

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>			1. CONTRACT ID CODE	PAGE OF PAGES
				1 of 3
2. AMENDMENT/MODIFICATION NO. 1	3. EFFECTIVE DATE 14-Aug-2002	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)	
6. ISSUED BY US Army Corps of Engineers, Kansas City District 760 Federal Building, 601 East 12th Street Kansas City, Missouri 64106-2896	CODE	7. ADMINISTERED BY (If other than item 6)	CODE	

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)	(x) 9a. AMENDMENT OF SOLICITATION NO. DACA41-02-B-0002
	9B. DATED (SEE ITEM 11) 7/31/2002
	10A. MODIFICATION OF CONTRACT/ORDER NO.
	10B. DATED (SEE ITEM 13)
CODE FACILITY CODE	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above number solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers  is extended,  is not extended.

Offers 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:  
(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 telegraph 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.

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.

(x) 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 NUMBER 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:
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor  is not,  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.)

Project: Renovation of Riley's Bldg. 446  
Location: Fort Riley, Kansas

- The Solicitation is amended in accordance with the attached pages
- Bid Opening, 2:00 pm, 5 September 2002, in Room 757 Federal Bldg., 601 E. 12th St., KCMO.

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)
15B. CONTRACTOR/OFFEROR	16B. UNITED STATES OF AMERICA
15C. DATE SIGNED	16C. DATE SIGNED
(Signature of person authorized to sign)	BY (Signature of Contracting Officer)

DACA41-02-B-0002-0001 OFFER (Must be fully completed by offeror)

14. NAME AND ADDRESS OF OFFEROR (Include ZIP Code)		15. TELEPHONE NO. (Include area code)	
		(FAX # )	
DUNS NO:		16. REMITTANCE ADDRESS (Include only if different from Item 14)	
CODE	FACILITY CODE		

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

AMOUNTS: See attached Bidding Schedule.

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

19. ACKNOWLEDGEMENT OF AMENDMENTS

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

AMENDMENT NO.								
DATE								

20A. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER (Type or print)	20B. SIGNATURE	20C. OFFER DATE
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AWARD (To be completed by Government)

21. ITEMS ACCEPTED

22. AMOUNT	23. ACCOUNTING AND APPROPRIATION DATA
24. SUBMIT INVOICES TO ADDRESS SHOWN IN ITEM (4 copies unless otherwise specified)	25. OTHER THAN FULL AND OPEN COMPETITION PURSUANT TO
26. ADMINISTERED BY CODE	<input type="checkbox"/> 10 U.S.C. 2304(c) ( ) <input type="checkbox"/> 41 U.S.C. 253(c) ( )

27. PAYMENT WILL BE MADE BY

CONTRACTING OFFICER WILL COMPLETE ITEM 28 OR 29 AS APPLICABLE

<input type="checkbox"/> 28. NEGOTIATED AGREEMENT (Contractor is required to sign this document and return _____ copies to issuing office.) Contractor agrees to furnish and deliver all items or perform all work requirements identified on this form and any continuation sheets for the consideration stated in this contract. The rights and obligations of the parties to this contract shall be governed by (a) this contract award, (b) the solicitation, and (c) the clauses, representations, certifications, and specifications incorporated by reference in or attached to this contract.	<input type="checkbox"/> 29. AWARD (Contractor is not required to sign this document) Your offer on this solicitation is hereby accepted as to the items listed. This award commutes the contract, which consists of (a) the Government solicitation and your offer, and (b) this contract award. No further contractual document is necessary.
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30A. NAME AND TITLE OF CONTRACTOR OR PERSON AUTHORIZED TO SIGN (Type or print)	31A. NAME OF CONTRACTING OFFICER (Type or print)
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30B. SIGNATURE	31b. UNITED STATES OF AMERICA	31c. AWARD DATE
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STANDARD FORM 1442 BACK (REV. 4-85)

1. SOLICITATION NO. DACA41-02-R-0002 is amended as follows:

CAUTION: THIS AMENDMENT POSTPONES THE BID OPENING DATE TO 5 SEPTEMBER 2002. TIME AND LOCATION OF BID OPENING REMAIN UNCHANGED.

a. SPECIFICATIONS:

(1) ~~Revised Pages~~: The following pages are deleted and replaced with revised pages of the same number. A copy of each revised page accompanies this amendment.

SF1442-1                      TC-1                      D1-1

(2) ~~Reissued Pages~~: Page SF1442-2 is reissued without change. A copy of the reissued page accompanies this amendment.

(3) ~~Revised Sections~~: The following sections are deleted and replaced with revised sections of the same number. A copy of each revised sections accompanies this amendment.

<del>Section No.</del>	<del>Section Title</del>
01010	Summary of Work
01100	General
01500A	Temporary Construction Facilities
08410	Aluminum Entrances and Storefronts
08520	Aluminum Windows
08810	Glass and Glazing

(4) ~~Narrative Changes~~: SOLICITATION, BIDDING SCHEDULE, AND CONTRACT DOCUMENTS:

(a) ~~Page 3 of 33~~: The title of ITEM NO. 0003 is changed to "OPTION – RENOVATION OF RILEY'S BUILDING 446, FT RILEY, KS. FFP".

(b) ~~Page 5 of 33~~: The word "Solicitation" is added to the end of NOTE #8.

(c) ~~Page 33 of 33~~: The duplicate paragraph 1.67 – (NAFI) DEFINATIONS is deleted. (Par. 1.67 - (NAFI) DEFINATIONS on page 32 of 33 remains unchanged.)

(d) ~~Page 32 and 33~~: The phrase "**(Use for all NAFI projects.)**" is deleted. (There is no change to the paragraphs that follow this phrase.)

b. DRAWINGS: ~~Revised Drawings~~: The following drawings are deleted and replaced by revised drawings dated 5 September 2002. A copy of the revised drawings accompanies this amendment.

D1.1                      A1.1R                      A1.2R                      A2.1R

2. Offerors are required to acknowledge receipt of this amendment on the Proposal Form, in the space provided, or by separate letter or telegram prior to receipt of offers. Failure to acknowledge all amendments may cause rejection of the offer.

3. Offers will be received until 2:00 p.m. local time at place of receipt of offers, 5 September 2002 in Room 757 Federal Building, 601 E. 12th Street, Kansas City, Missouri 64106-2896.

Encls

1. Spec pages as listed
2. Drawings as listed

DEPARTMENT OF THE ARMY  
 Kansas City District, Corps of Engineers  
 757 Federal Building  
 Kansas City, Missouri 64106

SPECIFICATIONS FOR CONSTRUCTION OF  
 RENOVATION OF RILEY'S, BUILDING 446  
 FORT RILEY, KANSAS

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**COVER**

**BIDDING REQUIREMENTS, CONTRACT FORMS AND CONTRACT CONDITIONS**

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Section 00100	Instructions, Conditions and Notices to Bidder
Section 00600	Representations and Certifications
Section 00700	Contract Clauses
Section 00800	Special Clauses
Section 00810	Wage Rates

**DIVISION 1 - GENERAL REQUIREMENTS**

<u>Section No.</u>	<u>Title</u>
01010	Summary of Work
01100	General
01300	Submittal Procedures
<u>01355</u>	<u>Not Used</u>
01440	Construction Quality Management – Contractor Quality Control
01500A	Temporary Construction Facilities
01720	As-Builts

DACA41-02-B-0002-0001 OFFER (Must be fully completed by offeror)

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		(FAX # )	
DUNS NO:		16. REMITTANCE ADDRESS (Include only if different from Item 14)	
CODE	FACILITY CODE		

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30B. SIGNATURE	31b. UNITED STATES OF AMERICA	31c. AWARD DATE
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STANDARD FORM 1442 BACK (REV. 4-85)

**DIVISION 1 – GENERAL**

**INDEX**

<u>Section</u>	<u>Title</u>
01010	Summary of Work
01100	General
01300	Submittal Procedures
<u>01355</u>	<u>Not Used</u>
01440	Construction Quality Management – Contractor Quality Control
01500A	Temporary Construction Facilities
01720	As-Builts

## DIVISION 1 - GENERAL REQUIREMENTS

## SECTION 01010

## SUMMARY OF WORK

## PART 1 GENERAL

**1.1 SCOPE:** This project consists of furnishing all plant, labor, equipment, materials, and transportation and performing all required work in accordance with the plans and specifications for the renovation of Riley's, Building 446.

**1.1.1 Location:** Site of the required work is Riley's, Building 446, Main Post, Fort Riley, Kansas.

**1.1.2 Principal Features:** Required work includes the principal features listed below. Outline of principal features does not limit the responsibility of the Contractor to furnish all plant, labor, equipment, materials, and transportation and perform all work required by the plans and specifications.

**1.1.2.1** Demolish existing interior masonry and gypboard partitions as indicated.

**1.1.2.2** Demolish existing heating, ventilating and air conditioning system.

**1.1.2.3** Demolish existing electrical system.

**1.1.2.4** Demolish existing concrete loading dock, concrete ramp and sidewalks on the exterior.

**1.1.2.5** Cut openings in the existing concrete roof deck for new skylights.

**1.1.2.6** Cut openings in the existing concrete wall panels for new doors and windows.

**1.1.2.7** Demolish existing interior concrete stairs and existing exterior metal stairs.

**1.1.2.8** Remove existing asbestos containing floor tile.

**1.1.2.9** Demolish all interior finishes, including suspended ceilings and floor coverings.

**1.1.2.10** Remove all existing toilet partitions and plumbing fixtures.

**1.1.2.11** Remove existing food service equipment, including range hoods, dishwasher, fryers, grills, ovens, counters, ice makers, walk-in refrigerators, walk-in freezer and storage racks.

**1.1.2.12** Remove existing storefront entry doors.

**1.1.2.13** Cut openings in concrete terrace deck for new elevator and stair addition.

- 1.1.2.14 Install new interior masonry and gypboard partitions.
- 1.1.2.15 Install new interior finishes.
- 1.1.2.16 Install new aluminum storefront entrances on the existing building and the new addition.
- 1.1.2.17 Install new aluminum windows.
- 1.1.2.18 Install new pyramid skylights.
- 1.1.2.19 Construct new concrete and masonry addition with an elevator and stairway.
- 1.1.2.20 Install new operable wall partitions.
- 1.1.2.21 Install owner supplied food service equipment.
- 1.1.2.22 Install new heating, ventilating, and air conditioning system.
- 1.1.2.23 Install new electrical system.
- 1.1.2.24 Install new sprinkler system.
- 1.1.2.25 Spray-on insulation to under side of the existing roof deck and furr-out and insulate exterior walls.
- 1.1.2.26 Apply waterproofing finish to exterior surface of concrete wall panels.
- 1.1.2.27 Repair existing modified bitumen roof including replacing cap flashing and base flashing at highest roof section.
- 1.1.2.28 Construct new loading dock with hydraulic lift.
- 1.1.2.29 Construct new concrete sidewalk and ramp at west entrance.
- 1.1.2.30 Reconfigure plumbing system for relocated and added fixtures.
- 1.1.2.31 Install new audio-visual equipment.
- 1.1.2.32 Install new window treatments.
- 1.1.2.33 Remodel canopy at main entrance.
- 1.1.2.34 Maintain work area(s) in neat, orderly and safe condition during the course of the work, and clean up work area(s) at the end of each workday and upon completion of the work. Dispose of debris and salvageable items as specified in SECTION 02050, DEMOLITION.
- 1.1.2.35 Prepare, maintain, and submit as-built drawings as required.

**1.2 APPLICABLE PUBLICATIONS:** The US Army Corps of Engineers Manual (EM) listed below forms a part of this section to the extent referenced. Publica-

tion is referred to in the text by basic designation only. Publication shall be assumed to be the most current edition in effect at the time a contract is awarded.

385-1-1 General Safety and Health Requirements.

### 1.3 SUBMITTALS:

1.3.1 **Accident Prevention Plan:** Submit an Accident Prevention Plan.

1.3.2 **Quality Control Plan:** Submit a Quality Control (QC) Plan.

1.3.3 **Other Submittals:** See specific specification sections.

### 1.4 GENERAL REQUIREMENTS:

1.4.1 **Verification of Conditions and Dimensions:** Review plans and specifications and visit the work site(s) to become thoroughly familiar with details of the required work and site conditions, verify all dimensions prior to ordering materials and fabricating components, and notify the Contracting Officer of any discrepancies between the plans and specifications and actual conditions. All discrepancies shall be resolved before the Contractor begins work. It is strongly suggested the Contractor verify conditions and dimensions prior to preparing and submitting his bid.

1.4.2 **Delivery and Storage:** Deliver materials to the work site in undamaged, unopened manufacturer's standard packaging or containers. Store materials to protect them from physical damage, theft, vandalism, and weather.

1.4.3 **Marking and Labeling:** Manufacturer's standard packaging and containers, or when appropriate, individual pieces of material shall be marked or labeled showing the name of the manufacturer; brand name; model number, stock number, or other designations; item description; and when applicable, the stamp of a nationally recognized, independent testing laboratory or agency, certifying materials conform to the requirements specified.

1.4.4 **Proprietary Products:** Unless otherwise specified, proprietary products indicated in the specifications or noted on the plans are intended to establish capacities, color, design, features, pattern, quality, and style of materials desired, and are not intended to limit trade. Materials proposed for use which can be determined by the Contracting Officer to conform to the requirements specified, may be substituted and installed after his approval.

1.4.5 **Coordination:** Coordinate work performed by specific trades with work performed by other trades to the extent required.

1.4.6 **Identification Cards:** All Contractor and Subcontractor personnel shall wear identification cards while working at Fort Riley. Identification cards shall show a photograph of the employee; name of employee; and name, address, and phone number of the Contractor or Subcontractor.

1.4.7 **Vehicle Identification:** All Contractor and Subcontractor vehicles and equipment shall bear the Contractor or Subcontractor's name or logo while the

vehicles and equipment are working at Fort Riley. Names or Logos shall be applied to both sides of vehicles and equipment as a minimum.

**1.4.8 Grounds Maintenance:** Maintain grounds surrounding the building within the confines of all contractor installed security fencing. Grounds maintenance includes the following tasks:

**1.4.8.1 Grass Mowing:** Mow grass to maintain a height of not less than 2 inches or more than 5 inches.

**1.4.8.2 Trimming:** Trim along building foundation, curbs, pavement, sidewalks, fences, trees, utility poles, and other obstructions.

**1.4.8.3 Edging:** Edge along curbs, pavement, sidewalks, and other improvements.

**1.4.8.4 Clean Up:** Remove and dispose of all grass clippings, fallen leaves, tree branches, trash, and debris. This requirement includes paved areas, turf areas, and planting beds.

**1.4.8.5 Watering Grass and Shrubbery:** During the summer season water grass and shrubbery to provide water equivalent to 1 inch of rainfall per week.

**1.4.8.6 Snow and Ice Removal:** Remove snow and ice from pavement, sidewalks, porches, and steps within 12 hours following snow or ice storms.

**1.4.8.7 Reestablishing Turf:** Reestablish turf at bare areas and those areas damaged or removed during the course of the work. Protect soil from erosion during the reestablishment of turf. All new turf shall fully mature at project completion or sod must be used to reestablish turf.

## **1.5 SAFETY AND PROTECTION:**

**1.5.1 Safety Requirements:** Take safety precautions to protect workmen, building occupants, and the public from construction equipment and materials being removed and installed at the work site. Maintain free and safe passage into and out of adjoining or adjacent building and areas not part of this project. Comply with EM 385-1-1 while performing the required work in this project.

**1.5.2 Accident Prevention Plan:** Prepare and submit an Accident Prevention Plan in accordance with paragraph 01.A.07, EM 385-1-1. Implement the approved plan not later than the contract start date.

**1.5.3 Protection of Property:** Protect all property, both Government and personal, indoors and outdoors, including buildings, site improvements, utilities, vegetation, and vehicles at or adjacent to the work site, and which might be damaged during the course of the required work. Do not operate heavy construction equipment on drives, sidewalks, or lawns without installing suitable protection on these surfaces. When the building(s) is unoccupied, and the Contractor is issued keys to the building(s), insure the building(s) is kept locked when he is not on the premises and the keys are kept secure.

**1.5.4 Barricades, Warning Signs, and Lights:** Install all necessary barricades, warning signs, and lights to protect workmen, building occupants, the public, and adjacent property.

**1.7 WORKING HOURS:** Once begun, work shall continue uninterrupted during normal working hours until it is complete. Schedule working hours to coincide with working hours of the military installation. Normal work hours are from 7:30 a.m. to 4:30 p.m., Monday thru Friday, Federal holidays excepted. Do not perform work on the installation on other days or other hours without the written approval of the Contracting Officer. The Federal holidays listed below are observed. When a holiday falls on a Sunday, the following Monday will be observed as the holiday. When the holiday falls on a Saturday, the preceding Friday will be observed as the holiday. Contractors are also requested to not schedule work on Christmas Eve and New Year's Eve.

New Year's Day	Labor Day
Martin Luther King's Birthday	Columbus Day
Presidents' Day	Veterans' Day
Memorial Day	Thanksgiving Day
Independence Day	Christmas Day

**1.8 QUALITY CONTROL:** Develop, submit, implement, and maintain a quality control system which meets or exceeds the requirements of SECTION 01440, CONSTRUCTION QUALITY MANAGEMENT - CONTRACTOR QUALITY CONTROL. Implement the approved plan not later than the contract start date.

**1.9 AS-BUILT DRAWINGS:** Prepare and submit as-built drawings in accordance with SECTION 01720, AS-BUILT DRAWINGS.

**1.10 WARRANTY OF CONSTRUCTION:** Warrant construction in accordance with Contract Clause FAR 52.246-0021 entitled: Warranty of Construction.

**1.11 DISCONNECTION AND RECONNECTION OF ELECTRICAL AND GAS SERVICES:** When the required work presents a fire hazard, comply with the requirements listed below. Disconnection, reconnection, and operational checks shall be performed by workmen qualified to accomplish the tasks.

**1.11.1 Electrical Service:** Electrical service to the building shall be shut off at the main distribution panel prior to commencing work. After the fire hazard has been eliminated, the electrical services shall be turned back on.

**1.11.2 Gas Service:** Gas service to the building shall be shut off by first shutting off all pilot lights, and then by shutting off the outside gas shut-off valve. After the fire hazard has been eliminated, the gas service shall be restored and all pilot lights relit. Check each gas-fired appliance for proper operation after relighting the pilot light.

**1.12 INTERRUPTION OF SERVICES:** If the project requires interruption of utility and fire protection services to buildings or facilities, coordinate the interruption with building occupants and obtain written approval from the Contracting Officer. Unless otherwise specified, provide temporary water, sewer, electrical, gas, and fire protection services to the buildings or facilities when the required work cannot be accomplished in one workday. Relight pilot

lights and check gas-fired equipment for proper operation after relighting pilot lights.

**1.13 ADDITIONAL INFORMATION:** Publications referenced in the specifications and as-built drawings for most buildings are available for review at the Engineering Plans and Services Division, Public Works, Building 408, Fort Riley.

**PART 2 PRODUCTS (NOT USED)**

**PART 3 EXECUTION (NOT USED)**

## SECTION 01100

## GENERAL

## PART 1 GENERAL

## 1.1 INQUIRIES

Pursuant to SECTION 00100 paragraph titled "Explanation to Prospective Bidders", any inquiries regarding this Invitation, before bids are opened, should be addressed to the District Engineer, Kansas City District, Corps of Engineers, CENWK-PM-MO, 700 Federal Building, Kansas City, Missouri 64106, ATTN: Mr. Michael Greene. Inquiries for which oral explanation or advice on the plans and specifications will suffice may be referred to Mr. Greene by calling Area Code 785-239-2044. Telephone calls concerning the mailing of plans and specifications should be made to Contracting Division at Area Code 816-983-3975. Collect telephone calls will not be accepted. (KCDO APR 84)

## 1.2 SUPERINTENDENCE OF SUBCONTRACTORS

(a) The Contractor shall be required to furnish the following:

(1) If more than 50% and less than 70% of the value of the contract work is subcontracted, one superintendent shall be provided at the site and on the Contractor's payroll to be responsible for coordinating, directing, inspecting and expediting the subcontract work.

(2) If 70% or more of the value of the work is subcontracted, the Contractor shall be required to furnish two such superintendents to be responsible for coordinating, directing, inspecting and expediting the subcontract work.

(b) If the Contracting Officer, at any time after 50% of the subcontracted work has been completed, finds that satisfactory progress is being made, he may waive all or part of the above requirement for additional superintendence subject to the right of the Contracting Officer to reinstate such requirement if at any time during the progress of the remaining work he finds that satisfactory progress is not being made.

## 1.3 IDENTIFICATION OF EMPLOYEES

The Contractor shall be responsible for furnishing to each employee and for requiring each employee engaged on the work to display identification as may be approved and directed by the Contracting Office. All prescribed identification shall immediately be delivered to the Contracting Officer, for cancellation upon the release of any employee. When required by the Contracting Officer the Contractor shall obtain and submit fingerprints of all persons employed or to be employed on the project.

## 1.4 APPLICATION OF WAGE RATES

The inclusion of the Davis-Bacon Act General Wage Decision or the Service Contract Act Wage Determination in the solicitation is a statutory requirement. It is not a representation by the U.S. Army Corps of Engineers that any specific work task can be performed by any specific trade. Which work tasks can be performed by what trades depends on and is determined by the prevailing area practice for the local area where the

contract is being performed. It is the sole responsibility of the bidder to determine and comply with the prevailing area practice. Inquiries regarding a prevailing area practice should be directed to the Corps of Engineers, Contractor Industrial Relations Specialist (telephone number 816-983-3723) or to the Department of Labor Regional Wage and Hour Division.

Application of wage rates and fringe benefits: For the application of the wage rates and fringe benefits contained in the Decisions of the Secretary of Labor, attached to and a part of this contract, all work required within 5 feet outside building lines shall be considered Building Construction. All other construction not defined herein as Building Construction shall be considered Heavy Construction.

#### 1.5 PAYMENTS TO SUBCONTRACTORS

The Contractor's attention is directed to CONTRACT CLAUSE titled "Payment Under Fixed-Price Construction Contracts." In addition to the requirements set forth in the referenced paragraph, the Government will reimburse the Contractor, upon request, for amount of premiums paid by the subcontractors for performance and payment bonds (including coinsurance and reinsurance agreements, when applicable) after the Contractor furnishes evidence of full payment to the surety.

#### 1.6 PAYMENTS TO CONTRACTOR (KCD MAY 90 - FORMERLY FAR 52.2/9101(a))

The following is an example of a Contractor's release of claims clauses required to comply with the provisions of paragraph (h) of the CONTRACT CLAUSE titled "Payments Under Fixed-Price Construction Contracts":

##### RELEASE OF CLAIMS

The undersigned Contractor under contract dated \_\_\_\_\_, 2000, between the United States of America and said Contractor for the \_\_\_\_\_ located at \_\_\_\_\_, in accordance with paragraph (h) of the CONTRACT CLAUSE titled "Payments Under Fixed-Price Construction Contracts" of said contract, hereby releases the United States, its officers, agents, and employees from any and all claims arising under or by virtue of said contract or any modification or change thereof except with respect to those claims, if any, listed below:

(Here itemize claims and amounts due.)

#### 1.7 PARTNERING

The Government intends to encourage the foundation of a cohesive partnership with the Contractor and its subcontractor. This partnership will be structured to draw on the strengths of each organization to identify and achieve mutual goals with the intent to complete the Contract within budget, on schedule and in accordance with plans and specifications. This partnership will be bilateral in makeup, and participation will be totally voluntary. Any cost associated with implementing this partnership will be agreed to by the Contractor and the Government, and will be shared equally with no change in Contract price. To implement this partnership initiative, it is anticipated that thirty (30) days after Notice to Proceed, a team building workshop will be conducted. Follow-up workshops will be held periodically throughout the duration of the Contract as agreed to by the Contractor and the Government.

#### 1.8 PROSPECTIVE CONTRACTOR RESPONSIBILITY

Each bidder shall furnish, within 3 calendar days after receipt of request therefor, data which will show the bidder's ability to perform the work or services required by this Invitation for Bids. Such data shall include as a minimum: Bank certification of financial capability, or a financial statement not over 60 days old, which will be treated as confidential (if over 60 days old, a certificate shall be attached thereto stating that the financial condition is substantially the same or, if not the same, the changes that have taken place); names of commercial and financial reporting agencies from whom credit reports may be obtained; trade creditors; name and address of bonding company; business and construction experience; past record of performance of Government contracts; and construction plant and equipment available for this job, with resume of work in progress or other data that will assure that the bidder is in a position to perform the work within the time specified.

In addition, if the bid exceeds \$1,000,000, the bidder shall furnish upon request, a certified statement listing:

(a) Each contract awarded to him within the preceding three-month period exceeding \$1,000,000 in value with brief description of the contract.

(b) Each contract awarded to him within the preceding three-year period not already physically completed and exceeding \$5,000,000 in value with brief description of the contract.

(c) If the prospective Contractor is a joint venture, each joint venture member will be required to submit the above defined certification. There shall also be furnished any other available information which will serve to substantiate the bidder's qualifications as a responsible prospective Contractor. (KCD APR 84)

#### 1.9 PERFORMANCE OF WORK BY CONTRACTOR

Bidder's attention is directed to SPECIAL CLAUSE titled "Performance of Work by Contractor." The successful bidder will be required to furnish the Contracting Officer, a description of the work which he will perform with his own organization (e.g., earthwork, paving, etc.), the percentage of the total work this represents, and the estimated cost thereof. Such description of work to be performed by the Contractor's own organization shall be furnished to the Contracting Officer within 10 days after award of the contract.

#### 1.10 LABORATORY AND TESTING FACILITIES

The Contractor shall provide and maintain all measuring and testing devices, laboratory equipment, instruments, transportation, and supplies necessary to accomplish the required testing. All measuring and testing devices shall be calibrated at established intervals against certified standards. The Contractor's measuring and testing equipment shall be made available for use by the Government for verification of their accuracy and condition as well as for any inspection or test desired pursuant to the CONTRACT CLAUSE titled "Inspection of Construction." The location of the laboratory shall be convenient to the site such that test results are available prior to proceeding with the next sequential phase of the work. (KCD)

#### 1.11 TIME EXTENSIONS FOR UNUSUALLY SEVERE WEATHER

(a) This provision specifies the procedure for determination of time extensions for unusually severe weather in accordance with the CONTRACT CLAUSE titled "Default: (Fixed Price Construction)." In order for the Contracting Officer to award a time extension under this clause, the following conditions must be satisfied:

(1) The weather experienced at the project site during the contract period must be found to be unusually severe, that is, more severe than the adverse weather anticipated for the project location during any given month.

(2) The unusually severe weather must actually cause a delay to the completion of the project. The delay must be beyond the control and without the fault or negligence of the Contractor.

(b) The following schedule of monthly anticipated adverse weather delays is based on National Oceanic and Atmospheric Administration (NOAA) or similar data for the project location and will constitute the base line for monthly weather time evaluations. The Contractor's progress schedule must reflect these anticipated adverse weather delays in all weather dependent activities.

MONTHLY ANTICIPATED ADVERSE WEATHER DELAY

WORK DAYS BASED ON (5) DAY WORK WEEK

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
(9)	(5)	(3)	(3)	(4)	(5)	(4)	(3)	(5)	(3)	(3)	(6)

(c) Upon acknowledgment of the Notice to Proceed (NTP) and continuing throughout the contract, the Contractor will record on the daily CQC report, the occurrence of adverse weather and resultant impact to normally scheduled work. Actual adverse weather delay days must prevent work on critical activities for 50 percent or more of the Contractor's scheduled work day. The number of actual adverse weather delay days shall include days impacted by actual adverse weather (even if adverse weather occurred in previous month), be calculated chronologically from the first to the last day of each month, and be recorded as full days. If the number of actual adverse weather delay days exceeds the number of days anticipated in paragraph b, above, the Contracting Officer will convert any qualifying delays to calendar days, giving full consideration for equivalent fair weather work days, and issue a modification in accordance with the CONTRACT CLAUSE titled "Default (Fixed Price Construction)." (ER 415-1-15)

1.12 WORKING HOURS

Working hours for this project will be limited to Monday through Friday, 7:30 a.m. to 4:30 p.m., except as follows: Work will not be permitted on weekends and Federal holidays. In unusual circumstances, such as when utility turn-off is required for an extended period of time, authorization for weekend or holiday work may be requested from the Contracting Officer; these instances must be coordinated well in advance, in writing. Likewise, utility turn-off of short duration or work which will disrupt normal operations or traffic flow must be scheduled at least 3 working days in advance and may require schedule changes to ensure that safety is maintained.

1.13 REQUIRED INSURANCE SCHEDULE

In accordance with CONTRACT CLAUSE titled "Insurance - Work On A Government Installation," the Contractor shall procure and maintain during the entire period of his performance under this contract the following minimum insurance.

Type	Amount
Workmen's Compensation State Statute	coverage complying with applicable
Employers' Liability	minimum amount of \$100,000.00
General Liability on Comprehensive Form of Policy which includes, but is not limited to, insurance for all work required herein	minimum limits of \$500,000 per occurrence for bodily injury
Comprehensive Automobile Liability	minimum limits of \$200,000 per person and \$500,000 per occurrence for bodily injury, and \$20,000 per occurrence for property damage

(End of clause)

1.14 INTERRUPTIONS TO UTILITY SERVICES

A schedule showing the approximate times of interruptions of utility services and roads shall be submitted approximately 30 days in advance of interrupting services to make connections. Where it is necessary to interrupt services to make connections and the period of interruption will last more than 2 hours, the connections shall be performed on Saturday or Sunday, unless otherwise approved by the Contracting Officer. Final arrangements shall be made with the Contracting Officer at least 72 hours in advance of the scheduled times of interruptions.

1.15 CONTRACTOR-FURNISHED EQUIPMENT DATA

At or before 30 days prior to final inspection and acceptance of the work, the Contractor shall submit the data mentioned in the following subclauses.

(1) Equipment List. An itemized equipment list showing unit retail value and nameplate data including serial number, model number, size, manufacturer, etc., for all Contractor-furnished items of mechanical equipment, electrical equipment, and fire protection systems installed under this contract.

(2) Guarantees. A list of all equipment items which are specified to be guaranteed accompanied by a copy of each specific guarantee therefor. For each specific guaranteed item, a name, address, and telephone number shall be shown on the list for subcontractor who installed equipment, equipment supplier or distributor and equipment manufacturer. The completion date of the guarantee period shall correspond to the applicable specification requirements for each guaranteed item.

(3) Warranty Service Calls. The Contractor shall furnish to the Contracting Officer the names of local service representatives and/or Contractors that are available for warranty service calls and who will respond to a call within the time periods as follows: 4 hours for heating,

air-conditioning, refrigeration, air supply and distribution, and critical electrical service systems and food service equipment, and 24 hours for all other systems. The names, addresses, and telephone numbers for day, night, weekend, and holiday service responses shall be furnished to the Contracting Officer and also posted at a conspicuous location in each mechanical and electrical room or close to the unit.

1.16 DATE OF SAFETY AND HEALTH REQUIREMENTS MANUAL (EM 385-1-1)

(a) The date of the U.S. Army Corps of Engineers Safety and Health Requirements Manual in effect on the date of this solicitation is 3 September 1996. See Section 00700, Contract Clause titled "Accident Prevention."

(b) Section 06.I of EM 385-1-1 is deleted. Job hazard analysis for confined space entry procedures is still required, as per 01.A.09 of EM 385-1-1. OSHA Standards 29 CFR 1910.146 or 29 CFR 1926 shall apply.

(c) Before initiation of work at the job site, an accident prevention plan, written by the prime contractor for the specific work and hazards of the contract and implementing in detail the pertinent requirements of EM 385-1-1, will be reviewed and found acceptable by designated Government personnel.

1.17 COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)

The Contractor shall comply with OSHA standards as well as the most current edition of the Corps of Engineers General Safety Requirements Manual (EM 385-1-1). The OSHA standards are subject to change and such changes may affect the Contractor in his performance under the contract. It is the Contractor's responsibility to know such changes and effective dates of changes.

1.18 CONSTRUCTION EQUIPMENT OWNERSHIP AND OPERATING EXPENSE SCHEDULE

Whenever a modification or equitable adjustment of contract price is required, the Contractor's cost proposal for equipment ownership and operating expenses shall be as set forth in SPECIAL CLAUSE titled "Equipment Ownership and Operating Expense Schedule." A copy of EP 1110-1-8 "Construction Equipment Ownership and Operating Expense Schedule" dated August 1995 can be ordered from the Government Printing Office (GPO) by calling Telephone No. 202-512-1800.

1.19 SHOP DRAWINGS

The Contractor's attention is directed to clause "Specifications and Drawings for Construction" of the Contract Clauses.

1.20 SUBMITTALS

(a) Submittal Procedures. See Division One SECTION: SUBMITTAL PROCEDURES.

(b) Shop Drawings shall be submitted in ample time to secure approval prior to the time the items covered thereby are to be delivered to the site. ENG Form 4025 and 4026 shall be used for the transmittal of shop drawings. Unless otherwise specified, shop drawings shall be submitted not less than 30 days before commencement of fabrication of fabricated items and not less than 15 days before delivery of standard stock manufactured items. Where materials are stock with the manufacturer, catalog data, including

specifications and full descriptive matter, may be submitted as shop drawings. When catalog includes nonapplicable data, the applicable data shall be clearly designated and identified by item number, item name, and name of manufacturer. Shop drawings submitted (including initial and final submittals) shall be reproductions on high quality paper with clear and legible print. Drawings shall generally be bordered a minimum of one inch and trimmed to neat lines and unless otherwise specified, the minimum scale shall be 3/8-inch to the foot. Shop drawings quality will be subject to approval. Each shop drawing, including catalog data, shall be identified with a title block including the name of Contractor, contract number, name and location of project, and name of item of work or structure to which the shop drawing applies. Material fabricated or delivered to the site before approved shop drawings have been returned to the Contractor will be subject to rejection. NO CONSTRUCTION OR INSTALLATION SHALL BE DONE FOR ANY ITEM REQUIRING SHOP DRAWINGS, UNTIL ALL SHOP DRAWINGS FOR THAT ITEM HAVE BEEN APPROVED.

(c) As-Built Shop Drawings: Upon completion of the work under this contract, the Contractor shall furnish five complete sets of prints or one complete set of reproducibles of all shop drawings as finally approved. These drawings shall show all changes and revisions made up to the time the equipment is completed and accepted. The quality of the reproducibles and prints is subject to approval.

(d) Purchase Orders: Each purchase order issued by the Contractor or his subcontractors for materials and equipment to be incorporated into the project, shall be maintained on file at the Contractor's field office for inspection and review by Government representatives. Each purchase order shall (1) be clearly identified with applicable DA contract number, (2) carry an identifying number, (3) be in sufficient detail to identify the material being purchased, (4) indicate a definite delivery date, and (5) display the DMS priority rating. At the option of the Contractor, the copies of the purchase orders may or may not indicate the price of the articles purchased. (MRD Ltr 22 Oct 74)

#### 1.21 SPECIAL REFERENCES

(a) Shop Drawings. Bidder's attention is directed to SPECIAL CLAUSE titled "Shop Drawings." The basic requirements for Shop Drawings are set forth in the CONTRACT CLAUSES and SPECIAL CLAUSES.

(b) Approved Equal. Bidder's attention is directed to SPECIAL CLAUSE titled "Approved Equal."

(c) Payment to Subcontractors. Bidder's attention is directed to SPECIAL CLAUSE titled "Payments to Subcontractors."

#### 1.22 DIFFERENCES IN DRAWINGS

In addition to the provisions of CONTRACT CLAUSE paragraph "Specifications and Drawings for Construction," the structural drawings shall govern in cases where they differ from the architectural drawings.

#### 1.23 DAMAGE TO WORK (1966 MAR OCE)

The responsibility for damage to any part of the permanent work shall be as set forth in the CONTRACT CLAUSE titled "Permits and Responsibilities." However, if, in the judgment of the Contracting Officer, any part of the permanent work performed by the Contractor is damaged by flood or

earthquake, which damage is not due to the failure of the Contractor to take reasonable precautions or to exercise sound engineering and construction practices in the conduct of the work, the Contractor will make the repairs as ordered by the Contracting Officer and full compensation for such repairs will be made at the applicable contract unit or lump sum prices as fixed and established in the contract. If, in the opinion of the Contracting Officer, there are no contract unit or lump sum prices applicable to any part of such work an equitable adjustment pursuant to CONTRACT CLAUSE titled, "Changes," of the contract, will be made as full compensation for the repairs of that part of the permanent work for which there are no applicable contract unit or lump sum prices. Except as herein provided, damage to all work (including temporary construction), utilities, materials, equipment and plant shall be repaired to the satisfaction of the Contracting Officer at the Contractor's expense, regardless of the cause of such damage.

#### 1.24 WORK ADJACENT TO ROADS AND HIGHWAYS

Where the construction work is on or adjacent to, or involves hauling over public or private roads, streets, or highways, all herein referred to as "roads," the said roads shall, except as otherwise specified or directed, be kept open for traffic at all times during the construction period. Further, the Contractor shall, during said construction, provide, erect and maintain warning signs, lanterns or torches or other safety devices and, when necessary, provide flagmen for protection of traffic to the satisfaction of the Contracting Officer and local authorities. The Contractor shall keep the right-of-way of the roads free of debris that might be caused to accumulate thereon by his operations, and upon completion of the work, shall clean up the said roads and repair any damage to the roads occasioned by his operations under this contract to the satisfaction of the Contracting Officer and local authorities having jurisdiction. The drainage from the roads shall not be obstructed by the construction work. The Contractor shall be responsible for obtaining and paying for all permits required for operation on all roads.

#### 1.25 APPROVED EQUAL

The drawings and the TECHNICAL PROVISIONS of these specifications may, in some instances, refer to certain items of equipment, material, or article by trade name. References of this type shall not be construed as limiting competition, but shall be regarded as establishing a standard of quality. In this respect, the Contractor's attention is directed to CONTRACT CLAUSE titled "Material and Workmanship."

#### 1.26 SCHEDULE OF WORK

The Contractor's attention is directed to CONTRACT CLAUSE titled "Schedule for Construction Contracts," wherein if, in the opinion of the Contracting Officer, the Contractor falls behind the approved schedule, the Contractor shall take steps necessary to improve its progress, including those that may be required by the Contracting Officer.

#### 1.27 UPKEEP OF ROADWAY AREAS WITHIN A MILITARY INSTALLATION WHICH THE CONTRACTOR USES

In addition to the requirements in CONTRACT CLAUSE titled "Operations and Storage Areas," the Contractor shall comply with the following requirements: Where the construction work is on or adjacent to, or involves hauling over public roads, streets, or highways located on a

military installation, all herein referred to as "roads," the said roads shall except as otherwise specified or directed, be kept open for traffic at all times during the construction period. The Contractor shall keep the roads including adjacent construction site free of debris including litter, waste construction material, mud etc., that might be caused to accumulate thereon by his operations, and upon completion of the work, shall clean up the said roads and construction site and repair any damage occasioned with his operations under this contract to the satisfaction of the Contracting Officer. The drainage from the roads shall not be obstructed by the construction work.

#### 1.28 PROTECTION OF UTILITY LINES

(a) It shall be the Contractor's responsibility to protect all existing utility lines from damage during excavation for utilities systems. Any damage resulting to existing utility systems shall be repaired by the Contractor, to the satisfaction of the contracting officer, at no additional cost to the Government.

(b) All requests for access and/or locations must be made through the Contracting Officer's Representative (COR) or Resident Engineer. The Director of Public Works will work directly with the Resident Engineer to provide timely information to the Contractor.

(c) Not less than 3 or more than 10 workdays prior to the actual day of excavation on each site, the Contractor shall contact Kansas One-Call System, Inc., Toll Free 1-800-344-7233 and obtain a Kansas Dig-Safe Ticket Number. Immediately after obtaining a Kansas Dig-Safe Number the Contractor shall contact Fort Riley Dig-Safe Coordinator at Public Works, Building 337, Telephone 1-785-239-8187, FAX 1-785-239-8188, and accomplish the items listed below. No exceptions to this policy will be tolerated. The Contractor will be held liable for all costs incurred by various underground utility owners for repairs to damaged underground utilities resulting from failure to comply with this procedure.

(1) Provide Kansas One-Call System Ticket Number.

(2) Provide company name, name and telephone number of point of contact.

(3) Provide a site drawing with measurements from nearest building showing depth and nature of work:

(4) Mark the area to be dug with white paint.

#### 1.29 MODIFICATIONS PRIOR TO DATE SET FOR OPENING BIDS

The right is reserved, as the interest of the Government may require, to revise or amend the specifications or drawings or both prior to the date set for opening bids. Such revisions and amendments, if any, will be announced by an amendment or amendments to this Invitation for Bids. If the revisions and amendments are of a nature which requires material changes in quantities or prices bid or both, the date set for opening bids may be postponed by such number of days as in the opinion of the issuing officer will enable bidders to revise their bids. In such cases, the amendment will include an announcement of the new date for opening bids. (KCD APR 84)

#### 1.30 UNEXPECTED HAZARDOUS SUBSTANCES

In the event that suspected hazardous substances are revealed during construction activities, all such construction activities in the immediate area shall be immediately suspended. Hazardous substances for purposes of this specification only, shall be defined as CERCLA hazardous substances, infectious or radioactive wastes, asbestos or oil. The Contractor shall leave the materials undisturbed and shall immediately report the find to the Contracting Officer's Representative (COR) so that proper authorities can be notified. The Contractor shall not resume construction activities in the vicinity of the suspected hazardous substances until written clearance is received from the COR. Identification and removal of any such materials will be conducted in accordance with all Federal, state and local environmental laws and regulations according to the CONTRACT CLAUSE titled "Differing Site Conditions."

#### 1.31 UNEXPECTED DISCOVERY OF ASBESTOS ON CONSTRUCTION (RENOVATION AND DEMOLITION)

The buildings and areas to be renovated or demolished have been surveyed for the presence of asbestos-containing materials. This survey is not a warranty that asbestos-containing materials are either not present or limited to the amounts found in the survey. Should suspected asbestos-containing material be encountered, the Contractor shall promptly, and before the conditions or the substance encountered is disturbed, give a written notice to the Contracting Officer of the suspected asbestos-containing material conditions encountered. As directed by the Contracting Officer, the Contractor shall remove and dispose of any and all asbestos-containing material as necessary to accomplish the required work which shall be performed in accordance with all pertinent local, state, and federal laws. An equitable adjustment will be made to the Contractor in accordance with the CONTRACT CLAUSE entitled "Changes", for the additional work directed by the Contracting Officer.

#### 1.32 TIMBER DISPOSAL

All timber, logs, stumps, roots, brush, and small branches, and all cedar, pine, and cottonwood shall be disposed of in the habitat area identified on the cover sheet map as at the Habitat Brush Site. Other refuse from the clearing and grubbing operations, and rotten wood or diseased trees identified by and marked by the installation DES shall be disposed of in the construction debris land fill (Campbell Hill Road), except when otherwise directed in writing. Such directive will state the conditions covering the disposal of such products and will also state the areas in which they may be placed.

#### 1.33 FORT RILEY CONSTRUCTION DEMOLITION DEBRIS (C/D) LANDFILL OPERATIONS

The Fort Riley Construction Demolition Debris (CD) landfill is located on Campbell Hill Road approximately one mile north of Camp Funston. There is no charge for using the landfill. Delivery vehicles shall be identified with contractor signs on both sides of the vehicle and must provide the contract number. The CD landfill will have an attendant on duty and be open for normal operations (excluding Federal Holidays) Monday-Friday, 0730-1600. Only construction demolition debris materials will be accepted. Acceptable materials are posted on a board at the entrance. Asbestos materials deliveries require a call for an appointment 24 hours in advance of delivery. Telephone (785) 761-5002. All transformers and light ballasts shall be turned in to Building 339 within the PW maintenance yard on Main Post. Light ballasts shall have all wires cut off. POC is Don Wainwright, telephone (785) 239-3832. Any salvageable items shall be

turned in to the Directorate of Environment and Safety (DES) Recycle Center, Building 1980, in Camp Funston. POC is the Solid Waste Program Manager, DES, telephone (785) 239-2860.

1.34 Site Specific Access Control - Fort Riley

Fort Riley is implementing physical security measures in the form of access control. These measures apply to all contractors and their employees. Fort Riley requires each vehicle to have either a temporary or permanent identification marker attached. It shall be the contractor's responsibility to monitor and control all company and employee vehicle identification markers and to comply with Fort Riley's requirements for issuing and returning these identification markers.

At a minimum, Fort Riley requires valid vehicle insurance, valid vehicle registration and a current driver's license. Rental cars should carry the rental agreement in the car when entering Fort Riley.

Identification cards shall be visibly worn at all time while on the installation.

The contractor shall be responsible for complying with all security conditions as determined by Fort Riley and shall be responsible for changes in conditions as they occur.

1.35 KANSAS SALES AND USE TAX

In accordance with FAR clause 52.229-3, notice is given that the contract price excludes the Kansas sales tax and compensating (use) tax on all sales of tangible personal property and materials purchased by the Contractor or subcontractors for the construction of projects, including repairing or remodeling facilities, for the United States. In accordance with Kan. Stats. Anno., sec. 79-3606(e), the Contracting Officer will obtain from the State and furnish to the Contractor an exemption certificate for this project for use by the Contractor and subcontractors in the purchase of materials for incorporation in the project and of services. The Contractor and the subcontractors shall furnish the number of such certificate to all suppliers from whom such purchases are made, and the suppliers shall execute invoices covering the same bearing the number of such certificate. Pursuant to a 1977 Amendment to K.S.A., 1976 Supp., 79-3606(e), effective 1 July 1977, the Contractor is required to retain all invoices for a period of five (5) years during which time these invoices are subject to audit by the Kansas Director of Taxation. Upon completion of the project, the Contractor shall complete the Project Completion Certification (Form STD 77, Rev. 6/77) in duplicate returning one copy to the Contracting Officer, and forwarding the other to the Kansas Director of Taxation. (KCD)

PART 2 PRODUCTS (Not Applicable)

PART 3 EXECUTION (Not Applicable)

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## SECTION 01500A

TEMPORARY CONSTRUCTION FACILITIES  
02/97

## PART 1 GENERAL

## 1.1 GENERAL REQUIREMENTS

## 1.1.1 Site Plan

The Contractor shall prepare a site plan indicating the proposed location and dimensions of any area to be fenced and used by the Contractor, the number of trailers to be used, avenues of ingress/egress to the fenced area and details of the fence installation. Any areas which may have to be graveled to prevent the tracking of mud shall also be identified. The Contractor shall also indicate if the use of a supplemental or other staging area is desired.

## 1.1.2 Identification of Employees

The Contractor shall be responsible for furnishing to each employee, and for requiring each employee engaged on the work to display, identification as approved and directed by the Contracting Officer. Prescribed identification shall immediately be delivered to the Contracting Officer for cancellation upon release of any employee. When required, the Contractor shall obtain and provide fingerprints of persons employed on the project. Contractor and subcontractor personnel shall wear identifying markings on hard hats clearly identifying the company for whom the employee works.

## 1.1.3 Employee Parking

Contractor employees shall park privately owned vehicles in an area designated by the Contracting Officer. This area will be within reasonable walking distance of the construction site. Contractor employee parking shall not interfere with existing and established parking requirements of the military installation.

## 1.2 AVAILABILITY AND USE OF UTILITY SERVICES

If determined that existing utility systems and supplies are adequate or the needs and use of the Contractor as well as the Government, all reasonably required amounts of water, gas and electricity will be available to the Contractor.

## 1.2.1 Payment for Utility Services

The amount of each utility service (gas and electricity) consumed by the Contractor shall be charged to and paid for by the Contractor. The rates charged will be Rate B, the Government's resale rates charged to commercial users. Consumption shall be determined by meters. The Contractor shall contact the Public Works Utilities Sales Office at 785-239-6152 prior to making any connection and/or use of utilities.

## 1.2.2 Meters and Temporary Connections

The Contractor shall, at his own expense, make all permanent and temporary connections to the existing distribution system; this includes meters. (Water service does not require a meter.) The Contractor shall remove all temporary services and connections prior to final acceptance of the job.

#### 1.2.3 Advance Deposit

An advance deposit for utilities consisting of an estimated month's usage or a minimum of \$50.00 will be required. The last monthly bills for the fiscal year will normally be offset by the deposit and adjustments will be billed or returned as appropriate. Services to be rendered for the next fiscal year, beginning 1 October, will require a new deposit. Notification of the due date for this deposit will be mailed to the Contractor prior to the end of the current fiscal year.

#### 1.2.4 Sanitation

The Contractor shall provide and maintain within the construction area minimum field-type sanitary facilities approved by the Contracting Officer. Government toilet facilities will not be available to Contractor's personnel.

#### 1.2.5 Telephone

The Contractor shall make arrangements and pay all costs for telephone facilities desired.

### 1.3 BULLETIN BOARD, PROJECT SIGN, AND PROJECT SAFETY SIGN

#### 1.3.1 Bulletin Board

Immediately upon beginning of work, the Contractor shall provide a weatherproof glass-covered bulletin board not less than 36 by 48 inches in size for displaying the Equal Employment Opportunity poster, a copy of the wage decision contained in the contract, Wage Rate Information poster, and other information approved by the Contracting Officer. The bulletin board shall be located at the project site in a conspicuous place easily accessible to all employees, as approved by the Contracting Officer. Legible copies of the aforementioned data shall be displayed until work is completed. Upon completion of work the bulletin board shall be removed by and remain the property of the Contractor.

#### 1.3.2 Project and Safety Signs

The requirements for the signs, their content, and location shall be as shown on the drawings. The signs shall be erected within 15 days after receipt of the notice to proceed. The data required by the safety sign shall be corrected daily, with light colored metallic or non-metallic numerals. Upon completion of the project, the signs shall be removed from the site.

### 1.4 PROTECTION AND MAINTENANCE OF TRAFFIC

During construction the Contractor shall provide access and temporary relocated roads as necessary to maintain traffic. The Contractor shall maintain and protect traffic on all affected roads during the construction period except as otherwise specifically directed by the Contracting Officer. Measures for the protection and diversion of traffic, including

the provision of watchmen and flagmen, erection of barricades, placing of lights around and in front of equipment and the work, and the erection and maintenance of adequate warning, danger, and direction signs, shall be as required by the State and local authorities having jurisdiction. The traveling public shall be protected from damage to person and property. The Contractor's traffic on roads selected for hauling material to and from the site shall interfere as little as possible with public traffic. The Contractor shall investigate the adequacy of existing roads and the allowable load limit on these roads. The Contractor shall be responsible for the repair of any damage to roads caused by construction operations.

#### 1.4.1 Haul Roads

The Contractor shall, at its own expense, construct access and haul roads necessary for proper prosecution of the work under this contract. Haul roads shall be constructed with suitable grades and widths; sharp curves, blind corners, and dangerous cross traffic shall be avoided. The Contractor shall provide necessary lighting, signs, barricades, and distinctive markings for the safe movement of traffic. The method of dust control, although optional, shall be adequate to ensure safe operation at all times. Location, grade, width, and alignment of construction and hauling roads shall be subject to approval by the Contracting Officer. Lighting shall be adequate to assure full and clear visibility for full width of haul road and work areas during any night work operations. Upon completion of the work, haul roads designated by the Contracting Officer shall be removed.

#### 1.4.2 Barricades

The Contractor shall erect and maintain temporary barricades to limit public access to hazardous areas. Such barricades shall be required whenever safe public access to paved areas such as roads, parking areas or sidewalks is prevented by construction activities or as otherwise necessary to ensure the safety of both pedestrian and vehicular traffic. Barricades shall be securely placed, clearly visible with adequate illumination to provide sufficient visual warning of the hazard during both day and night.

### 1.5 CONTRACTOR'S TEMPORARY FACILITIES

#### 1.5.1 Administrative Field Offices

The Contractor shall provide and maintain administrative field office facilities within the construction area at the designated site. Government office and warehouse facilities will not be available to the Contractor's personnel.

#### 1.5.2 Storage Area

The Contractor shall construct a temporary 6 foot high chain link fence around trailers and materials. The fence shall include plastic strip inserts, colored brown, so that visibility through the fence is obstructed.

Fence posts may be driven, in lieu of concrete bases, where soil conditions permit. Trailers, materials, or equipment shall not be placed or stored outside the fenced area unless such trailers, materials, or equipment are assigned a separate and distinct storage area by the Contracting Officer away from the vicinity of the construction site but within the military boundaries. Trailers, equipment, or materials shall not be open to public view with the exception of those items which are in support of ongoing work on any given day. Materials shall not be

stockpiled outside the fence in preparation for the next day's work. Mobile equipment, such as tractors, wheeled lifting equipment, cranes, trucks, and like equipment, shall be parked within the fenced area at the end of each work day.

#### 1.5.3 Supplemental Storage Area

Upon Contractor's request, the Contracting Officer will designate another or supplemental area for the Contractor's use and storage of trailers, equipment, and materials. This area may not be in close proximity of the construction site but shall be within the military boundaries. Fencing of materials or equipment will not be required at this site; however, the Contractor shall be responsible for cleanliness and orderliness of the area used and for the security of any material or equipment stored in this area. Utilities will not be provided to this area by the Government.

#### 1.5.4 Appearance of Trailers

Trailers utilized by the Contractor for administrative or material storage purposes shall present a clean and neat exterior appearance and shall be in a state of good repair. Trailers which, in the opinion of the Contracting Officer, require exterior painting or maintenance will not be allowed on the military property.

#### 1.5.5 Maintenance of Storage Area

Fencing shall be kept in a state of good repair and proper alignment. Should the Contractor elect to traverse, with construction equipment or other vehicles, grassed or unpaved areas which are not established roadways, such areas shall be covered with a layer of gravel as necessary to prevent rutting and the tracking of mud onto paved or established roadways; gravel gradation shall be at the Contractor's discretion. Grass located within the boundaries of the construction site shall be mowed for the duration of the project. Grass and vegetation along fences, buildings, under trailers, and in areas not accessible to mowers shall be edged or trimmed neatly.

#### 1.5.6 New Building

In the event a new building is constructed for the temporary project field office, it shall be a minimum 12 feet in width, 16 feet in length and have a minimum of 7 feet headroom. It shall be equipped with approved electrical wiring, at least one double convenience outlet and the required switches and fuses to provide 110-120 volt power. It shall be provided with a work table with stool, desk with chair, two additional chairs, and one legal size file cabinet that can be locked. The building shall be waterproof, shall be supplied with heater, shall have a minimum of two doors, electric lights, a telephone, a battery operated smoke detector alarm, a sufficient number of adjustable windows for adequate light and ventilation, and a supply of approved drinking water. Approved sanitary facilities shall be furnished. The windows and doors shall be screened and the doors provided with dead bolt type locking devices or a padlock and heavy duty hasp bolted to the door. Door hinge pins shall be non-removable. The windows shall be arranged to open and to be securely fastened from the inside. Glass panels in windows shall be protected by bars or heavy mesh screens to prevent easy access to the building through these panels. In warm weather, air conditioning capable of maintaining the office at 50 percent relative humidity and a room temperature 20 degrees F below the outside temperature when the outside temperature is 95 degrees F,

shall be furnished. Any new building erected for a temporary field office shall be maintained by the Contractor during the life of the contract and upon completion and acceptance of the work shall become the property of the Contractor and shall be removed from the site. All charges for telephone service for the temporary field office shall be borne by the Contractor, including long distance charges up to a maximum of \$75.00 per month.

#### 1.5.7 Security Provisions

Adequate outside security lighting shall be provided at the Contractor's temporary facilities. The Contractor shall be responsible for the security of its own equipment; in addition, the Contractor shall notify the appropriate law enforcement agency requesting periodic security checks of the temporary project field office.

#### 1.6 GOVERNMENT FIELD OFFICE

##### 1.6.1 Resident Engineer's Office

The Contractor shall provide the Government Resident Engineer with an office, approximately 200 square feet in floor area, located where directed and providing space heat, electric light and power, and toilet facilities consisting of one lavatory and one water closet complete with connections to water and sewer mains. A mail slot in the door or a lockable mail box mounted on the surface of the door shall be provided. At completion of the project, the office shall remain the property of the Contractor and shall be removed from the site. Utilities shall be connected and disconnected in accordance with local codes and to the satisfaction of the Contracting Officer.

##### 1.6.2 Trailer-Type Mobile Office

The Contractor may, at its option, furnish and maintain a trailer-type mobile office acceptable to the Contracting Officer and providing as a minimum the facilities specified above. The trailer shall be securely anchored to the ground at all four corners to guard against movement during high winds.

#### 1.7 PLANT COMMUNICATION

Whenever the Contractor has the individual elements of its plant so located that operation by normal voice between these elements is not satisfactory, the Contractor shall install a satisfactory means of communication, such as telephone or other suitable devices. The devices shall be made available for use by Government personnel.

#### 1.8 TEMPORARY PROJECT SAFETY FENCING

As soon as practicable, but not later than 15 days after the date established for commencement of work, the Contractor shall furnish and erect temporary project safety fencing at the work site. The safety fencing shall be a high visibility orange colored, high density polyethylene grid or approved equal, a minimum of 42 inches high, supported and tightly secured to steel posts located on maximum 10 foot centers, constructed at the approved location. The safety fencing shall be maintained by the Contractor during the life of the contract and, upon completion and acceptance of the work, shall become the property of the Contractor and shall be removed from the work site.

## 1.9 CLEANUP

Construction debris, waste materials, packaging material and the like shall be removed from the work site daily. Any dirt or mud which is tracked onto paved or surfaced roadways shall be cleaned away. Materials resulting from demolition activities which are salvageable shall be stored within the fenced area described above or at the supplemental storage area. Stored material not in trailers, whether new or salvaged, shall be neatly stacked when stored.

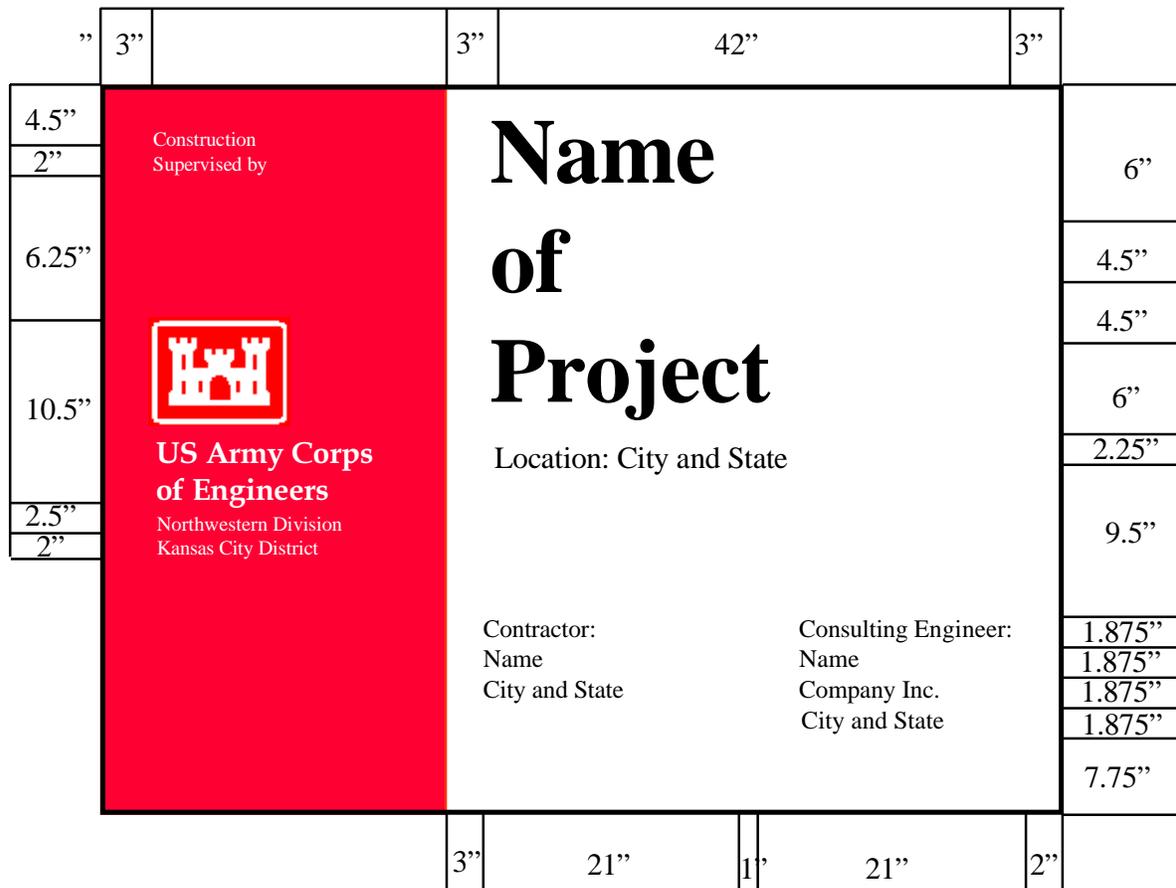
## 1.10 RESTORATION OF STORAGE AREA

Upon completion of the project and after removal of trailers, materials, and equipment from within the fenced area, the fence shall be removed and will become the property of the Contractor. Areas used by the Contractor for the storage of equipment or material, or other use, shall be restored to the original or better condition. Gravel used to traverse grassed areas shall be removed and the area restored to its original condition, including top soil and seeding as necessary.

-- End of Section --

The graphic format for this 4'x 6' sign panel follows the legend guidelines and layout as specified below. The large 4'x 4' section of panel on the right is to be white with black legend. The 2'x 4' section of the sign on the left with the full Corps signature (reverse version) is to be screen printed Communications Red on the White background.

This sign is to be placed with the Safety Performance Sign (See Fig. 2).



Legend Group 1: One to two-line description of Corps relationship to project  
Color: White  
Typeface: 1.25" Helvetica Regular  
Maximum line length: 19"

Legend Group 2: Division\ District Name Placed below 10.5" Reverse Signature (6" Castle).  
Color: White  
Typeface: 1.25" Helvetica Regular

Legend Group 3: One- to three-line project title legend describes the work being done under this contract.  
Color: Black  
Typeface: 3" Helvetica Bold  
Maximum line length: 42"

Legend Group 4: One- to two-line identification of project or facility (civil works) or name of sponsoring department (military).  
Color: Black  
Typeface: 1.5" Helvetica Regular  
Maximum line length: 42"

Cross-align the first line of Legend Group 4 with the first line of the Corps Signature (US Army Corps) as shown.

Legend Groups 5a-b: One- to five-line identification of prime contractors including: type (architect, general contractor, etc.), corporate or firm name, city, state. Use of Legend Group 5 is optional.  
Color: Black  
Typeface: 1.25" Helvetica Regular  
Maximum line length: 21"

All typography is flush left and rag right, upper and lower case with initial capitals only as shown. Letter- and word-spacing to follow Corps standards

Sign Type	Legend Size	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
CID-01	Various	4' x 6'	4' x 4'	HDO-3	48"	WH-RD/BK

**CONSTRUCTION SIGN (CORPS OF ENGINEERS DESIGN)**  
(Use with Fig 2)

Fig. 1

# SAFETY PERFORMANCE SIGN

Each contractor's safety record is to be posted on Corps managed or supervised construction projects and mounted with the construction project identification sign.

The graphic format, color, size and typefaces used on the sign are to be reproduced exactly as specified below. The title with First Aid logo in the top section of the sign and the performance record captions are standard for all signs of the type. Legend Groups 2 and 3 below identify the project and the contractor and are to be placed on the sign as shown.

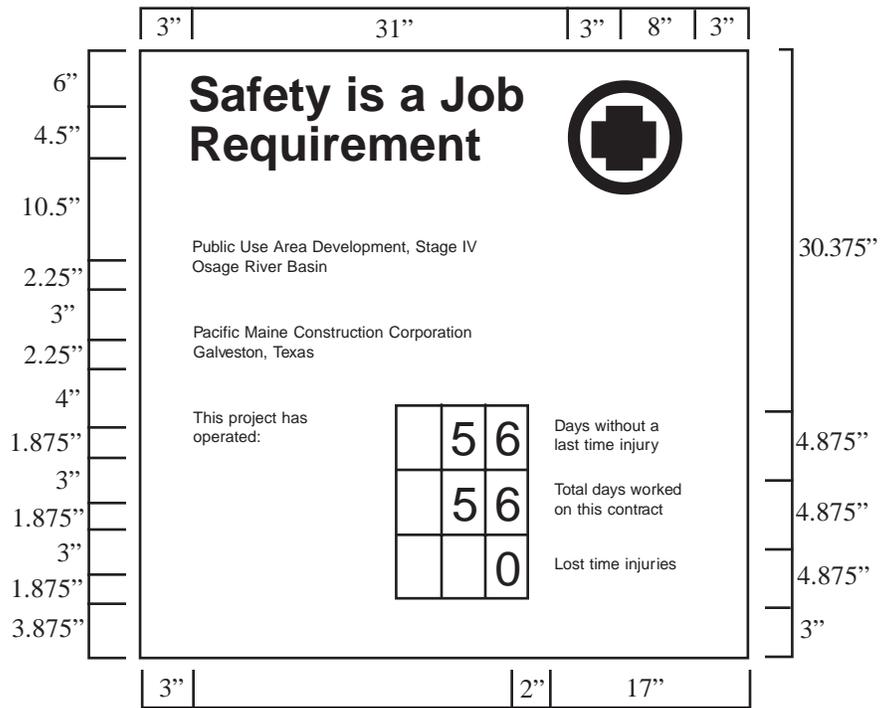
Safety record numbers are mounted on individual metal plates and are screw mounted to the background to allow for daily revisions to posted safety performance record.

**Legend Group 1:** Standard two-line title "Safety is a Job requirement" with (8 od.) Safety Green First Aid logo.  
Color: to match PMS 347  
Typeface: 3" Helvetica Bold  
Color: Black

**Legend Group 2:** One to two-line project title legend describes the work being done under this contract and name of host project.  
Color: Black  
Typeface: 1.5" Helvetica Regular  
Maximum line length: 42"

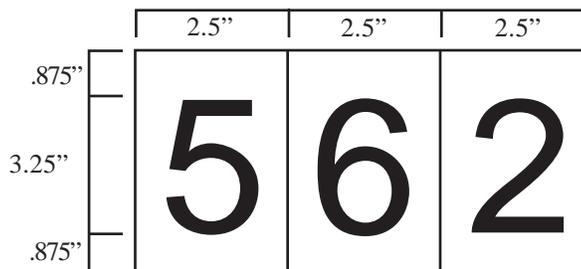
**Legend Group 3:** One to two-line identification; name of prime contractor and city, state address.  
Color: Black  
Typeface: 1.5" Helvetica Regular  
Maximum line length: 42"

**Legend Group 4:** Standard safety record captions as shown.  
Color: Black  
Typeface: 12.5" Helvetica Regular



Sign Type	Legend Size	Panel Size	Post Size	Specification Code	Mounting Height	Color Bkg/Lgd
CID-02	Various	4' X 4'	4" X 4"	HDO-3	48"	WH/BK - GR

Replaceable numbers are to be mounted on white .060 aluminum plates and screw-mounted to background.  
Color: Black  
Typeface: 3" Helvetica Regular  
Plate size: 2.5" X 5"



All typography is flush left and rag right. Upper and lower case with initial capitals only as shown. Letter - and word - spacing to follow Corps standards.

Fig. 2

**DIVISION 8 - DOORS AND WINDOWS**

**SECTION 08410**

**ALUMINUM ENTRANCES AND STOREFRONTS**

**PART 1 GENERAL**

**1.1 SCOPE:** Work covered by this section includes furnishing all plant, labor, equipment, materials, and transportation necessary for the installation of aluminum entrances and storefronts required in this project.

**1.2 APPLICABLE PUBLICATIONS:** Publications listed below form a part of this section to the extent referenced. Publications are referred to by basic designation only. Assume publications to be the most current edition in effect at the time a contract is awarded.

**1.2.1 Architectural Aluminum Manufacturer's Association (AAMA) Publication:**

602-2	Laboratory Qualifying Procedure for Temporary Clear Protective Coatings for Aluminum.
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**1.2.2 American Society for Testing and Materials (ASTM) Publications:**

B209/B209M	Aluminum and Aluminum-Alloy Sheet and Plate.
B221/B221M	Aluminum and Aluminum-Alloy Extruded Bar, Rod, Wire, Shape and Tube.
E283	Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors.
E330	Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference.
E331	Water Penetration of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference.
E547	Water Penetration of Exterior Windows, Curtain Walls, and Doors by Cyclic Static Air Pressure Differential.

**1.2.3 American Welding Society (AWS) Publication:**

D1.2	Structural Welding Code Aluminum.
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**1.3 SUBMITTALS:**

**1.3.1 List of Materials:** Submit a certified list of materials or manufacturer's descriptive literature for all major materials proposed for use in work under this section.

**1.3.2 Samples:** Submit samples of the proposed finish on the framing. Samples shall be manufacturer's standard size and shall exhibit range of variation in color to be expected.

**1.3.3 Installation Instruction:** Submit manufacturer's written installation instructions.

**1.3.4 Shop Drawings:** Submit shop drawings of the proposed fabrication and installation of aluminum entrances and storefronts. Shop drawings shall include elevations and sections, size and thickness of materials, fasteners and the method of anchoring, and the location of hardware and accessories.

## **PART 2 PRODUCTS**

**2.1 MATERIALS:** Materials furnished under this section shall be standard products of manufacturers regularly engaged in the production of the items, and the most current design which conforms to the requirements specified.

### **2.2 ALUMINUM ENTRANCES AND STOREFRONTS:**

#### **2.2.1 General Design Requirements:**

**2.2.1.1 Loading:** Fabricate components from manufacturer's stock systems which have been tested in accordance with ASTM E330 to withstand at least the following loadings:

**2.2.1.1.1** Uniform wind pressure of 25 psf inward and 25 psf outward.

**2.2.1.1.2** Uniform roof-loading of 30 psf (live) and 15 psf (dead) - total load of 45 pounds per square foot of roof area transferred to vertical mullions. Contractor shall furnish framing properly reinforced to withstand these loads whether specified or not.

**2.2.1.2 Air and Water Leakages:** Air infiltration of not more than 0.06 CFM per square foot of fixed area per ASTM E283 and no uncontrolled water penetration per ASTM E331 or E547 at pressure differential of 6.24 psf (excluding operable door edges).

**2.2.1.3 Field Measurement:** Wherever possible, take field measurements prior to preparation of shop drawings and fabrication, to ensure proper fitting of work. However, proceed with fabrication and coordinate installation tolerances as necessary when field measurements delay work.

#### **2.2.2 Aluminum Framing Materials and Accessories:**

**2.2.2.1 Aluminum Members:** Alloy and temper recommended by manufacturer for strength, corrosion resistance, and application of required finish; ASTM B221 for extrusions, ASTM B209 for sheet/plate.

**2.2.2.2 Fasteners:** Aluminum, non-magnetic stainless steel, or other materials warranted by the manufacturer to be noncorrosive and compatible with aluminum components. Do not use exposed fasteners except where unavoidable for application of hardware. Match finish of adjoining metal. Provide Phillips flat-head machine screws for exposed fasteners.

**2.2.2.3 Brackets and Reinforcements:** Manufacturer's high-strength aluminum units where feasible; otherwise, nonmagnetic stainless steel or hot-dip galvanized steel.

**2.2.2.4 Clear Protective Coatings:** AAMA 602.2, compounded specifically for protection of aluminum finish during construction.

**2.2.2.5 Sliding Weatherstripping:** Manufacturer's standard replaceable stripping of wool, polypropylene, or nylon woven pile, with nylon fabric and aluminum strip backing.

**2.2.2.6 Finish:** Anodized - AA M21C22A42 #40 Dark Bronze.

**2.2.3 Fabrication:**

**2.2.3.1 General:** Details shown are based upon standard details by manufacturer indicated. Similar details by other manufacturer's listed will be acceptable, provided they comply with other requirements, including profile limitations.

**2.2.3.2 Prefabrication:** To greatest extent possible, complete fabrication, assembly, finishing, hardware application, and other work before shipment to project site. Disassemble components only as necessary for shipment and installation. Do not drill and tap for surface-mounted hardware items until time or installation at project site.

**2.2.3.3 Sequence:** Complete cutting, fitting, forming, drilling, and grinding of metal work prior to cleaning, finishing, surface treatment, and application of finishes. Remove arises from cut edges and ease edges and corners to radius of approximately 1/64-inch.

**2.2.3.4 Welding:** Comply with AWS D1.2 to avoid discoloration; grind exposed welds smooth and restore mechanical finish.

**2.2.3.5 Reinforcing:** Install steel reinforcing as necessary to carry roof and wind loading; separate dissimilar metals with bituminous paint or other separator which will prevent corrosion.

**2.2.3.6 Continuity:** Maintain accurate relation of planes and angles, with hairline fit of contacting members.

**2.2.3.7 Fasteners:** Conceal fasteners wherever possible.

**2.2.3.8 Weatherstripping:** Provide compression weatherstripping against fixed stops and door bottom weatherstripping on each door.

**2.2.3.9 Storefront Framing System:** Inside-outside matched resilient flush-glazed system, fabricated for stick-type erection procedure with provision for glass replacement. Thermally broken type equal to one of the following: Kawneer 1600 Curtainwall; Vistawall HP 225 Thermal Wall System.

**2.2.3.10 Aluminum Doors:** Provide tubular frame members, fabricated with mechanical joints using heavy inserted reinforcing plates and concealed tie-rods or j-bolts, or fabricate with structurally welded joints, at manufacturer's option. Provide doors 1-3/4 inch thick, medium stile 3-1/2 inch wide edge and top stile, 6-1/2 inch bottom stile.

**2.3 HARDWARE:** Furnish and install entrance door hardware as indicated in Section 08700, HARDWARE.

**2.4 GLASS:** Furnish and install entrance door and storefront window glass and glazing as indicated in Section 08810, Glass and Glazing.

**PART 3 EXECUTION**

**3.1 GENERAL:** Install aluminum entrance doors and storefront windows as indicated on the plans and specified herein.

**3.2 INSTALLATION OF ENTRANCES AND STOREFRONTS:**

**3.2.1 General:** Set units plumb, level, and true to line, without warp or rack of framing members, doors, or panels. Anchor securely in place, separat-

ing aluminum and other corrodible metal surfaces from sources of corrosion or electrolytic action at points of contact with other materials.

**3.2.2 Hardware:** Drill and tap frames an doors and apply surface-mounted hardware items, complying with hardware manufacturer's instructions and tem-plate requirements. Use concealed fasteners wherever possible.

**3.2.3 Calking and Sealing:** Set sill members and other members in bed of com-pound as shown, or with joint fillers or gaskets as shown to provide weather-tight construction. Comply with requirements of SECTION 07920, CALKING AND SEALANTS.

### **3.3 INSTALLATION OF GLASS:**

**3.3.1 General:** Watertight and airtight installation of each glass product is required. Each installation must withstand normal temperature changes, wind loading, impact loading (for operating sash and doors), without failure in-cluding loss or breakage of glass, failure of sealants or gaskets to remain watertight and airtight, deterioration of glazing materials and other defects in the work.

#### **3.3.2 Glazing:**

**3.3.2.1** Install setting blocks of proper size in sill rabbet, located 1/4th of glass width from each corner.

**3.3.2.2** Provide spacers inside and out, of proper size and spacing, for glass sizes larger than 50 united inches, except where gaskets or preshimmed tapes are used for glazing. Provide 1/8 inch minimum bite of spacers on glass and use thickness equal to sealant width, except with sealant tape use thickness slightly less than final compressed thickness of tape.

**3.3.2.3** Tool exposed surfaces of glazing liquids and compounds to provide a substantial "wash" away from glass. Install pressurized tapes and gaskets to protrude slightly out of channel, so as to eliminate dirt and moisture pock-ets.

**3.3.2.4** Clean and trim excess glazing materials from glass and stops or frames promptly after installation, and eliminate stains and discolorations.

**3.3.2.5** Miter cut and bond ends together at corners where gaskets are used for channel glazing, so that gaskets will not pull away from corners and re-sult in voids or leaks in glazing system.

#### **3.4 ADJUST AND CLEAN:**

**3.4.1 Adjust Operating Hardware:** Adjust hardware to function properly, with-out binding, and to provide tight fit at contact points and weatherstripping.

**3.4.2 Clean Completed System:** Clean completed system inside and out, promptly after erection and installation of glass and sealants. Remove excess glazing and sealant compounds, dirt, and other substances from aluminum sur-faces.

**3.4.3 Institute Protective Measures:** Institute protective measures and other precautions required to assure that aluminum entrances and storefronts and glazing will be without damage or deterioration, other than normal weathering, at time of acceptance.

**3.4.4 Wash and Polish Glass:** Wash and polish glass on both faces not more than 4 days prior to date scheduled for inspections intended to establish date of substantial completion in each area of project. Comply with glass product manufacturer's recommendations for final cleaning.

**DIVISION 8 - DOORS AND WINDOWS**

**SECTION 08520**

**ALUMINUM WINDOWS**

**PART 1 GENERAL**

**1.1 SCOPE:** Work covered by this section includes furnishing all plant, labor, equipment, materials, and transportation necessary for the installation of aluminum windows required in this project.

**1.2 APPLICABLE PUBLICATIONS:** Publications listed below form a part of this section to the extent referenced. Publications are referred to in the text by basic designation only. Assume publications to be the most current edition in effect at the time a contract is awarded.

**1.2.1 Aluminum Association (AA) Publication:**

45 Designation System for Aluminum Finishes.

**1.2.2 American Architectural Manufacturers Association (AAMA) Publications:**

603.8 Voluntary Performance Requirements and Test Procedures for Pigmented Organic Coatings on Extruded Aluminum.

608.1 Voluntary Guide Specification and Inspection Methods For Electrolytically Deposited Color Anodic Finishes for Architectural Aluminum.

1503.1 Voluntary Test Method for Thermal Transmittance and Condensation Resistance of Windows, Doors and Glazed Wall Sections.

**1.2.3 American Architectural Manufacturers Association/National Wood Window and Door Association (AAMA/NWWDA) Publication:**

101/I.S. 2 Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors.

**1.2.4 American Society for Testing and Materials (ASTM) Publications:**

C236 Steady-State Thermal Performance of Building Assemblies by Means of a Guarded Hot Box.

E283 Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors.

E330 Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference.

E331 Water Penetration of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference.

E547 Water Penetration of Exterior Windows, Curtain Walls, and Doors by Cyclic Static Air Pressure Differential.

**1.3 SUBMITTALS:**

**1.3.1 List of Materials:** Submit a certified list of materials or manufacturer's descriptive literature for all major materials proposed for use in work under this section.

**1.3.2 Installation Instructions:** Submit manufacturer's written installation instructions.

**1.3.3 Shop Drawings:** Submit shop drawings of the proposed fabrication, installation, and glazing of aluminum windows. Shop drawings shall include elevations and sections, size and thickness of materials and fasteners, and the method of anchoring.

## **PART 2 PRODUCTS**

**2.1 MATERIALS:** Materials furnished under this section shall be standard products of manufacturers regularly engaged in the production of the items, and the most current design which conforms to the requirements specified.

**2.2 ALUMINUM WINDOWS:** Aluminum windows shall conform to AAMA/NWDA 101/I.S. 2 and the requirements herein. Aluminum windows shall meet or exceed the minimum Gateway Performance Requirements for C-30 (Commercial-30 psf), as set forth in AAMA/NWDA 101/I.S. 2 when tested in accordance with ASTM C236, E283, E330, and E331 or 547. Windows shall be glazed as specified and have a minimum condensation resistance factor (crf) of 50 when tested in accordance with AAMA 1503.1. Window frames and sashes shall have effective thermal breaks to prevent condensation on the inside of the windows. Operating window sashes shall have underscreen operators and be completely weatherstripped. Windows shall have an anodized finish conforming to AAMA 608.1; AA-M12C22A32 or AA-M12C22A34, Class I, Dark Bronze, as specified in AA 45. Windows shall be complete units with all hardware necessary for complete installation. Aluminum windows shall be the type and size indicated on the Window Schedule.

**2.3 FASTENERS:** Fasteners for window construction and installation shall be aluminum alloy, cadmium or zinc plated steel, stainless steel, or other non-corrosive metal compatible with aluminum.

**2.4 GLASS:** Aluminum windows shall be factory-glazed with the glass indicated on the Window Schedule. Glazing shall be as specified in SECTION 08810, GLASS AND GLAZING.

## **PART 3 EXECUTION**

**3.1 GENERAL:** Install aluminum windows as indicated on the plans and specified herein.

**3.2 INSTALLATION:** Install aluminum windows in accordance with the applicable portions of AAMA/NWDA 101/I.S. 2, the window manufacturer's written installation instructions, the Contractor's approved shop drawings. Glass shall have labels removed and be spotlessly clean upon completion of the installation.

**DIVISION 8 - DOORS AND WINDOWS**

**SECTION 08810**

**GLASS AND GLAZING**

**PART 1 GENERAL**

**1.1 SCOPE:** Work covered by this section includes furnishing all plant, labor, equipment, materials, and transportation necessary for the installation of glass and glazing required in this project.

**1.2 APPLICABLE PUBLICATIONS:** Publications listed below form a part of this section to the extent referenced. Publications are referred to in the text by basic designation only. Assume publications to be the most current edition in effect at the time a contract is awarded.

**1.2.1 American National Standards Institute (ANSI) Standard:**

Z97.1 Safety Performance Specifications and Methods of Test for Safety Glazing Materials Used in Buildings.

**1.2.2 American Society for Testing and Materials (ASTM) Publications:**

C1036 Flat Glass.

C1048 Heat-Treated Flat Glass - Kind HS, Kind FT Coated and Uncoated Glass.

C1172 Laminated Architectural Flat Glass.

E774 Sealed Insulating Glass Units.

**1.2.3 Flat Glass Marketing Association (FGMA) Publication:**

Glazing Manual.

**1.2.4 U.S. Department of Commerce Architectural and Transportation Barriers Compliance Board Publication:**

16 CFR 1201 Safety Standard for Architectural Glazing Materials.

**1.3 SUBMITTALS:**

**1.3.1 List of Materials:** Submit a certified list of materials or manufacturer's descriptive literature for all major materials proposed for use in work under this section.

**1.3.2 Installation Instructions:** Submit manufacturer's written installation instructions.

**PART 2 PRODUCTS**

**2.1 MATERIALS:** Materials furnished under this section shall be standard products of manufacturers regularly engaged in the production of the items, and the most current design which conforms to the requirements specified.

**2.2 GLASS:** Glass installed in all doors and windows and storefronts where the bottom of the glass is 18 inches or less above finished floor shall be

laminated glass or tempered safety glass and conform to the requirements set forth in ANSI Z97.1 and 16 CFR 1201.

**2.2.1 Primary Glass:** Primary glass shall conform to ASTM C1036, Type I, Class 1, Quality q3, and be a minimum of 1/4 inch thick.

**2.2.2 Laminated Glass:** Laminated glass shall conform to ASTM C1172 and consist of a minimum of two 1/8 inch thick layers of primary glass conforming to ASTM C1036, Type I, Class 1, Quality q3. Glass shall be bonded together with 0.030 inch thick PVB interlayer under pressure, or alternatives such as resin laminates, conforming to requirements of ASTM C1172, ANSI Z97.1, and 16 CFR 1201. Glass shall be permanently marked indicating its conformance with ANSI Z97.1 and 16 CFR 1201.

**2.2.3 Tempered Safety Glass:** Tempered safety glass shall conform to ASTM C1048, Kind FT, Condition A, Type I, Class 1, Quality q3, and be a minimum of 1/4 inch thick. Glass shall be permanently marked indicating its conformance with ANSI Z97.1 and 16 CFR 1201.

**2.2.4 Insulating Glass:** Insulating glass units shall conform to ASTM E774. Glass used to fabricate insulating glazing panels shall conform to paragraphs 2.2.1, 2.2.2, and/or 2.2.3 as specified or appropriate. Inner and outer lites shall be a minimum of 1/4 inch thick and separated by a hermetically sealed, dehydrated 1/2 inch air space. Inner lites of all insulated glass units shall be clear laminated glass conforming to paragraph 2.2.2. Outer lites of insulating glass installed in all doors and windows and storefronts where the bottom of the glass is 18 inches or less above finished floor shall be tinted laminated glass conforming to ASTM C1172 or tinted tempered safety glass conforming to ASTM C1048. All other outer lites may be tinted primary glass conforming to ASTM C1036.

### **2.3 GLAZING MATERIALS:**

**2.3.1 Compounds and Glazing Sealants:** Glazing compounds or preformed glazing sealants shall be the proper product for the intended application, and conform to the applicable portions of the FGMA "Glazing Manual." Compounds shall match, or be painted to match, the frames. Preformed sealants shall match the frames and not require painting. Compounds and sealants shall be nonstaining.

**2.3.2 Glazing Accessories:** Glazing accessories shall be proper products for the intended application, and be aluminum alloy, cadmium or zinc plated steel, stainless steel or other noncorrosive metal.

**2.3.3 Glazing Gaskets:** EPDM exterior gaskets held in place by exterior pressure plates fastened to main grid members.

**2.3.4 Setting Blocks:** Neoprene or EPDM, 70-90 durometer hardness, with proven compatibility with sealants used.

**2.3.5 Spacers:** Neoprene or EPDM, 40-50 durometer hardness, with proven compatibility with sealants used.

**2.3.6 Cleaners:** Type recommended by glazing manufacturer.

### **PART 3 EXECUTION**

**3.1 GENERAL:** Install glazing in window and door openings as indicated on the plans and specified herein.

**3.2 GLAZING:** Accomplish glazing in accordance with FGMA "Glazing Manual" and any applicable manufacturer's written installation instructions.

**3.3 CLEANUP:** Glass shall have labels removed and be spotlessly clean upon completion of the installation.