

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE	PAGE OF PAGES	
				J	1	2
2. AMENDMENT/MODIFICATION NO. 0003		3. EFFECTIVE DATE 05-Mar-2004	4. REQUISITION/PURCHASE REQ. NO. W68MD9-3301-4756		5. PROJECT NO.(If applicable)	
6. ISSUED BY USA ENGINEER DISTRICT, SEATTLE ATTN: CENWS-CT 4735 EAST MARGINAL WAY SOUTH SEATTLE WA 98134-2329		CODE W912DW	7. ADMINISTERED BY (If other than item 6)  <b>See Item 6</b>		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)				X	9A. AMENDMENT OF SOLICITATION NO. W912DW-04-R-0008	
				X	9B. DATED (SEE ITEM 11) 11-Feb-2004	
					10A. MOD. OF CONTRACT/ORDER NO.	
					10B. DATED (SEE ITEM 13)	
CODE		FACILITY CODE				
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS						
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input checked="" type="checkbox"/> is not extended.						
<p>Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods:</p> <p>(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.</p>						
12. ACCOUNTING AND APPROPRIATION DATA (If required)						
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.						
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.						
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).						
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:						
D. OTHER (Specify type of modification and authority)						
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.						
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) Solicitation No. W912DW-04-R-0008 Amendment No. R0003  Title: Replace Housing, Phase IV, Malmstrom AFB, Montana.  <p style="text-align: center;">SEE CONTINUATION PAGE</p>						
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.						
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)		
				TEL:	EMAIL:	
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED	16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
_____ (Signature of person authorized to sign)			BY _____ (Signature of Contracting Officer)		05-Mar-2004	

## SECTION SF 30 BLOCK 14 CONTINUATION PAGE

Amendment No. R0003 to Solicitation No. W912DW-04-R-0008, entitled "Replace Housing, Phase IV, Malmstrom AFB, Montana."

A. This amendment provides for the following changes:

- 1) Page 1 of the Standard Form 1442 SOLICITATION, OFFER, AND AWARD (00010-1) has been revised and is replaced in its entirety.
- 2) The Bid Schedule has been revised and replaced in its entirety.
- 3) Section 00800 Special Clauses has been revised and replaced in its entirety.
- 4) The following Updated Davis -Bacon General Wage Decisions are hereby incorporated into the Solicitation: MT20030001 (Heavy) - All work more than 5 feet (1.5 meters) from the perimeter of a building shall be performed under this wage decision.
- 5) The following sections have been revised and rereplaced in their entirety.
  - A) Revised SECTION 01025 Measurement and Payment
  - B) Revised SECTION 02220 Demolition
  - C) Revised SECTION 02316 Excavation, Trenching and Backfilling
- 6) Plans (drawings) have been revised and are replaced in their entirety.  
See the attached "Index of Drawing (PLAN) Changes" for greater details.

B. The attached revised specification sections supersede and replace the corresponding specification sections. Specification changes are generally identified, for convenience, by strikeout for deletions, and underlining of text for additions. All portions of the revised or new pages shall apply whether or not changes have been indicated.

**C. THE PROPOSAL DUE DATE AND TIME HAS NOT BEEN CHANGED, 2:00 PM (PDT), March 15, 2004.**

D. NOTICE TO OFFERORS: Offerors must acknowledge receipt of this amendment by number and date on Standard Form 1442, BACK, Block 19, or by telegram.

E. All Technical Amendments are available for download this date on the Army Corps of Engineers website at <http://www.nws.usace.army.mil/ct/>.

F. All other terms and conditions of the solicitation remain unchanged.

Enclosures

- 1) Revised Standard Form 1442 SOLICITATION, OFFER, AND AWARD
- 2) Revised Bid Schedule
- 3) Revised Section 00800 Special Clauses
- 4) Updated Davis -Bacon General Wage Decision MT20030001 (Heavy)
- 5) Revised Section 01025 Measurement and Payment
- 6) Revised Section 02220 Demolition
- 7) Revised Section 02316 Excavation, Trenching and Backfilling for Utilities Systems
- 8) Index of Drawing (PLAN) Changes 02316 Excavation, Trenching and Backfilling

<b>SOLICITATION, OFFER, AND AWARD</b> <i>(Construction, Alteration, or Repair)</i>	1. SOLICITATION NUMBER  W912DW-04-R-0008	2. TYPE OF SOLICITATION  <input type="checkbox"/> SEALED BID (IFB) <input checked="" type="checkbox"/> NEGOTIATED (RFP)	3. DATE ISSUED  20 August 2003	PAGE OF PAGES  1
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**IMPORTANT - The "offer" section on the reverse must be fully completed by the offeror.**

4. CONTRACT NUMBER	5. REQUISITION/PURCHASE REQUEST NUMBER W68MD9-3301-4756	6. PROJECT NUMBER
7. ISSUED BY Seattle District, Corps of Engineers ATTN: CENWS-CT-CB-MU PO Box 3755 Seattle, WA 98124-3755	CODE W912DW	8. ADDRESS OFFER TO Seattle District, Corps of Engineers PO Box 3755 ATTN: CENWS-CT-CB-MU Seattle, WA 98124-3755  HAND CARRY: Seattle District Corps of Engineers Contracting Division 4735 East Marginal Way South Seattle, WA 98134-2329
9. FOR INFORMATION CALL	A. NAME See Information Page inside Front Cover	B. TELEPHONE NUMBER (Include area code) (NO COLLECT CALLS) See Information Page inside Front Cover

**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 number, date):  
Furnish all labor, materials and equipment and perform all work for Replace Family Housing, Phase IV, Malmstrom AFB, MT in accordance with the attached Contract Clauses, Special Clauses, Technical Specifications and Drawings.

NOTE: Award will be made pursuant to the Small Business Competitive Demonstration Program

11. The Contractor shall begin performance within <u>10</u> calendar days and complete it within _____ calendar days after receiving <input type="checkbox"/> award, <input checked="" type="checkbox"/> notice to proceed. This performance period is <input checked="" type="checkbox"/> mandatory, <input type="checkbox"/> negotiable. (See * Paragraph SC-1, 00800 .)	12B. CALENDAR DAYS  10
12A. THE CONTRACTOR MUST FURNISH ANY REQUIRED PERFORMANCE PAYMENT BONDS? (If "YES," indicate within how many calendar days after award in Item 12B.) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	

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 2:00 p.m. (hour) local time 15 March 2004 (date). If this is a sealed bid solicitation, offers will be publicly opened at that time. Sealed envelope 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 90 calendar days for Government acceptance after the date offers are due will not be considered and will be rejected.

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**BID SCHEDULE**REPLACE FAMILY HOUSING, PHASE IV

<u>Item No.</u>	<u>Description of Item</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>
	<b><u>BASE ITEMS</u></b>				
0001	Demolish Buildings and Concrete Structures Including Basements, Slabs, Footings and Porches on Cedar, Birch and Aspen Streets as Indicated.	1	JOB	L.S.	\$_____
0002	All Work for Construction of Buildings on Cedar, Birch and Aspen Streets within a line 5 feet outside of the Building Exterior Walls:				
0002AA	Construct Buildings, Unit Type 2J, 16 Buildings (Bldgs. 418/420, 422/424, 500/502, 501/503, 504/506, 505/507, 508/510, 509/511, 600/602, 601/603, 604/606, 605/607, 608/610, 609/611, 612/614, 701/703 on Cedar St.)	1	JOB	L.S.	\$_____
0002AB	Construct Buildings, Unit Type 2C, 2 Buildings (Bldgs. 700/702, 704/706 on Cedar St.)	1	JOB	L.S.	\$_____
0002AC	Construct Buildings, Unit Type 4C, 23 Buildings (Bldgs. 705/707, 708/710 on Cedar St.) <del>(Bldg. 800/802 on Birch St.)</del>	1	JOB	L.S.	\$_____
0002AD	Construct Buildings, Unit Type 3C, 124 Buildings (Bldgs. 709/711, 712/714, 713/715, 800/802, 801/803, 804/806, 805/807, 808/810, 809/811, 812/814, on Cedar St.) (Bldgs. 700/702 and 708/710 on Birch St.)	1	JOB	L.S.	\$_____
0002AE	Construct Buildings, Unit Type 4SO, 6 Buildings (Bldgs. 700, 701, 702, 703, 704, 705 on Aspen St.)	1	JOB	L.S.	\$_____
0002AF	Construct Building, Unit Type 4SO-MAX, 1 Bldg. (Bldg. 706 on Aspen St.)	1	JOB	L.S.	\$_____
0002AG	Construct Building, Unit Type 4SO-CV, 1 Bldg. (Bldg. 708 on Aspen St.)	1	JOB	L.S.	\$_____
0003	Provide Sitework and Utilities for Base Items 0002AA through 0002AG, except for Item 0022	1	JOB	L.S.	\$_____
0004	All Work for As-Built Drawings as Specified in Section 01702 from Preparation to Final Approval for Base Items and any Optional Items Exercised	1	JOB	L.S.	\$15,000
0005	All Work for O&M Manuals as Specified in Section 01701 from Preparation to Final Approval for Base Items and any Optional Items Exercised	1	JOB	L.S.	\$10,000

<u>Item No.</u>	<u>Description of Item</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>
0006	All Work for Form 1354 Checklist and Equipment in Place List as Specified in Sections 01704 and 01705 from Preparation to Final Approval for Base Items and any Optional Items Exercised	1	JOB	L.S.	\$ 6,000
TOTAL BASE ITEMS					\$_____
<u>OPTIONAL ITEMS</u>					
0007	Demolish Concrete Structures Including Basements, Slabs, Footings, Porches, Sidewalks and Driveways up to the curb and gutter on Dogwood Street as Indicated (curbs and gutters demolished in Item 0016)	1	JOB	L.S.	\$_____
0008	Construct Buildings, Unit Type 4J, 2 Buildings (Bldgs. 405/407, 509/511) on Dogwood St. within a line 5 feet outside of the building exterior walls and Sitework (If this item is exercised, Optional Item 0012 WILL NOT be exercised)	1	JOB	L.S.	\$_____
0009	Construct Buildings, Unit Type 3C-HC, 2 Buildings (Bldgs. 401/403, 513/515) on Dogwood St. within a line 5 feet outside of the building exterior walls and Sitework (If this item is exercised, Optional Item 0013 WILL NOT be exercised)	1	JOB	L.S.	\$_____
0010	Construct Buildings, Unit Type 3J, 4 Buildings (Bldgs. 408/410, 500/502, 504/506, 508/510) on Dogwood St. within a line 5 feet outside of the building exterior walls and Sitework (If this item is exercised, Optional Item 0014 WILL NOT be exercised)	1	JOB	L.S.	\$_____
0011	Construct Buildings, Unit Type 3J, 3 Buildings (Bldgs. 404/406, 501/503, 505/507) on Dogwood St. within a line 5 feet outside of the building exterior walls and Sitework (If this item is exercised, Optional Item 0015 WILL NOT be exercised)	1	JOB	L.S.	\$_____
0012	Backfill with material from on-base borrow site, Compact, Finish and Fine Grade, Topsoil and Seeding, as indicated (to cover excavation from demolition of buildings located at site of Item 0008 construction)	1	JOB	L.S.	\$_____
0013	Backfill with material from on-base borrow site, Compact, Finish and Fine Grade, Topsoil and Seeding, as indicated (to cover excavation from demolition of buildings located at site of Item 0009 construction)	1	JOB	L.S.	\$_____
0014	Backfill with material from on-base borrow site, Compact, Finish Grading and Landscaping, as indicated (to cover excavation from demolition of buildings located at site of Item 0010 construction)	1	JOB	L.S.	\$_____
<u>Item No.</u>	<u>Description of Item</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>

0015	Backfill with material from on-base borrow site, Compact, Finish and Fine Grade, Topsoil and Seeding, as indicated (to cover excavation from demolition of buildings located at site of Item 0011 construction)	1	JOB	L.S.	\$_____
0016	Provide Utilities from a line 5 feet outside of the building exterior walls and Other Sitework for Optional Items 0008 through 0011	1	JOB	L.S.	\$_____
0017	Install Grade Beam and Pier Foundation in lieu of spread footings for buildings constructed under Base Items 0002AA through 0002AD	1	JOB	L.S.	\$_____
0018	Install Grade Beam and Pier Foundation in lieu of spread footings for buildings constructed under Option Item 0008	1	JOB	L.S.	\$_____
0019	Install Grade Beam and Pier Foundation in lieu of spread footings for buildings constructed under Option Item 0009	1	JOB	L.S.	\$_____
0020	Install Grade Beam and Pier Foundation for buildings constructed under Option Item 0010 in lieu of spread footings	1	JOB	L.S.	\$_____
0021	Install Grade Beam and Pier Foundation in lieu of spread footings for buildings constructed under Option Item 0011	1	JOB	L.S.	\$_____
0022	Additional Landscaping for Base Items 0002AA through 0002AE	1	JOB	L.S.	\$_____
0023	Install Fencing and Gates for Buildings Constructed under Items 0002AA through 0002AD on Cedar and Birch Streets, on the Northeast side of 70 <sup>th</sup> St. N.	1	JOB	L.S.	\$_____
0024	Install Fencing and Gates for Buildings Constructed under Items 0002AA through 0002AD on Cedar Street, on the Southwest side of of 70 <sup>th</sup> St. N.	1	JOB	L.S.	\$_____
0025	Install Fencing for Buildings Constructed under Items 0008 through 0011 (see Note 3)	2900	LF	\$_____	\$_____
0026	Install Personnel Gates for Buildings constructed under Items 0008 through 0011 (see Note 3)	22	EA	\$_____	\$_____
0027	Install Vehicle Gates for Buildings constructed under Items 0008 through 0011 (see Note 3)	2	EA	\$_____	\$_____
0028	Mobilize Equipment for Concrete Crushing	1	JOB	L.S.	\$_____
0029	Crush Concrete from Structures Demolished in Base Item 0001	9600	TON	\$_____	\$_____

<u>Item No.</u>	<u>Description of Item</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>
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0030	Crush Concrete from Structures Demolished in Optional Item 0007	2800	TON	\$_____	\$_____
0031	Demolish any 2 Buildings on Dogwood St.	1	JOB	L.S.	\$_____
0032	Demolish any 2 Additional Buildings on Dogwood St.	1	JOB	L.S.	\$_____
0033	Demolish any 2 Additional Buildings on Dogwood St.	1	JOB	L.S.	\$_____
0034	Demolish any 2 Additional Buildings on Dogwood St.	1	JOB	L.S.	\$_____
0035	Demolish any 1 Additional Building on Dogwood St.	1	JOB	L.S.	\$_____
0036	Demolish any 1 Additional Building on Dogwood St.	1	JOB	L.S.	\$_____
0037	Demolish any 1 Additional Building on Dogwood St.	1	JOB	L.S.	\$_____
0038	Demolish any 1 Additional Building on Dogwood St.	1	JOB	L.S.	\$_____
0039	Demolish any 1 Additional Building on Dogwood St.	1	JOB	L.S.	\$_____
TOTAL OPTIONAL ITEMS					\$_____
TOTAL BASE AND OPTIONAL ITEMS					\$_____

NOTES:

1. The dollar amounts established in Items No. 0004, 0005 and 0006 shall not be revised by bidders.
2. Reference Section 01025 MEASUREMENT AND PAYMENT for additional descriptive information regarding Bid Schedule Items.
3. Items 0025, 0026, 0027: The total amount of fencing, personnel gates and vehicle gates awarded will be based on the number of Optional Items awarded in Items 0008 through 0011.

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SECTION 00800

SPECIAL CLAUSES

SC-1. COMMENCEMENT, PROSECUTION, AND COMPLETION OF WORK (APR 1984)  
(FAR 52.211-10).

The Contractor shall be required to (a) commence work under this Contract within 10 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 520 calendar days after date of receipt by Contractor of notice to proceed. The time stated for completion shall include final cleanup of the premises. See Section 01005 SITE SPECIFIC SUPPLEMENTARY REQUIREMENTS, paragraph 1.8 for Construction Phasing.

SC-1.1 OPTION FOR INCREASED QUANTITY

a. The Government may increase the quantity of work awarded by exercising any or all of:

(1) Optional Items 0007 through 0016 and 0022 through 003~~90~~ within 120 days of the receipt by the Contractor of the notice to proceed.

(2) Optional Items 0017 through 0021 within 20 days of the receipt by the Contractor of the notice to proceed.

b. The notice to proceed on work Items added by exercise of the options will be given upon execution of consent of surety.

c. The parties hereto further agree that any options herein shall be considered to have been exercised at the time the Government deposits written notification to the Contractor in the mails.

d. The time allowed for completion of the optional item awarded under this contract will be the same as that for the base items, and will be measured from the date of receipt of the notice to proceed for the base items.

SC-1.2 EXCEPTION TO COMPLETION PERIOD

In case the Contracting Officer determines that completion of seeding, sodding, and planting, and establishment of same is not feasible within the completion period(s) shown in Sections 02921 SEEDING, paragraph 3.1.1; 02922 SODDING, paragraph 3.1.1; or 02930 EXTERIOR PLANTING, paragraphs 3.1.1 and 3.1.2 – all within the contract completion period stated in paragraph SC-1 above, the Contractor shall accomplish such work in the first planting period(s) following the contract completion period and shall complete such work as specified, unless other planting periods are directed or approved by the Contracting Officer.

SC-2. LIQUIDATED DAMAGES - CONSTRUCTION (APR 1984) (FAR 52.211-12)

(a) If the Contractor fails to complete the work within the time specified in the Contract, or any extension, the Contractor shall pay to the Government as liquidated damages, the sum of \$1393.00 for each day of delay until the work is completed or accepted.

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

(c) Exception to Liquidated Damage: In case the Contracting Officer determines that completion of work stated above in paragraph SC-1.2 Exception to Completion Period is not feasible during the completion period stated in SC-1, such work will be exempted from liquidated damages.

SC-3 AND SC-4. DELETED.

SC-5. INSURANCE - WORK ON A GOVERNMENT INSTALLATION (SEP 1989) (FAR 52.228-5)

(a) The Contractor shall, at its own expense, provide and maintain during the entire performance period of this Contract at least the kinds and minimum amounts of insurance required in the Insurance Liability Schedule or elsewhere in the Contract.

(b) Before commencing work under this Contract, the Contractor shall certify to the Contracting Officer in writing that the required insurance has been obtained. The policies evidencing required insurance shall contain an endorsement to the effect that any cancellation or any material change adversely affecting the Government's interest shall not be effective:

(1) for such period as the laws of the State in which this Contract is to be performed prescribe; or

(2) until 30 days after the insurer or the Contractor gives written notice to the Contracting Officer, whichever period is longer.

(c) The Contractor shall insert the substance of this clause, including this paragraph (c), in subcontracts under this Contract that require work on a Government installation and shall require subcontractors to provide and maintain the insurance required in the Schedule or elsewhere in the Contract. The Contractor shall maintain a copy of all subcontractors' proofs of required insurance, and shall make copies available to the Contracting Officer upon request.

SC-5.1 REQUIRED INSURANCE IN ACCORDANCE WITH FAR 28.307-2:

(1) Workers' compensation and employer's liability. Contractors are required to comply with applicable Federal and State workers' compensation and occupational disease statutes. If occupational diseases are not compensable under those statutes, they shall be covered under the employer's liability section of the insurance policy, except when Contract operations are so commingled with a Contractor's commercial operation that it would not be practical to require this coverage. Employer's liability coverage of at least \$100,000 shall be

required, except in states with exclusive or monopolistic funds that do not permit workers' compensation to be written by private carriers.

(2) General Liability.

(a) The Contracting Officer shall require bodily injury liability insurance coverage written on the comprehensive form of policy of at least \$500,000 per occurrence.

(b) Property damage liability insurance shall be required only in special circumstances as determined by the agency.

(3) Automobile liability. The Contracting Officer shall require automobile liability insurance written on the comprehensive form of policy. The policy shall provide for bodily injury and property damage liability covering the operation of all automobiles used in connection with performing the Contract. Policies covering automobiles operated in the United States shall provide coverage of at least \$200,000 per person and \$500,000 per occurrence for bodily injury and \$20,000 per occurrence for property damage. The amount of liability coverage on other policies shall be commensurate with any legal requirements of the locality and sufficient to meet normal and customary claims.

(4) Aircraft public and passenger liability. When aircraft are used in connection with performing the Contract, the Contracting Officer shall require aircraft public and passenger liability insurance. Coverage shall be at least \$200,000 per person and \$500,000 per occurrence for bodily injury, other than passenger liability, and \$200,000 per occurrence for property damage. Coverage for passenger liability bodily injury shall be at least \$200,000 multiplied by the number of seats or passengers, whichever is greater.

(5) Environmental Liability. If this contract includes the transport, treatment, storage, or disposal of hazardous material waste the following coverage is required.

The Contractor shall ensure the transporter and disposal facility have liability insurance in effect for claims arising out of the death or bodily injury and property damage from hazardous material/waste transport, treatment, storage and disposal, including vehicle liability and legal defense costs in the amount of \$1,000,000.00 as evidenced by a certificate of insurance for General, Automobile, and Environmental Liability Coverage. Proof of this insurance shall be provided to the Contracting Officer.

SC-6. DELETED

SC-7. PERFORMANCE OF WORK BY THE CONTRACTOR (APR 1984) (FAR 52.236-1): The Contractor shall perform on the site, and with its own organization, work equivalent to at least twenty-five percent (25%) of the total amount of work to be performed under the Contract. The percentage may be reduced by a supplemental agreement to this Contract if, during performing the work, the Contractor requests a reduction and the Contracting Officer determines that the reduction would be to the advantage of the Government.

SC-8. PHYSICAL DATA (APR 1984) (FAR 52.236-4): Data and information furnished or referred to below is for the Contractor's information. The Government will not be responsible for any interpretation of or conclusion drawn from the data or information by the Contractor.

(a) Physical Conditions: The indications of physical conditions on the drawings and in the specifications are the result of site investigations by test holes shown on the drawings.

(b) Weather Conditions: Each bidder shall be satisfied before submitting his bid as to the hazards likely to arise from weather conditions. Complete weather records and reports may be obtained from any National Weather Service Office.

(c) Transportation Facilities: Each bidder, before submitting his bid, shall make an investigation of the conditions of existing public and private roads and of clearances, restrictions, bridge load limits, and other limitations affecting transportation and ingress and egress at the jobsite. The unavailability of transportation facilities or limitations thereon shall not become a basis for claims for damages or extension of time for completion of the work.

SC-9. DELETED

SC-10. LAYOUT OF WORK (APR 1984) (FAR 52.236-17): The Contractor shall lay out its work from Government-established base lines and bench marks indicated on the drawings, and shall be responsible for all measurements in connection with the layout. The Contractor shall furnish, at its own expense, all stakes, templates, platforms, equipment, tools, materials, and labor required to lay out any part of the work. The Contractor shall be responsible for executing the work to the lines and grades that may be established or indicated by the Contracting Officer. The Contractor shall also be responsible for maintaining and preserving all stakes and other marks established by the Contracting Officer until authorized to remove them. If such marks are destroyed by the Contractor or through its negligence before their removal is authorized, the Contracting Officer may replace them and deduct the expense of the replacement from any amounts due, or to become due, to the Contractor.

SC-11. THROUGH SC-13. DELETED.

SC-14. EQUIPMENT OWNERSHIP AND OPERATING EXPENSE SCHEDULE (MAR 1995)-(EFARS 52.231-5000)

(a) This clause does not apply to terminations. See 52.249-5000, Basis for Settlement of Proposals and FAR Part 49.

(b) Allowable cost for construction and marine plant and equipment in sound workable condition owned or controlled and furnished by a contractor or subcontractor at any tier shall be based on actual cost data for each piece of equipment or groups of similar serial and series for which the Government can determine both ownership and operating costs from the contractor's accounting records. When both ownership and operating costs cannot be determined for any piece of equipment or groups of similar serial or series equipment from the contractor's accounting records, costs for that equipment shall be based upon the applicable provisions of EP 1110-1-8, Construction Equipment Ownership and Operating Expense Schedule, Region IV. Working conditions shall be considered to be average for determining equipment rates using the schedule unless specified otherwise by the Contracting Officer. For equipment not included in the schedule, rates for comparable pieces of equipment may be used or a rate may be developed using the formula provided in the schedule. For forward pricing, the schedule in effect at the time of negotiations shall apply. For retroactive pricing, the schedule in effect at the time the work was performed shall apply.

(c) Equipment rental costs are allowable, subject to the provisions of FAR 31.105(d)(ii) and FAR 31.205-36. Rates for equipment rented from an organization under common control, lease-purchase arrangements, and sale-leaseback arrangements, will be determined using the schedule, except that actual rates will be used for equipment leased from an organization under common control that has an established practice of leasing the same or similar equipment to unaffiliated lessees.

(d) When actual equipment costs are proposed and the total amount of the pricing action exceeds the small purchase threshold, the contracting officer shall request the contractor to submit either certified cost or pricing data, or partial/limited data, as appropriate. The data shall be submitted on Standard Form 1411, Contract Pricing Proposal Cover Sheet.

(e) Copies of EP1110-1-8 "Construction Equipment Ownership and Operating Expense Schedule" Volumes 1 through 12 are available in Portable Document Format (PDF) only and can be viewed or downloaded at <http://www.usace.army.mil/inet/usace-docs/eng-pamphlets/cecw.htm>. Copies of the CD-ROM (Volumes 1-12) are also available through either the Superintendent of Documents or Government bookstores. For additional information telephone 202-512-2250, or access on the Internet at [http://www.access.gpo.gov/su\\_docs](http://www.access.gpo.gov/su_docs).

SC-15. PAYMENT FOR MATERIALS DELIVERED OFF-SITE (MAR 1995)-(EFARS 52.232-5000)

(a) Pursuant to FAR clause 52.232-5, Payments Under Fixed Priced Construction Contracts, materials delivered to the contractor at locations other than the site of the work may be taken into consideration in making payments if included in payment estimates and if all the conditions of the General Provisions are fulfilled. Payment for items delivered to locations other than the work site will be limited to: (1) materials required by the technical provisions; or (2) materials that have been fabricated to the point where they are identifiable to an item of work required under this contract.

(b) Such payment will be made only after receipt of paid or receipted invoices or invoices with canceled check showing title to the items in the prime contractor and including the value of material and labor incorporated into the item. In addition to petroleum products, payment for materials delivered off-site is limited to the following items. Any other construction material stored offsite may be considered in determining the amount of a progress payment.

SC-16 AND SC-17. DELETED

SC-18. CONTRACT DRAWINGS AND SPECIFICATIONS (AUG 2000)(DOD FAR SUPP 252.236-7001)

(a) The Government will provide to the Contractor, without charge, one set of contract drawings and specifications, except publications incorporated into the technical provisions by reference, in electronic or paper media as chosen by the Contracting Officer.

(b) The Contractor shall--

(1) Check all drawings furnished immediately upon receipt;

- (2) Compare all drawings and verify the figures before laying out the work;
- (3) Promptly notify the Contracting Officer of any discrepancies;
- (4) Be responsible for any errors which might have been avoided by complying with this paragraph (b); and
- (5) Reproduce and print contract drawings and specifications as needed.

(c) In general—

- (1) Large scale drawings shall govern small scale drawings; and
- (2) The Contractor shall follow figures marked on drawings in preference to scale measurements.

(d) Omissions from the drawings or specifications or the misdescription of details of work which are manifestly necessary to carry out the intent of the drawings and specifications, or that are customarily performed, shall not relieve the Contractor from performing such omitted or misdescribed details of the work. The Contractor shall perform such details as if fully and correctly set forth and described in the drawings and specifications.

(e) The work shall conform to the specifications and the contract drawings identified in the index of drawings attached at the end of the Special Clauses.

SC-23. RECOVERED MATERIALS: The Corps of Engineers encourages all bidders to utilize recovered materials to the maximum extent practicable. The Contractor shall comply with the provisions of the Executive Order EO 13101 within the scope of his operations. The attached APPENDIX R contains procurement guidelines for products containing recovered materials. The Contractor shall fill out RECOVERED MATERIALS DETERMINATION FORM attached at the end of APPENDIX R and submit it to the Contracting Officer.

## APPENDIX R

### PART 247 - COMPREHENSIVE PROCUREMENT GUIDELINE FOR PRODUCTS CONTAINING RECOVERED MATERIALS

40 CFR Ch. 1 (9-1-99 Edition)

#### Subpart B-Item Designations

§ 247.10 Paper and paper products.

Paper and paper products, excluding building and construction paper grades.

§ 247.11 Vehicular products.

- (a) Lubricating oils containing re-refined oil, including engine lubricating oils, hydraulic fluids, and gear oils, excluding marine and aviation oils.
- (b) Tires, excluding airplane tire
- (e) Reclaimed engine coolants, excluding coolants used in non-vehicular applications.

§ 247.12 Construction products.

- (a) Building insulation product including the following items:
  - (1) Loose-fill insulation, including but not limited to cellulose fiber, mineral fibers (fiberglass and rock vermiculite, and perlite);
  - (2) Blanket and batt insulation, including but not limited to mineral fibers (fiberglass and rock wool);
  - (3) Board (sheathing, roof decking wall panel) insulation, including but not limited to structural fiberboard and laminated paperboard products perlite composite board, polyurethane, polyisocyanurate, polystyrene, phenolics, and composites; and
  - (4) Spray-in-place insulation, including but not limited to foam-in-place polyurethane and polyisocyanurate and spray-on cellulose.
- (b) Structural fiberboard and laminated paperboard products for applications other than building insulation, including building board, sheathing shingle backer, sound deadening board, roof insulating board, insulating wallboard, acoustical and non-acoustical ceiling tile, acoustical and non-acoustical lay-in panels, floor underlayments, and roof overlay (coverboard).
- (c) Cement and concrete, including concrete products such as pipe and block, containing coal fly as ground granulated blast furnace (GGBF) slag.
- (d) Carpet made of polyester fiber use in low- and medium-wear applications.
- (e) Floor tiles and patio blocks containing recovered rubber or plastic.
- (f) Shower and restroom dividers/partitions containing recovered plastic or steel.
- (g) (1) Consolidated latex paint used for covering graffiti; and  
(2) Reprocessed latex paint used for interior and exterior architectural applications such as wallboard, ceilings, and trim; gutter boards; and concrete, stucco, masonry, wood and metal surfaces.

§247.13 Transportation products.

- (a) Traffic barricades and traffic cones used in controlling or restricting vehicular traffic.
- (b) Parking stops made from concrete or containing recovered plastic or rubber.
- (c) Channelizers containing recovered plastic or rubber.
- (d) Delineators containing recovered plastic, rubber, or steel.
- (e) Flexible delineators containing recovered plastic.

§ 247.14 Park and recreation products

- (a) Playground surfaces and running tracks containing recovered rubber or plastic.
- (b) Plastic fencing containing recovered plastic for use in controlling snow or sand drifting and as a warning/safety barrier in construction or other applications.

§ 247.15 Landscaping products.

- (a) Hydraulic mulch products containing recovered paper or recovered wood used for hydroseeding and as an over-spray for straw mulch in landscaping, erosion control, and soil reclamation.
- (b) Compost made from yard trimmings, leaves, and/or grass clippings for use in landscaping, seeding of grass or other plants on roadsides and embankments, as a nutritious mulch under trees and shrubs, and in erosion control and soil reclamation.
- (c) Garden and soaker hoses containing recovered plastic or rubber.
- (d) Lawn and garden edging containing recovered plastic or rubber.

§ 247.16 Non-paper office product.

- (a) Office recycling containers and office waste receptacles.
- (b) Plastic desktop accessories.
- (c) Toner cartridges.
- (d) Binders.
- (e) Plastic trash bags.
- (f) Printer ribbons.
- (g) Plastic envelopes.

§ 247.17 Miscellaneous products.

Pallets containing recovered wood, plastic, or paperboard.

## RECOVERED MATERIALS DETERMINATION FORM

### *Instructions*

This form is to be completed by the procurement originator when EPA-designated items included in the Affirmative Procurement Program for Recovered Materials are being procured from outside vendors. For questions on whether the product counts as "EPA designated" or what the required recycled content is, refer to product descriptions on EPA's website at <http://www.epa.gov/cpg>. This form is not required for items requisitioned from established Federal supply sources.

1. The procurement originator lists which item(s) apply to the procurement request, the required recycled content, the actual recycled content, and signs and dates the appropriate Certification on the back of this form.
2. If an exemption is being claimed, the procurement originator's unit commander also signs the Certification on the back of this form.
3. The completed form becomes part of the contracting office contract file.

Procurement Request No. \_\_\_\_\_

The EPA-designated items being procured are:

- \_\_\_ Building insulation
- \_\_\_ Flowable fill
- \_\_\_ Latex paint
- \_\_\_ Floor tiles
- \_\_\_ Laminated paperboard
- \_\_\_ Structural fiberboard
- \_\_\_ Polyester carpet
- \_\_\_ Carpet Backing
- \_\_\_ Carpet Cushion
- Cement & concrete containing:
  - \_\_\_ Coal fly ash
  - \_\_\_ Ground granulated  
blast furnace slag
- \_\_\_ Binders  
(paper, solid plastic or  
plastic covered)
- \_\_\_ Plastic presentation folders
- \_\_\_ Plastic file folders
- \_\_\_ Plastic clip portfolios
- \_\_\_ Plastic clipboards
- \_\_\_ Plastic envelopes
- \_\_\_ Office recycling containers
- \_\_\_ Office waste receptacles
- \_\_\_ Plastic desktop accessories
- \_\_\_ Printing and writing papers

- \_\_\_ Printer ribbons
- \_\_\_ Toner cartridges
- \_\_\_ Awards and plaques
- \_\_\_ Playground surfaces
- \_\_\_ Park and recreational furniture
- \_\_\_ Running tracks
- \_\_\_ Playground equipment
- \_\_\_ Traffic barricades
- \_\_\_ Signage
- \_\_\_ Traffic cones
- \_\_\_ Channelizers
- \_\_\_ Delineators
- \_\_\_ Flexible delineators
- \_\_\_ Parking stops
- \_\_\_ Plastic fencing (snow or erosion control, safety barriers)
- \_\_\_ Engine coolants
- \_\_\_ Re-refined lubricating oils
- \_\_\_ Retread tires
- \_\_\_ Garden and soaker hoses
- \_\_\_ Lawn and garden edging
- \_\_\_ Patio blocks
- \_\_\_ Landscaping timbers and posts (plastic lumber)
- \_\_\_ Compost from yard trimmings or food waste
- \_\_\_ Commercial/industrial sanitary tissue products
- \_\_\_ Sorbents
- \_\_\_ Industrial Drums
- \_\_\_ Railroad grade crossings/ surfaces
- \_\_\_ Pallets
- \_\_\_ Paperboard and packaging
- \_\_\_ Strapping and stretch wrap
- \_\_\_ Shower & restroom dividers/partitions
- \_\_\_ Plastic trash bags
- \_\_\_ Mats
- \_\_\_ Hydraulic mulch
- \_\_\_ Tray liners
- \_\_\_ Newsprint

CERTIFICATION

Procurement Request No. \_\_\_\_\_

Complete Part A or Part B as appropriate:

\*\*\*\*\*

A. I hereby certify the Statement of Work/Specifications for the requisition of all materials listed on this form complies with EPA standards for recycled/recovered materials content.

\_\_\_\_\_  
Procurement Originator's Signature

\_\_\_\_\_  
Date

\*\*\*\*\*

B. The following item does not comply with EPA standards for recycled/recovered materials (please complete a separate justification for each noncompliant item purchased as part of this procurement action): \_\_\_\_\_

The exemption being claimed for this purchase is:

The product does not meet appropriate performance standards

The product is not available within a reasonable time frame

The product is not available competitively (from two or more sources)

The product is only available at an unreasonable price (it costs more than a comparable non-recycled-content product). The recycled-content product costs \$\_\_\_\_\_ per \_\_\_\_\_ and the non-recycled-content product costs \$\_\_\_\_\_ per \_\_\_\_\_

\_\_\_\_\_  
Procurement Originator

\_\_\_\_\_  
Date

\_\_\_\_\_  
Commander

\_\_\_\_\_  
Date

## INDEX OF DRAWINGS

REPLACE FAMILY HOUSING, PHASE IV  
 MALMSTROM AFB, MONTANA  
 PN: NZAS 994006N

DRAWING FILE NO. 225s/711-15-10

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178	E-002	Demolition Site Plan (Area A)		4 Feb. 2004
179	E-003	Demolition Site Plan (Area B)		4 Feb. 2004
180	E-004	Demolition Site Plan (Area C)	A	4 Mar. 2004
181	E-005	Demolition Site Plan (Area D)		4 Feb. 2004
182	E-006	Electrical Site Plan (Area A)		4 Feb. 2004
183	E-007	Electrical Site Plan (Area B)		4 Feb. 2004
184	E-008	Electrical Site Plan (Area C)	A	4 Mar. 2004
185	E-009	Electrical Site Plan (Area D)		4 Feb. 2004
186	E-101	Electrical Floor Plans – Unit 2C (2J Sim)		4 Feb. 2004
187	E-102	Electrical Floor Plans – Unit 3C (3J Sim)		4 Feb. 2004
188	E-103	Electrical Floor Plans – Unit 3C-HC		4 Feb. 2004
189	E-104	Electrical Floor Plans – Unit 4C (4J Sim)		4 Feb. 2004
190	E-105	Electrical Floor Plans – Unit 4S0		4 Feb. 2004
191	E-106	Electrical Floor Plans – Unit 4S0		4 Feb. 2004
192	E-107	Electrical Floor Plans – Unit 4S0-Max		4 Feb. 2004
193	E-108	Electrical Floor Plans – Unit 4S0-Max		4 Feb. 2004
194	E-109	Electrical Floor Plans – Unit 4S0-CV		4 Feb. 2004
195	E-110	Electrical Floor Plans – Unit 4S0-CV		4 Feb. 2004
196	E-201	Schedules, One-Line Diagram and Detail		4 Feb. 2004
197	E-202	Electrical Load Calc		4 Feb. 2004
198	E-301	Electrical Details		4 Feb. 2004
199	E-302	Electrical Details		4 Feb. 2004
200	E-303	Electrical Details		4 Feb. 2004
201	E-401	Electrical One-Line Diagram		4 Feb. 2004
202	E-402	Electrical One-Line Diagram		4 Feb. 2004
203	E-403	Electrical One-Line Diagram		4 Feb. 2004

DRAWING REVISIONS BY NOTATION

Drawing Sheet 4, Plate C-101: Revise Note 2 to read "Removal of existing framed structures on the east and west side of Dogwood Street (13 structures) will be performed by another agency or by Contract Options 0031 through 0039, specified in the Bid Schedule and Section 01025 Measurement and Payment. Contractor shall complete the remaining .....as shown on this plan."

STANDARD DETAILS BOUND IN THE SPECIFICATIONS

<u>DRAWING NUMBER</u>	<u>SHEET NUMBER</u>	<u>TITLE</u>	<u>DATE</u>
<u>SECTION 01501 - CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS</u>			
	1 & 2	U.S. Air Force Project Construction Sign	84JUN20
	1	Hard Hat Sign	10SEP90

END OF SECTION

WAIS Document Retrieval  
GENERAL DECISION: MT20030001 03/05/2004 MT1

Date: March 5, 2004  
General Decision Number: MT20030001 03/05/2004

Superseded General Decision Number: MT020001

State: Montana

Construction Types: Heavy

Counties: Montana Statewide.

HEAVY CONSTRUCTION PROJECTS

ZONE DEFINITIONS

CARPENTERS, \*CEMENT MASONS, LABORERS, POWER EQUIPMENT OPERATORS  
AND TRUCK DRIVERS

The zone hourly rates applicable to each project shall be determined by measuring the road miles over the shortest practical maintained route from the nearest County Court House of the following listed towns to the center of the job:

BILLINGS, BOZEMAN, BUTTE, GREAT FALLS, HAVRE, HELENA,  
KALISPELL, LEWISTOWN, MILES CITY, MISSOULA

- Zone 1: 0 to 30 miles - Base Pay
- Zone 2: 30 to 60 miles - Base Pay + \$2.20
- Zone 3: Over 60 miles - Base Pay + \$3.70

\*CEMENT MASONS ZONES: The above cities plus DILLON, GLASGOW,  
GLENDIVE, SIDNEY

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Modification Number	Publication Date
0	06/13/2003
1	11/07/2003
2	11/28/2003
3	01/23/2004
4	03/05/2004

CARP0028-002 05/01/2003

STATEWIDE EXCEPT BEAVERHEAD AND SILVER BOW COUNTIES

	Rates	Fringes
Carpenters: (Zone 1)		
Carpenter.....	\$ 19.85	5.83
Millwright.....	\$ 21.85	5.83
Piledrivermen.....	\$ 19.85	5.83

---

CARP0028-004 06/01/2000

STATEWIDE EXCEPT BEAVERHEAD AND SILVER BOW COUNTIES

	Rates	Fringes
Diver.....	\$ 54.93	5.70
Diver Tender.....	\$ 26.25	5.70

-----  
 CARP0112-001 05/01/1998

BEAVERHEAD AND SILVER BOW COUNTIES

	Rates	Fringes
Carpenters: (Zone pay not applicable)		
Carpenter.....	\$ 16.71	4.82
Millwright.....	\$ 17.21	4.82
Pile Driver.....	\$ 17.71	4.82

-----  
 ELEC0044-001 06/01/2002

BEAVERHEAD, BIG HORN, BLAINE, BROADWATER, CARBON, CARTER, CASCADE, CHOUTEAU, CUSTER, DANIELS, DAWSON, DEER LODGE, FALLON, FERGUS, GALLATIN, GARFIELD, GLACIER, GOLDEN VALLEY, GRANITE, HILL, JEFFERSON, JUDITH, BASIN, LEWIS AND CLARK, LIBERTY, MADISON, MCCONE, MEAGHER, MINERAL, MISSOULA, MUSSELSHELL, PARK, PETROLEUM, PHILLIPS, PONDERA, POWDER RIVER, POWELL, PRAIRIE, RAVALLI, RICHLAND, ROOSEVELT, ROSEBUD, SHERIDAN, SILVER BOW, STILWATER, SWEET GRASS, TETON, TOOLE, TREASURE, VALLEY, WHEATLAND, WIBAUX, AND YELLOWSTONE COUNTIES

	Rates	Fringes
Line Construction		
(1) Lineman.....	\$ 25.79	4.25%+6.71
(2) Equipment Operator.....	\$ 20.63	4.25%+6.34
(3) Experienced		
Groundman.....	\$ 16.76	4.25%+6.07

-----  
 ELEC0233-001 12/01/2003

Blaine, Cascade, Chouteau, Fergus, Glacier, Hill, Judith Basin, Liberty, Petroleum, Phillips, Pondera, Teton, Valley, and Wheatland Counties

	Rates	Fringes
Electrician.....	\$ 22.76	4.25%+7.70

-----  
 ELEC0233-002 06/01/2003

BEAVERHEAD, DEER LODGE, GRANITE, JEFFERSON, MADISON, POWELL, AND SILVER BOW COUNTIES

	Rates	Fringes
Electrician.....	\$ 22.73	4.25%+7.77

-----  
 ELEC0233-006 12/01/2003

BROADWATER, LEWIS AND CLARK, AND MEAGHER COUNTIES

	Rates	Fringes
Electrician.....	\$ 22.76	4.25%+7.70

-----  
 ELEC0532-001 06/01/2002

GALLATIN, PARK, AND SWEET GRASS COUNTIES

	Rates	Fringes
Electrician.....	\$ 21.36	4.25%+6.84

-----  
 ELEC0532-003 06/01/2002

BIG HORN, CARBON, CARTER, CUSTER, DANIELS, DAWSON, FALLON, GARFIELD, GOLDEN VALLEY, McCONE, MUSSELSHELL, POWDER RIVER, PRAIRIE, RICHLAND, ROOSEVELT, ROSEBUD, SHERIDAN, STILLWATER, TREASURE, WIBAUX AND YELLOWSTONE COUNTIES

	Rates	Fringes
Electrician.....	\$ 22.80	4.25%+7.48

-----  
 ELEC0768-001 06/01/2001

FLATHEAD, LAKE, LINCOLN, MINERAL, MISSOULA, RAVALLI, AND SANDERS COUNTIES

	Rates	Fringes
Electrician.....	\$ 23.00	7.28

-----  
 ELEC0768-003 04/01/2003

FLATHEAD, LAKE, AND LINCOLN COUNTIES

	Rates	Fringes
Line Construction		
(1) Cable Splicer.....	\$ 27.03	9.81
(2) Lineman.....	\$ 24.85	9.84

(3) Groundman.....\$ 16.48 9.07

-----  
 \* ENGI0400-001 05/01/2003

	Rates	Fringes
Power Equipment Operator (Zone 1)		
Group 1.....	\$ 18.58	5.61
Group 2.....	\$ 19.00	5.61
Group 3.....	\$ 19.37	5.61
Group 4.....	\$ 19.62	5.61
Group 5.....	\$ 20.60	5.61
Group 6.....	\$ 21.11	5.61
Group 7.....	\$ 22.65	5.61

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Air Compressor; Auto Fine Grader; Belt Finishing Machine; Boring Machine, small; Cement Silo; Crane, A-Frame Truck Crane; Crusher Conveyor; DW-10, 15, and 20 Tractor Roller; Farm Tractor; Forklift; Form Grader; Front-end Loader under 1 cu yd; Heavy Duty Drills; Herman Nelson Heater; Mulching Machine; Oiler, all except Cranes. & Shovels; Pumpman.

GROUP 2: Air Doctor; Backhoe/Excavator/Shovel to and including 3 cu yd; Bit Grinder; Bituminous Paving Travel Plant; Boring Machine, large; Broom, self-propelled; Concrete Travel Batcher; Concrete Float & Spreader; Concrete Bucket Dispatcher; Concrete Finish Machine; Concrete Conveyor; Distributor; Dozer, Rubber- Tired, Push & Side Boom; Elevating Grader/Gradall; Field Equipment Serviceman; Front-end Loader 1 cu yd to including 5 cu yd; Grade Setter; Heavy Duty Drills, all types; Hoist/Tugger, all; Hydralift & similar; Industrial Locomotive; Motor Patrol, except Finish; Mountain Skidder; Oiler - Cranes & Shovels; Pavement Breaker, EMSCO; Power Saw, self-propelled; Pugmill; Pumpcrete/Grout Machine; Punch Truck; Roller, other than Asphalt; Roller, Sheepsfoot, self- propelled; Roller, 25 tons and over; Ross Carrier; Rotomill under 6 ft; Trenching Machine; Washing/Screening Plant.

GROUP 3: Asphalt Paving Machine; Asphalt Screed; Backhoe/Excavator/Shovel over 3 cu yd; Cableway Highline; Concrete Batch Plant; Concrete Curing Machine; Concrete Pump; Cranes, Creter; Cranes, Electric Overhead; Cranes, 24 tons and under; Curb Machine/Slip Form Paver; Finish Dozer; Front-end Loader over 5 cu yd; Mechanic/Welder; Pioneer Dozer; Roller, Asphalt (Breakdown & Finish); Rotomill, over 6 ft; Scraper, single, twin, or pulling Belly Dump; Yo-Yo Cat.

GROUP 4: Asphalt/Hot Plant Operator; Cranes, 25 tons to 44 tons; Crusher Operator; Finish Motor Patrol; Finish Scraper.

GROUP 5: Cranes, 45 tons to including 74 tons; Crane, Tower,

all.

GROUP 6: Cranes, 75 tons to including 149 tons; Crane, Whirley, all.

GROUP 7: Cranes, 150 tons to including 250 tons (add \$1.00 for every 100 tons over 250 tons); Crane, Stiff-Leg or Derrick; Helicopter Hoist.

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IRON0014-002 07/01/2003

FLATHEAD, GLACIER, LAKE, LINCOLN, MINERAL, MISSOULA, AND SANDERS COUNTIES

	Rates	Fringes
Ironworker.....	\$ 21.62	11.63

-----  
IRON0841-002 07/01/2003

REMAINING COUNTIES

	Rates	Fringes
Ironworker.....	\$ 19.20	123.51

-----  
LAB00098-001 05/01/2000

	Rates	Fringes
Laborers: (Zone 1)		
Group 1.....	\$ 13.41	4.40
Group 2.....	\$ 16.19	4.40
Group 3.....	\$ 16.33	4.40
Group 4.....	\$ 17.05	4.40

LABORERS CLASSIFICATIONS

GROUP 1: Flagperson

GROUP 2: All General Labor work; Burning Bar; Bucket man; Carpenter Tender; Caisson Worker; Cement Mason Tender; Cement Handler (dry); Chuck Tender; Choker Setter; Concrete worker; Curb Machine-Lay Down; Crusher and Batch worker; Fence Erector; Form Setter; Form Stripper; Heater Tender; Landscaper; Pipe Wrapper; Pot Tender; Powderman Tender; Rail and Truck Loaders and Unloaders; Riprapper; Sealants for concrete and other materials; Sign Erection, Guard Rail and Jersey Rail; Stake Jumper; Spike Driver; Signalman; Tail Hoseman; Tool Checker and Houseman; Traffic Control worker.

GROUP 3: Concrete Vibrator; Dumpman (Grademan); Equipment Handler; Geotextile and Liners; High-Pressure Nozzleman; Jackhammer (Pavement Breaker); Laser Equipment; Non-Riding Rollers; Pipelayer; Posthole Digger (Power); Power Driven

Wheelbarrow; Rigger; Sandblaster; Sod Cutter-Power; Tampers

GROUP 4: Asphalt Raker; Cutting Torch; Grade Setter; High-Scaler; Power Saws (Faller & Concrete); Powderman (\$1.00 per hour above Group 4 rate); Rock & Core Drill; Track or Truck mounted Wagon Drill; Welder including Air Arc

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PAIN0260-001 07/01/2002

BLAINE, BROADWATER, CASCADE, CHOUTEAU, DANIELS, FERGUS, GARFIELD, GLACIER, GRANITE (South of a line running East & West through the Southern city limits of Phillipsburg), HILL, JEFFERSON, JUDITH BASIN, LEWIS AND CLARK, LIBERTY, McCONE, MEAGHER, PETROLEUM, PHILLIPS, PONDERA, POWELL (South of a line running East & West through the Southern City limits of Helmsville), RICHLAND, ROOSEVELT, SHERIDAN, TETON, TOOLE, VALLEY, AND WHEATLAND COUNTIES

	Rates	Fringes
Painter.....	\$ 13.85	1%+3.45

-----  
PAIN0260-002 07/01/2002

FLATHEAD, GRANITE (North of a line running East & West through the Southern city limits of Phillipsburg), LAKE, LINCOLN, MINERAL, MISSOULA, POWELL (North of a line running East & West through the Southern city limits of Helmsville), RAVALLI, AND SANDERS COUNTIES

	Rates	Fringes
Painter.....	\$ 16.85	1%+3.45

-----  
PAIN1922-001 08/01/2003

BEAVERHEAD, BIG HORN, CARBON, CARTER, CUSTER, DAWSON, DEER LODGE, FALLON, GALLATIN, GOLDEN VALLEY, JEFFERSON, MADISON, MUSSELSHELL, PARK, POWDER RIVER, PRAIRIE, ROSEBUD, SILVER BOW, STILLWATER, SWEET GRASS, TREASURE, WIBAUX, AND YELLOWSTONE COUNTIES

	Rates	Fringes
Painter Industrial (Includes Industrial Plants, Tanks, Pipes, Bridges).....	\$ 18.00	a+b

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PLAS0119-001 05/01/2000

STATEWIDE (except Deer Lodge, Jefferson, Powell, and Silver Bow Counties)

	Rates	Fringes
Cement Masons: (Zone 1)		
Area 1.....	\$ 16.23	5.10
Area 2.....	\$ 17.30	5.10

AREA 1: STATEWIDE (except Deer Lodge, Jefferson, Powell, and Silver Bow Counties)

AREA 2: DEER LODGE, JEFFERSON, POWELL, AND SILVER BOW COUNTIES

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 PLUM0030-003 09/01/2003

BIGHORN, BLAINE, CARBON, CARTER, CASCADE, CHOUTEAU, CUSTER, DANIELS, DAWSON, FALLON, FERGUS, GARFIELD, GLACIER, GOLDEN VALLEY, HILL, JUDITH BASIN, LIBERTY, McCONE, MEAGHER, MUSSELSHELL, PETROLEUM, PHILLIPS, PONDERA, POWDER RIVER, PRAIRIE, RICHLAND, ROOSEVELT, ROSEBUD, SHERIDAN, STILLWATER, TETON, TOOLE, TREASURE, VALLEY, WHEATLAND, WIBAUX AND YELLOWSTONE COUNTIES

	Rates	Fringes
Plumber.....	\$ 24.20	10.05

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 PLUM0041-001 07/01/2002

BEAVERHEAD, BROADWATER, DEER LODGE, GALLATIN, GRANITE, JEFFERSON, LEWIS AND CLARK, MADISON, PARK, POWELL, SILVER BOW, AND SWEET GRASS COUNTIES

	Rates	Fringes
Plumber.....	\$ 24.30	7.55

-----  
 PLUM0459-001 07/01/2003

FLATHEAD, GLACIER, LAKE, LINCOLN, MINERAL, MISSOULA, RAVALLI, AND SANDERS

	Rates	Fringes
Plumber.....	\$ 22.86	8.90

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 \* TEAM0002-001 06/01/2003

	Rates	Fringes
Truck drivers: (Zone 1)		
Group 1.....	\$ 13.31	5.31
Group 2.....	\$ 17.34	5.31

TRUCK DRIVERS CLASSIFICATIONS:

GROUP 1: Pilot Car

GROUP 2: All Combination Trucks and Concrete Mixers; Distributor Driver; All Dry Batch Trucks; Dumpman, Gravel Spreader Box Operator; All Dump Trucks and similar equipment including DW 20, DW 21, or Euclid Tractor; Dumpsters; Flat Trucks; Servicemen; Lowboys, Four-Wheel Trailers; Float Semi-Trailer; Lumber Carriers, Lift Trucks & Fork Lifts; Pick-up Driver hauling material; Powder Truck (Bulk Unloader type); Power Boom; Service Truck Drivers, Fuel Truck Drivers, Tiremen; All Water Tank Drivers; Petroleum Products Drivers; Trucks with Power Equipment such as Winch, A-Frame Truck, Crane, Hydralift, Gout-Crete Truck, and Combination Mulching, Seeding & Fertilizing Truck; Truck Mechanic

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

Unlisted classifications needed for work not included within 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)).

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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.  
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#### 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 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

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## SECTION 01025

### MEASUREMENT AND PAYMENT

#### PART 1 GENERAL

##### 1.1 GENERAL

The contract price for each item shall constitute full compensation for furnishing all plant, labor, materials, appurtenances, and incidentals and performing all operations necessary to construct and complete the items in accordance with these specifications and the applicable drawings, including surveying performed by the Contractor. Payment for each item shall be considered as full compensation, notwithstanding that minor features may not be mentioned herein.

Work paid for under one item will not be paid for under any other item. No separate payment will be made for the work, services, or operations required by the Contractor, as specified in DIVISION

1, GENERAL REQUIREMENTS, to complete the project in accordance with these specifications; all costs thereof shall be considered as incidental to the work.

##### 1.2 MEASUREMENT (for Optional Items 0029 and 0030)

Crushed concrete shall be measured by vehicle, weighed on scales provided by the Contractor and approved by the Contracting Officer. The scales shall be certified and shall be of sufficient capacity to permit weighing the transporting vehicle both empty and full. Scales shall be of the type that will print weigh tickets. A duplicate copy of each weigh ticket shall be furnished to the Contracting Officer. The Contractor's weighmaster shall be subject to the approval of the Contracting officer.

##### 1.3 PAYMENT

###### 1.3.1 ITEM NO. 0001 (BASE ITEM)

Payment will be made at the contract lump sum price for Item No. 0001, Demolish Buildings and Concrete Structures including Basements, Slabs, Footings and Porches on Cedar, Birch and Aspen Streets as Indicated, payment of which shall constitute full compensation for Item No. 0001, complete. Work includes labor, professional services, equipment and transportation and other work as required.

###### 1.3.2 ITEM NO. 0002 (BASE ITEM)

Payment will be made at the contract lump sum prices for Item No. 0002, All Work for Construction of Buildings on Cedar, Birch and Aspen Streets within a line 5 feet outside of the Building Exterior Walls for Items 0002AA, 0002AB, 0002AC, 0002AD, 0002AE, 0002AF and 0002AG, payment of which shall constitute full compensation for Item No. 0002, complete. This item includes backfill as indicated for foundations and slabs, construction of unit vinyl fence trash enclosures, patio vinyl 'privacy fence', and utility connections. Work includes all labor, professional services, materials, equipment and transportation and other work as required. See Bid Schedule for description of work Items 0002AA through 0002AG.

### 1.3.3 ITEM NO. 0003 (BASE ITEM)

Payment will be made at the contract lump sum price for Item No. 0003, Provide Sitework and Utilities for Base Items 0002AA through 0002AG, except for Item 0022, payment of which shall constitute full compensation for Item No. 0003, complete. Sitework includes, but is not limited to, final backfill, compaction, finish grading, landscaping (except for Item 0022), paving, mowstrips, driveways and walks, pathway and light standards, demolition of curbs and gutters and 3" of street asphalt, construction of curbs and gutters, street asphalt replacement and sidewalks, concrete handicap aprons with curb cuts, painted crosswalks and signage and two bollards at each end of the pathway, and fencing (including personnel and vehicle gates) for Buildings 700, 701, 702, 703, 704, 705, 706 and 708 - up to the building walls, as indicated. Site utilities (including duct bank) installed from a line 5 feet outside the building exterior walls. Work includes all labor, professional services, materials, equipment and transportation necessary for all work related to this item.

### 1.3.4 ITEM NO. 0004 (BASE ITEM)

Payment will be made at the contract lump sum price for Item No. 0004, All Work for As-Built Drawings as Specified in Section 01702 from Preparation to Final Approval for Base Items and any Optional Items Exercised, payment of which shall constitute full compensation for Item No. 0004, complete. No partial or total payment will be made for this item until the as-built drawings, both marked up blue prints and electronic files are fully approved by the Government (A or B action) and all copies of approved drawings and electronic media received by the Government.

### 1.3.5 ITEM 0005 (BASE ITEM)

Payment will be made at the contract lump sum price for Item No. 0005, All Work for O&M Manuals, as Specified in Section 01701 from Preparation to Final Approval for Base Items and any Optional Items Exercised, payment of which shall constitute full compensation for Item No. 0005, complete. No partial or total payment will be made for this item until all O&M manuals are fully approved by the Government (A or B action) and all copies of final manuals are received by the Government in their final binders.

### 1.3.6 ITEM 0006 (BASE ITEM)

Payment will be made at the contract lump sum price for Item No. 0006, All Work for Form 1354 Checklist and Equipment-in-Place List, as Specified in Section 01704 and 01705 from Preparation to Final Approval for Base Items and any Optional Items Exercised, payment of which shall constitute full compensation for Item No. 0006, complete. No partial or total payment will be made for this item until both the 1354 Checklist and Equipment in Place List are fully approved by the Government (A or B action) and all copies of approved lists received by the Government.

### 1.3.7 ITEM NO. 0007 (OPTIONAL ITEM)

Payment will be made at the contract lump sum price for Item No. 0007, Demolish Concrete Structures including Basements, Slabs, Footing, Porches, Sidewalks and Driveways up to the curb and gutter on Dogwood Street as Indicated, payment of which shall constitute full compensation for Item No. 0007, complete. Curbs and gutters are demolished in Item 0016.

Work includes labor, professional services, equipment and transportation and other work as required.

#### 1.3.8 ITEM 0008 (OPTIONAL ITEM)

Payment will be made at the contract lump sum price for Item No. 0008, Construct Buildings, Unit Type 4J, 2 Buildings (Bldgs. 405/407, 509/511) on Dogwood Street within a line 5 feet outside of the building exterior walls and Sitework, payment of which shall constitute full compensation for Item No. 0008, complete. Sitework this item includes backfill, compaction, finish grading, landscaping, paving, mowstrips, driveways and walks - up to the building exterior walls, and ductbank work from the building to the transformer as indicated. Fencing is paid for under Items 0025, 0026 and 0027, except unit vinyl fence trash enclosures and patio vinyl 'privacy fence' which are paid for under this item. Utilities are paid for under Item 0016, except as noted herein. Work includes all labor, professional services, materials, equipment and transportation necessary for all work related to this item. If this item is exercised, Optional Item 0012 WILL NOT be exercised.

#### 1.3.9 ITEM 0009 (OPTIONAL ITEM)

Payment will be made at the contract lump sum price for Item No. 0009, Construct Buildings, Unit Type 3C-HC, 2 Buildings (Bldgs. 401/403, 513/515) on Dogwood Street within a line 5 feet outside of the building exterior walls and Sitework, payment of which shall constitute full compensation for Item No. 0009, complete. Sitework this item includes backfill, compaction, finish grading, landscaping, paving, mowstrips, driveways and walks - up to the building exterior walls, and ductbank work from the building to the transformer as indicated. Fencing is paid for under Items 0025, 0026 and 0027, except unit vinyl fence trash enclosures and patio vinyl 'privacy fence' which are paid for under this item. Utilities are paid for under Item 0016, except as noted herein. Work includes all labor, professional services, materials, equipment and transportation necessary for all work related to this item. If this item is exercised, Optional Item 0013 WILL NOT be exercised.

#### 1.3.10 ITEM 0010 (OPTIONAL ITEM)

Payment will be made at the contract lump sum price for Item No. 0010, Construct Buildings, Unit Type 3J, 4 Buildings (Bldgs. 408/410, 500/502, 504/506, 508/510) on Dogwood Street within a line 5 feet outside of the building exterior walls and Sitework, payment of which shall constitute full compensation for Item No. 0010, complete. Sitework this item includes backfill, compaction, finish grading, landscaping, paving, mowstrips, driveways and walks - up to the building exterior walls, and ductbank work from the building to the transformer as indicated. Fencing is paid for under Items 0025, 0026 and 0027, except unit vinyl fence trash enclosures and patio vinyl 'privacy fence' which are paid for under this item. Utilities are paid for under Item 0016, except as noted herein. Work includes all labor, professional services, materials, equipment and transportation necessary for all work related to this item. If this item is exercised, Optional Item 0014 WILL NOT be exercised.

#### 1.3.11 ITEM 0011 (OPTIONAL ITEM)

Payment will be made at the contract lump sum price for Item No. 0011, Construct Buildings, Unit Type 3J, 3 Buildings (Bldgs. 404/406, 501/503, 505/507) on Dogwood Street within a line 5 feet outside of the building exterior walls and Sitework, payment of which shall constitute full

compensation for Item No. 0011, complete. Sitework this item includes backfill, compaction, finish grading, landscaping, paving, mowstrips, driveways and walks - up to the building exterior walls, and ductbank work from the building to the transformer as indicated. Fencing is paid for under Items 0025, 0026 and 0027, except unit vinyl fence trash enclosures and patio vinyl 'privacy fence' which are paid for under this item. Utilities are paid for under Item 0016, except as noted herein. Work includes all labor, professional services, materials, equipment and transportation necessary for all work related to this item. If this item is exercised, Optional Item 0015 WILL NOT be exercised.

#### 1.3.12 ITEM 0012 (OPTIONAL ITEM)

Payment will be made at the contract lump sum price for Item No. 0012, Backfill with material from on-base borrow site, Compact, Finish and Fine Grade, Topsoil and Seeding, as Indicated (to cover excavation from demolition of buildings located at site of Item 0008 construction), payment of which shall constitute full compensation for Item No. 0012, complete. Work includes all labor, professional services, materials, equipment and transportation and all other work as required.

#### 1.3.13 ITEM 0013 (OPTIONAL ITEM)

Payment will be made at the contract lump sum price for Item No. 0013, Backfill with material from on-base borrow site, Compact, Finish and Fine Grade, Topsoil and Seeding as Indicated (to cover excavation from demolition of buildings located at site of Item 0009 construction), payment of which shall constitute full compensation for Item No. 0013, complete. Work includes all labor, professional services, materials, equipment and transportation and all other work as required.

#### 1.3.14 ITEM 0014 (OPTIONAL ITEM)

Payment will be made at the contract lump sum price for Item No. 0014, Backfill with material from on-base borrow site, Compact, Finish and Fine Grade, Topsoil and Seeding, as Indicated (to cover excavation from demolition of buildings located at site of Item 0010 construction), payment of which shall constitute full compensation for Item No. 0014, complete. Work includes all labor, professional services, materials, equipment and transportation and all other work as required.

#### 1.3.15 ITEM 0015 (OPTIONAL ITEM)

Payment will be made at the contract lump sum price for Item No. 0015, Backfill with material from on-base borrow site, Compact, Finish and Fine Grade, Topsoil and Seeding, as Indicated (to cover excavation from demolition of buildings located at site for Item 0011 construction), payment of which shall constitute full compensation for Item No. 0015, complete. Work includes all labor, professional services, materials, equipment and transportation and all other work as required.

#### 1.3.16 ITEM 0016 (OPTIONAL ITEM)

Payment will be made at the contract lump sum price for Item No. 0016, Provide Utilities from a line 5 feet outside of the building exterior walls and Other Sitework for Optional Items 0008 through 0011, payment of which shall constitute full compensation for Item No. 0011, complete. Sitework this item includes but is not limited to demolition of curbs and gutters and

3" of street asphalt, construction of curbs and gutters, street asphalt replacement and sidewalks, concrete handicap aprons with curb cuts, painted crosswalks and signage. Fencing is paid for under Items 0025, 0026 and 0027. Work includes all labor, professional services, materials, equipment and transportation necessary for all work related to this item.

#### 1.3.17 ITEM 0017 (OPTIONAL ITEM)

Payment will be made at the contract lump sum price for Item 0017, Install Grade Beam and Pier Foundation in lieu of spread footings for buildings constructed under Base Items 0002AA through 0002AD, payment of which shall constitute full compensation for Item No. 0017, complete. The dollar amount of this item is the difference in cost between spread footing foundation system and grade beam/pier foundation system. Work includes all labor, professional services, materials, equipment and transportation necessary for all work related to this item.

#### 1.3.18 ITEM 0018 (OPTIONAL ITEM)

Payment will be made at the contract lump sum price for Item 0018, Install Grade Beam and Pier Foundation in lieu of spread footings for buildings constructed under Option Item 0008, payment of which shall constitute full compensation for Item No. 0018, complete. The dollar amount this item is the difference in cost between spread footing foundation system and grade beam/pier foundation system. Work includes all labor, professional services, materials, equipment and transportation necessary for all work related to this item.

#### 1.3.19 ITEM 0019 (OPTIONAL ITEM)

Payment will be made at the contract lump sum price for Item 0019, Install Grade Beam and Pier Foundation in lieu of spread footings for buildings constructed under Option Item 0009, payment of which shall constitute full compensation for Item No. 0019, complete. The dollar amount this item is the difference in cost between spread footing foundation system and grade beam/pier foundation system. Work includes all labor, professional services, materials, equipment and transportation necessary for all work related to this item.

#### 1.3.20 ITEM 0020 (OPTIONAL ITEM)

Payment will be made at the contract lump sum price for Item 0020, Install Grade Beam and Pier Foundation in lieu of spread footings for buildings constructed under Option Item 0010, payment of which shall constitute full compensation for Item No. 0020, complete. The dollar amount this item is the difference in cost between spread footing foundation system and grade beam/pier foundation system. Work includes all labor, professional services, materials, equipment and transportation necessary for all work related to this item

#### 1.3.21 ITEM 0021 (OPTIONAL ITEM)

Payment will be made at the contract lump sum price for Item 0021, Install Grade Beam and Pier Foundation in lieu of spread footings for buildings constructed under Option Item 0011, payment of which shall constitute full compensation for Item No. 0021, complete. The dollar amount this item is the difference in cost between spread footing foundation system and grade beam/pier foundation system. Work includes all labor, professional services, materials, equipment and transportation necessary for all work related to this item

#### 1.3.22 ITEM 0022 (OPTIONAL ITEM)

Payment will be made at the contract lump sum price for Item No. 0022, Additional Landscaping for Base Items 0002AA through 0002AE payment of which shall constitute full compensation for Item No. 0022, complete. Additional landscaping this item includes plants, shrubs, trees (excluding sod), bark, mulch, and landscape irrigation. Sod is included in Item 0003. Work includes all labor, professional services, materials, equipment and transportation and all other work as required.

#### 1.3.23 ITEM 0023 (OPTIONAL ITEM)

Payment will be made at the contract lump sum price for Item No. 0023, Install Fencing and Gates for Buildings Constructed under Items 0002AA through 0002AD on Cedar and Birch Streets on the Northeast side of 70<sup>th</sup> St. N., payment of which shall constitute full compensation for Item No. 0023, complete. Work includes all labor, professional services, materials, equipment and transportation and all other work as required.

#### 1.3.24 ITEM 0024 (OPTIONAL ITEM)

Payment will be made at the contract lump sum price for Item No. 0024, Install Fencing and Gates for Buildings Constructed under Items 0002AA through 0002AD on Cedar Street on the Southwest side of 70<sup>th</sup> St. N., payment of which shall constitute full compensation for Item No. 0018, complete. Work includes all labor, professional services, materials, equipment and transportation and all other work as required.

#### 1.3.25 ITEM 0025 (OPTIONAL ITEM)

Payment will be made at the contract unit price for Item No. 0025, Install Fencing for Buildings Constructed under Items 0008 through 0011, payment of which shall constitute full compensation for Item No. 0025, complete. Work includes all labor, professional services, materials, equipment and transportation and all other work as required. The total amount of fencing awarded will be based on the number of Optional Items awarded in Items 0008 through 0011.

#### 1.3.26 ITEM 0026 (OPTIONAL ITEM)

Payment will be made at the contract unit price for Item No. 0026, Install Personnel Gates for Buildings Constructed under Items 0008 through 0011, payment of which shall constitute full compensation for Item No. 0026, complete. Work includes all labor, professional services, materials, equipment and transportation and all other work as required. The total amount of personnel gates awarded will be based on the number of Optional Items awarded in Items 0008 through 0011.

#### 1.3.27 ITEM 0027 (OPTIONAL ITEM)

Payment will be made at the contract unit price for Item No. 0027, Install Vehicle Gates for Buildings Constructed under Items 0008 through 0011, payment of which shall constitute full compensation for Item No. 0027, complete. Work includes all labor, professional services, materials, equipment and transportation and all other work as required. The total amount of vehicle gates awarded will be based on the number of Optional Items awarded in Items 0008 through 0011

### 1.3.28 ITEM 0028 (OPTIONAL ITEM)

Payment will be made at the contract lump sum price for Item No. 0028, Mobilize Equipment for Concrete Crushing, payment of which shall constitute full compensation for Item 0028, complete. Work includes all labor, professional services, materials, equipment and transportation necessary for all work related to this item.

### 1.3.29 ITEM 0029 (OPTIONAL ITEM)

Payment will be made at the contract unit price for Item No. 0029, Crush Concrete from Structures Demolished in Base Item 0001, payment of which shall constitute full compensation for Item 0029, complete. Work includes all labor, professional services, materials, equipment and transportation necessary for all work related to this item. Concrete shall be stockpiled and crushed at the Concrete Stockpile Area shown on the drawings and as specified in Section 02220 DEMOLITION.

### 1.3.30 ITEM 0030 (OPTIONAL ITEM)

Payment will be made at the contract unit price for Item No. 0030, Crush Concrete from Structures Demolished in Optional Item 0007, payment of which shall constitute full compensation for Item 0030, complete. Work includes all labor, professional services, materials, equipment and transportation necessary for all work related to this item. Concrete shall be stockpiled and crushed at the Concrete Stockpile Area shown on the drawings and as specified in Section 02220 DEMOLITION.

### 1.3.31 ITEM 0031 (OPTIONAL ITEM)

Payment will be made at the contract lump sum price for Item No. 0031, Demolish any 2 Buildings on Dogwood St., payment of which shall constitute full compensation for Item 0031, complete. Work includes labor, professional services, equipment and transportation and other work as required.

### 1.3.32 ITEM 0032 (OPTIONAL ITEM)

Payment will be made at the contract lump sum price for Item No. 0032, Demolish any 2 Additional Buildings on Dogwood St., payment of which shall constitute full compensation for Item 0032, complete. Work includes labor, professional services, equipment and transportation and other work as required.

### 1.3.33 ITEM 0033 (OPTIONAL ITEM)

Payment will be made at the contract lump sum price for Item No. 0033, Demolish any 2 Additional Buildings on Dogwood St., payment of which shall constitute full compensation for Item 0033, complete. Work includes labor, professional services, equipment and transportation and other work as required.

1.3.34 ITEM 0034 (OPTIONAL ITEM)

Payment will be made at the contract lump sum price for Item No. 0034, Demolish any 2 Additional Buildings on Dogwood St., payment of which shall constitute full compensation for Item 0034, complete. Work includes labor, professional services, equipment and transportation and other work as required.

1.3.35 ITEM 0035 (OPTIONAL ITEM)

Payment will be made at the contract lump sum price for Item No. 0035, Demolish any 1 Additional Building on Dogwood St., payment of which shall constitute full compensation for Item 0035, complete. Work includes labor, professional services, equipment and transportation and other work as required.

1.3.36 ITEM 0036 (OPTIONAL ITEM)

Payment will be made at the contract lump sum price for Item No. 0036, Demolish any 1 Additional Building on Dogwood St., payment of which shall constitute full compensation for Item 0036, complete. Work includes labor, professional services, equipment and transportation and other work as required.

1.3.36 ITEM 0036 (OPTIONAL ITEM)

Payment will be made at the contract lump sum price for Item No. 0036, Demolish any 1 Additional Building on Dogwood St., payment of which shall constitute full compensation for Item 0036, complete. Work includes labor, professional services, equipment and transportation and other work as required.

1.3.37 ITEM 0037 (OPTIONAL ITEM)

Payment will be made at the contract lump sum price for Item No. 0037, Demolish any 1 Additional Building on Dogwood St., payment of which shall constitute full compensation for Item 0037, complete. Work includes labor, professional services, equipment and transportation and other work as required.

1.3.38 ITEM 0038 (OPTIONAL ITEM)

Payment will be made at the contract lump sum price for Item No. 0038, Demolish any 1 Additional Building on Dogwood St., payment of which shall constitute full compensation for Item 0038, complete. Work includes labor, professional services, equipment and transportation and other work as required.

1.3.39 ITEM 0039 (OPTIONAL ITEM)

Payment will be made at the contract lump sum price for Item No. 0039, Demolish any 1 Additional Building on Dogwood St., payment of which shall constitute full compensation for Item 0039, complete. Work includes labor, professional services, equipment and transportation and other work as required.

#### 1.4 PROGRESS PAYMENT INVOICE

Requests for payment shall be submitted in accordance with Federal Acquisition Regulations (FAR) Subpart 32.9, entitled "PROMPT PAYMENT", and Paragraphs 52.232-5 and 52.232-27, entitled "Payments Under Fixed-Price Construction Contracts", and "Prompt Payment for Construction Contracts", respectively. In addition each request shall be submitted in the number of copies and to the designated billing office as shown in the Contract.

1.4.1 When submitting payment requests, the Contractor shall complete Blocks 1 through 12 of the "PROGRESS PAYMENT INVOICE" Form as directed by the Contracting Officer. (A sample form is attached at the end of this Technical Specification Section.) The completed form shall then become the cover document to which all other support data shall be attached.

1.4.2 One additional copy of the entire request for payment, to include the "PROGRESS PAYMENT INVOICE" cover document, shall be forwarded to a separate address as designated by the Contracting Officer.

PARTS 2 and 3 NOT USED

**PROGRESS PAYMENT INVOICE**

See Federal Acquisition Regulations (FAR) 32.900, 52.232-5, & 52.232-27

1. PROJECT AND LOCATION	2. DATE
3. CONTRACTOR NAME AND ADDRESS (Must be the same as in the Contract)	4. CONTRACT NO.
	5. INVOICE NO.
6. DESCRIPTION OF WORK	7. PERIOD OF PERFORMANCE  From:  To:
8. DISCOUNT TERMS	
9. OFFICIAL TO WHOM PAYMENT IS TO BE FORWARDED Name: Title: Phone: ( ) -	10. OFFICIAL TO BE NOTIFIED OF DEFECTIVE INVOICE Name: Title: Phone ( ) -
<p><b>11. CERTIFICATION: I hereby certify, to the best of my knowledge and belief, that</b></p> <p><b>(1) The amounts requested are only for the performance in accordance with the specifications, terms, and conditions of this contract;</b></p> <p><b>(2) Payments to subcontractors and suppliers have been made from previous payments received under the contract, and timely payments will be made from the proceeds of the payment covered by this certification,</b></p> <p><b>in accordance with subcontract agreements and the requirements of Chapter 39 of Title 31, United States Code;</b></p> <p><b>and</b></p> <p><b>(3) This request for progress payment does not include any amounts which the prime contractor intends to withhold or retain from a subcontractor or supplier in accordance with the terms and conditions of the subcontract.</b></p>	
_____	_____
<b>(Signature)</b>	<b>(Title)</b>
_____	<b>(Date)</b>
<p>12. OTHER INFORMATION OR DOCUMENTATION required by Contract. Provide two (2) copies of each (check and attach if applicable):</p> <p>_____ Updated Progress Chart/Schedule</p> <p>_____ Progress Narrative</p> <p>_____ Certified Payrolls (submitted weekly)</p> <p>_____ Safety Exposure Report</p> <p>_____ Updated Submittal Register</p> <p>_____ Progress Photos</p> <p>_____ Subcontractor/Employee Listings</p>	<p>(FOR GOVERNMENT USE ONLY)</p> <p>Retainage: _____% Amt.: \$ _____</p> <p>Withholdings: \$ _____</p> <p>Reason: _____ _____</p> <p>Following items are current:</p> <p>As-Builts _____ Yes _____ No</p> <p>O &amp; M Manuals _____ Yes _____ No</p> <p>1354 Data _____ Yes _____ No</p> <p>Submittal Register _____ Yes _____ No</p>

END OF SECTION

## SECTION 02220 - DEMOLITION

### PART 1 GENERAL

#### 1.1 REFERENCES

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

##### AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

ANSI A10.6 (1990) Safety Requirements for Demolition Operations

##### U.S. NATIONAL ARCHIVES AND RECORDS ADMINISTRATION (NARA)

40 CFR 61-SUBPART M National Emission Standard for Asbestos

40 CFR 82 Protection of Stratospheric Ozone; Refrigerant Recycling

##### U.S. ARMY CORPS OF ENGINEERS (USACE)

EM 385-1-1 (1996) U.S. Army Corps of Engineers Safety and Health Requirements Manual

#### 1.2 GENERAL REQUIREMENTS

Do not begin demolition until authorization is received from the Contracting Officer. Remove rubbish and debris from the project site; do not allow accumulations inside or outside the buildings. The work includes demolition and removal of resulting rubbish and debris. Rubbish and debris shall be removed from Government property daily, unless otherwise directed, to avoid accumulation at the demolition site. Materials that cannot be removed daily shall be stored in areas specified by the Contracting Officer. In the interest of occupational safety and health, the work shall be performed in accordance with EM 385-1-1, Section 23, Demolition, and other applicable Sections.

#### 1.3 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only or as otherwise designated. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-03 Product Data

Work Plan; G

The procedures proposed for the accomplishment of the work. The procedures shall provide for safe conduct of the work, including procedures and methods to provide necessary supports, lateral bracing and shoring when required, careful removal and disposition of materials specified to be salvaged, protection of property which is to remain undisturbed, coordination with other work in progress, and timely disconnection of utility

services. The procedures shall include a detailed description of the methods and equipment to be used for each operation, and the sequence of operations in accordance with EM 385-1-1.

#### SD-07 Certificates

Demolition plan; G

Notifications; G

Notification of Demolition forms; G

Submit proposed demolition and removal procedures to the Contracting Officer for approval before work is started.

#### SD-11 Closeout Submittals

Receipts

### 1.4 REGULATORY AND SAFETY REQUIREMENTS

Comply with federal, state, and local hauling and disposal regulations. In addition to the requirements of the "Contract Clauses," safety requirements shall conform to ANSI A10.6. Comply with requirements of Section 01005 Site Specific Supplementary Requirements for truck load limits on base.

#### 1.4.1 Notifications

Furnish timely notification of demolition projects to Federal, State, regional, and local authorities in accordance with 40 CFR 61-SUBPART M. Notify the local air pollution control district/agency and the Contracting Officer in writing 10 working days prior to the commencement of work in accordance with 40 CFR 61-SUBPART M.

Complete and submit Notification of Demolition forms to Federal and State authorities and Contracting Officer, postmarked or delivered at least ten working days prior to commencement of work, in accordance with 40 CFR 61-SUBPART M.

### 1.5 DUST AND DEBRIS CONTROL

Prevent the spread of dust and debris and avoid the creation of a nuisance or hazard in the surrounding area. Do not use water if it results in hazardous or objectionable conditions such as, but not limited to, ice, flooding, or pollution.

### 1.6 PROTECTION

#### 1.6.1 Traffic Control Signs

Where pedestrian and driver safety is endangered in the area of removal work, use traffic barricades with flashing lights. Notify the Contracting Officer prior to beginning such work.

### 1.6.2 Existing Work

Before beginning any demolition work, the Contractor shall survey the site and examine the drawings and specifications to determine the extent of the work. The Contractor shall take necessary precautions to avoid damage to existing items to remain in place or to be reused; any damaged items shall be repaired or replaced as approved by the Contracting Officer. The Contractor shall coordinate the work of this section with all other work and shall construct and maintain shoring, bracing, and supports as required. The Contractor shall ensure that structural elements are not overloaded and shall be responsible for increasing structural supports or adding new supports as may be required as a result of any cutting, removal, or demolition work performed under this contract. Do not overload pavements to remain. Provide new supports and reinforcement for existing construction weakened by demolition or removal work. Repairs, reinforcement, or structural replacement must have Contracting Officer approval.

### 1.6.3 Weather Protection

For portions of the building to remain, protect building interior and materials and equipment from the weather at all times. Where removal of existing roofing is necessary to accomplish work, have materials and workmen ready to provide adequate and temporary covering of exposed areas so as to ensure effectiveness and to prevent displacement.

### 1.6.4 Trees

A 6-foot high fence shall protect trees within the project site which might be damaged during demolition, and which are indicated to be left in place. The fence shall be securely erected a minimum of 5 feet from the trunk of individual trees or follow the outer perimeter of branches or clumps of trees. Any tree designated to remain that is damaged during the work under this contract shall be replaced in kind or as approved by the Contracting Officer.

### 1.6.5 Facilities

Protect electrical and mechanical services and utilities. Where removal of existing utilities and pavement is specified or indicated, provide approved barricades, temporary covering of exposed areas, and temporary services or connections for electrical and mechanical utilities. Floors, roofs, walls, columns, pilasters, and other structural components that are designed and constructed to stand without lateral support or shoring, and are determined to be in stable condition, shall remain standing without additional bracing, shoring, or lateral support until demolished, unless directed otherwise by the Contracting Officer. The Contractor shall ensure that no elements determined to be unstable are left unsupported and shall be responsible for placing and securing bracing, shoring, or lateral supports as may be required as a result of any cutting, removal, or demolition work performed under this contract.

### 1.6.6 Protection of Personnel

During the demolition work the Contractor shall continuously evaluate the condition of the structure being demolished and take immediate action to protect all personnel working in and around the demolition site. No area, section, or component of floors, roofs, walls, columns, pilasters, or other structural element will be allowed to be left standing without sufficient bracing, shoring, or lateral support to prevent collapse or failure while workmen remove debris or perform other work in the immediate area.

## 1.7 BURNING

The use of burning at the project site for the disposal of refuse and debris will not be permitted.

## 1.8 RELOCATIONS

Perform the removal and reinstallation of relocated items as indicated with workmen skilled in the trades involved. Repair items to be relocated which are damaged or replace damaged items with new undamaged items as approved by the Contracting Officer.

## 1.9 REQUIRED DATA

Demolition plan shall include procedures for coordination with other work in progress, a disconnection schedule of utility services and a detailed description of methods and equipment to be used for each operation and of the sequence of operations.

## 1.10 ENVIRONMENTAL PROTECTION

The work shall comply with the requirements of Section 01061355 ENVIRONMENTAL PROTECTION.

## 1.11 USE OF EXPLOSIVES

Use of explosives will not be permitted.

## PART 2 PRODUCTS

Not used.

## PART 3 EXECUTION

### 3.1 EXISTING FACILITIES TO BE REMOVED

#### 3.1.1 Structures

Existing structures shown to be removed on the plans, including foundations and footings, shall be removed entirely. Basement, carport and porch walls, foundations and slabs shall be removed. Sidewalks, curbs, gutters and street light bases shall be removed as indicated.

#### 3.1.2 Utilities and Related Equipment

Remove existing utilities, as indicated and terminate in a manner conforming to the nationally recognized code covering the specific utility and approved by the Contracting Officer. When utility lines are encountered that are not indicated on the drawings, the Contracting Officer shall be notified prior to further work in that area. Remove meters and related equipment and deliver to a location in accordance with instructions of the Contracting Officer. If utility lines are encountered that are not shown on drawings, contact the Contracting Officer for further instructions. Removal and disposal of asbestos concrete waterlines shall be in accordance with Section 13280 ASBESTOS ABATEMENT

### 3.1.3 Paving and Slabs

Provide neat sawcuts at limits of pavement removal as indicated on the plans or as required to accomplish the associated activity.

### 3.1.4 Concrete

Saw concrete along straight lines to a depth of not less than 2 inches. Make each cut in walls perpendicular to the face and in alignment with the cut in the opposite face. Break out the remainder of the concrete provided that the broken area is concealed in the finished work, and the remaining concrete is sound. At locations where the broken face cannot be concealed, grind smooth or saw cut entirely through the concrete.

## 3.2 DISPOSITION OF MATERIAL

### 3.2.1 Title to Materials

Except where specified in other sections, all materials and equipment removed, and not reused, shall become the property of the Contractor and shall be removed from Government property. Title to materials resulting from demolition, and materials and equipment to be removed, is vested in the Contractor upon approval by the Contracting Officer of the Contractor's demolition and removal procedures, and authorization by the Contracting Officer to begin demolition. The Government will not be responsible for the condition or loss of, or damage to, such property after contract award. Materials and equipment shall not be viewed by prospective purchasers or sold on the site. All materials and items scheduled for disposal shall be disposed of in accordance with State and Federal regulations at the expense of the contractor.

### 3.2.2 Salvaged Materials and Equipment

Remove materials and equipment that are indicated to be removed by the Contractor and that are to remain the property of the Government. ~~Deliver range/ovens, dishwashers, and refrigerators indicated to remain the property of the Government to Defense Reutilization and Marketing Office (DRMO) facility, Building No. 1531, Malmstrom AFB, MT, as directed by the Contracting Officer.~~ Deliver fire hydrants indicated for removal to the Base Utility Shop, Building No. 220, Malmstrom AFB, MT, as directed by the Contracting Officer.

The attached 'Disposition of Existing Kitchen Appliances' identifies ~~appliances which are to remain the property of the Government and~~ appliances which are to be removed by the Contractor.

Contractor shall salvage items and material to the maximum extent possible.

Materials salvaged for the Contractor shall be stored as approved by the Contracting Officer and shall be removed from Government property before completion of the contract. Material salvaged for the Contractor shall not be sold on the site.

Salvaged items to remain the property of the Government shall be removed in a manner to prevent damage, and packed or crated to protect the items from damage during shipment. Items damaged during removal or storage shall be repaired or replaced to match existing items.

### 3.2.3 Reuse of Materials and Equipment

Remove and store materials and equipment indicated on the plans to be reused or relocated to prevent damage, and reinstall as the work progresses.

### 3.2.4 Disposal of Ozone Depleting Substance (ODS)

Class I and Class II ODS are defined in Section, 602(a) and (b), or the Clean Air Act. Prevent discharge of Class I and Class II ODS to the atmosphere. Place recovered ODS in cylinders meeting ARI Guideline K suitable for the type ODS (filled to no more than 80 percent capacity) and provide appropriate labeling. Recovered ODS shall be removed from Government property and disposed of in accordance with 40 CFR 82. Products, equipment and appliances containing ODS in a sealed, self-contained system (e.g. residential refrigerators and window air conditioners) shall be disposed of in accordance with 40 CFR 82.

#### 3.2.4.1 Special Instructions

Each container shall have in it no more than one type of ODS. A warning/hazardous label shall be applied to the containers in accordance with Department of Transportation regulations. All cylinders including but not limited to fire extinguishers, spheres, or canisters containing an ODS shall have a tag with the following information:

- a. Activity name and unit identification code
- b. Activity point of contact and phone number
- c. Date of shipment
- d. E. Naval stock number (for information, call (804) 279-4525).

### 3.2.5 Transportation Guidance

Shipment of all ODS containers shall be in accordance with MIL-STD-129, DLA 4145.25 (also referenced one of the following Army Regulation 700-68, Naval Supply Instruction 4440.128C, Marine Corps Order 10330.2C, and Air Force Regulation 67-12), 49 CFR 173.301, and DOD 4000.25-1-M.

### 3.2.6 Stockpiled Concrete Rubble

Concrete, except concrete permitted to remain in place, shall be disposed of in the concrete stockpile area shown on the drawings. Any other building materials shall be removed from the concrete prior to hauling to stockpile. Pile rubble as high as possible to minimize footprint of stockpile. If required, the stockpile area shall be uniformly graded to drain prior to commencing stockpiling operations. Combustible material shall be disposed of off the site.

### 3.2.7 Concrete Crushing

Concrete rubble shall be crushed on-site to 1" minus gradation. Reinforcing Steel to be separated from crushed concrete and stockpiled.

### 3.3 HAZARDOUS BUILDING MATERIALS MANAGEMENT

Regulated asbestos-containing materials are identified in Specification Section 13280 Asbestos Abatement. Removal of this material prior to demolition shall be in accordance with Section 13280.

The Contractor shall ensure that building materials are kept adequately wet prior, during, and after demolition activities to prevent the release of particulates.

Lead-based paint is present in all units. The Contractor shall ensure that all practices used during demolition will be protective of workers to prevent potential lead exposure.

Other hazardous building materials identified in the units include fluorescent light bulbs, light ballasts, refrigerators, fire extinguishers, and smoke detectors. These materials shall be removed prior to demolition of the units. Table 1 shows the quantities to be removed.

The Contractor shall verify the material types, locations and quantities prior to demolition.

### 3.4 CLEANUP

#### 3.4.1 Debris and Rubbish

Debris and rubbish shall be removed from basement and similar excavations. Debris shall be removed and transported in a manner that prevents spillage on streets or adjacent areas. Local regulations regarding hauling and disposal shall apply.

Table 1. Other Hazardous Building Material Quantities

Material	Quantity
Fluorescent Light Tubes	18
Light Ballasts	18
Refrigerators	94
Fire Extinguishers	94
Smoke Detectors	752

Disposition of Existing Kitchen Appliances

Unit Address	Refrigerator	Range/Oven	Dishwasher	Unit Address	Refrigerator	Range/Oven	Dishwasher
<b>Aspen Street</b>				<b>Cedar Street</b>			
700	remove	Gov'tremove	Gov't remove	709	none	Gov'tremove	Gov'tremove
701	none	Gov'tremove	Gov'tremove	710	remove	Gov'tremove	Gov'tremove
702	none	Gov'tremove	Gov'tremove	711	none	Gov'tremove	Gov'tremove
703	none	Gov'tremove	Gov'tremove	712	Gov'tremove	Gov'tremove	Gov'tremove
704	Gov'tremove	Gov'tremove	Gov'tremove	713	none	none	Gov'tremove
705	none	Gov'tremove	Gov'tremove	714	none	Gov'tremove	Gov'tremove
706	none	Gov'tremove	none	715	none	Gov'tremove	Gov'tremove
707	none	Gov'tremove	Gov'tremove	800	Gov'tremove	Gov'tremove	Gov'tremove
708	Gov'tremove	Gov'tremove	Gov'tremove	801	Gov'tremove	Gov'tremove	Gov'tremove
709	none	Gov'tremove	none	802	Gov'tremove	Gov'tremove	Gov'tremove
710	none	Gov'tremove	Gov'tremove	803	Gov'tremove	Gov'tremove	Gov'tremove
711	Gov'tremove	Gov'tremove	Gov'tremove	804	Gov'tremove	none	none
712	Gov'tremove	Gov'tremove	Gov'tremove	805	Gov'tremove	none	Gov'tremove
<b>Cedar Street</b>				<b>Dogwood St.</b>			
418	Gov'tremove	Gov'tremove	Gov'tremove	400	none	none	none
420	Gov'tremove	Gov'tremove	Gov'tremove	401	Gov'tremove	Gov'tremove	Gov'tremove
424	Gov'tremove	Gov'tremove	Gov'tremove	402	Gov'tremove	Gov'tremove	Gov'tremove
426	Gov'tremove	none	Gov'tremove	403	Gov'tremove	none	Gov'tremove
500	none	Gov'tremove	Gov'tremove	404	Gov'tremove	none	none
501	none	Gov'tremove	Gov'tremove	405	Gov'tremove	none	none
502	Gov'tremove	Gov'tremove	Gov'tremove	406	Gov'tremove	Gov'tremove	Gov'tremove
503	none	Gov'tremove	none	407	none	Gov'tremove	Gov'tremove
504	Gov'tremove	Gov'tremove	none	408	none	none	none
505	Gov'tremove	Gov'tremove	Gov'tremove	409	none	none	Gov'tremove
506	none	Gov'tremove	none	410	Gov'tremove	none	Gov'tremove
507	Gov'tremove	Gov'tremove	Gov'tremove	411	none	none	remove
508	none	remove	Gov'tremove	500	Gov'tremove	Gov'tremove	Gov'tremove
509	Gov'tremove	Gov'tremove	Gov'tremove	501	none	remove	none
510	none	Gov'tremove	Gov'tremove	502	Gov'tremove	Gov'tremove	Gov'tremove
511	Gov'tremove	Gov'tremove	Gov'tremove	503	none	Gov'tremove	none
600	Gov'tremove	Gov'tremove	Gov'tremove	504	Gov'tremove	Gov'tremove	Gov'tremove
601	Gov'tremove	remove	Gov'tremove	505	Gov't	Gov'tremove	Gov'tremove
602	none	Gov'tremove	none	506	none	Gov'tremove	Gov'tremove
603	none	Gov'tremove	Gov'tremove	507	Gov'tremove	none	none
604	none	none	Gov'tremove	508	remove	none	none
605	Gov'tremove	Gov'tremove	Gov'tremove	509	none	remove	remove
606	Gov'tremove	none	Gov'tremove	510	Gov'tremove	Gov'tremove	Gov'tremove
607	Gov'tremove	remove	none	511	none	none	none
608	Gov'tremove	Gov'tremove	none	513	Gov'tremove	Gov'tremove	Gov'tremove
609	Gov'tremove	Gov'tremove	Gov'tremove	515	Gov'tremove	Gov'tremove	none
610	Gov'tremove	Gov'tremove	Gov'tremove				
611	Gov'tremove	Gov'tremove	none				
612	none	Gov'tremove	Gov'tremove				
614	none	remove	Gov'tremove				
700	Gov'tremove	Gov'tremove	none				
701	none	Gov'tremove	Gov'tremove				
702	Gov'tremove	Gov'tremove	Gov'tremove				
703	Gov'tremove	Gov'tremove	Gov'tremove				
704	Gov'tremove	none	Gov'tremove				
705	Gov'tremove	Gov'tremove	none				
706	Gov'tremove	Gov'tremove	Gov'tremove				
707	Gov'tremove	Gov'tremove	Gov'tremove				
708	none	remove	Gov'tremove				

**Legend**  
 Gov't = Remains property of the Government, Contractor to deliver appliance to DRMO  
 remove = Contractor salvage, appliance to be removed by the Contractor  
 none = No item at this location, appliance has been removed by the Government

END OF SECTION 02220

## SECTION 02316 - EXCAVATION, TRENCHING AND BACKFILLING FOR UTILITIES SYSTEMS

### PART 1 GENERAL

#### 1.1 REFERENCES

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

##### AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM D 698	(2000a) Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/cu. ft. (600 kN-m/cu. m.))
ASTM D 1556	(1990; R 1996) Density and Unit Weight of Soil in Place by the Sand-Cone Method
ASTM D 2487	(1998) Classification of Soils for Engineering Purposes (Unified Soil Classification System)

#### 1.2 DEGREE OF COMPACTION

Degree of compaction shall be expressed as a percentage of the maximum density obtained by the test procedure presented in ASTM D 698.

#### 1.3 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

##### SD-03 Product Data

###### Compaction Test Plan; G

Contractor is required to submit for approval a compaction-testing plan. This submittal is required prior to the start of field activities. The lift and approximate location of each anticipated test should be depicted on the testing plan. The compaction testing results should be keyed to the plan and submitted to the government prior to the final inspection and BOD.

##### SD-06 Test Reports

###### Field Density Tests Testing of Backfill Materials

Copies of all laboratory and field test reports within 24 hours of the completion of the test

## PART 2 PRODUCTS

### 2.1 MATERIALS

#### 2.1.1 Satisfactory Materials

Satisfactory materials shall comprise any materials classified by ASTM D 2487 as GW, GP, GC, GP-GC, GM-GC, SW, SP & CL. Materials classified as SM, GM, GP-GM & GW-GM are satisfactory provided they contain water contents suitable for their intended use.

#### 2.1.2 Unsatisfactory Materials

Materials, which do not comply with the requirements for satisfactory materials are unsatisfactory. Unsatisfactory materials also include man-made fills, trash, refuse, or backfills from previous construction. Unsatisfactory material also includes material classified as satisfactory, which contains root and other organic matter, frozen material and stones larger than 3 inches. The Contracting Officer shall be notified of any contaminated materials.

#### 2.1.3 Cohesionless and Cohesive Materials

Cohesionless materials include materials classified in ASTM D 2487 as GW, GP, SW & SP. Cohesive materials include materials classified as GC, SC, ML, CL, MH & CH. Materials classified as GM, GP-GM, GW-GM, SW-SM, SP-SM & SM shall be identified as cohesionless only when the fines are nonplastic.

#### 2.1.4 Unyielding Material

Unyielding material shall consist of rock and gravelly soils with stones greater than 3 inches in any dimension or as defined by the pipe manufacturer, whichever is smaller.

#### 2.1.5 Unstable Material

Unstable material shall consist of materials too wet to properly support the utility pipe, conduit, or appurtenant structure.

#### 2.1.6 Select Granular Material

Where unstable material is encountered in the bottom of the trench, such material shall be removed and replaced with select granular material. Select granular material shall be non-swelling and conform to the following gradation:

U.S. Standard      Percent Passing Sieve Size

3 inch	100
No. 4	20-40
No. 200	0-10

### 2.1.7 Competent Native Clay Materials

Native clay materials suitable for sub-grade and/or backfill shall be competent CL materials with moisture content at the time of compaction ranging from 1 percent below to 4 percent above optimum moisture content.

### 2.1.8 Initial Backfill Material

Initial backfill shall consist of select granular material or satisfactory materials free from rocks 1 inch or larger in any dimension or free from rocks of such size as recommended by the pipe manufacturer, whichever is smaller. When the pipe is coated or wrapped for corrosion protection, the initial backfill material shall be free of stones larger than 1 inch in any dimension or as recommended by the pipe manufacturer, whichever is smaller.

## 2.2 PLASTIC MARKING TAPE

Plastic marking tape shall be acid and alkali-resistant polyethylene film, 6 inches wide with minimum thickness of 0.004 inch. Tape shall have a minimum strength of 1750 psi lengthwise and 1500 psi crosswise. The tape shall be manufactured with integral wires, foil backing or other means to enable detection by a metal detector when the tape is buried up to 3 feet deep. The tape shall be of a type specifically manufactured for marking and locating underground utilities. The metallic core of the tape shall be encased in a protective jacket or provided with other means to protect it from corrosion. Tape color shall be as specified in TABLE 1 and shall bear a continuous printed inscription describing the specific utility.

TABLE 1. Tape Color

Red:	Electric
Yellow:	Gas, Oil, Dangerous Materials
Orange:	Telephone, Telegraph, Television, Police, and Fire Communications
Blue:	Water Systems
Green:	Sewer Systems

Locator pegs (passive underground utilities) shall be of a type specifically manufactured for electronic marking of underground utilities. ~~The transponder pegs have a polyethylene shell, detachable to a vertical distance of, and have an accuracy of plus.~~ Locator pegs should be placed at 50 foot intervals on straight line utility runs and at every utility bend or tee connection. Locator pegs shall be placed directly on the utility in the vertical position. Maximum depth of reading for utility pegs is 9'-0". If utility is deeper than 9'-0", measured from top of utility to finished grade, place utility locator peg at 9'-0" in the vertical position. The frequency of the pegs shall be as below: Locator Peg Frequency Requirements 169.8 KHz Electric 83 KHz Gas, Oil, Dangerous Materials 101.4 KHz Telephone, Telegraph, Television, Police and Fire communications 145.7KHz: Water Systems 122.5 KHz: Sanitary Sewer Systems Transponder pegs shall be manufactured by Communications Technology Corporation in Atlanta, Georgia, or equivalent.

## PART 3 EXECUTION

### 3.1 EXCAVATION

Excavation shall be performed to the lines and grades indicated. Rock excavation shall include removal and disposition of material defined as rock in paragraph MATERIALS. Earth excavation shall include removal and disposal of material not classified as rock excavation. During excavation, material satisfactory for backfilling shall be stockpiled in an orderly manner at a distance from the banks of the trench equal to 1/2 the depth of the excavation, but in no instance closer than 2 feet. Excavated material not required or not satisfactory for backfill shall be removed from the site. Grading shall be done as may be necessary to prevent surface water from flowing into the excavation, and any water accumulating shall be removed to maintain the stability of the bottom and sides of the excavation. Unauthorized over excavation shall be backfilled in accordance with paragraph BACKFILLING AND COMPACTION at no additional cost to the Government.

#### 3.1.1 Trench Excavation Requirements

The trench shall be excavated as recommended by the manufacturer of the pipe to be installed. Trench walls below the top of the pipe shall be sloped, or made vertical, and of such width as recommended in the manufacturer's installation manual. Where no manufacturer's installation manual is available, trench walls shall be made vertical. Trench walls more than feet high shall be shored, cut back to a stable slope, or provided with equivalent means of protection for employees who may be exposed to moving ground or cave in. Vertical trench walls more than feet high shall be shored. Trench walls, which are cut back shall be excavated to at least the angle of repose of the soil. Special attention shall be given to slopes, which may be adversely affected by weather or moisture content. The trench width below the top of pipe shall not exceed 24 inches plus pipe outside diameter (O.D.) for pipes of less than 24 inches inside diameter and shall not exceed 36 inches plus pipe outside diameter for sizes larger than 24 inches inside diameter. Where recommended trench widths are exceeded, then the Contractor shall utilize redesign, stronger pipe or special installation procedures. The cost of redesign, stronger pipe, or special installation procedures shall be borne by the Contractor without any additional cost to the Government.

##### 3.1.1.1 Bottom Preparation

The bottoms of trenches shall be accurately graded to provide uniform bearing and support for the bottom quadrant of each section of the pipe. Bell holes shall be excavated to the necessary size at each joint or coupling to eliminate point bearing. Stones of 3 inches or greater in any dimension, or as recommended by the pipe manufacturer, whichever is smaller, shall be removed to avoid point bearing.

##### 3.1.1.2 Removal of Unyielding Material

Where unyielding material is encountered in the bottom of the trench, such material shall be removed 4 inches below the required grade and replaced with suitable materials as provided in paragraph BACKFILLING AND COMPACTION.

##### 3.1.1.3 Removal of Unstable Material

Where unstable material is encountered in the bottom of the trench, such material shall be removed to the depth directed and replaced to the proper grade with select granular material as provided in paragraph BACKFILLING AND COMPACTION. When removal of unstable material is required due

to the Contractor's fault or neglect in performing the work, the resulting material shall be excavated and replaced by the Contractor without additional cost to the Government.

#### 3.1.1.4 Excavation for Appurtenances

Excavation for manholes, catch-basins, inlets, or similar structures shall be sufficient to leave at least 12 inches clear between the outer structure surfaces and the face of the excavation or support members. Rock shall be cleaned of loose debris and cut to a firm surface either level, stepped, or serrated, as shown or as directed. Loose disintegrated rock and thin strata shall be removed. Removal of unstable material shall be as specified above. When concrete or masonry is to be placed in an excavated area, special care shall be taken not to disturb the bottom of the excavation. Excavation to the final grade level shall not be made until just before the concrete or masonry is to be placed.

#### 3.1.1.5 Jacking, Boring, and Tunneling

Unless otherwise indicated, excavation shall be by open cut except that sections of a trench may be jacked, bored, or tunneled if, in the opinion of the Contracting Officer, the pipe, cable, or duct can be safely and properly installed and backfill can be properly compacted in such sections.

#### 3.1.2 Stockpiles

Stockpiles of satisfactory shall be placed and graded as specified. Stockpiles shall be kept in a neat and well-drained condition, giving due consideration to drainage at all times. The ground surface at stockpile locations shall be cleared, grubbed, and sealed by rubber-tired equipment, excavated satisfactory and unsatisfactory materials shall be separately stockpiled. Stockpiles of satisfactory materials shall be protected from contamination, which may destroy the quality and fitness of the stockpiled material. If the Contractor fails to protect the stockpiles, and any material becomes unsatisfactory, such material shall be removed and replaced with satisfactory material from approved sources at no additional cost to the Government. Locations of stockpiles of satisfactory materials shall be subject to prior approval of the Contracting Officer.

### 3.2 BACKFILLING AND COMPACTION

Backfill material shall consist of satisfactory material, select granular material, or initial backfill material as required. Backfill shall be placed in layers not exceeding 6 inches loose thickness for compaction by hand operated machine compactors, and 8 inches loose thickness for other than hand operated machines, unless otherwise specified. Each layer shall be compacted to at least 95 percent maximum density for cohesionless soils and 90 percent maximum density for cohesive soils, unless otherwise specified.

#### 3.2.1 Trench Backfill

Trenches shall be backfilled to the grade shown. The trench shall not be backfilled until all specified tests are performed.

##### 3.2.1.1 Replacement of Unyielding Material

Unyielding material removed from the bottom of the trench shall be replaced with select granular material or initial backfill material.

### 3.2.1.2 Replacement of Unstable Material

Unstable material removed from the bottom of the trench or excavation shall be replaced with select granular material placed in layers not exceeding 6 inches loose thickness.

### 3.2.1.3 Bedding and Initial Backfill

Granular bedding for utility pipes shall consist of material meeting the following gradation requirements: 100 percent by weight passing the 1-inch sieve; 40 percent to 80 percent by weight passing the No. 4 sieve; and 0 percent to 10 percent by weight passing the No. 200 sieve, or as recommended by the utility pipe manufacturer. Initial backfill material shall be non-plastic ( $PI < 6$ ). Initial backfill material shall be placed and compacted with approved tampers to a height of at least one foot above the utility pipe or conduit. The backfill shall be brought up evenly on both sides of the pipe for the full length of the pipe. Care shall be taken to ensure thorough compaction of the fill under the haunches of the pipe.

### 3.2.1.4 Final Backfill

The remainder of the trench, except for special materials for roadways, railroads and airfields, shall be filled with satisfactory material. Backfill material shall be placed and compacted as follows:  
Sidewalks, Turfed or Seeded Areas and Miscellaneous Areas: Backfill shall be deposited in layers of a maximum of 12 inch loose thickness, and compacted to 85 percent maximum density for cohesive soils and 90 percent maximum density for cohesionless soils. Compaction by water flooding or jetting will not be permitted. This requirement shall also apply to all other areas not specifically designated above.

### 3.2.2 Backfill for Appurtenances

After the manhole, catch basin, inlet, or similar structure has been constructed and the concrete has been allowed to cure for 3 days, backfill shall be placed in such a manner that the structure will not be damaged by the shock of falling earth. The backfill material shall be deposited and compacted as specified for final backfill, and shall be brought up evenly on all sides of the structure to prevent eccentric loading and excessive stress.

## 3.3 SPECIAL REQUIREMENTS

Special requirements for both excavation and backfill relating to the specific utilities are as follows:

### 3.3.1 Gas Distribution

Trenches shall be excavated to a depth that will provide not less than 18 inches of cover. Trenches shall be graded as specified for pipe-laying requirements in Section 02556a GAS DISTRIBUTION SYSTEM.

### 3.3.2 Water Lines

Trenches shall be of a depth to provide a minimum cover of 6 feet from the existing ground surface, or from the indicated finished grade, whichever is lower, to the top of the pipe. For fire protection yard mains or piping, an additional 6 inches of cover is required.

### 3.3.3 Electrical Distribution System

Direct burial cable and conduit or duct line shall have a minimum cover of 24 inches from the finished grade, unless otherwise indicated.

### 3.3.4 Plastic Marking Tape

Warning tapes shall be installed directly above the pipe, at a depth of 18" below finished grade unless otherwise shown.

## 3.4 TESTING

Testing shall be the responsibility of the Contractor and shall be performed at no additional cost to the Government.

### 3.4.1 Testing Facilities

Tests shall be performed by an approved commercial testing laboratory

### 3.4.2 Testing of Backfill Materials

Classification of backfill materials shall be determined in accordance with ASTM D 2487 and the moisture-density relations of soils shall be determined in accordance with ASTM D 698. A minimum of one soil classification and one moisture-density relation test shall be performed on each different type of material used for bedding and backfill.

### 3.4.3 Field Density Tests

Tests shall be performed in sufficient numbers to ensure that the specified density is being obtained. A minimum of one field density test per lift of backfill for every 200 feet of installation shall be performed. One moisture density relationship shall be determined for every 1500 cubic yards of material used. Field in-place density shall be determined in accordance with ASTM D 1556. Copies of calibration curves, results of calibration tests, and field and laboratory density tests shall be furnished to the Contracting Officer. Trenches improperly compacted shall be reopened to the depth directed, then refilled and compacted to the density specified at no additional cost to the Government.

### 3.4.4 Displacement of Sewers

After other required tests have been performed and the trench backfill compacted to the finished grade surface, the pipe shall be inspected to determine whether significant displacement has occurred. This inspection shall be conducted in the presence of the Contracting Officer. Pipe sizes larger than 36 inches shall be entered and examined, while smaller diameter pipe shall be inspected by shining a light or laser between manholes or manhole locations, or by the use of television cameras passed through the pipe. If, in the judgement of the Contracting Officer, the interior of the pipe shows poor alignment or any other defects that would cause improper functioning of the system, the defects shall be remedied as directed at no additional cost to the Government.

END OF SECTION 02316

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## Drawing Index

PLATE		
FILE NAME	NUMBER	DWG TITLE
ebs003.CAL	C-100	Overall Site Plan
ebs006.CAL	C-103	Exist Cond./Demo. Plan (Area C)
ebs010.CAL	C-107	Site Plan (Area C)
ebs014.CAL	C-111	Grading/Drainage Plan (Area C)
ebs018.CAL	C-115	Utilities Plan (Area C)
ebs022.CAL	C-119	Combined Utilities Plan (Area C)
ebs042.CAL	L-105	Planting Plan (Area C)
ebs090.CAL	AD-100	Demolition Site Plan
ebs101.CAL	A-100	Housing Site Plan
ebs138.CAL	A-301	Building Sections - Unit 2C (2J Sim)
ebs139.CAL	A-302	Building Sections - Unit 3C (3J Sim)
ebs140.CAL	A-303	Building Sections – Units 3C-HC, 4C (4J Sim)
ebs141.CAL	A-304	Building Sections – Unit 4S0
ebs142.CAL	A-305	Building Sections – Units 4S0, 4S0-MAX, 4S0-CV
ebs138.CAL	A-301	Building Sections – Unit 2C (2J Sim)
ebs139.CAL	A-302	Building Sections – Unit 3C (3J Sim)
ebs140.CAL	A-303	Building Sections – Units 3C-HC, 4C (4J Sim)
ebs141.CAL	A-304	Building Sections – Unit 4S0
ebs142.CAL	A-305	Building Sections – Units 4S0, 4S0-Max, 4S0-CV
ebs180.CAL	E-004	Demolition Site Plan (Area C)
ebs184.CAL	E-008	Electrical Site Plan (Area C)

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