Guard	1	ea	Terminations	12	ea
12 AWG	1	clf	Testing	12	ea

**1.5 Bidder Site Visitation:** A site visit for prospective bidders will be held 14 SEP 2004 at 09:30 AM. Bidders are to meet at Visit Center located outside the main gate of Fort Lewis for an estimated 2-hour familiarization tour of the project locations and infrastructure. Project and Fort Lewis technical representatives will be on hand to answer questions. Although bidder attendance is not mandatory, it is highly recommended.

## **2. Description of Work and Services**

**2.1 General:** The work under this purchase order consists of provision and installation of fiber optic cable and necessary accessories, testing of the installed fiber system with documentation of the testing, and provision of record drawings.

**2.2 Installation Execution:** System components and appurtenances shall be installed in accordance with cited references. Necessary interconnections, services, and adjustments required for a complete and operable signal distribution system shall be provided. Components shall be labeled in accordance with EIA ANSI/TIA/EIA-606. Wiring, and terminal blocks and outlets shall be marked in accordance with EIA ANSI/TIA/EIA-606. Cables shall not be installed in the same cable tray, utility pole compartment, or floor trench compartment with ac power cables. Cables not installed in conduit or wireways shall be properly secured and neat in appearance and, if installed in plenums or other spaces used for environmental air, shall comply with NFPA 70 requirements for this type of installation.

**2.3 Horizontal Distribution Cable:** The rated cable pulling tension shall not be exceeded. Cable shall not be stressed such that twisting, stretching or kinking occurs. Cable shall not be spliced unnecessarily. Fiber optic cables shall be installed either in conduit or through-type cable trays to prevent microbending losses. Cable shall not be run through structural members or in contact with pipes, ducts, or other potentially damaging items. Placement of cable parallel to power conductors shall be avoided, if possible; a minimum separation of 300 mm (12 inches) shall be maintained when such placement cannot be avoided. Cables shall be terminated; no cable shall contain unterminated elements. Minimum bending radius shall not be exceeded during installation or once installed. Cable ties shall not be excessively tightened such that the transmission characteristics of the cable are altered.

**2.4 Riser and Backbone Cable:** Vertical cable support intervals shall be in accordance with manufacturer's recommendations. Cable bend radius shall not be less than ten times the outside diameter of the cable during installation and once installed. Maximum tensile strength rating of the cable shall not be exceeded. Cable shall not be spliced unnecessarily.

**2.5 Faceplates: (if utilized)** As a minimum each jack shall be labeled as to its function and a unique number to identify cable link.

**2.6 Cables:** Fiber optic cables shall have a minimum of 150mm (6 inches) of slack cable loosely coiled into the telecommunications outlet boxes. Minimum manufacturers bend radius for each type of cable shall not be exceeded.

**2.7 Cable Inspection and Repair:** All cable and wire used in the construction of the project shall be handled with care. Each reel shall be inspected for cuts, nicks or other damage. All damage shall be repaired to the satisfaction of the Contracting Officer. The reel wrap shall remain intact on the reel until the cable or wire is ready to be placed.

**2.8 Underground Cable:** Underground cable installation shall be accomplished in accordance with the requirements set forth in RUS REA Bulletin 1751F-641.

**2.9 Cable Pulling:** For cable installed in ducts and conduit, a cable feeder guide shall be used, between the cable reel and the face of the duct and conduit, to protect the cable and guide it into the duct and conduit as it is paid off the reel. As the cable is paid off the reel, it shall be inspected for jacket defects. Precautions shall be taken during installation to prevent the cable from being kinked or crushed. Cable shall be hand fed and guided through each manhole. As the cable is paid off the reel into the cable feeder guide, it shall be sufficiently lubricated with a type of lubricant recommended by the cable manufacturer. Where the cable is pulled through a manhole, additional lubricant shall be applied at all intermediate manholes. Dynamometers or load-tension instruments shall be used to ensure that the pulling line tension does not exceed the installation tension value specified by the cable manufacturer. The mechanical stress placed upon a cable during installation shall not cause the cable to be twisted or stretched.

**2.10 Penetrations for Cable Access:** Penetrations in walls, ceilings or other parts of the building, made to provide for cable access, shall be caulked and sealed. All building entries shall be through waterproof facilities.

## **2.11 Backbone and Horizontal Distribution Cable**

**2.11.1 Singlemode:** Singlemode fiber optic backbone cable shall meet the requirements of ICEA S-83-596 and the following: operation at a center wavelength of 1310 and 1550 nm; core/cladding diameter 8.3 nominal/125 micrometer; maximum attenuation 2.0 dB/km at 1300 nm, 1.75 dB/km at 1550 nm. Numerical aperture for each fiber shall be a minimum of 0.10. Cable construction shall be tight-buffered type for inside plant or short runs and loose buffered for long runs such as the AAR to Leschi Town run. Cable shall be imprinted with fiber count and aggregate length at regular intervals. Individual fibers shall be color coded for identification. Cable shall be rated OFNR per NFPA 70.

**2.11.2 Performance Requirements:** The fiber optic cable shall comply with the specified mechanical performance requirements while used in buried and underground duct applications where the temperature varies from minus 20 to plus 60 degrees Celsius (minus 5 to plus 140 degrees Fahrenheit). Optical performance degradation shall be less than 5 percent of the optical performance requirements in the temperature range of minus 20 to plus 60 degrees Celsius (minus 5 to plus 140 degrees Fahrenheit). The fiber optic cable shall not be damaged in storage where the temperature may vary from minus 40 to plus 65 degrees Celsius.

**2.12 Manufacturers:** The cable, equipment, and hardware provided shall be from manufacturers that have a minimum of 3 years experience in producing the types of cable, equipment, and hardware specified.

**2.13 Fiber Optic Cable Optical Tests:** Two optical tests shall be performed on all optical fibers: Optical Time Domain Reflectometry (OTDR) Test, and Attenuation Test. These tests shall be performed on the completed end-to-end spans, which include the near-end, pre-connectorized, single fiber cable assembly and the far-end pre-connectorized single fiber cable assembly. Tests shall conform to ANSI/TIA/EIA 526-14-A.

**2.13.1 OTDR Test:** The OTDR test shall be used to determine the adequacy of the cable installations by showing any irregularities, such as discontinuities, micro-bendings, improper splices, for the cable span under test. Hard copy fiber signature records shall be obtained from the OTDR for each fiber in each span and shall be included in the test results. The OTDR test shall be measured in both directions. A reference length of fiber, 1 km minimum, used as the delay line, shall be placed before the new end connector and after the far end patch panel connectors for inspection of connector signature. The OTDR test shall be conducted in accordance with EIA ANSI/EIA 455-81A-91 for single-mode. Splice losses shall not exceed 0.1db. Attenuation losses shall not exceed 0.5 db/km at 1310 nm and 1550 nm for single-mode fiber.

**2.13.1.1** Connectors shall be visually inspected for scratches, pits or chips and shall be re-terminated if any of these conditions exist. All suspect connectors shall be tested via visual fault locators at the discretion of the Communications Inspector. Non-compliant components shall be replaced. Each circuit leg and complete circuit shall be tested for insertion loss at 1310 and 1550 nm using a light source similar to that used for the intended communications equipment. Scale of the OTDR trace shall be such that the entire circuit appears over a minimum of 80 percent of the X-axis.

**2.13.2 Attenuation Test:** End-to-end attenuation measurements shall be made on all fibers, in both directions, using a 1300 nanometer light source at one end and the optical power meter on the other end to verify that the cable system attenuation requirements are met. The measurement method shall be in accordance with EIA ANSI/EIA/TIA-455-53A.

## **2.14 Fiber Optic Closures**

**2.14.1 Fiber Optic Underground:** The underground closure shall be suitable to house a splice organizer in a protective housing. No encapsulation of fiber splices shall be performed, per Fort Lewis DOIM specifications.

## **2.15 Fiber Optic Splices**

**2.15.1 Fiber Optic Cable Splices:** Each fiber optic splice shall be physically protected by a splice kit. The kit shall be specially designed for the splice. Fiber optic splicing shall be in accordance with the manufacturer's recommendation; each splice shall have a loss of less than 0.1 dB.

**2.15.2 Fiber Optic Splice Organizer:** The splice organizer shall be suitable for housing fiber optic splices in a neat and orderly fashion. The splice organizer shall allow for a minimum of 1 m 3 feet of fiber for each fiber within the cable to be neatly stored without kinks or twists. The splice organizer shall accommodate individual strain relief for each splice. The splice organizer shall allow for future maintenance or modification, without damage to the cable or splices. All required splice organizer hardware, such as splice trays, protective glass shelves, and shield bond connectors shall be provided in the organizer kit.

## **2.16 Fiber Optic Terminations**

**2.16.1 Connectors:** Connectors shall be ST type with ceramic ferrule material with a maximum insertion loss of 0.5dB. Connectors shall meet performance requirements of EIA ANSI/TIA/EIA-568-A. Connectors shall be field installable. Connectors shall utilize adhesive for fiber attachment to ferrule. Connectors shall terminate fiber sizes as required for the service. If pre-connectorized cable assemblies or pigtails are used, the connectors shall be terminated on a 3 m 10 foot length of single-fiber cable. The single-fiber cable shall contain a buffered optical fiber of the same type and specification as that used in the multi-fiber cable.

**2.16.2 Patch Cords:** Patch cords shall be cable assemblies consisting of flexible optical fiber cable with connectors of the same type as used elsewhere in the system. Optical fiber shall be the same type as used elsewhere in the system. Patch cords shall be complete assemblies from manufacturer's standard product lines.

**2.16.3 Fiber Optic Patch Panels:** Patch panels shall be a complete system of components by a single manufacturer, and shall provide termination, splice storage, routing, radius limiting, cable fastening, storage, and cross-connection. Patch panels shall be 480 mm 19 inch rack mounted or wall mounted panels. Patch panels shall provide strain relief for cables. Panels shall be labeled with alphanumeric x-y coordinates. Patch panel connectors and couplers shall be the same type and configuration as used elsewhere in the system.

**2.16.4 Cable Guides:** Cable guides shall be specifically manufactured for the purpose of routing cables, wires and patch cords horizontally and vertically on 480 mm (19 inch) equipment racks. Cable guides shall consist of ring or bracket-like devices mounted on rack panels for horizontal use or individually mounted for vertical use. Cable guides shall mount to racks by screws and/or nuts and lock washers.

**2.16.5 Equipment Mounting Backboard:** Plywood backboards shall be provided and properly sized, painted with white or light colored paint.

**2.17 Cable Cuts or Damage:** If a communications cable is cut or damaged the Contractor shall immediately notify the PM and begin gathering personnel and equipment necessary to repair the cut, or damage. Contractor shall begin repairs within one hour of the cut or damage, unless notified otherwise, and continue repairs without interruption until full service is restored.

**2.18 Quality Control:** The professional quality, technical accuracy, and the coordination of all work are the contractor's responsibility. To meet this requirement, the contractor shall perform reviews during the installation process and at completion of all work. Work shall be reviewed for technical accuracy, coordination, and conformance to customer requirements. The Corps of Engineers will perform an independent technical review of the fiber optic installation near project completion and provide punch list items to be addressed before final payment is made.

## **3. General Requirements**

**3.1 Guidance:** The successful bidder is cautioned to take no direction which results in additional scope of work or deletion of scope during the course of contract execution from any source except the Contracting Officer (CO) or Contracting Officer's Representative (COR).

**3.2 Release of Information:** Unless specifically approved by the Contracting Officer or designated COR, the contractor shall not release, present, clarify or discuss any drawing, specification, design analysis, budget, estimate, schedule or any other material or information of any nature pertaining to the work for which services are performed under the terms of this contract. The provisions of this clause will apply to unnecessary contact with any outside individual or agency during design, solicitation and construction of this project. The contractor and all subcontractors shall refer all questions and inquiries from outside sources to the COR. The provisions of this clause are not intended to limit, restrict or inhibit normal contact necessary to fulfill the terms of this contract.

**3.3 Meeting attendance:** The contractor shall conduct a tailgate safety meeting on-site at the beginning of each workday to review safety considerations of each job to be undertaken that day. A sign-in sheet record of attendance is to be in the possession of the contractor's PM when on site. All employees shall be involved each day.

**3.4 Road Closures:** Road closures shall not be allowed during the conduct of the work.

**3.5 Access to Communications Manhole or Handhole:** No communications manhole or handhole shall be entered without first obtaining a fiber optic cable briefing. Coordinate the briefing through

the USACE PM with DOIM (Directorate of Information Management), Cliff Hawkeswood, Fort Lewis, Information Services Center, Bldg. 2003. (253) 967-6789.

**3.6 Telecommunications Contractor Pre-qualifications:** All telecommunications work shall be performed by certified telecommunications contractors and installers. Telecommunications apprentices, if used, shall be closely supervised. No more than 2 apprentices per journeyman installer shall be permitted in performing the work. All telecommunications equipment shall be furnished and installed by a Washington State Department of Labor and Industries certified, licensed electrical telecommunications (TELECOM) Contractor. The contractor shall possess the following qualifications:

a. **Minimum Contractor Experience:** The contractor shall have a minimum of 4 years experience in the application, installation, and testing of specified systems and equipment. Specific knowledge of the Army I3A telecommunications guide, EIA/TIA standards, and Fort Lewis telecommunications system is preferable. The contractor shall be a certified installer on telecommunications infrastructure components and show proof thereof. The contractor shall submit a 1-3 page narrative describing the firm's recent experience and qualifications, contractors telecom license, together with an organization chart showing the specific administrators, installers, and other telecommunications workers proposed for the project to the USACE PM prior to the start of work.

(1) Certified telecommunications administrators and installers assigned to the installation of this system or any of its components shall have appropriate training and State Department of Labor and Industries certification that they are qualified to install and test the provided products. Administrators shall have a minimum of 4 years recent, relevant experience supervising the installation of telecommunications systems.

(2) Installers assigned to the installation of this system or any of its components shall have a minimum of 3 years recent work experience in the installation of EIA/TIA specified copper and fiber optic cable and components.

(3) A certified telecom administrator shall supervise all aspects of the work. The administrator shall be available to installers any time work is being performed and will review and approve all aspects of the work.

#### **4. Schedule.**

**4.1** The Contractor shall furnish sufficient technical and supervision and administration personnel to ensure the execution of the work in accordance with the following schedule:

Contract Award	Calendar Days
Notice to Proceed	Contract Award
Installation	45 days
Final Inspection	NTP +45 days
Submit Record Drawings	NTP + 60 Days
Final Acceptance	NTP +75 days

4.2 Some coordination with Range Control will be necessary in the Phase I portion of the CACTF due to training schedules. Schedules are light in the Autumn of 2004, but if the area is in use, work must be suspended in the Phase I area in order to avoid interferences for both the contractor and the training units.

## 5. Submittals

**5.1 Record Drawings:** The Contractor shall submit Record Drawings for the installed wiring system showing the actual location of all cable terminations, splices, routing, and size and type of all cables. The identifier for each termination and cable shall appear on the drawings. The drawings shall include gauge and pair or fiber count for each cable, duct and innerduct arrangement, or conductor assignment of outside plant, and protector and connector block layout at the termination points after installation.

**5.2 Acceptance Tests:** Test reports in booklet form showing all field tests performed, upon completion and testing of the installed system. Measurements shall be tabulated on a pair-by-pair or strand-by-strand basis. The project communications representative will review and require re-testing if required technical standards are not followed and documented, so advance coordination of tests and procedures is recommended.

## 6. Government Points of Contact

**6.1 Contracting Officer's Representative (COR):** To Be Determined, please see solicitation.

**6.2 Corps of Engineers Project Manager (PM):** Mr. JD Brigance (206-764-3695) e-mail [John.D.Brigance@nws02.usace.army.mil](mailto:John.D.Brigance@nws02.usace.army.mil) is the PM responsible for management of this effort.

**6.4 Corps of Engineers Project Engineer (PE):** Mr. Mike Berge (253) 966-4366 e-mail: [Michael.J.Berge@nws02.usace.army.mil](mailto:Michael.J.Berge@nws02.usace.army.mil) is the project engineer with on-site responsibility.

**6.5 Corps of Engineers Quality Assurance Representative:** Chris Hall (253) 966-4380 [Christopher.Hall@nws02.usace.army.mil](mailto:Christopher.Hall@nws02.usace.army.mil) is the quality assurance representative with on-site inspection responsibility.

**6.6 Project Communications Representative:** Lynn Braddock (253) 966-4377 [Lynn.M.Braddock@nws02.usace.army.mil](mailto:Lynn.M.Braddock@nws02.usace.army.mil) will be involved in coordinating, inspecting, and reviewing the fiber optic cable upgrade.

**6.7 Corps of Engineers Program Manager (PgM):** Mr. Thomas Poole (206)-764-5521, e-mail [Thomas.n.poole@usace.army.mil](mailto:Thomas.n.poole@usace.army.mil) is the Program Manager (PgM) responsible for oversight management of the execution of the project with respect to overall military construction execution at Fort Lewis.

**6.8 Chief, Fort Lewis Directorate of Information Systems (DOIM):** Mr. Cliff Hawkeswood (253) 967-6789, email [Cliff.Hawkeswood@us.army.mil](mailto:Cliff.Hawkeswood@us.army.mil) is the Fort Lewis POC for all Fort Lewis information systems. Mr. Hawkeswood will assist the project team, when necessary, in maintaining compliance with Fort Lewis Guide Specifications and coordination with (and access to) other installed infrastructure.

**6.9 Range Control POC:** Mr. Carl Ramsey (253) 967-6575, email [Ramsey.Ramsey@us.army.mil](mailto:Ramsey.Ramsey@us.army.mil) is the primary user of the facility (Primary Project Customer) and will coordinate access to areas of Leschi Town that may be involved in training exercises. Mr. Ramsey retains responsibility for ultimate acceptance of all work on the project provided through USACE.

## **7.0 REFERENCES**

The publications listed below form a part of this scope of work. The publications are referred to in the text by basic designation only.

### **ELECTRONIC INDUSTRIES ALLIANCE (EIA)**

EIA ANSI/EIA-455-81A-91 (1992) FOTP-81 Compound Flow (Drip) Test for Filled Fiber Optic Cable

EIA ANSI/EIA/TIA-455-30B (1991) FOTP-30 Frequency Domain Measurement of Multimode Optical Fiber Information Transmission Capacity

EIA ANSI/EIA/TIA-455-53A (1990) FOTP-53 Attenuation by Substitution Measurement for Multimode Graded-Index Optical Fibers or Fiber Assemblies Used in Long Length Communications Systems

EIA ANSI/EIA/TIA-455-78A-98 (1990; R 1998) FOTP-78 Spectral Attenuation Cutback Measurement for Single Mode Optical Fibers

EIA ANSI/TIA/EIA-568-A (1995; Addendum 3 1998) Commercial Building Telecommunications Cabling Standard

EIA ANSI/TIA/EIA-607 (1994) Commercial Building Grounding and Bonding Requirements for Telecommunications

ICEA S-83-596 (1994) Fiber Optic Premises Distribution Cable

### **INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE)**

IEEE C2 (1997) National Electrical Safety Code

### **NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)**

NFPA 70 (1999) National Electrical Code

### **RURAL UTILITIES SERVICE (RUS)**

REA Bulletin 345-50 (1979) Trunk Carrier Systems (PE-60)

REA Bulletin 345-65 (1985) Shield Bonding Connectors (PE-33)

REA Bulletin 345-72 (1985) Filled Splice Closures (PE-74)

REA Bulletin 345-151 (1989) Conduit and Manhole Construction, REA Form 515c

REA Bulletin 1753F-205 (PE-39) (1993) Filled Telephone Cables

REA Bulletin 1753F-208 (1993) Filled Telephone Cables with Expanded Insulation (PE-89)

RUS Bulletin 1751F-643 (1998) Underground Plant Design

RUS Bulletin 1753F-302 (PE-91) (1994) Outside Plant Housings and Serving Area Interface Systems

RUS Bulletin 1753F-401(PC-2) (1995) Splicing Copper and Fiber Optic Cables

RUS REA Bulletin 1751F-641 (1995) Construction of Buried Plant

RUS REA Bull 1753F-201 (PC-4) (1997) Acceptance Tests and Measurements of Outside Plant

RUS REA Bull 1753F-601 (PE-90) (1994) Filled Fiber Optic Cables

RUS REA Bulletin 1755I-100 (1999) List of Materials Acceptable for Use on Telecommunications Systems of RUS Borrowers

WAGE DETERMINATION NO: 94-2567 REV (27) AREA: WA, TACOMA

WAGE DETERMINATION NO: 94-2567 REV (27) AREA: WA, TACOMA  
 REGISTER OF WAGE DETERMINATIONS UNDER U.S. DEPARTMENT OF LABOR  
 \*\*\*FOR OFFICIAL USE ONLY BY FEDERAL AGENCIES PARTICIPATING IN MOU WITH DOL\*\*\*  
 WASHINGTON D. C. 20210

William W. Gross  
 Director

Division of  
 Wage Determinations

Wage Determination No.: 1994-2567  
 Revision No.: 27  
 Date Of Last Revision: 09/20/2004

State: Washington

Area: Washington Counties of Lewis, Pierce, Thurston

**Fringe Benefits Required Follow the Occupational Listing**		Listing**
OCCUPATION CODE - TITLE	MINIMUM WAGE	RATE
01000 - Administrative Support and Clerical Occupations		
01011 - Accounting Clerk I		11.92
01012 - Accounting Clerk II		13.23
01013 - Accounting Clerk III		15.44
01014 - Accounting Clerk IV		17.28
01030 - Court Reporter		15.54
01050 - Dispatcher, Motor Vehicle		17.77
01060 - Document Preparation Clerk		12.70
01070 - Messenger (Courier)		10.96
01090 - Duplicating Machine Operator		12.70
01110 - Film/Tape Librarian		13.94
01115 - General Clerk I		10.21
01116 - General Clerk II		11.53
01117 - General Clerk III		14.80
01118 - General Clerk IV		16.24
01120 - Housing Referral Assistant		17.89
01131 - Key Entry Operator I		12.57
01132 - Key Entry Operator II		14.56
01191 - Order Clerk I		12.86
01192 - Order Clerk II		14.04
01261 - Personnel Assistant (Employment) I		13.21
01262 - Personnel Assistant (Employment) II		14.66
01263 - Personnel Assistant (Employment) III		16.20
01264 - Personnel Assistant (Employment) IV		18.61
01270 - Production Control Clerk		18.66
01290 - Rental Clerk		12.63
01300 - Scheduler, Maintenance		14.37
01311 - Secretary I		14.37
01312 - Secretary II		15.54
01313 - Secretary III		17.35
01314 - Secretary IV		21.44
01315 - Secretary V		24.91
01320 - Service Order Dispatcher		16.27
01341 - Stenographer I		14.10
01342 - Stenographer II		16.02
01400 - Supply Technician		18.49
01420 - Survey Worker (Interviewer)		13.39
01460 - Switchboard Operator-Receptionist		12.38
01510 - Test Examiner		15.54
01520 - Test Proctor		15.54
01531 - Travel Clerk I		11.23
01532 - Travel Clerk II		12.22
01533 - Travel Clerk III		13.16
01611 - Word Processor I		13.46
01612 - Word Processor II		15.07
01613 - Word Processor III		16.24
03000 - Automatic Data Processing Occupations		
03010 - Computer Data Librarian		15.08
03041 - Computer Operator I		15.08
03042 - Computer Operator II		16.73
03043 - Computer Operator III		18.66
03044 - Computer Operator IV		21.87

03045 - Computer Operator V	24. 27
03071 - Computer Programmer I (1)	16. 36
03072 - Computer Programmer II (1)	20. 71
03073 - Computer Programmer III (1)	27. 62
03074 - Computer Programmer IV (1)	27. 62
03101 - Computer Systems Analyst I (1)	27. 62
03102 - Computer Systems Analyst II (1)	27. 62
03103 - Computer Systems Analyst III (1)	27. 62
03160 - Peripheral Equipment Operator	15. 08
05000 - Automotive Service Occupations	
05005 - Automotive Body Repairer, Fiberglass	19. 80
05010 - Automotive Glass Installer	20. 46
05040 - Automotive Worker	20. 46
05070 - Electrician, Automotive	21. 78
05100 - Mobile Equipment Servicer	18. 55
05130 - Motor Equipment Metal Mechanic	21. 78
05160 - Motor Equipment Metal Worker	20. 46
05190 - Motor Vehicle Mechanic	21. 69
05220 - Motor Vehicle Mechanic Helper	18. 55
05250 - Motor Vehicle Upholstery Worker	20. 46
05280 - Motor Vehicle Wrecker	20. 46
05310 - Painter, Automotive	21. 12
05340 - Radiator Repair Specialist	20. 46
05370 - Tire Repairer	14. 81
05400 - Transmission Repair Specialist	21. 78
07000 - Food Preparation and Service Occupations	
(not set) - Food Service Worker	9. 24
07010 - Baker	12. 63
07041 - Cook I	11. 04
07042 - Cook II	12. 14
07070 - Dishwasher	9. 55
07130 - Meat Cutter	18. 28
07250 - Waiter/Waitress	9. 27
09000 - Furniture Maintenance and Repair Occupations	
09010 - Electrostatic Spray Painter	17. 45
09040 - Furniture Handler	15. 33
09070 - Furniture Refinisher	17. 45
09100 - Furniture Refinisher Helper	15. 33
09110 - Furniture Repairer, Minor	16. 37
09130 - Upholsterer	17. 92
11030 - General Services and Support Occupations	
11030 - Cleaner, Vehicles	11. 31
11060 - Elevator Operator	10. 66
11090 - Gardener	13. 31
11121 - House Keeping Aid I	9. 34
11122 - House Keeping Aid II	10. 66
11150 - Janitor	11. 19
11210 - Laborer, Grounds Maintenance	13. 16
11240 - Maid or Houseman	9. 34
11270 - Pest Controller	16. 54
11300 - Refuse Collector	13. 61
11330 - Tractor Operator	14. 41
11360 - Window Cleaner	11. 78
12000 - Health Occupations	
12020 - Dental Assistant	14. 32
12040 - Emergency Medical Technician (EMT)/Paramedic/Ambulance Driver	17. 57
12071 - Licensed Practical Nurse I	14. 97
12072 - Licensed Practical Nurse II	16. 78
12073 - Licensed Practical Nurse III	18. 77
12100 - Medical Assistant	13. 46
12130 - Medical Laboratory Technician	15. 77
12160 - Medical Record Clerk	15. 77
12190 - Medical Record Technician	16. 03
12221 - Nursing Assistant I	9. 66
12222 - Nursing Assistant II	10. 72
12223 - Nursing Assistant III	11. 85
12224 - Nursing Assistant IV	14. 10
12250 - Pharmacy Technician	14. 43
12280 - Phlebotomist	14. 53
12311 - Registered Nurse I	20. 46
12312 - Registered Nurse II	25. 01
12313 - Registered Nurse II, Specialist	25. 01
12314 - Registered Nurse III	30. 21
12315 - Registered Nurse III, Anesthetist	30. 21
12316 - Registered Nurse IV	36. 29
13000 - Information and Arts Occupations	
13002 - Audiovisual Librarian	19. 80

13011 - Exhibits Specialist I	16.95
13012 - Exhibits Specialist II	20.94
13013 - Exhibits Specialist III	25.64
13041 - Illustrator I	16.95
13042 - Illustrator II	20.94
13043 - Illustrator III	25.64
13047 - Librarian	22.93
13050 - Library Technician	13.73
13071 - Photographer I	17.23
13072 - Photographer II	19.32
13073 - Photographer III	23.83
13074 - Photographer IV	29.15
13075 - Photographer V	35.39
15000 - Laundry, Dry Cleaning, Pressing and Related Occupations	
15010 - Assembler	8.38
15030 - Counter Attendant	8.38
15040 - Dry Cleaner	10.54
15070 - Finisher, Flatwork, Machine	8.38
15090 - Presser, Hand	8.38
15100 - Presser, Machine, Drycleaning	8.38
15130 - Presser, Machine, Shirts	8.38
15160 - Presser, Machine, Wearing Apparel, Laundry	8.38
15190 - Sewing Machine Operator	11.23
15220 - Tailor	11.91
15250 - Washer, Machine	9.10
19000 - Machine Tool Operation and Repair Occupations	
19010 - Machine-Tool Operator (Toolroom)	21.05
19040 - Tool and Die Maker	24.23
21000 - Material Handling and Packing Occupations	
21010 - Fuel Distribution System Operator	22.09
21020 - Material Coordinator	15.99
21030 - Material Expediter	15.99
21040 - Material Handling Laborer	14.40
21050 - Order Filler	12.87
21071 - Forklift Operator	18.06
21080 - Production Line Worker (Food Processing)	16.32
21100 - Shipping/Receiving Clerk	15.17
21130 - Shipping Packer	15.17
21140 - Store Worker I	12.99
21150 - Stock Clerk (Shelf Stocker; Store Worker II)	16.39
21210 - Tools and Parts Attendant	18.06
21400 - Warehouse Specialist	16.32
23000 - Mechanics and Maintenance and Repair Occupations	
23010 - Aircraft Mechanic	22.24
23040 - Aircraft Mechanic Helper	17.67
23050 - Aircraft Quality Control Inspector	22.94
23060 - Aircraft Servicer	19.96
23070 - Aircraft Worker	20.89
23100 - Appliance Mechanic	19.42
23120 - Bicycle Repairer	14.81
23125 - Cable Splicer	25.05
23130 - Carpenter, Maintenance	21.23
23140 - Carpet Layer	20.46
23160 - Electrician, Maintenance	25.67
23181 - Electronics Technician, Maintenance I	20.74
23182 - Electronics Technician, Maintenance II	23.58
23183 - Electronics Technician, Maintenance III	25.30
23260 - Fabric Worker	18.55
23290 - Fire Alarm System Mechanic	19.80
23310 - Fire Extinguisher Repairer	18.43
23340 - Fuel Distribution System Mechanic	21.78
23370 - General Maintenance Worker	16.91
23400 - Heating, Refrigeration and Air Conditioning Mechanic	18.98
23430 - Heavy Equipment Mechanic	22.62
23440 - Heavy Equipment Operator	24.07
23460 - Instrument Mechanic	22.62
23470 - Laborer	11.17
23500 - Locksmith	19.24
23530 - Machinery Maintenance Mechanic	21.61
23550 - Machinist, Maintenance	19.43
23580 - Maintenance Trades Helper	12.47
23640 - Millwright	21.74
23700 - Office Appliance Repairer	21.16
23740 - Painter, Aircraft	18.88
23760 - Painter, Maintenance	17.45
23790 - Pipefitter, Maintenance	24.16
23800 - Plumber, Maintenance	21.88

23820 - Pneudraulic Systems Mechanic	21.90
23850 - Rigger	20.32
23870 - Scale Mechanic	20.30
23890 - Sheet-Metal Worker, Maintenance	21.53
23910 - Small Engine Mechanic	17.99
23930 - Telecommunication Mechanic I	19.80
23931 - Telecommunication Mechanic II	22.45
23950 - Telephone Lineman	19.80
23960 - Welder, Combination, Maintenance	18.00
23965 - Well Driller	21.78
23970 - Woodcraft Worker	21.90
23980 - Woodworker	16.91
24000 - Personal Needs Occupations	
24570 - Child Care Attendant	10.33
24580 - Child Care Center Clerk	13.41
24600 - Chore Aid	10.08
24630 - Homemaker	14.91
25000 - Plant and System Operation Occupations	
25010 - Boiler Tender	20.49
25040 - Sewage Plant Operator	23.68
25070 - Stationary Engineer	20.49
25190 - Ventilation Equipment Tender	15.89
25210 - Water Treatment Plant Operator	23.68
27000 - Protective Service Occupations	
(not set) - Police Officer	24.27
27004 - Alarm Monitor	17.34
27006 - Corrections Officer	20.71
27010 - Court Security Officer	23.51
27040 - Detention Officer	23.51
27070 - Firefighter	25.24
27101 - Guard I	9.35
27102 - Guard II	13.68
28000 - Stevedoring/Longshoremen Occupations	
28010 - Blocker and Bracer	20.66
28020 - Hatch Tender	20.66
28030 - Line Handler	20.66
28040 - Stevedore I	20.19
28050 - Stevedore II	21.57
29000 - Technical Occupations	
21150 - Graphic Artist	21.29
29010 - Air Traffic Control Specialist, Center (2)	31.66
29011 - Air Traffic Control Specialist, Station (2)	21.83
29012 - Air Traffic Control Specialist, Terminal (2)	24.05
29023 - Archeological Technician I	18.88
29024 - Archeological Technician II	21.10
29025 - Archeological Technician III	26.14
29030 - Cartographic Technician	24.74
29035 - Computer Based Training (CBT) Specialist/ Instructor	27.62
29040 - Civil Engineering Technician	23.08
29061 - Drafter I	15.03
29062 - Drafter II	16.87
29063 - Drafter III	19.04
29064 - Drafter IV	23.59
29081 - Engineering Technician I	15.93
29082 - Engineering Technician II	17.87
29083 - Engineering Technician III	20.17
29084 - Engineering Technician IV	24.99
29085 - Engineering Technician V	30.56
29086 - Engineering Technician VI	36.96
29090 - Environmental Technician	20.86
29100 - Flight Simulator/Instructor (Pilot)	30.58
29160 - Instructor	26.63
29210 - Laboratory Technician	18.55
29240 - Mathematical Technician	21.90
29361 - Paralegal/Legal Assistant I	18.10
29362 - Paralegal/Legal Assistant II	20.39
29363 - Paralegal/Legal Assistant III	22.62
29364 - Paralegal/Legal Assistant IV	24.43
29390 - Photooptics Technician	21.52
29480 - Technical Writer	23.90
29491 - Unexploded Ordnance (UXO) Technician I	20.12
29492 - Unexploded Ordnance (UXO) Technician II	24.35
29493 - Unexploded Ordnance (UXO) Technician III	29.18
29494 - Unexploded (UXO) Safety Escort	20.12
29495 - Unexploded (UXO) Sweep Personnel	20.12
29620 - Weather Observer, Senior (3)	20.86
29621 - Weather Observer, Combined Upper Air and Surface Programs (3)	17.84

29622 - Weather Observer, Upper Air (3)	17.84
31000 - Transportation/ Mobile Equipment Operation Occupations	
31030 - Bus Driver	16.85
31260 - Parking and Lot Attendant	8.95
31290 - Shuttle Bus Driver	13.28
31300 - Taxi Driver	10.57
31361 - Truckdriver, Light Truck	13.28
31362 - Truckdriver, Medium Truck	17.80
31363 - Truckdriver, Heavy Truck	18.69
31364 - Truckdriver, Tractor-Trailer	18.69
99000 - Miscellaneous Occupations	
99020 - Animal Caretaker	11.73
99030 - Cashier	10.13
99041 - Carnival Equipment Operator	11.56
99042 - Carnival Equipment Repairer	11.98
99043 - Carnival Worker	8.83
99050 - Desk Clerk	10.80
99095 - Embalmer	22.36
99300 - Lifeguard	10.57
99310 - Mortician	22.36
99350 - Park Attendant (Aide)	13.28
99400 - Photofinishing Worker (Photo Lab Tech., Darkroom Tech)	11.06
99500 - Recreation Specialist	14.11
99510 - Recycling Worker	16.94
99610 - Sales Clerk	12.84
99620 - School Crossing Guard (Crosswalk Attendant)	15.02
99630 - Sport Official	10.57
99658 - Survey Party Chief (Chief of Party)	27.75
99659 - Surveying Technician (Instr. Person/Surveyor Asst./Instr.)	22.18
99660 - Surveying Aide	16.19
99690 - Swimming Pool Operator	12.62
99720 - Vending Machine Attendant	13.20
99730 - Vending Machine Repairer	16.85
99740 - Vending Machine Repairer Helper	14.41

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**ALL OCCUPATIONS LISTED ABOVE RECEIVE THE FOLLOWING BENEFITS:**

**HEALTH & WELFARE:** \$2.59 an hour or \$103.60 a week or \$448.93 a month

**VACATION:** 2 weeks paid vacation after 1 year of service with a contractor or successor; 3 weeks after 5 years, and 4 weeks after 15 years. Length of service includes the whole span of continuous service with the present contractor or successor, wherever employed, and with the predecessor contractors in the performance of similar work at the same Federal facility. (Reg. 29 CFR 4.173)

**HOLIDAYS:** A minimum of ten paid holidays per year: New Year's Day, Martin Luther King Jr.'s Birthday, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day, and Christmas Day. (A contractor may substitute for any of the named holidays another day off with pay in accordance with a plan communicated to the employees involved.) (See 29 CFR 4.174)

**THE OCCUPATIONS WHICH HAVE PARENTHESES AFTER THEM RECEIVE THE FOLLOWING BENEFITS (as numbered):**

1) Does not apply to employees employed in a bona fide executive, administrative, or professional capacity as defined and delineated in 29 CFR 541. (See CFR 4.156)  
 2) **APPLICABLE TO AIR TRAFFIC CONTROLLERS ONLY - NIGHT DIFFERENTIAL:** An employee is entitled to pay for all work performed between the hours of 6:00 P.M. and 6:00 A.M. at the rate of basic pay plus a night pay differential amounting to 10 percent of the rate of basic pay.

3) **WEATHER OBSERVERS - NIGHT PAY & SUNDAY PAY:** If you work at night as part of a regular tour of duty, you will earn a night differential and receive an additional 10% of basic pay for any hours worked between 6pm and 6am. If you are a full-time employed (40 hours a week) and Sunday is part of your regularly scheduled workweek, you are paid at your rate of basic pay plus a Sunday premium of 25% of your basic rate for each hour of Sunday work which is not overtime (i.e. occasional work on Sunday outside the normal tour of duty is considered overtime work).

**HAZARDOUS PAY DIFFERENTIAL:** An 8 percent differential is applicable to employees employed in a position that represents a high degree of hazard when working with or in close proximity to ordnance, explosives, and incendiary materials. This includes work such as screening, blending, dying, mixing, and pressing of sensitive ordnance, explosives, and pyrotechnic compositions such as lead azide, black powder and photoflash powder. All dry-house activities involving propellants or explosives. Demilitarization, modification, renovation, demolition, and maintenance operations on sensitive ordnance, explosives and incendiary materials. All operations involving regrading and cleaning of artillery ranges.

A 4 percent differential is applicable to employees employed in a position that represents a low degree of hazard when working with, or in close proximity to ordnance, (or employees possibly adjacent to) explosives and incendiary materials which involves potential injury such as laceration of hands, face, or arms of the employee engaged in the operation, irritation of the skin, minor burns and the like; minimal damage to immediate or adjacent work area or equipment being used. All

operations involving, unloading, storage, and hauling of ordnance, explosive, and incendiary ordnance material other than small arms ammunition. These differentials are only applicable to work that has been specifically designated by the agency for ordnance, explosives, and incendiary material differential pay.

**\*\* UNIFORM ALLOWANCE \*\***

If employees are required to wear uniforms in the performance of this contract (either by the terms of the Government contract, by the employer, by the state or local law, etc.), the cost of furnishing such uniforms and maintaining (by laundering or dry cleaning) such uniforms is an expense that may not be borne by an employee where such cost reduces the hourly rate below that required by the wage determination. The Department of Labor will accept payment in accordance with the following standards as compliance:

The contractor or subcontractor is required to furnish all employees with an adequate number of uniforms without cost or to reimburse employees for the actual cost of the uniforms. In addition, where uniform cleaning and maintenance is made the responsibility of the employee, all contractors and subcontractors subject to this wage determination shall (in the absence of a bona fide collective bargaining agreement providing for a different amount, or the furnishing of contrary affirmative proof as to the actual cost), reimburse all employees for such cleaning and maintenance at a rate of \$3.35 per week (or \$.67 cents per day). However, in those instances where the uniforms furnished are made of "wash and wear" materials, may be routinely washed and dried with other personal garments, and do not require any special treatment such as dry cleaning, daily washing, or commercial laundering in order to meet the cleanliness or appearance standards set by the terms of the Government contract, by the contractor, by law, or by the nature of the work, there is no requirement that employees be reimbursed for uniform maintenance costs.

**\*\* NOTES APPLYING TO THIS WAGE DETERMINATION \*\***

Under the policy and guidance contained in All Agency Memorandum No. 159, the Wage and Hour Division does not recognize, for section 4(c) purposes, prospective wage rates and fringe benefit provisions that are effective only upon such contingencies as "approval of Wage and Hour, issuance of a wage determination, incorporation of the wage determination in the contract, adjusting the contract price, etc." (The relevant CBA section) in the collective bargaining agreement between (the parties) contains contingency language that Wage and Hour does not recognize as reflecting "arm's length negotiation" under section 4(c) of the Act and 29 C.F.R. 5.11(a) of the regulations. This wage determination therefore reflects the actual CBA wage rates and fringe benefits paid under the predecessor contract.

Source of Occupational Title and Descriptions:

The duties of employees under job titles listed are those described in the "Service Contract Act Directory of Occupations," Fourth Edition, January 1993, as amended by the Third Supplement, dated March 1997, unless otherwise indicated. This publication may be obtained from the Superintendent of Documents, at 202-783-3238, or by writing to the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Copies of specific job descriptions may also be obtained from the appropriate contracting officer.

REQUEST FOR AUTHORIZATION OF ADDITIONAL CLASSIFICATION AND WAGE RATE {Standard Form 1444 (SF 1444)}

Conformance Process:

The contracting officer shall require that any class of service employee which is not listed herein and which is to be employed under the contract (i.e., the work to be performed is not performed by any classification listed in the wage determination), be classified by the contractor so as to provide a reasonable relationship (i.e., appropriate level of skill comparison) between such unlisted classifications and the classifications listed in the wage determination. Such conformed classes of employees shall be paid the monetary wages and furnished the fringe benefits as are determined. Such conforming process shall be initiated by the contractor prior to the performance of contract work by such unlisted class(es) of employees. The conformed classification, wage rate, and/or fringe benefits shall be retroactive to the commencement date of the contract. {See Section 4.6 (C)(vi)} When multiple wage determinations are included in a contract, a separate SF 1444 should be prepared for each wage determination to which a class(es) is to be conformed.

The process for preparing a conformance request is as follows:

- 1) When preparing the bid, the contractor identifies the need for a conformed (occupation) and computes a proposed rate).
- 2) After contract award, the contractor prepares a written report listing in order (proposed classification title), a Federal grade equivalency (FGE) for each (proposed classification), job description), and rationale for proposed wage rate), including information regarding the agreement or disagreement of the authorized representative of the employees involved, or where there is no authorized representative, the employees themselves. This report should be submitted to the contracting officer no later than 30 days after such unlisted class(es) of employees performs any contract work.
- 3) The contracting officer reviews the proposed action and promptly submits a report of the action, together with the agency's recommendations and pertinent information including the position of the contractor and the employees, to the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor,

for review. (See section 4.6(b)(2) of Regulations 29 CFR Part 4).

4) Within 30 days of receipt, the Wage and Hour Division approves, modifies, or disapproves the action via transmittal to the agency contracting officer, or notifies the contracting officer that additional time will be required to process the request.

5) The contracting officer transmits the Wage and Hour decision to the contractor.

6) The contractor informs the affected employees.

Information required by the Regulations must be submitted on SF 1444 or bond paper. When preparing a conformance request, the "Service Contract Act Directory of Occupations" (the Directory) should be used to compare job definitions to insure that duties requested are not performed by a classification already listed in the wage determination. Remember, it is not the job title, but the required tasks that determine whether a class is included in an established wage determination. Conformances may not be used to artificially split, combine, or subdivide classifications listed in the wage determination.

#### CLAUSES INCORPORATED BY REFERENCE

52.212-4 Contract Terms and Conditions--Commercial Items OCT 2003

#### CLAUSES INCORPORATED BY FULL TEXT

52.212-5 CONTRACT TERMS AND CONDITIONS REQUIRED TO IMPLEMENT STATUTES OR EXECUTIVE ORDERS--COMMERCIAL ITEMS (JUN 2004)

(a) The Contractor shall comply with the following Federal **Acquisition Regulation** (FAR) clause, which is incorporated in this contract by reference, to implement provisions of law or Executive orders applicable to acquisitions of commercial items: 52.233-3, Protest after Award (AUG 1996) (31 U.S.C. 3553).

(b) The Contractor shall comply with the FAR clauses in this paragraph (b) that the Contracting Officer has indicated as being incorporated in this contract by reference to implement provisions of law or Executive orders applicable to acquisitions of commercial items: (Contracting Officer check as appropriate.)

\_\_\_ (1) 52.203-6, Restrictions on Subcontractor Sales to the Government (JUL 1995), with Alternate I (OCT 1995) (41 U.S.C. 253g and 10 U.S.C. 2402).

\_\_\_ (2) 52.219-3, Notice of HUBZone Small Business Set-Aside (Jan 1999) (U.S.C. 657a).

\_\_\_ (3) 52.219-4, Notice of Price Evaluation Preference for HUBZone Small Business Concerns (Jan 1999) (if the offeror elects to waive the preference, it shall so indicate in its offer) (U.S.C. 657a).

\_\_\_(4) (i) 52.219-5, Very Small Business Set-Aside (JUNE 2003) (Pub. L. 103-403, section 304, Small Business Reauthorization and Amendments Act of 1994).

\_\_\_(ii) Alternate I (MAR 1999) to 52.219-5.

\_\_\_(iii) Alternate II to (JUNE 2003) 52.219-5.

\_\_\_ (5)(i) 52.219-6, Notice of Total Small Business Set-Aside (JUNE 2003) (15 U.S.C. 644).

\_\_\_ (ii) Alternate I (OCT 1995) of 52.219-6.

- \_\_\_ (iii) Alternate II (MAR 2004) of 52.219-6.
- \_\_\_ (6)(i) 52.219-7, Notice of Partial Small Business Set-Aside (JUNE 2003) (15 U.S.C. 644).
- \_\_\_ (ii) Alternate I (OCT 1995) of 52.219-7.
- \_\_\_ (iii) Alternate II (MAR 2004) of 52.219-7.
- \_\_\_ (7) 52.219-8, Utilization of Small Business Concerns (MAY 2004) (15 U.S.C. 637 (d)(2) and (3)).
- \_\_\_ (8)(i) 52.219-9, Small Business Subcontracting Plan (JAN 2002) (15 U.S.C. 637(d)(4)).
- \_\_\_ (ii) Alternate I (OCT 2001) of 52.219-9
- \_\_\_ (iii) Alternate II (OCT 2001) of 52.219-9.
- \_\_\_ (9) 52.219-14, Limitations on Subcontracting (DEC 1996) (15 U.S.C. 637(a)(14)).
- \_\_\_ (10)(i) 52.219-23, Notice of Price Evaluation Adjustment for Small Disadvantaged Business Concerns (JUNE 2003) (Pub. L. 103-355, section 7102, and 10 U.S.C. 2323) (if the offeror elects to waive the adjustment, it shall so indicate in its offer).
- \_\_\_ (ii) Alternate I (JUNE 2003) of 52.219-23.
- XX (11) 52.219-25, Small Disadvantaged Business Participation Program--Disadvantaged Status and Reporting (OCT 1999) (Pub. L. 103-355, section 7102, and 10 U.S.C. 2323).
- XX (12) 52.219-26, Small Disadvantaged Business Participation Program--Incentive Subcontracting (OCT 2000) (Pub. L. 103-355, section 7102, and 10 U.S.C. 2323).
- XX (13) 52.219-27, Notice of Total Service-Disabled Veteran-Owned Small Business Set-Aside (May 2004).
- XX (14) 52.222-3, Convict Labor (JUNE 2003) (E.O. 11755).
- \_\_\_ (15) 52.222-19, Child Labor--Cooperation with Authorities and Remedies (Jun 2004) (E.O. 13126).
- \_\_\_ (16) 52.222-21, Prohibition of Segregated Facilities (FEB 1999).
- \_\_\_ (17) 52.222-26, Equal Opportunity (APR 2002) (E.O. 11246).
- \_\_\_ (18) 52.222-35, Equal Opportunity for Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (DEC 2001) (38 U.S.C. 4212).
- \_\_\_ (19) 52.222-36, Affirmative Action for Workers with Disabilities (JUN 1998) (29 U.S.C. 793).
- \_\_\_ (20) 52.222-37, Employment Reports on Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (DEC 2001) (38 U.S.C. 4212).
- \_\_\_ (21)(i) 52.223-9, Estimate of Percentage of Recovered Material Content for EPA-Designated Products (AUG 2000) (42 U.S.C. 6962(c)(3)(A)(ii)).
- \_\_\_ (ii) Alternate I (AUG 2000) of 52.223-9 (42 U.S.C. 6962(i)(2)(C)).

\_\_\_ (22) 52.225-1, Buy American Act--Supplies (JUNE 2003) (41 U.S.C. 10a-10d).

\_\_\_ (23)(i) 52.225-3, Buy American Act--Free Trade Agreements--Israeli Trade Act (JAN 2004) (41 U.S.C. 10a-10d, 19 U.S.C. 3301 note, 19 U.S.C. 2112 note, Pub. L. 108-77, 108-78).

\_\_\_ (ii) Alternate I (JAN 2004) of 52.225-3.

\_\_\_ (iii) Alternate II (JAN 2004) of 52.225-3.

XX (24) 52.225-5, Trade Agreements (Jun 2004) (19 U.S.C. 2501, et seq., 19 U.S.C. 3301 note).

\_\_\_ (25) 52.225-13, Restrictions on Certain Foreign Purchases (OCT 2003) (E.o.s, proclamations, and statutes administered by the Office of Foreign Assets Control of the Department of Treasury).

\_\_\_ (26) 52.225-15, Sanctioned European Union Country End Products (FEB 2000) (E.O. 12849).

\_\_\_ (27) 52.225-16, Sanctioned European Union Country Services (FEB 2000) (E.O. 12849).

\_\_\_ (28) 52.232-29, Terms for Financing of Purchases of Commercial Items (FEB 2002) (41 U.S.C. 255(f), 10 U.S.C. 2307(f)).

\_\_\_ (29) 52.232-30, Installment Payments for Commercial Items (OCT 1995) (41 U.S.C. 255(f), 10 U.S.C. 2307(f)).

\_\_\_ (30) 52.232-33, Payment by Electronic Funds Transfer--Central Contractor Registration (OCT 2003) (31 U.S.C. 3332).

\_\_\_ (31) 52.232-34, Payment by Electronic Funds Transfer--Other than Central Contractor Registration (MAY 1999) (31 U.S.C. 3332).

\_\_\_ (32) 52.232-36, Payment by Third Party (MAY 1999) (31 U.S.C. 3332).

\_\_\_ (33) 52.239-1, Privacy or Security Safeguards (AUG 1996) (5 U.S.C. 552a).

\_\_\_ (34)(i) 52.247-64, Preference for Privately Owned U.S.-Flag Commercial Vessels (APR 2003) (46 U.S.C. Appx 1241 and 10 U.S.C. 2631).

\_\_\_ (ii) Alternate I (APR 1984) of 52.247-64.

(c) The Contractor shall comply with the FAR clauses in this paragraph (c), applicable to commercial services, that the Contracting Officer has indicated as being incorporated in this contract by reference to implement provisions of law or Executive orders applicable to acquisitions of commercial items: [Contracting Officer check as appropriate.]

XX (1) 52.222-41, Service Contract Act of 1965, as Amended (MAY 1989) (41 U.S.C. 351, et seq.).

XX \_ (2) 52.222-42, Statement of Equivalent Rates for Federal Hires (MAY 1989) (29 U.S.C. 206 and 41 U.S.C. 351, et seq.).

XX (3) 52.222-43, Fair Labor Standards Act and Service Contract Act--Price Adjustment (Multiple Year and Option Contracts) (MAY 1989) (29 U.S.C. 206 and 41 U.S.C. 351, et seq.).

XX (4) 52.222-44, Fair Labor Standards Act and Service Contract Act--Price Adjustment (February 2002) (29 U.S.C. 206 and 41 U.S.C. 351, et seq.).

XX (5) 52.222-47, SCA Minimum Wages and Fringe Benefits Applicable to Successor Contract Pursuant to Predecessor Contractor Collective Bargaining Agreements (CBA) (May 1989) (41 U.S.C. 351, et seq.).

(d) Comptroller General Examination of Record. The Contractor shall comply with the provisions of this paragraph (d) if this contract was awarded using other than sealed bid, is in excess of the simplified acquisition threshold, and does not contain the clause at 52.215-2, Audit and Records--Negotiation.

(1) The Comptroller General of the United States, or an authorized representative of the Comptroller General, shall have access to and right to examine any of the Contractor's directly pertinent records involving transactions related to this contract.

(2) The Contractor shall make available at its offices at all reasonable times the records, materials, and other evidence for examination, audit, or reproduction, until 3 years after final payment under this contract or for any shorter period specified in FAR Subpart 4.7, Contractor Records Retention, of the other clauses of this contract. If this contract is completely or partially terminated, the records relating to the work terminated shall be made available for 3 years after any resulting final termination settlement. Records relating to appeals under the disputes clause or to litigation or the settlement of claims arising under or relating to this contract shall be made available until such appeals, litigation, or claims are finally resolved.

(3) As used in this clause, records include books, documents, accounting procedures and practices, and other data, regardless of type and regardless of form. This does not require the Contractor to create or maintain any record that the Contractor does not maintain in the ordinary course of business or pursuant to a provision of law.

(e) (1) Notwithstanding the requirements of the clauses in paragraphs (a), (b), (c), and (d) of this clause, the Contractor is not required to flow down any FAR clause, other than those in paragraphs (i) through (vi) of this paragraph in a subcontract for commercial items. Unless otherwise indicated below, the extent of the flow down shall be as required by the clause--

(i) 52.219-8, Utilization of Small Business Concerns (May 2004) (15 U.S.C. 637(d)(2) and (3)), in all subcontracts that offer further subcontracting opportunities. If the subcontract (except subcontracts to small business concerns) exceeds \$500,000 (\$1,000,000 for construction of any public facility), the subcontractor must include 52.219-8 in lower tier subcontracts that offer subcontracting opportunities.

(ii) 52.222-26, Equal Opportunity (April 2002) (E.O. 11246).

(iii) 52.222-35, Equal Opportunity for Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (December 2001) (38 U.S.C. 4212).

(iv) 52.222-36, Affirmative Action for Workers with Disabilities (June 1998) (29 U.S.C. 793).

(v) 52.222-41, Service Contract Act of 1965, as Amended (May 1989), flow down required for all subcontracts subject to the Service Contract Act of 1965 (41 U.S.C. 351, et seq.).

(vi) 52.247-64, Preference for Privately Owned U.S.-Flag Commercial Vessels (April 2003) (46 U.S.C. Appx 1241 and 10 U.S.C. 2631). Flow down required in accordance with paragraph (d) of FAR clause 52.247-64.

(2) While not required, the contractor May include in its subcontracts for commercial items a minimal number of additional clauses necessary to satisfy its contractual obligations.

(End of clause)

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://www.arnet.gov/far> or <http://farsite.hill.af.mil>

<http://www.acq.osd.mil/dp/dars/dfars.html>

(End of clause)