

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE OF PAGES	
			J	1	2
2. AMENDMENT/MODIFICATION NO. 0002	3. EFFECTIVE DATE 21-May-2004	4. REQUISITION/PURCHASE REQ. NO. W22W9K-4084-7256		5. PROJECT NO.(If applicable) ZHTV963204	
6. ISSUED BY U. S. ARMY ENGINEER DISTRICT, LOUISVILLE 600 DR. MARTIN LUTHER KING, JR. PLACE ROOM 821 LOUISVILLE KY 40202-2230	CODE W912QR	7. ADMINISTERED BY (If other than item 6) MILITARY/RESERVE TEAM 600 DR. M. L. KING, JR. PL., RM 821 ATTN: TOM E. DICKERT LOUISVILLE KY 40202-2230		CODE DACA27	
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)			X	9A. AMENDMENT OF SOLICITATION NO. W912QR-04-R-0020	
			X	9B. DATED (SEE ITEM 11) 26-Apr-2004	
				10A. MOD. OF CONTRACT/ORDER NO.	
				10B. DATED (SEE ITEM 13)	
CODE	FACILITY CODE		11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS		
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input checked="" type="checkbox"/> is not extended. Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.					
12. ACCOUNTING AND APPROPRIATION DATA (If required)					
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.					
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.					
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).					
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:					
D. OTHER (Specify type of modification and authority)					
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.					
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) Solicitation W912QR-04-R-0020 for the D/B Consolidated Fire/Crash Rescue Station project located at Wright Patterson Air Force Base, Ohio is amended as follows: See Attached.					
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.					
15A. NAME AND TITLE OF SIGNER (Type or print)			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)		
			TEL: _____ EMAIL: _____		
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
_____ (Signature of person authorized to sign)		BY _____ (Signature of Contracting Officer)		21-May-2004	

SECTION SF 30 - BLOCK 14 CONTINUATION PAGE

AMENDMENT 0002

SUMMARY OF CHANGES

1) The minutes of the pre-proposal conference, including roster and questions and answers, are attached and made a part of the solicitation.

2) Narrative Drawing Changes

a. In the lower left hand corner of Drawing A201, add the following:

“General Note: The square footage column indicates the minimum net area of the individual functional spaces. Mechanical spaces shall be as required to accommodate the equipment and provide adequate space for operation and maintenance.”

b. On Drawing C1.01, delete the dimension line between Building 30145 and the southern limit of the new building construction area and delete the words “Approximately 300’.”

Add note to read: “The southern construction limit shall be established during design to maximize the distance between Building 30145 and the new Fire/Crash Rescue Station.”

3) Section 00800, 01010, and 01020 of Amendment #1 are deleted and replaced by Section 00800 (Amendment #2), Section 01010 (Amendment #2), and Section 01020 (Amendment #2).

4) Section 01453 is deleted and replaced by Section 01453 (Amendment #2).

5) Wage decisions OH030002, Modification 4, dated 05/14/2004 and OH030029, Modification 3, dated 05/14/2004, attached, are hereby incorporated.

(End of Summary of Changes)

CELRL-ED-MA
19 May 2004

MEMORANDUM FOR RECORD

**SUBJECT: Minutes of Pre-proposal Meeting, Fire/Crash Rescue Station, WPAFB
(W912QR-04-R-0020)**

1. Subject meeting was convened at 10:00 on 14 May 2004 in Bldg 11 at WPAFB. Gary Serke, Corps of Engineers, chaired the meeting. An attendance roster is attached.
2. Mr. Serke opened the meeting and introduced Tom Dickert from the COE Contracting Division. Mr. Dickert is identified in the solicitation as the point of contact for contractor questions during the bid period. Mr. Serke passed out index cards for written questions and emphasized that all questions should be submitted in writing to Mr. Dickert; verbal communication are not binding. Mr. Serke then provided a brief overview of the project.
3. Mr. Dickert then provided a brief summary of some of the important contracting aspects of the procurement:
 - a. The proposal will be the basis of selection. The proposal requirements and evaluation process are described in Sections 00115 and 00130 of the solicitation.
 - b. If any of the information required by Section 00115 is not included in a proposal, that proposal would not be awardable.
 - c. The Government may award based on the initial proposal without opening discussions.
 - d. Additional information not requested in Section 00115 is discouraged and will not be evaluated.
 - e. The selection board normally meets for one week, depending on how many proposals are received and other factors.
 - f. The proposals are currently due on 17 June 2004
4. Mr. Serke then asked the contractor attendees to take a few minutes to write their questions on the index cards. The index cards were collected after sufficient time for all questions.

CELRL-ED-MA

SUBJECT: Minutes of Pre-proposed meeting, Fire/Crash Rescue Station, WPAFB
(W912QR-04-R-0020)

5. The meeting then adjourned for a walking tour of the site, led by Mike Flynn, COE.
6. The meeting reconvened at the end of the site visit and Mr. Serke collected additional questions.
7. The questions were then reviewed and tentative answers were provided. Mr. Serke advised the attendees that the official answers would come out by amendment. The questions and final answers are attached.
8. The meeting adjourned at approximately 1200 hours. Mr. Serke closed by reminding attendees to be sure their proposal includes all information requested in Section 00115.



Harrison Fox
Project Engineer



US Army Corps
of Engineers
Louisville District



CONSOLIDATED FIRE/CRASH RESCUE STATION
WRIGHT PATTERSON AIR FORCE BASE
SOLICITATION NO. W912QR-04-R-0020
PRE-PROPOSAL CONFERENCE / SITE VISIT
MEETING ROSTER
14 MAY 2004

NAME	ORGANIZATION	PHONE
SCOTT HADDOCK	BARTON Malow	614 621-4000
Mike Norton	Barton Malow Co.	614-621-4000
BRADLEY BUTCHER, MA	BUTCHER & ASSOC.	981.731.4343
DAVID PyZONA	EMH + T, inc.	513-697-8701
JEFF KASH	SHOOK CONSTRUCTION	937-276-6666
KIRK Guy	Barton Malow	614-621-4000
TOM MINER	BARTON MALOW	248-436-5356
KEN Cristofani	Burgess & Niple	614-459-2050
MIKE STAFFORD	STAFFORD CONST. INC	937-878-7915
JUSTIN Rossi	FERGUSON CONSTRUCTION Co.	937-274-1173
GARY SERKE	Group of Eng'rs	502-315-6812
Harrison Fox	COE	502-315-6359
MARK SHOEMAKER	COLF + RUSSELL ARCHITECTS	513-721-8080
JOE Brink	BURGESS & NIPLE	513-579-0042
Bob Draper	Burgess & Niple	513-579-0042
FRANK COX, ASST. CHIEF	WPAFB FIRE Department	937-603-6990
Bryan Gardner	The Quandel Group, Inc.	614.865.9000
JOE MEYERS	CHAPEL ELECTRIC Co.	937-252-2677
RICK O'cull	CAREY ELECTRIC Co.	937-669-3399
CHRIS Brickner	THE QUANDEL Group, Inc.	614-865-9000
Gary Stevens	USACE	937-656-9181
TED WALKER	THE QUANDEL Group, Inc	513/954-1700

W2912QR-04-R-0020
Pre-Proposal Questions and Answers

- 1.) Q: Can you publish a list of all attendees of the pre-proposal meeting?
A: Yes; the meeting minutes and roster will be issued by amendment.

- 2.) Q: Will the LEED checklist (Paragraph 1.1.10, Section 01020) be evaluated by the SSEB?
A: No; see Section 00115.

- 3.) Q: Is the asbestos in 01020, 2.5.2, part of the \$120,000 allowance?
A: Reference paragraph 2.5.1, first bullet.

- 4.) Q: Paragraph 2.6.1 of 01020 indicates the temporary construction fence at 165' North of Building 145. The drawings (RFP) appear to indicate this fence at 65' north. Please clarify.
A: The conflict will be resolved by amendment.

- 5.) Q: Do anti-terrorism/force protection measures apply to this project?
A: Yes; see Part 5 of Section 01020.

- Q: Can we photograph today?
A: Yes; but no airplanes.

- Q: Is the funding approved for the project?
A: Yes.

- Q: Are any of the demolition components to be optional bid items?
A: No; see paragraph 1.1.12, Section 01020.

- 6.) Q: Please address hours available for construction activities on Base, and any restrictions.
A: Refer to Paragraph 1.2 and 8.4 in Section 01020 and paragraph 1.8 in Section 01010.

- Q: Will additional site visits be allowed prior to proposal date? If so, who should we contact?
A: Additional organized site visits are not planned at this time. Individuals desiring to visit the site should contact Mike Flynn (937-255-2977) as indicated in Section 00100.

- Q: Please address construction traffic flow, points of access, etc.
A: Reference paragraph 1.33 of Section 00800 and Part 8 of Section 01020.

Q: Is there a specific date in 2006 for occupancy?

A: Refer to Paragraph 1.3 of Section 0800 for the period of performance.

7.) Q: Has the staging of apparatus in the Apparatus Bay been determined, and are the sizes (lengths) of the apparatus available?

A: Refer to the Fire Station Design Guide, pages 24 and 25, for vehicle dimensions.

8.) Q: Is it possible to make a return visit to site to double check any issues prior to submission of proposal?

A: Yes; see question #6.

9.) Q: Performance Period. 420 calendar days for design and construction is very aggressive. We suggest 540 calendar days.

A: Noted; Any revision to the performance period would be issued by amendment.

10.) Q: Any known lead/asbestos in any of the buildings to be demolished?

A: Refer to Paragraph 2.5 of Section 01020.

Q: What is the apron thickness at proposed F/C/R site?

A: Refer to paragraph 2.2.1 of Section 01020 (This answer was not available at the meeting).

11.) Q: Is it feasible with design reviews, material procurement and construction duration to extend this overall schedule by 6 months?

A: Noted; if the performance period is changed, an amendment will be issued.

12.) Q: Are there any hazardous material, i.e., asbestos, lead paint, to be removed in these buildings? If so, who is responsible for this scope?

A: Refer to Paragraph 2.5 of Section 01020.

Amendment #0002

SECTION 00800L

SPECIAL CLAUSES

10/03

PART 1 GENERAL

1.1 REFERENCES - NOT USED

1.2 SUBMITTALS

Government approval/acceptance is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01331 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

Labor, Equipment and Material Reports; G

Pollution Prevention Plan

Quality Control Plan; G,

SD-05 Design Data

Equipment-in-Place List

Maintenance and Parts Data

SF1413

Local Agency Check

Notice of Soil Treatment

Progress Photographs

Waste Test Results Manifest

Site Plan; G

Dirt and Dust Control Plan; G

Construction and Demolition (C&D) Waste Management Plan; G

Activity Environmental Analysis

SD-07 Certificates

Warranties

Insurance

DA Form 3337; G

SD-11 Closeout Submittals

As-Built Drawings; G

Mechanical Room Layout; G

*2

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

The Contractor shall be required to commence work under this contract within 10 calendar days after the date the Contractor receives the notice to proceed, prosecute said work diligently, and complete the Fire Station and related site work ready for use not later than 430 calendar days after date of receipt of notice to proceed. The time period for demolition of existing structures is an additional 110 days, including 20 days for the Fire Department to vacate building 30206. The Total Project Schedule from Notice to Proceed to project completion shall be 540 days. The time stated for completion shall include as-built drawings, O&M manuals, operational tests/reports/training/instructions, equipment lists, and final cleanup of the premises.

*2

1.4 LIQUIDATED DAMAGES--CONSTRUCTION (SEP 2000) FAR 52.211-12.

a. If the Contractor fails to complete the work within the time specified in the contract, the Contractor shall pay liquidated damages to the Government in the amount of \$830.00 for each calendar day of delay until the work is completed or accepted.

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

1.5 TIME EXTENSIONS (SEPT 2000) FAR 52.211-13 - NOT USED

1.6 EXCLUSION OF PERIODS IN COMPUTING COMPLETION SCHEDULES - NOT USED

1.7 CONTRACT DRAWINGS AND SPECIFICATIONS (AUG 2000) DFARS 252.236-7001
19 Sept 2000 - NOT USED

[Version 2] (May 2002)

a. At award, the Government will furnish the Contractor a compact disk containing all technical contract documents. This disk will include a complete set of drawing files and technical specification files which have all amendments incorporated. The disk will contain drawing files in CALS Type 4 format and technical specifications in PDF format.

The CALS files and the PDF files are being provided for the Contractor's use in printing hard copies of contract documents.

In addition, native CADD files and Specsintact files are provided in accordance with "AS-BUILT DOCUMENTS" paragraph for the Contractor's use in developing as-built plans and specifications.

b. The Contractor shall--

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

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

d. The work shall conform to the specifications and the contract drawings identified on the following index of drawings:

***AMENDMENT #0001**

TABLE OF DRAWINGS

Drawing Code _____

Drawing No.	Title (followed by drawing code if different from that shown above)	Latest Rev. No. & Date
1 of 11 A0.00	Cover Sheet	
2 of 11 A2.01	Programming Matrix	
3 of 11 A2.02	Programming Matrix	
4 of 11 A2.03	Equipment Matrix	
5 of 11 C1.00	Topographic Survey Plan	
6 of 11 C1.01	Site Layout Plan	
7 of 11 C1.02	Underground Utility Plan	
8 of 11 C1.03	Water/Steam Plan	
9 of 11 C1.04	Electric, Gas, Communication Plan	
10 of 11 C1.05	Storm Sanitary Sewer Plan	
11 of 11 C1.06	Building 30206 - North Site Layout Plan	

***AMENDMENT #0001**

1.8 AS-BUILT DOCUMENTS - NOT USED

3 November 1998 (Version 1)

1.9 AS-BUILT DOCUMENTS FOR DESIGN BUILD PROJECTS

4 February 1999 (Version 2)

1.9.1 General

It is the scope of this section to provide guidance to the Contractor on preparing as-built drawings and as-built specifications. An as-built drawing is a construction drawing revised to reflect the final as-built conditions of the project as a result of modifications and corrections to the project design required during construction. The final as-built drawings shall not have the appearance of marked up drawings, but that of professionally prepared drawings as if they were the "as designed" drawings.

As-built specifications are the construction specifications as modified by changes (contract mods, ACO approved variations from the construction specifications which did not result in contract mods, and any additional details which were not fully developed at the time of completion of construction documents).

1.9.2 Maintenance of As-Built Drawings

The Contractor shall keep a careful record set of blue line prints at the job site, marked in red, of all changes and corrections from the contract drawings. The Contractor shall enter changes and corrections on drawings promptly to reflect "Current Construction". This update shall be done no less frequently than on a weekly basis for the blue line prints and update no less frequently than a quarterly basis for the CADD files, which were prepared previously in accordance with Section 01021. A confirmation shall be included that the as-builts are up to date with the submission of the monthly project schedule. If the Contractor fails to maintain the as-built drawings as required herein, the Contracting Officer will deduct from the monthly progress payment, an amount representing the estimated monthly cost of maintaining the as-built drawings. Final payment with respect to separately priced facilities or the contract as a whole, will be withheld until proper as-built drawings have been furnished to, and accepted by the Contracting Officer. The marked-up set of plans shall reflect any changes, alterations, adjustments or modifications. Changes must be reflected on all sheets affected by the change. Changes shall include marking the drawings to reflect structural details, foundation layouts, equipment sized, and other extensions of design.

Typically, room numbers shown on the contract drawings are selected for design convenience and do not represent the actual numbers intended for use by the end user. Final as-built drawings shall reflect actual room numbers adopted by the end user.

1.9.3 Maintenance of As-Built Specifications

As-built specifications shall be marked up no less frequently than on a weekly basis. Revised electronic files shall be done no less frequently than monthly.

1.9.4 Underground Utilities

The drawings shall indicate, in addition to all changes and corrections, the actual location, kinds and sizes of all sub-surface utility lines. In order that the location of these lines and appurtenances may be determined in the event the surface openings or indicators become covered over or obscured, the as-built drawings shall show, by offset dimensions to two permanently fixed surface features, the end of each run including each change in

direction. Valves, splice boxes and similar appurtenances shall be located by dimensioning along the utility run from a reference point. The average elevation of the top of each run or underground structure shall also be recorded.

1.9.5 Borrow Areas

All borrow material required for the project will be from off base sources at the Contractor's expense and shall be certified free of any contamination.

1.9.6 Partial Occupancy - Not Used

1.9.7 As-Built Conditions That are Different From the Contract Drawings

All as-built conditions that are different from the contract drawings shall be accurately reflected on each drawing. If the as-built condition is accurately reflected on a shop drawing, then furnish that shop drawing shall be in CADD format. The final as-built drawing shall refer to the shop drawing file that includes the as-built information.

1.9.8 Additional As-Built Information that Exceeds the Detail Shown on the Contract Drawings:

These as-built conditions include those that reflect structural details, foundation layouts, equipment, sizes, mechanical room layouts and other extensions of design, that were not shown in the project design documents because the exact details were not known until after the time of approved shop drawings. It is recognized that these shop drawing submittals (revised showing as-built conditions) will serve as the as-built record without actual incorporation into the contract drawings. Furnish all such shop drawings in CADD format.

1.9.9 Final As-Built Drawings

At the time of Beneficial Occupancy of the project or at a designated phase of the project, final as-built CADD files shall be provided to the Contracting Officer in the following formats:

- (1) On CD-ROM in the format as specified in Section 01021
- (2) One full size original on photographic Mylars
- (3) The record set of blue line mark-ups

In the event the Contractor accomplishes additional work after this submittal, which changes the as-built conditions, the Contractor shall furnish a new CD-ROM, new full size original on photographic Mylars of affected sheets, and new blue line copy which depicts all the additional changes.

1.9.10 Title Blocks

Title Blocks shall be clearly marked to indicate final as-built drawings.

1.9.11 Final As-Built Specifications

Final as-built specifications shall be prepared in Specsintact and the electronic files shall be placed on the same CD-ROM that contains the as-

built CADD files. The front sheet of the specifications shall contain an identification which clearly labels the specifications as representing as-built conditions and shall be dated with the date of the submittal.

1.9.12 Other As-Built Documents

All other documents such as design analysis, catalog cuts, certification documents that are not available in native electronic format shall be scanned and provided in an organized manner in Adobe.pdf format.

1.9.13 Final Payment

No separate or direct payment will be made for the work specified herein. All costs associated with this work shall be included in the applicable contract prices for the items requiring as-built drawings listed in the bidding schedule.

1.9.14 Retainage

The Government will retain \$50,000 until receipt of satisfactory as-built documents.

1.10 EQUIPMENT DATA

Real Property Equipment.

Contractor shall be required to make an **Equipment-in-Place list** of all installed equipment furnished under this contract. This list shall include all information usually listed on manufacturer's name plate. The form is part of SPECIAL CLAUSES and is included following the SPECIAL CLAUSES, so to positively identify the piece of property. The list shall also include the cost of each piece of installed property F.O.B. construction site. For each of the items which is specified herein to be guaranteed for a specified period from the date of acceptance thereof, the following information shall be given: The name, serial and model number address of equipment supplier, or manufacturer originating the guaranteed item. The Contractor's guarantee to the Government of these items will not be limited by the terms of any manufacturer's guarantee to the Contractor. Furnish the list as one (1) reproducible and three (3) copies to the Contracting Officer thirty (30) calendar days before completion of any segment of the contract work which has an incremental completion date.

Maintenance and Parts Data.

The Contractor will be required to furnish a brochure, catalog cut, parts list, manufacturer's data sheet or other publication which will show detailed parts data on all other equipment subject to repair and maintenance procedures not otherwise required in Operations and Maintenance Manuals specified elsewhere in this contract. Distribution of directives shall follow the same requirements as listed in paragraph above.

1.11 PHYSICAL DATA (APR 1984) FAR 52.236-4.

2 January 1996

Data and information furnished or referred to below is furnished for the Contractor's information. The Government will not be responsible for any interpretation or conclusion drawn from the data or information by the Contractor.

Physical Conditions indicated on the drawings and in the specifications are the result of site investigations.

Weather Conditions. The Contractor shall make his own investigations as to weather conditions at the site. Data may be obtained from various National Weather Service offices located generally at airports of principal cities, the nearest to this project being: Cincinnati, Ohio

Historical data for all areas may be obtained from:

U. S. Department of Commerce
National Climatic Center
Federal Building
Asheville, N. C. 28801

Transportation Facilities. Roads and railroads in the general area are shown on the drawings. Access ways shall be investigated by the Contractor to satisfy himself as to their existence and allowable use.

1.12 UTILITIES (APR 1984) FAR 52.236-14 (PARA. 1.12.A.(1) & 1.12.A.(2) ONLY).

a. Availability and Use of Utility Services

(1) The Government will make all reasonably required amounts of utilities available to the Contractor from existing outlets and supplies, as specified in the contract. Unless otherwise provided in the contract, the amount of each utility service consumed shall be charged to or paid for by the Contractor at prevailing rates charged to the Government or, where the utility is produced by the Government, at reasonable rates determined by the Contracting Officer. The Contractor shall carefully conserve any utilities furnished without charge.

(2) The Contractor, at its expense and in a workmanlike manner satisfactory to the Contracting Officer, shall install and maintain all necessary temporary connections and distribution lines, and all meters required to measure the amount of each utility used for the purpose of determining charges. Before final acceptance of the work by the Government, the Contractor shall remove all the temporary connections, distribution lines, meters, and associated paraphernalia.

(3) Electric Power for Small Tools not exceeding 20 amperes and 115 volts will be furnished from existing outlets at no cost to the Contractor, subject to proper use, and that total estimated consumption will not exceed 1,000 kilowatts per month. The Contractor's **Small Tool Usage Plan** shall be submitted for determination of estimated consumption. In the event the estimate exceeds the above allowance, the requirements for other utilities will apply.

b. Alterations to Utilities

Where changes and relocations of utility lines are noted to be performed by others, the Contractor shall give the Contracting Officer at least thirty (30) days written notice in advance of the time that the change or relocation is required. In the event that, after the expiration of thirty (30) days after the receipt of such notice by the Contracting Officer, such utility lines have not been changed or relocated and delay is occasioned to the completion of the work under contract, the Contractor will be entitled to a time extension equal to the period of time lost by the Contractor after the expiration of said thirty (30) day period. Any modification to existing or relocated lines required as a result of the Contractor's method of operation shall be made wholly at the Contractor's expense and no additional time will be allowed for delays incurred by such modifications.

c. Interruptions of Utilities

(1) No utility services shall be interrupted by the Contractor to make connections, to relocate, or for any purpose without approval of the Contracting Officer.

(2) Request for Permission to shut down services shall be submitted in writing to the Contracting Officer not less than fourteen (14) days before date of proposed interruption. The request shall give the following information:

- (a) Nature of Utility (Gas, L.P. or H.P., Water, etc.)
- (b) Size of line and location of shutoff;
- (c) Buildings and services affected.
- (d) Hours and date of shutoff.
- (e) Estimated length of time services will be interrupted.

(3) Services shall not be shutoff until receipt of approval of the proposed hours and date from the Contracting Officer.

(4) Shutoffs which will cause interruption of Government work operations as determined by the Contracting Officer shall be accomplished during regular non-work hours or on non-work days of the Using Agency without any additional cost to the Government.

(5) Operation of valves on water mains will be by Government personnel. Where shutoff of water lines interrupts service to fire hydrants or fire sprinkler systems, the Contractor shall arrange his operations and have sufficient material and personnel available to complete the work without undue delay or to restore service without delay in event of emergency.

(6) Flow in gas mains which have been shut off shall not be restored until the Government inspector has determined that all items serviced by the gas line have been shut off.

1.14 LAYOUT OF WORK (APR 1984) FAR 52.236-17

The Contractor shall lay out its work and shall be responsible for all measurements in connection with the layout. The Contractor shall furnish, at his own expense, all stakes, templates, platforms, equipment, tools, materials, and labor required to lay out any part of the work. The Contractor shall be responsible for executing the work to the lines and grades that may be established or indicated by the Contracting Officer. The Contractor shall also be responsible for maintaining and preserving all stakes and other marks established by the Contracting Officer until authorized to remove them. If such marks are destroyed by the Contractor or through its negligence before their removal is authorized, the Contracting Officer may replace them and deduct the expense of the replacement from any amounts due or to become due to the Contractor.

1.15 LINES, GRADES AND LIMITS - NOT USED

20 Feb 2002

1.16 PERFORMANCE OF WORK BY THE CONTRACTOR (APR 1984) FAR 52.236-1

Version 1

The Contractor shall perform on the site, and with its own organization, work equivalent to at least 20 percent of the total amount of work to be performed under the contract. This percentage may be reduced by a supplemental agreement to this contract if, during performing the work, the Contractor requests a reduction and the Contracting Officer determines that the reduction would be to the advantage of the Government.

a. For purposes of this paragraph "WORK BY THE CONTRACTOR" is defined as prime Contractor direct contract labor (including testing and layout personnel), exclusive of other general condition or field overhead personnel, material, equipment, or subcontractors. The "TOTAL AMOUNT OF WORK" is defined as total direct contract labor (including testing and layout personnel), exclusive of other general condition or field overhead personnel, material, or equipment.

b. Within 7 days after the award of any subcontract, either by himself or a subcontractor, the Contractor shall deliver to the Contracting Officer a completed SF 1413, "Statement and Acknowledgment." The form shall include the subcontractor's acknowledgement of the inclusion in his subcontract of the clauses of this contract entitled "Davis-Bacon Act," "Contract Work Hours and Safety Standards Act-Overtime Compensation," "Apprentices and Trainees," "Compliance with Copeland Regulations," "Withholding of Funds," "Subcontracts," "Contract Termination-Debarment," and "Payrolls and Basic Records." Nothing contained in this contract shall create any contractual relation between the subcontractor and the Government.

1.17 SUPERINTENDENCE OF SUBCONTRACTORS

a. The Contractor shall be required to furnish the following, in addition to the superintendence required by CONTRACT CLAUSE: SUPERINTENDENCE BY THE CONTRACTOR.

(1) If more than 50 percent and less than 70 percent 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 percent 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 percent of the subcontracted work has been completed, finds that satisfactory progress is being made, he may waive all or part of the above requirements 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.

1.18 IDENTIFICATION OF EMPLOYEES.

a. The Contractor shall be responsible for furnishing an identification badge/card to each employee prior to the employees work on-site, and for requiring each employee engaged on the work to display identification as may be approved and directed by the Contracting Officer. All prescribed identification shall immediately be delivered to the Contracting Officer for cancellation upon release of the 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.

b. The Contractor is required to provide a **Local Agency Check** for each individual that will be working on this contract. See Paragraph "COMPLIANCE WITH POST/BASE REGULATIONS" for instructions.

1.19 CONTRACTOR-PREPARED NETWORK ANALYSIS SYSTEM - NOT USED

1.20 WARRANTY OF CONSTRUCTION (MAR 1994) ALTERNATE 1 (APR 1984) FAR 52.246-21I.

a. General Requirements

(1) In addition to any other warranties in this contract, the Contractor warrants, except as provided in paragraph 1.20.a.(10) of this clause, that work performed under this contract conforms to the contract requirements and is free of any defect in equipment, material, or design furnished, or workmanship performed by the Contractor or any subcontractor or supplier at any tier.

(a) Warranty Payment: Warranty work is a subsidiary portion of the contract work, and has a value to the Government approximating 1% of the contract award amount. The Contractor will assign a value of that amount in the breakdown for progress payments mentioned in the Contract Clause: Payments Under Fixed-Price Construction Contracts. If the Contractor fails to respond to warranty items as provided in paragraph 1.20.e.(5), the Government may elect to acquire warranty repairs through other sources and, if so, shall backcharge the Contractor for the cost of such repairs. Such backcharges shall be accomplished under the Changes Clauses of the contract through a credit modification(s).

(2) This warranty shall continue for a period of 1 year from the date of final acceptance of the work. If the Government takes possession of any part of the work before final acceptance, this warranty shall continue for a period of 1 year from the date the Government takes possession.

(a) As a part of the one year warranty inspection, the Contracting Officer will conduct an infrared roof survey on any project involving a membrane roofing system. This survey will be conducted in accordance with ASTM C1153-90, "Standard Practice for Location of Wet Insulation in Roofing Systems Using Infrared Imaging". In accordance with paragraph 1.20.a.(3) and 1.20.a.(4) below, the Contractor shall be required to replace all damaged materials and to locate and repair sources of moisture penetration.

(3) The Contractor shall remedy at the Contractor's expense any failure to conform, or any defect. In addition, the Contractor shall remedy at the Contractor's expense any damage to Government-owned or controlled real or personal property, when that damage is the result of--

(a) The Contractor's failure to conform to contract requirements; or

(b) Any defect of equipment, material, workmanship, or design furnished.

(4) The Contractor shall restore any work damaged in fulfilling the terms and conditions of this clause. The Contractor's warranty with respect to work repaired or replaced will run for 1 year from the date of repair or replacement.

(5) The Contracting Officer shall notify the Contractor, in writing, (see para. 1.20.b.(3) and 1.20.e) within a reasonable time after the discovery of any failure, defect, or damage.

(6) If the Contractor fails to remedy any failure, defect, or damage within a reasonable time after receipt of notice, (see para. 1.20.e) the Government shall have the right to replace, repair, or otherwise remedy the failure, defect, or damage at the Contractor's expense.

(7) With respect to all warranties, express or implied, from subcontractors, manufacturers, or suppliers for work performed and materials furnished under this contract, the Contractor shall--

(a) Obtain all warranties that would be given in normal commercial practice;

(b) Require all warranties to be executed, in writing, for the benefit of the Government, if directed by the Contracting Officer; and

(c) Provide names, addresses, and telephone numbers of all subcontractors, equipment suppliers, or manufacturers with specific designation of their area of responsibilities if they are to be contacted directly on warranty corrections; and

(d) Enforce all warranties for the benefit of the Government, if directed by the Contracting Officer.

(8) In the event the Contractor's warranty under paragraph of this clause has expired, the Government may bring suit at its expense to enforce a subcontractor's, manufacturer's, or supplier's warranty.

(9) Unless a defect is caused by the negligence of the Contractor or subcontractor or supplier at any tier, the Contractor shall not be liable for the repair of any defects of material or design furnished by the Government nor for the repair of any damage that results from any defect in Government-furnished material or design.

(10) This warranty shall not limit the Government's rights under the Inspection and Acceptance clause of this contract with respect to latent defects, gross mistakes, or fraud.

(11) Defects in design or manufacture of equipment specified by the Government on a "brand name and model" basis, shall not be included in this warranty. In this event, the Contractor shall require any subcontractors, manufacturers, or suppliers thereof to execute their warranties, in writing, directly to the Government.

b. Performance Bond

(1) The Contractor's Performance Bond will remain effective throughout the construction warranty period and warranty extensions.

(2) In the event the Contractor or his designated representative(s) fails to commence and diligently pursue any work required under this clause, and in a manner pursuant to the requirements thereof, the Contracting Officer shall have a right to demand that said work be performed under the Performance Bond by making written notice on the surety. If the surety fails or refuses to perform the obligation it assumed under the Performance Bond, the Contracting Officer shall have the work performed by others, and after completion of the work, may make demand for reimbursement of any or all expenses incurred by the Government while performing the work, including, but not limited to administrative expenses.

(3) Following oral or written notification of required warranty repair work, the Contractor will respond as dictated by para. 1.20.e. Written verification will follow oral instructions. Failure of the Contractor to respond will be cause for the Contracting Officer to proceed against the Contractor as outlined in the paragraph 1.20.b.(2) above.

c. Pre-Warranty Conference

Prior to contract completion and at a time designated by the Contracting Officer, the Contractor shall meet with the Contracting Officer to develop a mutual understanding with respect to the requirements of this clause. Communication procedures for Contractor notification of warranty defects, priorities with respect to the type of defect, reasonable time required for Contractor response, and other details deemed necessary by the Contracting Officer for the execution of the construction warranty shall be established/reviewed at this meeting. In connection with these requirements and at the time of the Contractor's quality control completion inspection, the Contractor will furnish the name, telephone number and address of a licensed and bonded company which is authorized to initiate and pursue warranty work action on behalf of the Contractor. This point of contact will be located within the local service area of the warrantied

(d) If the manufacturer's name (MFG), model number and serial number are on the manufacturer's equipment data plate and this data plate is easily found and fully legible, this information need not be duplicated on the equipment warranty tag. The Contractor warranty expires (warranty expiration date) and the final manufacturer's warranty expiration date will be determined as specified by para. 1.20.a.

(2) Execution. The Contractor will complete the required information on each tag and install these tags on the equipment by the time of and as a condition of final acceptance of the equipment.

(3) Payment. The work outlined above is a subsidiary portion of the contract work, and has a value to the Government approximating 5% of the value of the Contractor furnished equipment. The Contractor will assign a value of that amount in the breakdown for progress payments mentioned in the Contract Clause: PAYMENTS UNDER FIXED-PRICE CONSTRUCTION CONTRACTS.

(4) Equipment Warranty Tag Replacement. As stated in para. 1.20.d, the Contractor's warranty with respect to work repaired or replaced shall run for one year from the date of repair or replacement. Such activity shall include an updated warranty identification tag on the repaired or replaced equipment. The tag shall be furnished and installed by the Contractor, and shall be identical to the original tag, except that the Contractor's warranty expiration date will be one year from the date of acceptance of the repair or replacement.

e. Contractor's Response to Warranty Service Requirements. Following oral or written notification by the Contracting Officer or an authorized representative of the installation designated in writing by the Contracting Officer, the Contractor shall respond to warranty service requirements in accordance with the "Warranty Service Priority List" and the three categories of priorities listed below.

First Priority Code 1 Perform on site inspection to evaluate situation, determine course of action, initiate work within 24 hours and work continuously to completion or relief.

Second Priority Code 2 Perform on site inspection to evaluate situation, determine course of action, initiate work within 48 hours and work continuously to completion or relief.

Third Priority Code 3 All other work to be initiated within 5 work days and work continuously to completion or relief.

The "Warranty Service Priority List" is as follows:

Code 1 Air Conditioning System
a. Buildings with computer equipment.

Code 2 Air Conditioning Systems
a. Air conditioning leak in part of building, if causing damage.
b. Admin buildings with ADP equipment not on priority list.

- Code 1 Doors
 a. Overhead doors not operational.
- Code 1 Electrical
 a. Power failure (entire area or any building operational
 after 1600 hours).
 b. Traffic control devices.
 c. Security lights.
- Code 2 Electrical
 a. Power failure (no power to a room or part of building).
 b. Receptacle and lights.
 c. Fire alarm systems.
- Code 1 Gas
 a. Leaks and breaks.
- Code 1 Heat
 a. Area power failure affecting heat.
- Code 2 Intrusion Detection Systems
 Systems other than those listed under Code 1.
- Code 1 Kitchen Equipment
 a. Dishwasher.
 b. All other equipment hampering preparation of a meal.
- Code 2 Kitchen Equipment
 All other equipment not listed under Code 1.
- Code 2 Plumbing
 a. Flush valves.
 b. Fixture drain, supply line commode, or water pipe
 leaking.
 c. Commode leaking at base.
- Code 1 Roof Leaks
 Temporary repairs will be made where major damage to
 property is occurring.
- Code 2 Roof Leaks
 Where major damage to property is not occurring, check
 for location of leak during rain and complete repairs
 on a Code 2 basis.
- Code 2 Water (Exterior)
 No water to facility.
- Code 2 Water, Hot
 No hot water in portion of building listed under
 Code 1 (items a through c).
- Code 1 Sprinkler System
 All sprinkler systems, valves, manholes, deluge
 systems, and air systems to sprinklers.

(1) Should parts be required to complete the work and the parts are not immediately available, the Contractor shall have a maximum of 12 hours after arrival at the job site to provide the Contracting Officer or an authorized representative of the installation designated in writing by the Contracting Officer, with firm written proposals for emergency alternatives and temporary repairs for Government participation with the Contractor to provide emergency relief until the required parts are available on site for the Contractor to perform permanent warranty repair. The Contractor's proposals shall include a firm date and time that the required parts shall be available on site to complete the permanent warranty repair. The Contracting Officer or an authorized representative of the installation designated in writing by the Contracting Officer, will evaluate the proposed alternatives and negotiate the alternative considered to be in the best interest of the Government to reduce the impact of the emergency condition. Alternatives considered by the Contracting Officer or an authorized representative of the installation designated in writing by the Contracting Officer will include the alternative for the Contractor to "Do Nothing" while waiting until the required parts are available to perform permanent warranty repair. Negotiating a proposal which will require Government participation and the expenditure of Government funds shall constitute a separate procurement action by the using service.

1.21 PAYMENT FOR MOBILIZATION AND PREPARATORY WORK (JAN 1997) DFARS 252.236-7003 - NOT USED

1.22 PAYMENT FOR MOBILIZATION AND DEMOBILIZATION (DEC 1991) DFARS 252.236-7004. - NOT USED
24 February 1992 (**Version 2**)

1.23 SALVAGE MATERIALS AND EQUIPMENT. - NOT USED

1.24 IDENTIFICATION OF GOVERNMENT-FURNISHED PROPERTY (APR 1984) FAR 52.245-3. - NOT USED

1.25 AGGREGATE SOURCES - NOT USED

1.26 PROJECT SIGN

Version 1 General. The Contractor shall furnish and erect at the location directed one project sign. The sign shall be lettered on one side only and shall conform to the details shown on the sketch bound with the SPECIAL CLAUSES.

Project nomenclature shall be: Consolidated Fire/Crash Rescue Station

Architect-Engineer name shall be: [_____]

Materials. The sign shall be constructed of good sound materials suitable for the purpose. Lumber shall be salt treated softwood of No. 2 grade or better. Sizes shown are nominal. Plywood shall be 1/2-inch, B-B, marine grade. Screws shall be of commercial quality and of sizes shown.

Painting. The sign and posts shall be given one prime coat and two finish coats of gloss exterior-type enamel paint, Glidden, Reddish Brown, Part No. 4537-5PER. All lettering shall be white.

Logos (Air Force and Corps Castle) will be furnished to the Contractor by Contracting Officer and shall be applied at the location shown.

Erection and Maintenance. The sign shall be erected at the designated location. Sign shall be plumb and backfill of post holes shall be well tamped to properly support the sign in position throughout the life of the contract. The sign shall be maintained in good condition until completion of the contract, shall remain the property of the Contractor, and shall be removed from the site upon completion of work under the contract.

Payment. No separate payment will be made for furnishing and erecting the project sign as specified and costs thereof shall be considered a subsidiary obligation of the Contractor.

1.27 TIME EXTENSIONS FOR UNUSUALLY SEVERE WEATHER. ER 415-1-15
(31 OCT 89)

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

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.

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.

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
14	10	6	5	5	4	4	4	4	4	5	8

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 listed 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 entitled "Default (Fixed Price Construction)".

1.28 WAGE RATES

***AMENDMENT #0001**The decision of the Secretary of Labor, covering rates of wages, including fringe benefits to be paid laborers and mechanics performing work under this contract, is attached hereto. The payment for all classes of laborers and mechanics actually employed to perform work under the contract will be specified in the following contract clauses: DAVIS-BACON ACT, CONTRACT WORK HOURS AND SAFETY STANDARDS ACT, and THE COPELAND ACT.

The work to be performed is located in the State of Ohio.

Wage decisions included are: OH030029 and OH030002 .

The building decision applies to construction of the fire/crash rescue building. The Heavy/Highway decision applies to any work located outside the exterior wall of the building(s).

The work to be performed is located in the State of Ohio.

***AMENDMENT #0001**

1.29 PURCHASE ORDERS - NOT USED

1.30 INTERFERENCE WITH TRAFFIC AND PUBLIC AND PRIVATE PROPERTY.

a. The Contractor at all times shall dispose his plant and conduct the work in such manner as to cause as little interference as possible with private and public travel. Damage (other than that resulting from normal wear and tear) to roads, shall be repaired to as good a condition as they were prior to the beginning of work and to the satisfaction of the Contracting Officer.

b. The Contractor shall provide and maintain as may be required by the State of Ohio, Department of Transportation, proper barricades, fences, danger signals and lights, provide a sufficient number of watchmen, and take such other precautions as may be necessary to protect life, property and structures, and shall be liable for and hold the Government free and harmless from all damages occasioned in any way by his act or neglect, or that of his agents, employees, or workmen.

1.31 SEQUENCE OF WORK.

Refer to Section 01020 GENERAL DESIGN REQUIREMENTS for construction phasing information

1.32 GOVERNMENT FIELD OFFICE FACILITIES AND SERVICES - NOT USED.

1.33 COMPLIANCE WITH POST/BASE REGULATIONS.

a. The site of the work is on a military reservation and all rules and regulations issued by the Commanding Officer covering general safety, security, sanitary requirements, pollution control and traffic regulations, shall be observed by the Contractor. Information regarding these requirements may be obtained by contacting the Contracting Officer, who will provide such information or assist in obtaining same from appropriate authorities.

b. Contractor personnel shall park only in areas authorized by the Contracting Officer.

c. The Contractor shall provide a Seven Day **Notice of Soil Treatment** to the Contracting Officer, in writing, before required soil treatment agents are applied, to assure that DOD Certified Pest Control Personnel are present during soil treatment applications. All soil treatment applications must be in the presence of DOD Certified Pest Control personnel.

1.34 EQUIPMENT AND OWNERSHIP AND OPERATING EXPENSE SCHEDULE (MAR 1995)
EFAR 52.231-5000.

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

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

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

d. When actual equipment costs are proposed and the total amount of the pricing action exceeds the small purchase threshold, the Contracting Officer shall request the Contractor to submit either certified cost or

pricing data, or partial/limited data, as appropriate. The data shall be submitted on Standard Form 1411, Contract Pricing Cover Sheet.

e. Whenever a modification or equitable adjustment of contract price is required, the contractor's cost proposals for equipment ownership and operating expenses shall be determined in accordance with the requirements of SPECIAL CONTRACT REQUIREMENT: EQUIPMENT OWNERSHIP AND OPERATING EXPENSE SCHEDULE. A copy of EP 1110-1-8, "Construction Equipment Ownership and Operating Expense Schedule" is available for review at the office of the District Engineer, Room 821, 600 Dr. Martin Luther King, Jr. Place, Louisville, Kentucky, or a copy may be ordered from the Government Printing Office at a cost of \$11.00 by calling telephone no. (301) 953-7974.

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8	008-022-00261-8
9	008-022-00262-6
10	008-022-00263-4
11	008-022-00264-2
12	008-022-00265-1

1.35 LABOR, EQUIPMENT, AND MATERIAL REPORTS

Daily Equipment Report. The Contractor shall submit a daily report of all Contractor-owned or rented equipment at the jobsite. A similar report is required for all subcontractor equipment. The subcontractor's report may be separate or included with the Contractor's report provided the equipment is adequately identified as to ownership. The required equipment report shall include each item of equipment (hand-operated small tools or equipment excluded) on the job and shall specifically identify each item as to whether it is Contractor-owned or rented, shifts, hours of usage, down time for repairs, and standby time. Identification of the equipment shall include make, model and plant number of all items. Separate identification by a key sheet providing these data may be utilized with the daily report indicating the type of equipment and the equipment plant numbers. The format of the Daily Equipment Report will be as approved by the Government in the field.

Labor, Equipment & Material Reports for Extra Work/Cost. A Report shall also be submitted by the Contractor listing any labor, equipment and materials expended on and/or impacted by any change order directed by the Government and for which total price/time agreement has not been reached. These requirements also apply to subcontractors at any tier. The same Report is required at any time the Contractor claims or intends to claim for extra costs whether or not there is Government recognition (constructive

changes). This requirement is in addition to any Contractor "Notice" or "Reservation of Rights". Submittal of such a report will not be construed as satisfying the "Notice" required under the "Changes" clause or any other clause. But, absence of such Reports submitted to the Government contemporaneously with the alleged extra work/cost will be considered as evidence that no such extra work/cost occurred that are chargeable to the Government.

The Report shall be detailed to the degree required by the Government in the field and shall contain the following as a minimum:

- a. The cause of the extra labor, equipment or materials costs.
- b. For extra labor - Indicate crew, craft, hours, location and cost. Describe nature or type of extra costs, i.e, extra work, overtime, acceleration, interference, reassignment, mobilizations and demobilizations, supervision, overhead, type of inefficiency, etc.
- c. For extra equipment - Indicate type and description, hours, location, cost; whether working, idle, standby, under repair, extra work involved, etc.
- d. For extra materials - Indicate type and description, where used, whether consumed, installed or multi-use, quantity, cost, extra work involved, etc.
- e. Affected activities - Relate to Contract Schedule (Network Analysis); demonstrate whether delay or suspension is involved.
- f. Segregate all entries by prime and each subcontractor.
- g. Summarize costs daily and by cumulative subtotal or with frequency required by the Government.

This report will not be considered as evidence that any of the alleged extra costs actually occurred. The report will be used to check against over obligation of funds for change orders directed prior to price/time agreement and to track alleged extra costs the Contractor considers otherwise chargeable against the Government. The Government may respond at any interval to either challenge, amend or confirm the report. Absence of a Government response is not to be considered acquiescence or denial. The Government may order work stoppage if deemed necessary to avoid overobligation of funds. The frequency of the report shall be daily or as otherwise approved by the Government representative in writing.

1.36 ILLINOIS RETAILER'S OCCUPATIONAL TAX AND USE TAX - NOT USED.

1.37 INDIANA SALES AND USE TAX - NOT USED.

15 June 1990

1.38 OHIO SALES AND USE TAX

The contract price should not include any amount for the Ohio Sales and Use Tax for building and construction materials to be used in the structure. Contractors are exempt from the payment of the Ohio Sales Tax for building structures or improvements to real property under a construction contract

with the United States. The exemption certificate shall be in such form as prescribed by the Rules of the Ohio Department of Taxation (Tax Commissioner's Rule 5703-9-03) and should be signed by the Contractor, the subcontractor, and the Corps' Contracting Officer. The certificate should then be furnished to the supplier by the vendee within the period within which the supplier is required to file a return for the period in which the sale is consummated, as provided in Ohio Revised Code Section 5739.03. The exemption certificate must specify the reason that the sale is exempt. The Contractor shall be responsible for obtaining the required exemption certificate and submitting it to the Contracting Officer for exemption.

1.39 PROGRESS PHOTOGRAPHS

18 Nov 1999)

Version 1The Contractor shall, during the progress of the work, furnish the Contracting Officer photographs, slides, digital photos (furnished on CD-ROM) and negatives depicting construction progress. The photographic work furnished shall be commercial quality as determined by the Contracting Officer. The photography shall be performed between the first and fifth of each month and the photographs, slides and negatives delivered to the Contracting Officer not later than the 15th of each month taken. A maximum of six views from different positions shall be taken as directed to show, inasmuch as possible, work accomplished during the previous month. At least, one set of photographs, slides and negatives will be made at completion of the contract, after final inspection by the Contracting Officer. The photographs shall be 8"x10" color prints and the slides 35 mm color. Each photograph and slide shall be identified on the face of the picture or the border of the slide giving date made, contract title and number, location of work, as well as a brief description of work depicted. Each negative will be identified with the same information on a sheet of paper by cross-referencing to the number on the negative. Two copies of photographs and slides, along with the original negatives of each view taken, shall be furnished to the Contracting Officer by the time stipulated above. No separate payment will be made for these services and all costs in connection thereto shall be considered a subsidiary obligation of the Contractor.

1.40 PAYMENT FOR MATERIALS DELIVERED OFFSITE. (MAR 1995) EFARS 52.232-5000 - NOT USED.

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

The Contractor shall, at its own expense, provide and maintain during the entire performance of this contract at least the kinds and minimum amounts of insurance required in the Schedule or elsewhere in the contract.

(1) Coverage complying with State laws governing insurance requirements, such as those requirements pertaining to Workman's Compensation and Occupational Disease Insurance. Employer's Liability Insurance shall be furnished in limits of not less than \$100,000.00 except in states with exclusive or monopolistic funds.

(2) Comprehensive General Liability Insurance for bodily injury coverage shall be furnished in limits of not less than \$500,000 per occurrence.

(3) Comprehensive Automobile Liability Insurance for both bodily injury and property damage, shall be furnished in limits of not less than \$200,000.00 per person, \$500,000.00 per accident for bodily injury, and \$20,000.00 per accident for property damage. When the Financial Responsibility or Compulsory Insurance Law of the State, requires higher limits, the policy shall provide for coverage of at least those higher limits.

Before commencing work under this contract, the Contractor shall submit to the Contracting Officer in writing that the required insurance certification has been obtained. The policies evidencing required insurance shall contain an endorsement to the effect that any cancellation or any material change adversely affecting the Government's interest shall not be effective (1) for such period as the laws of the State in which this contract is to be performed prescribe, or (2) until 30 days after the insurer or the Contractor gives written notice to the Contracting Officer, whichever period is longer.

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

1.42 IMPLEMENTATION OF GOVERNMENT RESIDENT MANAGEMENT SYSTEM

RMS shall be maintained in accordance with Section 01312A QUALITY CONTROL SYSTEM (QCS).

1.43 SCAFFOLDING

July 2003

The following requirements supplement EM 385-1-1. In the event of a conflict between these requirements and EM 385-1-1, the more strict requirement shall take precedence.

All scaffold systems shall be erected, inspected and disassembled under the direction of a competent person. The competent person must be present and on site during these operations. The qualifications and training of the competent person and the crew performing the work shall be submitted to the Contracting Officer and accepted prior to commencement of the work. All scaffold systems must be inspected daily and certified as usable prior to use each days use by the competent person. Scaffolds shall also be inspected and certified by the competent person upon completion of any changes to the scaffolding system i.e. adding or removing a level or etc. The competent person must be present and on site during these changes to the scaffold system. The contractor shall develop a system that notifies all parties of the certification status. The use a red/green tag system denoting the serviceability is an acceptable certification system.

A scaffold erection plan shall be submitted for all scaffold systems regardless of type scaffold to be used. This plan shall include erection and dismantling operations and all manufacture's details of the system and shall demonstrate compliance with EM 385-1-1. The plan shall be accepted by the Contracting Officer prior to the erection of the scaffold. This plan

shall be reviewed at the preparatory and initial meetings with all parties involved in the scaffolding operation and use thereof. In the event others crafts will be using the scaffolding system, they shall also be briefed on the proper use of the system.

Every level of conventional and masonry type scaffolding systems shall be fully planked and include handrails and toe boards. The contractor is advised that he must analyze the added weight of this requirement on the capacity of the scaffold system and adjust his operations accordingly. All personnel erecting and dismantling scaffolds must be protected by a personal fall protection system.

Access to any type scaffold system above 6 (six) feet shall be by stair tower.

1.43 USE OF INCLINOMETER FOR LONG BED DUMP TRUCKS (DACF BULLETIN 25 MARCH 1993) - NOT USED.

4 June 1993

1.44 AVAILABILITY OF SAFETY AND HEALTH REQUIREMENTS MANUAL (EM 385-1-1).

As covered by CONTRACT CLAUSE "ACCIDENT PREVENTION", compliance with EM 385-1-1 is a requirement for this contract. Copies may be purchased for \$31.00 each at the following address:

United States Government Bookstore
Room 118, Federal Building
1000 Liberty Avenue
Pittsburgh, PA 15222-4003
Telephone: (412) 395-5021 FAX: (412) 395-4547

Or downloaded from the following website:

<http://www.usace.army.mil/inet/usace-docs/eng-manuals/em385-1-1/toc.htm>

1.45 FIRE PROTECTION DURING CONSTRUCTION (UFC-3-600-1, PARA 1.7)

The Contractor is alerted to the requirements of Contract Clause "CLEANING UP" and more specifically to the requirements for fire protection during construction spelled out in EM 385-1-1 and NFPA No. 241 Building Construction and Demolition Operations. This item must be covered in the submittal required under Contract Clause "ACCIDENT PREVENTION".

1.46 HAUL ROADS - NOT USED.

1.47 RADIOACTIVE MATERIAL/EQUIPMENT - NOT USED.

13 March 1996

1.48 CONSTRUCTION/SITE MANAGEMENT STANDARDS FOR CONSTRUCTION ON AMC INSTALLATIONS - NOT USED.

17 August 1998

1.49 CONSTRUCTION HAZARD COMMUNICATION

The Contractor is required to comply with the requirements of the OSHA Hazard Communication Standard (29 CFR 1926.59). This standard is designed

to inform workers of safe and appropriate methods of working with hazardous substances in the workplace. The standard has five requirements, and every hazardous or potentially hazardous substance used or stored in the work area is subject to all five. They are:

(1) Hazard Evaluation. Any company which produces or imports a chemical or compound must conduct a hazard evaluation of the substance to determine its potential health or physical hazard. The hazard evaluation consists of an investigation of all the available scientific evidence about the substance. The Contractor is required to assure that all producers (manufacturer/distributors) have performed these evaluations and transmit the required information with any hazardous materials being used or stored on the project site. From the hazard evaluation, a substance may be classified as a health hazard, or a physical hazard. These classifications are then further broken down according to type:

Health Hazards	Physical Hazards
Carcinogens	Combustible liquids
Irritants	Compressed gases
Sensitizers	Explosives
Corrosives	Flammables
Toxic substances	Organic peroxides
Highly toxic substances	Unstable substances
Substances harmful to specific organs or parts of the body	Water-reactive substances

(2) Warning Labels. If a chemical is hazardous or potentially hazardous, the producer or importer must affix a warning label to every container of that chemical before it leaves his facility. The Contractor must assure these labels are attached and legible. The label must identify the chemical, state the hazard, and give the name and address of the producer or importer. If the hazardous substance is transferred to another container, that container must then be labeled, tagged, or marked with the name of the chemical and the appropriate hazard warning. Warning labels should be replaced immediately if they are defaced or removed.

(3) Material Safety Data Sheets. The producer or importer must also supply a material safety data sheet (MSDS). The Contractor must keep these available in the work area where the substance is used, so that the people using the substance can easily review important safety and health information, such as:

The hazard possible from misuse of the substance
Precautions necessary for use, handling, and storage
Emergency procedures for leaks, spills, fire and first aid
Useful facts about the substance's physical or chemical properties

(4) Work Area Specific Training. Because of hazardous substance may react differently depending on how it is used or the environment of the work area, the Contractor must conduct work area specific training; special training which takes the Contractor's operations, environment, and work policies into consideration. Work area training presents:

The hazardous substances which are present in the work place and the hazards they pose

Ways to protect against those hazards, such as protective equipment, emergency procedures, and safe handling

Where the MSDS's are kept, and an explanation of the labeling system
Where the Contractor's written Hazard Communication Program is located

(5) The Written Hazard Communication Program. In accordance with OSHA requirements, the Contractor must prepare a written Hazard Communication Program. This document will be included in the Contractor's Accident Prevention Plan. This document states how the Contractor plans to ensure that hazardous materials are appropriately labeled, how and where MSDS's will be maintained, and how employees will be provided with specific information and training.

1.50 ENVIRONMENTAL PROTECTION CLAUSE TANK CLEANING AND PAINTING (DLA NOV 1989) - NOT USED
15 June 1990

1.51 MECHANICAL ROOM LAYOUT (ORL).

Detailed mechanical room layout drawings shall be submitted for approval in accordance with SD-02 Section 01331. Layout drawings shall show location and maintenance clearances for all mechanical room equipment, and all utility runs/chases for mechanical, electrical, telephone and other similar systems. Drawings shall be submitted at the same time as the submittals for the equipment to be located within the mechanical room.

1.52 RIGHTS IN TECHNICAL DATA--NONCOMMERCIAL ITEMS (NOV 1995)
252.227-7013 (JUN 1995).

(a) Definitions. As used in this clause:

(1) "Computer data base" means a collection of data recorded in a form capable of being processed by a computer. The term does not include computer software.

(2) "Computer program" means a set of instructions, rules, or routines recorded in a form that is capable of causing a computer to perform a specific operation or series of operations.

(3) "Computer software" means computer programs, source code, source code listings, object code listings, design details, algorithms, processes, flow charts, formulae and related material that would enable the software to be reproduced, recreated, or recompiled. Computer software does not include computer data bases or computer software documentation.

(4) "Computer software documentation" means owner's manuals, user's manuals, installation instructions, operating instructions, and other similar items, regardless of storage medium, that explain the capabilities of the computer software or provide instructions for using the software.

(5) "Detailed manufacturing or process data" means technical data that describe the steps, sequences, and conditions of manufacturing,

processing or assembly used by the manufacturer to produce an item or component or to perform a process.

(6) "Developed" means that an item, component, or process exists and is workable. Thus, the item or component must have been constructed or the process practiced. Workability is generally established when the item, component, or process has been analyzed or tested sufficiently to demonstrate to reasonable people skilled in the applicable art that there is a high probability that it will operate as intended. Whether, how much, and what type of analysis or testing is required to establish workability depends on the nature of the item, component, or process, and the state of the art. To be considered "developed," the item, component, or process need not be at the stage where it could be offered for sale or sold on the commercial market, nor must the item, component, or process be actually reduced to practice within the meaning of Title 35 of the United States Code.

(7) "Developed exclusively at private expense" means development was accomplished entirely with costs charged to indirect cost pools, costs not allocated to a government contract, or any combination thereof.

(i) Private expense determinations should be made at the lowest practicable level.

(ii) Under fixed-priced contracts, when total costs are greater than the firm-fixed-price or ceiling price of the contract, the additional development costs necessary to complete development shall not be considered when determining whether development was at government, private, or mixed expense.

(8) "Developed exclusively with government funds" means development was not accomplished exclusively or partially at private expense.

(9) "Developed with mixed funding" means development was accomplished partially with costs charged to indirect cost pools and/or costs not allocated to a government contract, and partially with costs charged directly to a government contract.

(10) "Form, fit, and function data" means technical data that describes the required overall physical, functional, and performance characteristics (along with the qualification requirements, if applicable) of an item, component, or process to the extent necessary to permit identification of physically and functionally interchangeable items.

(11) "Government purpose" means any activity in which the United States Government is a party, including cooperative agreements with international or multi-national defense organizations, or sales or transfers by the United States Government to foreign governments or international organizations. Government purposes include competitive procurement, but do not include the rights to use, modify, reproduce, release, perform, display, or disclose technical data for commercial purposes or authorize others to do so.

(12) "Government purpose rights" means the right to--

(i) Use, modify, reproduce, release, perform, display, or disclose technical data within the Government without restrictions; and

(ii) Release or disclose technical data outside the Government and authorize persons to whom release or disclosure has been made to use, modify, reproduce, release, perform, display, or disclose that data for United States government purposes.

(13) "Limited rights" means the rights to use, modify, reproduce, release, perform, display, or disclose technical data, in whole or in part, within the Government. The Government may not, without the written permission of the party asserting limited rights, release or disclose the technical data outside the Government, use the technical data for manufacture, or authorize the technical data to be used by another part, except that the Government may reproduce, release or disclose such data or authorize the use or reproduction of the data by persons outside the Government if reproduction, release, disclosure, or use is--

(i) Necessary for emergency repair and overhaul; or

(ii) A release or disclosure of technical data (other than detailed manufacturing or process data) to, or use of such data by, a foreign government that is in the interest of the Government and is required for evaluational or informational purposes;

(iii) Subject to a prohibition on the further reproduction, release, disclosure, or use of the technical data; and

(iv) The contractor or subcontractor asserting the restriction is notified of such reproduction, release, disclosure, or use.

(14) "Technical data" means recorded information, regardless of the form or method of the recording, of a scientific or technical nature (including computer software documentation). The term does not include computer software or data incidental to contract administration, such a financial and/or management information.

(15) "Unlimited rights" means rights to use, modify, reproduce, perform, display, release, or disclose technical data in whole or in part, in any manner, and for any purpose whatsoever, and to have or authorize others to do so.

(b) Rights in technical data.

The Contractor grants or shall obtain for the Government the following royalty free, world-wide, nonexclusive, irrevocable license rights in technical data other than computer software documentation (see Rights in Noncommercial Computer Software and Noncommercial Computer Software Documentation clause of this contract for rights in computer software documentations):

(1) Unlimited rights.

The Government shall have unlimited rights in technical data that are-

(i) Data pertaining to an item, component, or process which has been or will be developed exclusively with Government funds;

(ii) Studies, analyses, test data, or similar data produced for this contract, when the study, analysis, test, or similar work was specified as an element of performance;

(iii) Created exclusively with Government funds in the performance of a contract that does not require the development, manufacture, construction, or production of items, components, or processes;

(iv) Form, fit, and function data;

(v) Necessary for installation, operation, maintenance, or training purposes (other than detailed manufacturing or process data);

(vi) Corrections or changes to technical data furnished to the Contractor by the Government;

(vii) Otherwise publicly available or have been released or disclosed by the Contractor or subcontractor without restrictions on further use, release or disclosure, other than a release or disclosure resulting from the sale, transfer, or other assignment of interest in the technical data to another party or the sale or transfer of some or all of a business entity or its assets to another party;

(viii) Data in which the Government has obtained unlimited rights under another Government contract or as a result of negotiations; or

(ix) Data furnished to the Government, under this or any other Government contract or subcontract thereunder, with--

(A) Government purpose license rights or limited rights and the restrictive condition(s) has/have expired; or

(B) Government purpose rights and the Contractor's exclusive right to use such data for commercial purposes has expired.

(2) Government purpose rights.

(i) The Government shall have government purpose rights for a five-year period, or such other period as may be negotiated, in technical data--

(A) That pertain to items, components, or processes developed with mixed funding except when the Government is entitled to unlimited rights in such data as provided in paragraphs (b)(ii) and (b)(iv) through (b)(ix) of this clause; or

(B) Created with mixed funding in the performance of a contract that does not require the development, manufacture, construction, or production of items, components, or processes.

(ii) The five-year period, or such other period as may have been negotiated, shall commence upon execution of the contract, subcontract, letter contract (or similar contractual instrument), contract modification, or option exercise that required development of the items, components, or

processes or creation of the data described in paragraph (b)(2)(i)(B) of this clause. Upon expiration of the five-year or other negotiated period, the Government shall have unlimited rights in the technical data.

(iii) The Government shall not release or disclose technical data in which it has government purpose rights unless--

(A) Prior to release or disclosure, the intended recipient is subject to the non-disclosure agreement at 227.7103-7 of the Defense Federal Acquisition Regulation Supplement (DFARS); or

(B) The recipient is a Government contractor receiving access to the data for performance of a Government contract that contains the clause at DFARS 252.227-7025, Limitations on the Use or Disclosure of Government-Furnished Information Market with Restrictive Legends.

(iv) The Contractor has the exclusive right, including the right to license others, to use technical data in which the Government has obtained government purpose rights under this contract for any commercial purpose during the time period specified in the government purpose rights legend prescribed in paragraph (f)(2) of this clause.

(3) Limited rights.

(i) Except as provided in paragraphs (b)(1)(ii) and (b)(1)(iv) through (b)(1)(ix) of this clause, the Government shall have limited rights in technical data--

(A) Pertaining to items, components, or processes developed exclusively at private expense and marked with the limited rights legend prescribed in paragraph (f) of this clause; or

(B) Created exclusively at private expense in the performance of a contract that does not require the development, manufacture, construction, or production of items, components, or processes.

(ii) The Government shall require a recipient of limited rights data for emergency repair or overhaul to destroy the data and all copies in its possession promptly following completion of the emergency repair/overhaul and to notify the Contractor that the data have been destroyed.

(iii) The Contractor, its subcontractors, and suppliers are not required to provide the Government additional rights to use, modify, reproduce, release, perform, display, or disclose technical furnished to the Government with limited rights. However, if the Government desires to obtain additional rights in technical data in which it has limited rights, the Contractor agrees to promptly enter into negotiations with the Contracting Officer to determine whether there are acceptable terms for transferring such rights. All technical data in which the Contractor has granted the Government additional rights shall be listed or described in a license agreement made part of the contract. the license shall enumerate the additional rights granted the Government in such data.

(4) Specifically negotiated license rights.

The standard license rights granted to the Government under paragraphs (b)(1) through (b)(3) of this clause, including the period during which the

Government shall have government purpose rights in technical data, may be modified by mutual agreement to provide such rights as the parties consider appropriate but shall not provide the Government lesser rights than are enumerated in paragraph (a)(13) of this clause. Any rights so negotiated shall be identified in a license agreement made part of this contract.

(5) Prior government rights.

Technical data that will be delivered, furnished, or otherwise provided to the Government under this contract, in which the Government has previously obtained rights shall be delivered, furnished, or provided with the pre-existing rights, unless--

(i) The parties have agreed otherwise; or

(ii) Any restrictions on the Government's rights to use, modify, reproduce, release, perform, display, or disclose the data have expired or no longer apply.

(6) Release from liability.

The Contractor agrees to release the Government from liability for any release or disclosure of technical data made in accordance with paragraph (a)(13) or (b)(2)(iii) of this clause, in accordance with the terms of a license negotiated under paragraph (b)(4) of this clause, or by others to whom the recipient has released or disclosed the data and to seek relief solely from the party who has improperly used, modified, reproduced, released, performed, displayed, or disclosed Contractor data marked with restrictive legends.

(c) Contractor rights in technical data.

All rights not granted to the Government are retained by the Contractor.

(d) Third party copyrighted data.

The Contractor shall not, without the written approval of the Contracting Officer, incorporate any copyrighted data in the technical data to be delivered under this contract unless the Contractor is the copyright owner or has obtained for the Government the license rights necessary to perfect a license or licenses in the deliverable data of the appropriate scope set forth in paragraph (b) of this clause, and has affixed a statement of the license or licenses obtained on behalf of the Government and other persons to the data transmittal document.

(e) Identification and delivery of data to be furnished with restrictions on use, release, or disclosure.

(1) This paragraph does not apply to restrictions based solely on copyright.

(2) Except as provided in paragraph (e)(3) of the clause, technical data that the Contractor assets should be furnished to the Government with restrictions on use, release, or disclosure are identified in an attachment to this contract (see Attachment). The Contractor shall

not deliver any data with restrictive markings unless the data are listed on the Attachment.

(3) In addition to the assertions made in the Attachment, other assertions may be identified after award when based on new information or inadvertent omissions unless the inadvertent omissions would have materially affected the source selection decision. Such identification and assertion shall be submitted to the Contracting Officer as soon as practicable prior to the scheduled date for delivery of the data, in the following format, and signed by an official authorized to contractually obligate the Contractor:

Identification and Assertion of Restrictions on the Government's Use, Release, or Disclosure of Technical Data.

The Contractor asserts for itself, or the persons identified below, that the Government's rights to use, release, or disclose the following technical data should be restricted--

Technical Data to be Furnished With Restrictions*	Asserted Basis for Assertion**	Name of Person Rights Category***	Asserting Restrictions****
(LIST)	(LIST)	(LIST)	(LIST)

*If the assertion is applicable to items, components, or processes developed at private expense, identify both the data and each such item, component, or process.

**Generally, the development of an item, component, or process at private expense, either exclusively or partially, is the only basis for asserting restrictions on the Government's rights to use, release, or disclose technical data pertaining to such terms, components, or processes. Indicate whether development was exclusively or partially at private expense. If development was not at private expense, enter the specific reason for asserting that the Government's right should be restricted.

***Enter asserted rights category (e.g. government purpose license rights from a prior contract, rights in SBIR data generated under another contract, limited or government purpose rights under this or a prior contract, or specifically negotiated licenses).

****Corporation, individual, or other person, as appropriate.

Date _____

Printed Name and Title _____

Signature _____

(End of identification and assertion)

(4) When requested by the Contracting Officer, the Contractor shall provide sufficient information to enable the Contracting Officer to evaluate the Contractor's assertions. The Contracting Officer reserves the

right to add the Contractor's assertions to the Attachment and validate any listed assertion, at a later date, in accordance with the procedures of the Validation of Restrictive Markings on Technical Data clause of this contract.

(f) Marking requirements.

The Contractor, and its subcontractor or suppliers, may only assert restrictions on the Government's rights to use, modify, reproduce, release, perform, display, or disclose technical data to be delivered under this contract by marking the deliverable data subject to restriction. Except as provided in paragraph (f)(5) of this clause, only the following legends are authorized under this contract: the government purpose rights legend at paragraph (f)(2) of this clause: the limited rights legend at paragraph (f)(3) of this clause: or the special license rights legend at paragraph (f)(4) of this clause, and/or a notice of copyright as prescribed under 17 U.S.C. 401 or 402.

(1) General marking instructions.

The Contractor, or its subcontractors or suppliers, shall conspicuously and legibly mark the appropriate legend on all technical data that qualify for such markings. The authorized legends shall be placed on the transmittal document or storage container and, for printed material, each page of the printed material containing technical data for which restrictions are asserted. When only portions of a page of printed material are subject to the asserted restrictions, such portions shall be identified by circling, underscoring, with a note, or other appropriate identifier. Technical data transmitted directly from one computer or computer terminal to another shall contain a notice of asserted restrictions. Reproductions of technical data or any portions thereof subject to asserted restrictions shall also reproduce the asserted restrictions.

(2) Government purpose rights markings.

Data delivered or otherwise furnished to the Government with government purpose rights shall be marked as follows:

GOVERNMENT PURPOSE RIGHTS

Contract No. _____

Contractor Name _____

Contractor Address _____

Expiration Date _____

The Government's rights to use, modify, reproduce, release, perform, display, or disclose these technical data are restricted by paragraph (b)(2) of the Rights in Technical Data--Noncommercial Items clause contained in the above identified contract. No restrictions apply after the expiration date shown above. Any reproduction of technical data or portions thereof marked with this legend must also reproduce the markings.

(End of legend)

(3) Limited rights markings.

Data delivered or otherwise furnished to the Government with limited rights shall be marked with the following legend:

LIMITED RIGHTS

Contract No. _____

Contractor Name _____

Contractor Address _____

The Government's rights to use, modify, reproduce, release, perform, display, or disclose these technical data are restricted by paragraph (b)(3) of the Rights in Technical Data--Noncommercial Items clause contained in the above identified contract. Any reproduction of technical data or portions thereof marked with this legend must also reproduce the markings. Any person, other than the Government, who has been provided access to such data must promptly notify the above name Contractor.

(End of legend)

(4) Special license rights markings.

(I) Data in which the Government's rights stem from a specifically negotiated license shall be marked with the following legend:

SPECIAL LICENSE RIGHTS

The Government's rights to use, modify, reproduce, release, perform, display, or disclose these data are restricted by Contract No. _____)Insert contract number) _____, License No. _____ (Insert license identifier) _____. Any reproduction of technical data or portions thereof marked with this legend must also reproduce the markings.

(End of legend)

(ii) For purposes of this clause, special licenses do not include government purpose license rights acquired under a prior contract (see paragraph (b)(5) of this clause)_.

(5) Pre-existing data markings.

If the terms of a prior contract or license permitted the Contractor to restrict the Government's rights to use, modify, reproduce, release perform, display, or disclose technical data deliverable under this contract, and those restrictions are still applicable, the Contractor may mark such data with the appropriate restrictive legend for which the data

qualified under the prior contract or license. The marking procedures in paragraph (f)(1) of this clause shall be followed.

(g) Contractor procedures and records.

Throughout performance of this contract, the Contractor and its subcontractors or suppliers that will deliver technical data with other than unlimited rights, shall--

(1) Have, maintain, and follow written procedures sufficient to assure that restrictive markings are used only when authorized by the terms of this clause, and

(2) Maintain records sufficient to justify the validity of any restrictive markings on technical data delivered under this contract.

(h) Removal of unjustified and nonconforming markings.

(1) Unjustified technical data markings.

The rights and obligations of the parties regarding the validation of restrictive markings or technical data furnished or to be furnished under this contract are contained in the Validation of Restrictive Markings on Technical Data clause of this contract. Notwithstanding any provision of this contract concerning inspection and acceptance, the Government may ignore or, at the Contractor's expense, correct or strike a marking if, in accordance with the procedures in the Validation of Restrictive Markings on Technical Data clause of this contract, a restrictive marking is determined to be unjustified.

(2) Nonconforming technical data markings.

A nonconforming marking is a marking placed on technical data delivered or otherwise furnished to the Government under this contract that is not in the format authorized by this contract. Correction of nonconforming markings is not subject to the Validation of Restrictive Markings on Technical Data clause of this contract. If the Contracting Officer notifies the Contractor of a nonconforming marking and the Contractor fails to remove or correct such marking within sixty (60) days, the Government may ignore or, at the Contractor's expense, remove or correct any nonconforming marking.

(I) Relation to patents.

Nothing contained in this clause shall imply a license to the Government under any patent or be construed as affecting the scope of any license or other with otherwise granted to the Government under any patent.

(j) Limitation on charges for rights in technical data.

(1) The Contractor shall not charge to this contract any cost, including, but not limited to, license fees, royalties, or similar charges, for rights in technical data to be delivered under this contract when--

(I) The Government has acquired, by any means, the same or greater rights in the data; or

(ii) The data are available to the public without restrictions.

(2) The limitation in paragraph (j)(1) of this clause--

(I) Includes costs charged by a subcontractor or supplier, at any tier, or costs incurred by the Contractor to acquire rights in subcontractor or supplier technical data, if the subcontractor or supplier has been paid for such rights under any other Government contract or under a license conveying the rights to the Government; and

(ii) Does not include the reasonable costs of reproducing, handling, or mailing the documents or other media in which the technical data will be delivered.

(k) Applicability to subcontractors or suppliers.

(1) The Contractor shall ensure that the rights afforded its subcontractors and suppliers under 10 U.S.C. 2320, 10 U.S.C. 2321, and the identification, assertion, and delivery processes of paragraph (e) of this clause are recognized and protected.

(2) Whenever any technical data for noncommercial items is to be obtained from a subcontractor or supplier for delivery to the Government under this contract, the Contractor shall use this same clause in the subcontract or other contractual instrument, and require its subcontractors or suppliers to do so, without alteration, except to identify the parties. No other clause shall be used to enlarge or diminish the Government's, the Contractor's, or a higher-tier subcontractor's or supplier's rights in a subcontractor's or supplier's technical data.

(3) Technical data required to be delivered by a subcontractor or supplier shall normally be delivered to the next higher-tier contractor, subcontractor, or supplier. However, when there is a requirement in the prime contract for data which may be submitted with other than unlimited rights by a subcontractor or supplier, then said subcontractor or supplier may fulfill its requirement by submitting such data directly to the Government, rather than through a higher-tier contractor, subcontractor, or supplier.

(4) The Contractor and higher-tier subcontractors or suppliers shall not use their power to award contracts as economic leverage to obtain rights in technical data from their subcontractors or suppliers.

(5) In no event shall the Contractor use its obligation to recognize and protect subcontractor or supplier rights in technical data as an excuse for failing to satisfy its contractual obligation to the Government.

1.53 LIMITATIONS ON THE USE OR DISCLOSURE OF GOVERNMENT-FURNISHED INFORMATION MARKED WITH RESTRICTIVE LEGEND DFARS 252.227-7025 (JUN 1995)

(a)(1) For contracts requiring the delivery of technical data, the terms, "limited rights" and "Government purpose rights" are defined in the Rights in Technical Data--Noncommercial Items clause of this contract.

(2) For contracts that do not require the delivery of technical data, the terms "government purpose rights" and "restricted rights" are defined in

the Rights in Noncommercial Computer Software and Noncommercial Computer Software Documentation clause of this contract.

(3) For Small Business Innovative Research program contracts, the terms "limited rights" and "restricted rights" are defined in the Rights in Noncommercial Technical Data and Computer Software--Small Business Innovative Research (SBIR) Program clause of this contract.

(b) Technical data or computer software provided to the Contractor as Government furnished information (GFI) under this contract may be subject to restrictions on use, modification, reproduction, release, performance, display, or further disclosure.

(1) GFI marked with limited or restricted rights legends.

The Contractor shall use, modify, reproduce, perform, or display technical data received from the Government with limited rights legends or computer software received with restricted rights legends only in the performance of this contract. The Contractor shall not, without the express written permission of the party whose name appears in the legend, release or disclose such data or software to any person.

(2) GFI marked with government purpose rights legends.

The Contractor shall use technical data or computer software received from the Government with government purpose rights legends for government purposes only. The Contractor shall not, without the express written permission of the party whose name appears in the restrictive legend, use, modify, reproduce, release, perform, or display such data or software for any commercial purpose or disclose such data or software to a person other than its subcontractors, suppliers, or prospective subcontractors or suppliers, who require the data or software to submit offers for, or perform, contracts under this contract. Prior to disclosing the data or software, the Contractor shall require the persons to whom disclosure will be made to complete and sign the non-disclosure agreement at 227.7103-7 of the Defense Federal Acquisition Regulation Supplement (DFARS).

(3) GFI marked with specially negotiated license rights legends.

The Contractor shall use, modify, reproduce, release, perform, or display technical data or computer software received from the Government with specially negotiated license legends only as permitted in the license. Such data or software may not be release or disclosed to other persons unless permitted by the license and, prior to release or disclosure, the intended recipient has completed the non-disclosure agreement at DFARS 227.7103-7. The Contractor shall modify paragraph (1)(c) of the non-disclosure agreement to reflect the recipient's obligations regarding use, modification, reproduction, release, performance, display, and disclosure of the data of software.

(c) Indemnification and creation of third party beneficiary rights.

The Contractor agrees--

(1) To indemnify and hold harmless the Government, its agents, and employees from every claim or liability, including attorneys fees, court costs, and expenses, arising out of, or in any way related to, the misuse or unauthorized modification, reproduction, release, performance, display, or

disclosure of technical data or computer software received from the Government with restrictive legends by the Contractor or any person to whom the Contractor has released or disclosed such data or software; and

(2) That the party whose name appears on the restrictive legend, in addition to any other rights it may have, is a third party beneficiary who has the right of direct action against the Contractor, or any person to whom the Contractor has released or disclosed such data or software, for the unauthorized duplication, release, or disclosure of technical data or computer software subject to restrictive legends.

1.54 DIGGING/EXCAVATION PERMITS - NOT USED

1.55 VARIATIONS IN ESTIMATED QUANTITIES - SUBDIVIDED ITEMS (MAR 1995) EFARS 52.212-5001 - NOT USED.

1.56 PARTNERING

In order to most effectively accomplish this contract, the Government proposes to form a partnership with the Contractor to develop a cohesive building team. It is anticipated that this partnership would involve the Corps of Engineers, [the Directorate of Environmental and Master Planning,] the Contractor, primary subcontractors and the designers. This partnership would strive to develop a cooperative management team drawing on the strengths of each team member in an effort to achieve a quality project within budget and on schedule. This partnership would be bilateral in membership and participation will be totally voluntary. All costs, excluding labor and travel expenses, shall be shared equally between the Government and the Contractor. The Contractor and Government shall be responsible for their own labor and travel costs.

1.57 ACTIVITY ENVIRONMENTAL ANALYSIS

1 February 1995

Before starting any major phase of the work, an Activity Environmental Analysis shall be developed by the contractor and reviewed with the Government Representative. A major phase of the work is defined as an operation involving a type of work not previously experienced which presents possible sources of adverse environmental effects. This analysis will evaluate potential environmental consequences of the activity and the techniques which will be utilized to accomplish the work in an acceptable manner. This analysis includes: (1) the phase or activity of work; (2) the potential environmental consequences of the activity; (3) precautionary actions to prevent adverse environmental impacts; (4) actions in the event of an environmental incident; and (5) the appropriate reference to Federal, State, or Local standards, regulations, or laws.

1.58 CONSTRUCTION AND DEMOLITION (C&D) WASTE MANAGEMENT PLAN

16 July 1999

a. The Contractor is required to submit for government approval a detailed C&D Waste Management Plan within 30 days after contract award and prior to initiating any site clearance or C&D work.

b. Specific elements to be addressed in the plan are as follows:

Designated individuals on the contractor's staff who are responsible for C&D waste prevention and management.

(1) Actions that will be taken to reduce solid waste generation (including use of more efficient facility design and construction processes, reduced packaging and packing materials, supplier take-back programs, etc.). Description of the specific approaches to be used in recycling/reuse of the various materials generated, including, as appropriate, the specification of areas and equipment to be used for processing, sorting, and temporary storage of C&D wastes.

(2) Characterization of the waste to be generated during the C&D project, to include types and quantities of waste materials. The characterization should address site waste materials, building materials, packaging, packing, wastes generated by construction equipment, wastes generated by site offices, and wastes generated by the workforce on-site.

(3) Landfill and/or incinerator name, tipping fee amounts, projected cost of disposing of all trash and waste materials in the landfill/incinerator, as if there would be no salvage or recycling on the project.

(4) Identification of local and regional reuse programs, including non-profit organizations such as schools, local housing agencies, and public arts programs that accept used materials (e.g., Habitat For Humanity, national materials exchange networks).

(5) A list of specific waste materials that will be salvaged for resale, salvaged and reused, and recycled; the recycling facilities that will be utilized; and copies of their permits and/or registrations.

(6) Identification of materials that cannot be recycled/reused with a written justification. All disposed materials including anticipated hazardous wastes must include names of haulers and disposal sites, and copies of their permits and/or registrations.

(7) Anticipated net cost savings determined by subtracting contractor program management costs and the cost of salvage (deconstruction), separating, and recycling from the following:

(1) revenue from the sale of salvaged products and materials;
(2) revenue from the sale of recycled products and materials;
(3) revenue from the return of materials; and
(4) incineration and/or landfill tipping fees saved due to diversion of materials.

(8) The plan must cover the following materials if the material is applicable to the specific project.

Asphalt	Gypsum
Concrete	Plastic
Soil	Polystyrene
Metal	Porcelain
Wood	Corrugated cardboard
Brick	Carpet

c. Firms and facilities used by the contractor for recycling, reuse, and disposal shall be appropriately permitted for the contractor's intended use, to the extent required by federal, state, and local regulations. The contractor shall maintain records of disposition of the materials, including all copies of manifests, origin, and disposal forms, and bills of lading. All facility, landfill, and hauler permits showing USEPA and state registration numbers shall be maintained and shall be available to the contracting officer when requested.

d. The Contracting Officer shall review the C&D waste management plan in coordination with the environmental office within 7 calendar days of submittal. Where the contracting officer determines that the contractor has diligently explored all feasible methods to reduce C&D waste, the plan shall be approved, or approved with comment. Where it is determined that the contractor has not diligently explored all feasible methods, the contracting officer shall request a resubmittal.

e. All revenues generated by reusing, returning, salvaging, or recycling materials, as well as costs avoided by reduced tipping and incineration fees as compared to conventional disposal shall accrue to the contractor's benefit and be reported to the Contracting Officer. Where an on-site Army C&D landfill is the only available disposal facility, the Contractor will be charged the prevailing commercial rate.

1.60 DAMAGE TO WORK (ORL) - NOT USED

15 June 1990

1.59 CONTINUING CONTRACTS (MAR 1995) EFARS 52.232-5001 - NOT USED.

6 May 2002

1.60 OBSTRUCTION OF NAVIGABLE WATERWAYS (DEC 1991) DFARS 252.236-7002 - NOT USED.

24 February 1992

1.61 SIGNAL LIGHTS - NOT USED

1.62 LAKE OPERATION - NOT USED

1.63 PROPOSED BETTERMENTS - AUG 1997

a. The minimum requirements of the contract are identified in the Request for Proposal. All betterments offered in the proposal become a requirement of the awarded contract.

b. "Betterment" is defined as any component or system which exceeds the minimum requirements stated in the Request for Proposal. This includes all proposed betterments listed in accordance with Submittal Requirements of Section 00100 of the Proposal, and all Government identified betterments.

c. "Government identified betterments" include the betterments identified on the "List of Accepted Project Betterments" prepared by the Proposal Evaluation Board and made a part of the contract by alteration, and all other betterments identified in the accepted Proposal after award.

1.64 SEQUENCE OF DESIGN/CONSTRUCTION - NOT USED

November 2001

1.65 SEQUENCE OF DESIGN/CONSTRUCTION (FAST TRACK)
September 2001 (Version 2)

(a) The Contractor must submit for Government Acceptance a design Quality Control Plan in accordance with Section 01453, Paragraph 1.3 before design may proceed.

(b) After receipt of Notice to Proceed (NTP), the Contractor shall initiate design, comply with all design submission requirements as covered under Division 01 General Requirements, and obtain Government review of each submission. The Contractor may begin construction on portions of the work for which the Government has reviewed the final design submission, all Government required revisions have been completed, revised documents have been resubmitted and are deemed satisfactory by the Government. The ACO or COR will notify the Contractor by letter when the design is cleared for construction. The Government will not grant any time extension for any design resubmittal required when, in the opinion of the ACO or COR, the initial submission failed to meet the minimum quality requirements as set forth in the Contract.

(c) No payment will be made for any in-place construction until all required submittals have been made, reviewed and are satisfactory to the Government.

1.66 KEY PERSONNEL, SUBCONTRACTORS AND OUTSIDE ASSOCIATES OR CONSULTANTS
17 August 1998

In connection with the services covered by this contract, any inhouse personnel, subcontractors, and outside associates or consultants will be limited to individuals or firms that were specifically identified and agreed to during negotiations. The Contractor shall obtain the Contracting Officer's written consent before making any substitution for these designated inhouse personnel, subcontractors, associates, or consultants.

1.67 REQUIREMENTS FOR REGISTRATION OF DESIGNERS (APR 1984) FAR 52.236-25
July 2003

The design of architectural, structural, mechanical, electrical, civil, fire protection geotechnical, interior design, or other engineering features of the work shall be accomplished or reviewed and approved by designers registered/licensed to practice in the particular professional field involved in a State or possession of the United States, in Puerto Rico, or in the District of Columbia. Each final design submittal drawing and certified final drawings ready for construction shall be signed and sealed by the registered professional (Designer of Record) responsible for the design indicated on the particular sealed sheet.

1.68 DESIGN/BUILD CONTRACT - ORDER OF PRECEDENCE

(a) The contract includes the standard contract clauses and schedules current at the time of contract award. It entails (1) the solicitation in its entirety, including all drawings, cuts, and illustrations, and any amendments, and (2) the successful offeror's accepted proposal. The contract constitutes and defines the entire agreement between the Contractor and the Government. No documentation shall be omitted which in any way bears upon the terms of that agreement.

(b) In the event of conflict or inconsistency between any of the provisions of this contract, precedence shall be given in the following order:

(1) Betterments: Any portions of the accepted proposal which both conform to and exceed the provisions of the solicitation.

(2) The provisions of the solicitations. (See also contract Clause: SPECIFICATIONS AND DRAWINGS FOR CONSTRUCTION.)

(3) All other provisions of the accepted proposal.

(4) Any design products including, but not limited to, plans, specifications, engineering studies and analyses, shop drawings, equipment installation drawings, etc. These are "deliverables" under the contract and are not part of the contract itself. Design products must conform with all provisions of the contract, in the order of precedence herein.

1.69 DESIGN CONFERENCES

17 August 1998

a. Pre-Work: As part of the Pre-work conference conducted after contract award, key representatives of the Government and the Contractor will review the design submission and review procedures specified herein, discuss the preliminary design schedule and provisions for phase completion of the D/B documents with construction activities (fast tracking), as appropriate, meet with Corps of Engineers Design Review personnel and key Using Agency points of contact and any other appropriate pre-design discussion items.

b. Design Charette: After award of the contract, the Contractor shall visit the site and conduct extensive interviews, and problem solving discussions with the individual users, base personnel, Corps of Engineers personnel to acquire all necessary site information, review user operations, and discuss user needs. The Contractor shall document all discussions. The design shall be finalized as direct result of these meetings.

c. Design Review Conferences: Review conferences will be held on base for each design for each submittal. The Contractor shall bring the personnel that developed the design submittal to the review conference. The conferences will take place the week after the review is complete.

1.70 RESPONSIBILITY OF THE CONTRACTOR FOR DESIGN (REV. MAY 2002)

(a) The Contractor shall be responsible for the professional quality, technical accuracy, and the coordination of all designs, drawings, specifications, and other non-construction services furnished by the Contractor under this contract. The Contractor shall, without additional compensation, correct or revise any errors or deficiency in its designs, drawings, specifications, and other non-construction services and perform any necessary rework or modifications, including any damage to real or personal property, resulting from the design error or omission.

(b) The standard of care for all design services performed under this agreement shall be the care and skill ordinarily used by members of the architectural or engineering professions practicing under similar conditions at the same time and locality. Notwithstanding the above, in the event that

the contract specifies that portions of the Work be performed in accordance with a performance standard, the design services shall be performed so as to achieve such standards.

(c) Neither the Government's review, approval or acceptance of, nor payment for, the services required under this contract shall be construed to operate as a waiver of any rights under this contract or of any cause of action arising out of the performance of this contract. The Contractor shall be and remain liable to the Government in accordance with applicable law for all damages to the Government caused by the Contractor's negligent performance of any of these services furnished under this contract.

(d) The rights and remedies of the Government provided for under this contract are in addition to any other rights and remedies provided by law.

(e) If the Contractor is comprised of more than one legal entity, each entity shall be jointly and severally liable hereunder.

1.71 WARRANTY OF DESIGN (FIRM-FIXED PRICE DESIGN-BUILD CONTRACT) (MAY 2002)

(a) The Contractor warrants that the design shall be performed in accordance with the Contract requirements. Design and design related construction not conforming to the Contract requirements shall be corrected at no additional cost to the Government. The standard of care for design is defined in paragraph (b) of Special Contract Requirement "RESPONSIBILITY OF THE CONTRACTOR FOR DESIGN".

(b) The period of this warranty shall commence upon final completion and the Government's acceptance of the work, or in the case of the Government's beneficial occupancy of all or part of the work for its convenience, prior to final completion and acceptance, at the time of such occupancy.

(c) This design warranty shall be effective from the above event through the Statute of Limitations and Statute of Repose, as applicable to the state that the project is located in.

(d) The rights and remedies of the Government provided for under this clause are in addition to any other rights and remedies provided in this contract or by law.

1.72 CONSTRUCTOR'S ROLE DURING DESIGN (JUN 1998)

The Contractor's construction management key personnel shall be actively involved during the design process to effectively integrate the design and construction requirements of this contract. In addition to the typical required construction activities, the constructor's involvement includes, but is not limited to actions such as: integrating the design schedule into the Master Schedule to maximize the effectiveness of fast-tracking design and construction (within the limits allowed in the contract), ensuring constructability and economy of the design, integrating the shop drawing and installation drawing process into the design, executing the material and equipment acquisition programs to meet critical schedules, effectively interfacing the construction QC program with the design QC program, and maintaining and providing the design team with accurate, up-to-date redline and as-built documentation. The Contractor shall require and manage the active involvement of key trade subcontractors in the above activities.

1.73 VALUE ENGINEERING AFTER AWARD (JUNE 1999)

(a) In reference to Contract Clause 52.248-3, "Value Engineering - Construction", the Government may refuse to entertain a "Value Engineering Change Proposal" (VECP) for those "performance oriented" aspects of the Solicitation documents which were addressed in the Contractor's accepted contract proposal and which were evaluated in competition with other offerors for award of this contract.

(b) The Government may consider a VECP for those "prescriptive" aspects of the Solicitation documents, not addressed in the Contractor's accepted contract proposal or addressed but evaluated only for minimum conformance with the Solicitation requirements.

(c) For purposes of this clause, the term "performance oriented" refers to those aspects of the design criteria or other contract requirements which allow the Offeror or Contractor certain latitude, choice of and flexibility to propose in its accepted contract offer a choice of design, technical approach, design solution, construction approach or other approach to fulfill the contract requirements. Such requirements generally tend to be expressed in terms of functions to be performed, performance required or essential physical characteristics, without dictating a specific process or specific design solution for achieving the desired result.

(d) In contrast, for purposes of this clause, the term "prescriptive" refers to those aspects of the design criteria or other Solicitation requirements wherein the Government expressed the design solution or other requirements in terms of specific materials, approaches, systems and/or processes to be used. Prescriptive aspects typically allow the Offerors little or no freedom in the choice of design approach, materials, fabrication techniques, methods of installation or other approach to fulfill the contract requirements.

1.74 DEVIATING FROM THE ACCEPTED DESIGN (JUN 2002)

(a) The Contractor must obtain the approval of the Designer of Record and the Government's concurrence for any Contractor proposed revision to the professionally stamped and sealed and Government reviewed and concurred design, before proceeding with the revision.

(b) The Government reserves the right to non-concur with any revision to the design, which may impact furniture, furnishings, equipment selections or operations decisions that were made, based on the reviewed and concurred design.

(c) Any revision to the design, which deviates from the contract requirements (i.e., the RFP and the accepted proposal), will require a modification, pursuant to the Changes clause, in addition to Government concurrence. The Government reserves the right to disapprove such a revision.

(d) Unless the Government initiates a change to the contract requirements, or the Government determines that the Government furnished design criteria are incorrect and must be revised, any Contractor initiated proposed change to the contract requirements, which results in additional cost, shall strictly be at the Contractor's expense.

(e) The Contractor shall track all approved revisions to the reviewed and accepted design and shall incorporate them into the as-built design documentation, in accordance with agreed procedures. The Designer of Record shall document its professional concurrence on the as-builts for any revisions in the stamped and sealed drawings and specifications.

1.75 GOVERNMENT-FURNISHED RFP DRAWINGS, SURVEYS AND SPECIFICATIONS (JUL 2002)

This is to clarify that contract clause 252.236-7001, "Contract Drawings and Specifications", refers to any Government-furnished design or design criteria included in the Request for Proposal (RFP).

1.76 NOT USED

1.77 POLLUTION PREVENTION PLAN - NOT USED
27 August 2001 Version I

1.78 POLLUTION PREVENTION PLAN 27 AUGUST 2001 {VERSION II} - NOT USED

1.79 POLLUTION PREVENTION PLAN 27 AUGUST 2001 {VERSION I} - NOT USED

1.80 POLLUTION PREVENTION PLAN 27 AUGUST 2001 {VERSION II} - NOT USED

PART 2 PRODUCTS NOT USED

PART 3 EXECUTION NOT USED

-- End of Document --

SECTION C-01010**PROJECT SYNOPSIS****PART 1 - GENERAL**

1.1 Provide all labor, equipment, supplies, consultant services and materials to design and construct a 35,725 s.f. Consolidated Fire/Crash Rescue Station (Main Fire Station). The project will include facilities for new standardized Air Force fire station with modifications noted herein. The purpose of the project is to replace the existing Main Fire Station in Area C and the flight line station in Building 206. The new facilities will include an Apparatus Room, Fire Station Supply Storage, Operation Support Space, Administration, Training, a Base Communications Center, Living Areas, Recreation, and Dining Facility. The Apparatus Room shall be designed to accommodate all Wright-Patterson Air Force Base crash and structural fire vehicles in a 7 bay (14 stall) arrangement. Fire Station Supply storage shall be provided for fire fighting agents, hoses, fire extinguishers, self-contained breathing apparatus (SCBA), protective-clothing, laundry and tire storage. The Administration and Training Center will include, educational training, physical fitness areas, and administration areas for offices; chief's bedroom, restrooms and storage. Residential and Living Areas for the 21 fire fighters per shift shall be provided with private bedrooms, personal closets, restrooms/showers, and laundry. Space for television viewing, quiet study, day room, kitchen, kitchen storage, serving, vending, and dining area shall all be provided. The project also includes new driveway(s), parking facilities, fencing, connection to existing utilities, removal of existing concrete aircraft apron, and demolition of existing buildings 11405, 20090, 30201, and 30206 (fire station vehicle single bay addition). There is a requirement for a crash response access road for the flight line to be constructed. The construction of this access road will be phased separately and must be coordinated with airfield operations. See drawings for construction limits. Utility connections and extensions include but are not limited to electrical service, domestic water, fire protection, sanitary & storm sewer, communications systems, cable TV, gas service and steam and condensate piping. Not required in the programming for the Main Fire Station is US Air Force Reserve Command / Air National Guard component as outlined in the Air Force Fire Station Design Guide. The new building and parking lots will be required to meet current Force Protection standoff requirements. The Contractor will be required to prepare original drawings using a CADD System (as defined in Section 01021) and shall supply a record of the as-built drawings on magnetic media in Microstation format to the Government at the completion of the project.

BID OPTIONS - Refer to Section 01020, paragraph 1.1.12 FOR REQUIREMENTS.

1.2 Construction Phasing requirements are outlined in Specification Section 01020 GENERAL DESIGN REQUIREMENTS.

1.3 RFP DOCUMENTS

1.3.1 These RFP documents set forth the parameters for the development of a full and complete design.

1.3.2 These RFP documents are provided as a performance standard. The Contractor is required to independently prepare and submit for approval a complete Design. The Contractor's Design Professionals shall independently confirm and be responsible for the technical accuracy and adequacy of all aspects of the design.

1.3.3 Where conflicts or question arise regarding the application of the requirements outlined in the contract documents, the following order of precedence shall apply:

- RFP specification section 01020
- RFP specification section, 01021
- RFP specification section 01010
- UFGS Guide Specifications
- RFP Drawings
- WPAFB Base Facility Standard
- Air Force Fire Station Design Guide

1.3.4 The RFP documents are intended to define the functional and aesthetic project Design/Build requirements. The contractor is responsible for the design and coordination necessary to provide a complete and useable facility in accordance with the RFP requirements. The RFP documents are not intended to be construction documents. It is expected that the contractor will investigate the RFP requirements and independently further develop the design to sufficiently prepare a proposal. The Contractor shall involve their subcontractors (including their designer) in the preparation of the proposal.

1.4 PROPOSAL REQUIREMENTS

1.4.1 Respondents to this Request for Proposal (RFP) must provide sufficient data and detail in their proposal, as indicated in Section 00115 of this solicitation.

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1.5 UTILITIES

1.5.1 Unless noted otherwise in this solicitation, respondents shall assume that adequate utility capacities for power, communications, gas, **steam**, communications, cable TV, water, sanitary sewer, and storm sewer are available at the site to support the facility. Upgrading the existing utilities (unless noted otherwise) outside the limits of construction is not a part of this project.

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1.6 CODES AND STANDARDS

1.6.1 Comply with the applicable latest state, local and National Codes & Standards, requirements of product manufacturers, authorities having

jurisdiction and requirements of these RFP documents in the preparation of the project final design and construction. The latest edition of the Codes and Standards applicable to this project include, but are not limited to (where there are discrepancies between codes the most stringent requirement shall apply) the following:

- Wright-Patterson Base Facility Standard
- Air Force Fire Station Design Guide (replace references to the UBC with the current IBC)
- UFC 1-200-01 Design: General Requirements
- UFC 3-600-01 Fire Protection
- International Building Code (IBC) 2003
- NFPA 13
- NFPA 72
- NFPA 101, Life Safety Code 2003
- ASHRAE Fundamentals Handbook
- ASHRAE Standard 62 **and 90.1**
- International Plumbing Code
- International Mechanical Code
- National Electrical Code
- Occupational Safety and Health Act (OSHA) - applicable standards and regulations of the latest edition
- Asphalt Institute Standards
- American Concrete Institute (ACI)
- Architectural Woodwork Institute (AWI)
- American National Standards Institute (ANSI)
- American Welding Society (AWS) "Structural Welding Code"
- American Water Works Association (AWWA)
- American Society for Testing and Materials (ASTM)
- NFPA 75
- Americans with Disabilities Act Accessible Guidelines (ADAAG)

Where there are conflicts between the Base Facility Standard and any building code, the building code will govern.

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1.7 SPECIFICATIONS

1.7.1 The RFP is intended to provide minimum standards for quality of materials and construction. The RFP shall be used by the Design/Build Contractor as the basis for development of a comprehensive specification

* Amendment #0001

1.7.2 The UFGS specifications shall be used for this project. The D/B contractor shall select the appropriate master specification sections for editing as is appropriate for the design prepared. The UFGS master specifications ensure a level of quality expected in Military Construction and, in many cases, exceed what is required for a merely functional project. The Government has included these requirements for a number of reasons, including better efficiency, longer life, less maintenance, etc. Guide specification paragraphs describing materials and equipment that are to be used on this project, as well as the associated installation, execution, and general requirement paragraphs, shall be retained verbatim in the final

specifications. Paragraph numbering shall not be altered. Inapplicable paragraphs shall be replaced with the words "Not Used" while retaining the paragraph number. UFGS specifications may be obtained from the Louisville District Corps of Engineers website at <http://www.lrl.usace.army.mil/ed/>. The UFGS master specification shall be modified where applicable to comply with the requirements of the WPAFB Base Facility Standard. * Amendment #0001

1.7.3 The Design/Build Contractor shall provide a final typed copy of United Facilities Guide Specifications (UFGS) for the design. Where applicable, the contractor shall use the Louisville District Corps of Engineers version of the guide specifications (LRL version). The guide specifications shall be edited within the technical guidelines of the specifications only. Substitutions outside these technical guidelines are not acceptable without prior approval of the contracting officer.

1.8 USE OF THE PROJECT SITE

1.8.1 Contractor shall have use of the project site for execution of the work as defined in the requirements of *Construction Considerations and Use of Premises* outlined in Section 01020. Entrance into and interface with the surrounding facilities shall be coordinated in advance with the Contracting Officer. The project site is "secured" within the fenced boundaries of the Base. Access will require advance notice and security passes at all times.

1.9 SAFEKEEPING OF PRODUCTS AND MATERIALS

1.9.1 Contractor shall assume full responsibility for protection and safekeeping of products and materials stored on the site under this Contract.

1.10 AS-BUILT DRAWINGS

1.10.1 Contractor shall provide as-built drawings (electronic file) to the Contracting Officer. Refer to Paragraph 1.9 AS-BUILT DOCUMENTS FOR DESIGN BUILD PROJECTS in Section 00800 and the Base Facility Standard for specific requirements.

1.11 PERMITS

1.12.1 Contractor is required to investigate, submit for any permits necessary for the design and construction of this facility. All permit applications shall be submitted to the Contracting Officer Representative; refer to Section 01020 for environmental permitting requirements (Contractor will pay all permit fees).

1.12 SHOP DRAWING REVIEW AND APPROVAL

1.12.1 Contractor's "Designer of Record" shall be required to review and approve all shop drawings that are required by the design.

1.12.2 Submittals for shop drawings shall be in accordance with Section 01331. Government will review these submittals for compliance with the contract.

PART 2 - DESCRIPTION OF RFP PROCESS**2.1 GENERAL**

2.1.1 This project will be designed and constructed by a single firm or team of firms (the Contractor), that has registered architects and engineers employed by or subcontracted to their organization. The Contractor is responsible for the design and construction whether the Contractor uses architects and engineers from within his organization or subcontracts with an outside Architect/Engineer firms(s) for design services.

2.1.2 An outline description of the Design-Build (DB) process follows:

2.2 PROPOSAL PHASE

2.2.1 The Proposal Phase includes that time from announcement of the project through the selection process and the final award of the contract to the successful Offeror.

2.2.2 To be considered for selection, respondent must submit all required documents as specified in Section 00115.

2.2.3 The Corps of Engineers will evaluate the proposals and will award the contract to a single Offeror based upon criteria, which is outlined in Section 00130 (Proposal Evaluation Criteria).

2.3 DESIGN & CONSTRUCTION PHASE

2.3.1 Refer to specification section 01021 for information regarding the requirements during design and construction.

PART 3 - PROJECT SCHEDULE**3.1 GENERAL**

3.1.1 The Contractor shall complete the entire work ready for use as stated in Section 00800.

3.1.2 As part of the Proposal, Offerors shall submit schedule. See section 00115.

3.1.3 The schedule must allow 21 days after receipt for Government review of each design submittal. If the submittal arrives on Friday or a weekend, the review time starts on the following Monday. Sufficient time should be included in the schedule for mailing, a review meeting at Wright-Patterson AFB, correction of the documents by the contractor and backcheck of the corrections by the Government and the contractor together, at each design submittal.

3.1.4 The contractor must ensure that all elements of his team concur in the design and in responses to comments before being submitted to the Government

for review. Delays because sub-contractors do not agree with the design or comment responses will be the Contractor's responsibility.

3.2 SUMMARY LIST OF MAJOR MILESTONE EVENTS DURING DESIGN & CONSTRUCTION

1. Contract Award/Design Notice to Proceed (NTP).
2. Submit Design Quality Control Plan.
3. Predesign/build Meeting and Voluntary Partnering Workshop.
4. Conduct Design Charette
5. Submit Part 1 Uncorrected Final Design.
6. Receive Government Review Comments.
7. Conduct Review Meeting.
8. Distribute comments, responses and meeting minutes.
9. Make design corrections/revisions to design.
10. Part 1 100% Design Backcheck.
11. Submit Part 1 Certified 100% Design.
12. Part 1 Construction NTP.
13. Submit Part 2 Uncorrected Final Design.
14. Receive Government Review Comments.
15. Conduct Review Meeting.
16. Distribute comments, responses and meeting minutes.
17. Make design corrections/revisions to design.
18. Part 2 100% Design Backcheck.
19. Submit Part 2 Certified 100% Design.
20. Part 2 Construction NTP.
21. Project Substantial Completion

END OF SECTION

SECTION 01020

GENERAL DESIGN REQUIREMENTS

PART 1 - GENERAL

1.1 GENERAL REQUIREMENTS:

1.1.1 The basic requirements for this facility are outlined in the ***Air Force Fire Station Design Guide*** (included as part of this RFP). ***Section 01020 GENERAL DESIGN REQUIREMENTS*** is intended to supplement and modify the requirements of the ***Air Force Fire Station Design Guide*** as appropriate for this specific installation.

1.1.2 Provide all labor, equipment, supplies, consultant services and materials to design and construct a 35,725 s.f. Consolidated Fire/Crash Rescue Station (Main Fire Station). The project will include facilities for new Air Force fire station with modifications noted herein. The purpose of the project is to replace the existing Main Fire Station in Area C and the flight line station in Building 30206. The new facilities will include an Apparatus Room, Fire Station Supply Storage, Operation Support Space, Administration, Training, a Base Communications Center, Living Areas, Recreation, and Dining Facility. The Apparatus Room shall be designed to accommodate all Wright-Patterson Air Force Base crash and structural fire vehicles in a 7 bay (14 stall) arrangement. Fire Station Supply storage shall be provided for fire fighting agents, hoses, fire extinguishers, self-contained breathing apparatus (SCBA), protective-clothing, laundry and tire storage. The Administration and Training Center will include educational training, physical fitness areas, and administration areas for offices; chief's bedroom, restrooms and storage. Residential and Living Areas for firefighters shall be provided with private bedrooms, personal closets, restrooms/showers, and laundry. Space for television viewing, quiet study, dayroom, kitchen, kitchen storage, serving, vending, and dining area shall all be provided. **The requirement for vehicle maintenance as outlined in the Fire Station Design Guide is NOT required for this project.** The project also includes new driveway(s), parking facilities, fencing, connection to existing utilities, removal of existing concrete aircraft apron, and demolition of existing buildings 11405, 20090, 30201, and 30206 (fire station vehicle single bay addition only). See drawings for construction limits. Utility connections and extensions include but are not limited to electrical service, domestic water, fire protection, sanitary & storm sewer, communications systems, cable TV, gas service and steam and condensate piping. Not required in the programming for the Main Fire Station is US Air Force Reserve Command / Air National Guard component as outlined in the *Air Force Fire Station Design Guide* and the vehicle maintenance area. The new building and parking lots will be required to meet current Force Protection standoff requirements.

1.1.3 This facility shall comply with all requirements stated herein, including the *Air Force Fire Station Design Guide, Base Facility Standards* (included as part of this RFP). Design and construction shall not exceed the maximum gross area for individual spaces and the entire building as outlined in the documents Programming Matrix.

1.1.4 Contractor will have full access and use of the project site defined by the construction limits (see drawings). All project requirements (building, parking, access, site amenities, etc.) must be constructed within the construction limits. Site layout and construction shall comply with the

requirements of Section 01020, Part 5 - Antiterrorism Force Protection Construction Requirements. In particular, the contractor should note the required standoff distances for design and construction.

*** Amendment #0001**

1.1.5 All aspects of this project, including but not limited to, the RFP requirements, demolition of facilities, extension, interface, relocation and connection of all required utilities, and all necessary site demolition and development are included in this Design/Build contract. *** Amendment #0001**

1.1.6 Site survey, Site Utility Plan, a building module plan within the Air Force Fire Station Design Guide, construction limit drawings, and attached programming schedule are provided as guidance in outlining the project development requirements. The Contractor will be fully responsible for preparing independently developed 100% complete design documents.

1.1.7 All items listed in Section 01020 - *GENERAL DESIGN REQUIREMENTS* are included to define the scope of the complete design and construction requirements for this contract. The Contractor is responsible to develop a complete design, sufficient to fulfill the requirements of this RFP. Refer to SECTION 01021, DESIGN SUBMISSION REQUIREMENTS AFTER AWARD for design submittal requirements.

1.1.8 Information included in this RFP is provided as general guidance for design, construction and quality. It shall be the Design/Build Contractor's responsibility to verify the accuracy of the information provided.

1.1.9 Affirmative Procurement is defined as the process of purchasing environmentally preferable products, especially products manufactured from recycled and reclaimed materials. The United States Environmental Protection Agency (USEPA) has designated 54 guideline items in the Comprehensive Procurement Guideline (CPG) III for mandatory procurement. These CPG products are products that are or can be made containing recycled materials. A current detailed listing of these products and recycled content requirements can be found on USEPA's web site at <http://www.epa.gov/cpg/products.htm> In the CPG, the USEPA organizes these items into 8 product categories as follows:

1. Construction Products
2. Landscaping Products
3. Non-paper Office Products
4. Paper and Paper Products
5. Park and Recreation Products
6. Transportation Products
7. Vehicular Products
8. Miscellaneous Products

1.1.9.1 The Design/Build Contractor is required to research, propose, and utilize these designated products, and any other recycled-content products available in the market place. CPG products with the highest percentage of recovered materials practicable shall be utilized, unless otherwise specified, or if one or more of the following exemptions apply:

1. Does not meet appropriate performance specifications.
2. Is not available competitively (from two or more sources).
3. Is not available within a reasonable time frame.
4. Is only available at an unreasonable price.

1.1.9.2 The contractor shall certify that the percentage of recovered materials to be used in the performance of the contract will be at least the amount required by applicable specifications or other contractual requirements, and shall also estimate the percentage of total material utilized for the performance of the contract which is recovered material. If CPG products are not utilized, the contractor shall provide written explanation and documentation as to why the products were not used.

1.1.10 The Contractor shall comply with a LEED's (Leadership in Energy and Environmental Design) checklist during development as per the U.S. Green Building Council's Green Building Rating System.™ A "certified" building is not required. The LEED project checklist includes the following sections and shall be filled-out by the Contractor:

1. Sustainable Sites
2. Water Efficiency
3. Energy & Atmosphere
4. Materials & Resources
5. Indoor Environmental Quality
6. Innovation & Design Process

Contractor shall make every effort to salvage 50% of the building materials from the demolition of buildings included as part of this work.

1.1.11 Provide a main mechanical room for the project. Service access, aesthetics, functional considerations, code and force protection requirements shall each be addressed to the satisfaction of the Government in the design and construction of the space(s). In addition, design and construct a diesel fuel generator and three (3) day tank with screening outside the building. Refer to Part 6 of Section 01020 for mechanical systems requirements.

1.1.12 Bid Options: Provide the following Bid Option Items:

- BID OPTION #1 - EMERGENCY GENERATOR: See paragraph 2.16.4.3 for requirements.
- BID OPTION #2 - CCTV SYSTEM: See paragraph 7.4.4 for requirements
- BID OPTION #3 - CRASH RESCUE VEHICLE ACCESS PAVING: See paragraph 2.6.2 and 2.85 for requirements
- BID OPTION #4 - WINDOW BLINDS: See paragraph 3.4.7.1 for requirements.

1.2 AIRFIELD OPERATIONS

1.2.1 The Air Force AICUZ program is intended to reduce the potential for aircraft mishaps in populated areas. Three safety zones are designated at the end of all active runways: Clear Zone, APZ I and APZ II. The Clear Zone represents the most hazardous area. The proposed site for the new Fire Station is located outside of all APZs.

1.2.2 The new Fire Station will be located immediately adjacent to active taxiway "B". The Design/Build Contractor will be required to coordinate his activities closely with the Contracting Officer and secure the construction area. The limits of the construction area are shown on the drawings. The Design/Build Contractor will be required to repair any damage created as a result of construction activities to the aircraft-parking apron or taxiway. Contractor will be required to coordinate construction equipment placement,

access and use on the site due to the close proximity to the taxiway. Construction activities shall not impair access to Buildings 30145 and 30206.

1.2.3 Accomplish all construction work on the taxiways and parking aprons with extreme care regarding the operation of aircraft. Cooperate closely and coordinate with the Airfield Manager and the Contracting Officer. Park equipment in an area designated by the Contracting Officer. Under no circumstances shall equipment be parked overnight or for any extended period of time in the proximity of taxiways. Leave no material in areas where extreme care is to be taken regarding the operation of aircraft.

1.2.4 Schedule work to conform to aircraft operating schedules. The Government will exert every effort to schedule aircraft operations so as to permit the maximum amount of time for the Contractor's activities; however, in the event of emergency, intense operational demands, adverse wind conditions, and other such unforeseen difficulties, the Contractor shall discontinue operations at the specified locations in the aircraft operational area for the safety of the contractor, military personnel and the Government. Submit a schedule of work that will impact the operation of the parking apron or taxiway to the Contracting Officer. Describe the work to be accomplished, location of the work, noting distances from the taxiways, buildings and other structures as necessary. Provide dates and hours the work is to be accomplished. Keep the approved schedule of work current and notify the Contracting Officer of any changes prior to beginning each day's work.

1.2.5 During daylight, mark stationary and mobile equipment with FAA / AF approved, international orange and white-checked flags, mark the materials and work with yellow flags.

* Amendment #0001

1.2.6 During nighttime, which begins 2 hours before sundown and ends 2 hours after sunrise, mark stationary and mobile equipment, materials with FAA / AF approved markers and the work with red flashing lights. When directed by the Contracting Officer the red lanterns will be turned off or color of the globes changed. *Amendment #0001

1.2.7 Open only those trenches for which material is on hand and ready for placing therein. As soon as possible after the material has been placed and work approved, backfill and compact trenches as specified.

1.2.8 The Contractor is advised that aircraft operations will produce extremely high noise levels and will induce vibrations in the pavements, structures and equipment in the vicinity of the airfield. This may result in high velocity flying debris in the area. The Contractor shall be responsible for providing all necessary ear protective and other safety devices for his personnel, for insuring protection of his equipment, and for scheduling the work to eliminate hazards to his personnel and equipment and to prevent damage to work performed by him.

1.2.9 Obtain an approved Work Clearance Request (AF Form 103) prior to the start of excavation, digging or work that disrupts aircraft flow, vehicular traffic flow, utility services or routine airfield operations activities.

1.2.10 Airfield Manager will provide necessary battery powered radios, including one radio for the tower. During work within the taxiway area, an operator will be available for radio contact with the tower at all times. Radio frequency shall be approved by the tower. Radios requirements will be provided by and briefed by the Airfield Manager.

* Amendment #00011.3 CONSTRUCTION PHASING1.3.1 The project consists of three separate components as follows:

- Phase 1 - New Fire Station, installation of airfield access gate on north side of Building 30206 & personnel vehicle parking lot.
- Phase 2 - Airfield Fire Crash Rescue Access Path
- Phase 3 - Demolition of Buildings 11405, 20090, 30201 & 30206 (Partial).

1.3.2 Coordinate the timing of construction of the Airfield Fire Crash Access Path with the Contracting Officer. Work shall be performed at dates and times as specified by the Contracting Officer. Pay special attention to Airfield Operations requirements when planning and executing this work.

1.3.3 Construction of the new 30-foot vehicle access gate at the north end of Building 30206 shall be completed as the first item of construction under this contract. The contractor shall coordinate the exact location of the new gate and fencing with the Contracting Officer. Demolish existing fence as required to accommodate the new gate location. Repair holes or damage to the existing paving from removals as required.

1.3.4 The new Fire Station construction shall be complete before the demolition of Buildings 11405, 20090, 30201 & 30206 (partial) can commence. The sequence of building demolition shall be as follows:

- Building 11405, 20090 & 30201 shall be demolished first.
- Building 30206 (partial) shall be completed last. * Amendment #0001

PART 2 - SITE REQUIREMENTS

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2.1 EXISTING SITE CONDITIONS* Amendment #0001

2.1.1 The project-building site is located along Skeel Avenue. The site is bounded on the north by building 30206, the south by building 30145. the East by Skeel Ave and the West by the furthest western edge of building 30145, facing the flight line. The new building, parking lots, access driveways, sidewalks, etc. will be located in this area. Refer to paragraph 2.3 for site restrictions. The site is relatively flat and currently incorporates lawn and a concrete aircraft-parking apron (aircraft parking spaces F1-F12). Underground utilities are prevalent in this area. The airfield is protected by flight line fence adjacent to a lawn area. The new airfield crash response access path will be routed from the new fire station, westward, across the existing concrete aircraft-parking apron to Taxiway "B". Although most of this path extends across existing concrete apron, the far-west portion will require widening of the asphalt taxiway shoulder. In addition to the principal building site and crash response access path, demolition of buildings 11405, 20090, 30201, and 30206 (partial) is required. * Amendment #0001

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2.1.2 Existing site information is provided for the Contractor's preliminary use in developing definitive design information for his proposal. Existing utility locations are plotted based on a topographic survey and existing utility plans. Contractor shall verify existing site topography and utilities prior to beginning any work on the site. The graphic scales on the civil drawings are approximate. If it is necessary to scale the drawings, use an engineer's scale. Properly plotted full size drawings scale at 1"=60'.

2.1.3 Prior to commencing subsurface excavation or fence removal, a Base Civil Engineering Work Clearance Request (AF Form 103) will be required. To obtain AF Form 103 all locations for digging will need to be clearly numbered or identified. In conjunction with AF Form 103, a clearance meeting will be required to clear the identified locations.

2.1.4 A Geotechnical Assessment of the site has not been performed. For bidding purposes, assume an allowable bearing capacity of 2,500 psf for the primary building site. The Contractor is responsible for performing a complete geotechnical investigation. The following information shall be provided in the D/B contractor's investigation:

- a. Recommended pavement designs for drainage, thickness, subgrade preparation and compaction requirements.
- b. Recommended foundation types, confirm allowable bearing pressure and bearing elevation.
- c. Recommended lateral earth pressure values for the design of retaining walls.
- d. Water table depth and solutions related to groundwater problems.
- e. Recommended subgrade compaction/preparation and subgrade reaction (k) for building slab on grades.
- f. Provide the site classification in accordance with Table 3-1 of TI 809-04; or site class as defined in Table 1615.1.1 in the 2003 IBC.

2.1.5 The primary site is located within the well field protection zone. Contractor shall comply with all Base and Ohio EPA Standards in regard to the storage of chemicals.

2.2 SITE DEMOLITION

2.2.1 Demolition and removal of the existing concrete apron, asphalt pavement, curbs, sidewalks and utilities is required as part of this project. Demolition may include but is not limited to the following:

- Asphalt Pavement
- Concrete curbs (& gutters)
- Concrete apron (approximately 15-inches thick)
- Chain link fence
- Existing storm sewer and drainage structures
- Existing water main, fire main, water services, fire hydrants, valves and appurtenances
- Existing sanitary sewer, manholes, and cleanouts
- Existing High Temperature Steam supply and return lines, Condensate Pressure Return lines, Vacuum Return lines, and appurtenances
- Existing underground and overhead electric conduits and cables, CATV, poles, manholes, transformers, switches and related equipment
- Communication conduits, cables and manholes
- Trees and vegetation

* Amendment #0001

2.2.2 Remove all apron striping (including striping for aircraft parking spaces F5 through F12) as required for new building, parking lot, and crash response access road. * Amendment #0001

2.2.3 Adjust manholes to grade as required.

2.2.4 If possible, existing trees on the site should be retained and used as part of the overall site and landscape development plan.

2.2.5 Demolition activities shall be sequenced so that the flight line remains secure at all times. Temporary fence and/or gates shall be utilized as required to secure the flight line.

2.2.6 Remove curb and grass on the Southeast corner of Building 30206 until it's flush with the South face of the facility. This driveway entrance will be reworked as part of the fire station development. Maintain access to garage door on South side of Building 30206 throughout construction.

2.2.7 Remove 90 degree chain link fence corner on the Northwest side of the steam pit that is Northeast of Building 30145.

2.2.8 All pavement to be removed shall be sawcut, preferably at existing control joints.

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2.3 BUILDING LOCATION

* Amendment #0001

2.3.1 The new fire station shall be generally located as follows: The Western limits of the new building shall be located a minimum of 100-ft from the western North/South taxiway through airplane parking area "F" (taxiway between F1/F4 and F5/F8). The Northern limits of the new building shall be located a minimum of 50-ft from existing Building 30206. The contractor shall reconfigure the existing gate at the south end of Building 30206 as required to function within the 50 ft. minimum setback for the new Fire Station. Finally, the Southern limits of the building development (including fencing and delivery roads) shall be as far north as prudent design will allow. The Design Build Contractor, within the limits set forth, will determine specific building location and orientation. The proposed personal vehicle parking area is located East of the new fire station and West of Skeel Avenue. Its location shall comply with force protection standards and allow for the development of aircraft parking area "F" South of the fire station. A representative area for construction of the building (including tire storage, dumpster enclosure, mechanical yard, access roads and fencing) is indicated on the drawings for guidance ONLY. * Amendment #0001

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2.3.2 The building shall be located within the limits set forth to minimize the requirement for relocation of existing major utilities. Underground utilities within the building footprint shall be relocated.

2.3.3 Incorporate all applicable stand-off criteria (AT/FP, airfield operations, etc.) when locating the building.

2.4 BUILDING DEMOLITION REQUIREMENTS

2.4.1 Demolition of four buildings, 11405, 20090, 30201, 30206 (partial - fire station single vehicle bay only) shall be included in the scope of work. Refer to drawings for locations and information regarding the construction of the buildings.

2.4.2 Building 30201 is shown on the plans and is located as follows: It is east of Skeel Avenue and is bounded by Van Patton Drive to the north, Allbrook Drive to the south, Skeel Avenue to the west and Pearson Road to the east. The building is a single-story Administration/Office Building constructed of

concrete masonry unit walls with an exterior insulation finish system. The attic and roof structure are timber-framed trusses. The existing Building 30201 parking lot to the west shall remain. The Contractor shall repair any damage to the parking lot resulting from demolition activities. Access drives and walkways from the parking lot to adjacent streets shall be retained and repaired as necessary. Existing sidewalks/steps and handrail accessing Building 30201 doors shall be removed. Shrubs adjacent to the building shall also be removed. Repair edge of walkways, driveways and parking lot required as a result of removals. The building site shall be backfilled with engineered controlled earth fill and topsoil, finish graded and seeded.

2.4.3 Building 30206 (Airfield Operations) is located north of the new construction site along the airfield. Demolition includes the Fire Station Vehicle Bay (north side of the building) only. The Building is a single-story vehicle bay facility constructed of a 12" concrete masonry unit wall and a roof structure of metal bar joists and metal decking. The Fire Station Vehicle Bay is a building addition and is not of historic significance. The Contractor is responsible for repairs to the remaining Building 30206 structure, HVAC, plumbing and fire protection (sprinkler) systems resulting from demolition damage and remaining conditions that do not match the contiguous or adjacent structure. The final condition of the remaining building after demolition shall result in an appearance that reflects no visible evidence of the demolition; i.e. a finished appearance. The building floor shall be removed and replaced with concrete paving designed and constructed to support fire and maintenance vehicles. Floor drains and sanitary piping shall be removed and capped. Chain link fence shall be extended to secure the flight line and a new 30-ft wide automatic sliding gate installed. New sliding gate shall be operational before construction of the Main Fire Station Building commences. Building 30206 will be occupied during demolition. Provide any temporary measures necessary to maintain the operation of utilities and access to existing spaces remaining.

2.4.4 Building 11405 (Communications Maintenance Facility) located on the west side of Communications Boulevard adjacent to Gate 15A (Area C). The building is a single-story Building constructed of concrete masonry unit walls, sloped wood truss roof, and a flat hollow core concrete planked roof with a concrete leveling course. Site items to be removed include concrete sidewalk, patio, and shrubs. Portions of concrete and asphalt pavement to remain shall be saw cut. The building site shall be backfilled with engineered controlled earth fill and topsoil, finish graded and seeded.

2.4.5 Building 20090 (Oil Drum Storage) is located north of Woodland Hill in close proximity to Gate 19B. The building is a single-story open structure currently being used as a storage shelter. The structure consists of a steel framed roof structure with a 9' high fence below the perimeter of the roof. Site items to be removed include the gravel driveway, ditch box culvert and headwalls, and a corrugated metal pipe. The street ditch shall be restored with riprap to match existing. The building site shall be backfilled with engineered controlled earth fill and topsoil, finish graded and seeded.

2.4.6 Demolition for each building shall include the primary structure, foundations, paving and underground utilities serving the building. All existing building materials, slabs, footings, gravel parking base, paving materials, drainage structures, piping, vegetation, debris, and unsuitable surface soils shall be removed from the site and shall be properly disposed of at an appropriate "off-Base" location. Suitable topsoil shall be stockpiled for use in final grading. During stripping and rough grading, positive surface drainage shall be maintained to prevent the accumulation of water.

* Amendment #0001

All building demolition will be accomplished after the new Fire Station has been constructed and is occupied. Building 30206 (partial) will be the last structure demolished. * Amendment #0001

* Amendment #0001

2.4.7 For each building demolition, cap utilities a minimum of 24" below grade at the building and remove lateral back to the main including replacing the connection to the main with a straight section of pipe. Remove building electrical service feeder to nearest switch or disconnecting device. Remove steam and condensate lines to nearest manhole and provide return loop to insure the system continues to operate properly. Provide final "As-Built" drawings indicating the extent of removals and location of capped utilities. Maintain in service any utilities serving other facilities that are routed through the demolition site. * Amendment #0001

2.5 ENVIRONMENTAL CONSIDERATIONS

2.5.1 A complete environmental survey identifying the presence of hazardous materials for the Fire Station construction site and buildings to be demolished is not available. Asbestos containing materials (ACM) are known to exist in Buildings 30201 and 30206. Following are the building demolition Hazardous Materials requirements:

- Include an allowance of \$120,000 for removal, abatement and proper disposal of any hazardous materials found at the Fire Station construction site (including underground utilities) and in the existing structures to be demolished.
- The contractor shall complete a comprehensive hazardous materials environmental survey and report for each of the buildings to be demolished. The Report shall identify existing conditions, presence of any hazardous materials, recommendations for abatement and disposal and a detailed cost for the required abatement and disposal. A contract modification (deduct or add) will be executed against the \$120,000 contract allowance.
- The following hazardous materials may be encountered:
 - Asbestos Containing Materials (ACM)
 - Lead Containing Paint (LCP)
 - Mercury Containing Lamps (MCL)
 - Poly Chlorinated Biphenols (PCB)
 - Refrigerants
- Asbestos removal shall be in accordance with Section 02081 REMOVAL AND DISPOSAL OF ASBESTOS CONTAINING MATERIALS.
- Lead Based Paint shall be handled in accordance with Section 02090 REMOVAL AND DISPOSAL OF LEAD PAINT CONTAINING MATERIAL
- Mercury Containing Lamp removal shall be in accordance with Section 02083D REMOVAL OF MERCURY CONTAINING LAMPS
- PCB removal shall be in accordance with specification section 02083C REMOVAL OF POLYCHLORINATED BIPHENYL FLUORESCENT LIGHT BALLASTS
- Refrigerants shall be recovered in accordance with specification section 02091 OZONE DEPLETING SUBSTANCE RECOVERY.
- The presence of asbestos Demolition crews will be responsible for adhering to applicable health and safety regulations.

2.5.2 It is assumed that steam piping in the vicinity of the New Fire Station construction site has asbestos insulation. Relocation of existing piping and tie-in for the building utility connection shall anticipate the removal and disposal of asbestos insulation.

2.5.3 It is anticipated that transite water pipe will not be encountered.

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2.6 SITE PREPARATION

2.6.1 Prior to commencing with Phase 1 work, a temporary construction chain link fence and water-filled jersey median barriers shall be installed to protect the flight line. This system will extend from the existing flight line fence Northeast of Building 30145 (minimum 65-ft North of Building 30145), Westward, to the West edge of existing Building 30145; then, extend northward to a point approximately 50-ft South of Building 30206; then, extend Eastward to meet the existing chain link flight line fence. Temporary chain link fence shall be 7-ft tall with 3 strands of barbed wire (total fence height=8-ft), with posts attached to the water-filled jersey barriers. Top and bottom rails are not required. Comply with the following specifications: ASTM F626, ASTM F669, ASTM F1083, Federal Specification RR-F-191/1, Type I, and ASTM A 392. A polypropylene safety fence shall also be installed around the perimeter of the construction area. All existing concrete apron paving, asphalt pavement, curbs, sidewalk, chain link fencing, utilities, drainage structures and piping, vegetation, trees, shrubs, and debris shall be removed from the construction area and ultimately removed from the Base. Suitable topsoil shall be stockpiled for use in final grading. Any required borrow material will need to be brought to the site from sources off of the Base. During stripping and rough grading, positive surface drainage shall be maintained to prevent the accumulation of storm water. The contractor shall coordinate staging and stockpile areas with the Contracting Officer.

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2.6.2 BID OPTION #3 - Phase 2 work consists of widening the asphalt concrete shoulders to fill in the apex between the aircraft parking apron and taxiway "B" as shown in the drawings. It shall be coordinated with the Contracting Officer for access and executing the work. Existing Taxiway "B" will be closed for portions of the construction period. Coordinate operation of Taxiway "B" with Airfield Management. Weekend or after hours work may be required. The site shall be stripped of all topsoil and vegetation. All existing asphalt paving, taxiway lights, conduit, drainage structures, and piping shall be removed. Suitable topsoil shall be stockpiled for use in final grading. Unsuitable material and debris shall be removed from the site. Any required borrow material will need to be brought to the site from sources off of the Base. The area shall be proof rolled prior to constructing the roadway. All soft areas shall be replaced with ODOT Item 304 aggregate base. Contractor shall comply with all provisions of the Geotechnical Report required as part of the design/build work. Storm drainage must be maintained during and after construction. Additional catch basins shall be provided as needed. Temporary taxiway lighting shall be provided as per Airfield Management. Existing taxiway lights that are removed shall be replaced with semi-flush mounted taxiway light fixtures to accommodate the pavement. It is anticipated that ten lights will need removal and replacement.

2.6.3 Sediment and erosion control measures shall be installed and maintained by the contractor for the duration of the construction. These measures and other best management practices shall be implemented prior to commencement of earthwork. The Contractor shall comply with all provisions of the *Ohio Rainwater and Land Development Manual* and Wright Patterson Air Force Base policies regarding runoff control. The Contractor shall comply with all requirements of the Ohio EPA. Specific erosion control measures include, but are not limited to, providing silt fences to filter sheet runoff, straw bales around inlets and temporary seeding as required. All permits are to be paid by the contractor. A copy of all permit application/correspondence shall be provided to the

Contracting Officer. Contractor shall prepare applications and pay permits for EPA NOI and NOT permits.

2.6.4 The Contractor shall prepare a Notice of Intent application with payment and submit to 88 ABW/EMO for review. 88 ABW/EMO will forward the application and payment to the Ohio EPA. The NOI must be approved by the Ohio EPA prior to any soil being disturbed. The Contractor shall comply with all erosion control requirements of the Ohio EPA. Specific erosion control measures include, but are not limited to, providing silt fences to filter sheet runoff, straw bales around inlets and temporary seeding as required.

2.6.5 Upon completion of the construction project, a Notice of Termination shall be submitted to the 88 ABW/EMY, Design Program Manager, for submission to the OEPA.

2.6.6 Protect the surrounding areas and repair any pavement or site feature that is disturbed or damaged during the project construction. All temporary facilities (i.e. fencing, etc.) shall be removed after construction.

2.6.7 Do not locate the new Building over existing utilities. Reroute existing utilities within the building footprint area.

2.6.8 Burning will not be permitted.

2.6.9 Blasting will not be permitted.

2.7 GRADING

2.7.1 Minimum filling operations are anticipated. Before any required filling operations begin, representative samples of the proposed fill material shall be tested to determine the maximum dry density, optimum moisture content, natural moisture content, gradation, and plasticity of the soil for quality control during grading compaction operations needed.

2.7.2 All compacted fill should be constructed by spreading satisfactory material in loose layers not more than 8-inch thick and compacting to densities established by the geotechnical engineer. It is anticipated that compaction under pavement and structures will be to 95% of the material's maximum dry density per ASTM D 1557 (modified proctor) at a moisture content within 2% of the optimum moisture content; Lawn areas will be compacted to 90% modified proctor.

2.7.3 Storm water from open excavations and trenches shall be monitored and not permitted to flow directly into natural watercourses.

2.7.4 Finish grade will be established a minimum 6-in below finish floor line (except at driveways and ADA accessible entrances) and graded to drain away from the building at 5% minimum slope.

2.7.5 The lawn area adjacent to the taxiway paved shoulders shall be graded as follows: 1-1/2" drop off the edge of pavement; then, 5% slope for the first 10-ft; beyond 10-ft, slope at 2% minimum, 4% maximum.

2.8 SITE ASPHALT PAVING, SIDEWALK & CONCRETE CURBS

*** Amendment #0001**

2.8.1 A new asphalt concrete (AC) or portland cement concrete (PCC) parking lot shall be installed on the west side of Skeel Avenue to maximize the number of

parking spaces on the west side of Skeel Avenue. Parking count shall be no less than 75 vehicles. Provide an AC or PCC driveway with loading zone and 10 additional parking spaces for mission essential vehicles adjacent to the new building. Delivery trucks shall be provided access to a loading/unloading area adjacent to the fire extinguisher storage area and Kitchen. Pavement strength and geometrics for this truck access shall accommodate an AASHTO WB50 design vehicle. * Amendment #0001

2.8.2 Asphalt pavement shall be provided as necessary to rework the driveway into Building 30206 across from Van Patton. Curbs shall be reworked in this area to ease access into the garage South of the building.

2.8.3 PCC pavement shall be provided for crash and structural fire fighting vehicles adjacent to the new building. PCC pavement shall be extended from the building to Skeel Avenue and shall be the full width of the Apparatus Room. On the flight line side, PCC pavement shall be installed from the building to the existing concrete apron for the entire building width. The concrete apron on the structural response side of the building shall be sufficient for any fire, crash or rescue vehicles to turn around and back into the Apparatus Room without blocking traffic on Skeel Avenue. Pavement designs shall be as per the Base Facility Standards and Unified Facilities Criteria (UFC) 3-260-02 to accommodate the design vehicle for 50 movements per bay per day. Maximum depth is 12-inches. Concrete pavement in areas not subjected to truck traffic may be designed for applicable (lighter) loadings. The design vehicle load is based on the TI-3000 with snozzle vehicle. Design the pavement to accommodate a vehicle turning circle of 160-ft. (diameter).

2.8.4 PCC pavement shall also be provided for the area uncovered as part of the partial Building 30206 demolition. Pavement design shall be for the TI-3000 snozzle vehicle with 50 movements/day.

2.8.5 Bid Option #3: Asphalt pavement shall be provided for the crash response access pavement. Pavement strength and geometrics for this pavement shall accommodate a TI-3000 with snozzle with a weight of 80,900 lbs. and a turning circle of 160-ft. (diameter). Pavement designs shall be as per the Base Facility Standards and Unified Facilities Criteria (UFC) 3-260-02. Approximate extent of paving is shown on the plans. Sawcut and remove a portion of existing asphalt shoulders to provide a vertical surface for abutting new asphalt pavement with existing. Slope pavement as per UFC 3-260-01 at a maximum slope of 2.0% towards the grass infield.

2.8.6 Concrete sidewalks shall be provided from the parking areas to the building. Handicap accessible ramps shall be provided per ADA requirements. Concrete sidewalk shall be 4-ft wide, minimum.

2.8.7 Parking areas shall be laid out with typical vehicle spaces measuring 9-ft X 18-ft. Aisles shall be 25-ft wide for 2-way traffic. Handicap accessible parking spaces shall be provided per ADA requirements.

2.8.8 All materials for the paving, sidewalk and curbs shall be in accordance with the latest edition of the Ohio Department of Transportation Construction and Materials Specifications or in accordance with the Base Facility Standard, whichever is more stringent. Design pavements for a 20-yr lifespan.

2.8.9 Parking lots shall be designed for a 20-year life span for light-duty automobile traffic.

2.8.10 Specifications and Materials

- Plain Concrete Pavement - ODOT Item 452 with Class C concrete per ODOT Item 499. Provide minimum 28-day compressive strength of 4,000 psi. Provide 28-day flexural strength of 650 psi.
- Asphalt Concrete Surface Course - ODOT Item 448, Type 1 with PG 64-22 Binder
- Asphalt Concrete Intermediate Course - ODOT Item 448, Type 1 with PG 64-22 Binder
- Asphalt Concrete Base Course - ODOT Item 301 with PG 64-22 Binder
- Aggregate Base - ODOT Item 304
- Tack Coat - ODOT Item 407 (.075 gal/SY)
- Prime Coat - ODOT Item 408 (0.40 gal/SY)
- Concrete Sidewalk - ODOT Item 608, plain concrete, 4-inches thick; tooled joints at 4-ft spacing
- Concrete Curb - ODOT Item 609, 6-in x 24-in per base standards
- Concrete Curb & Gutter - ODOT Item 609 & ODOT Std. Dwg BP 5.1, Type 2 (or match existing).
- 1" chock course drainage layer of #9/#11 stone is required for all concrete and asphalt pavement

2.8.11 Typically PCC pavement shall be designed as non-reinforced pavement. Joints shall be spaced at a maximum of 15-ft unless engineering calculations indicate otherwise. In areas where odd shaped slabs occur (e.g. the length of slab exceeds width of slab by more than 25%), welded wire fabric, ASTM A185, shall be added to offset temperature related stresses.

2.8.12 PCC joints shall be designed to accommodate edge stresses built up as vehicles approach the joint. This is normally accomplished by thickening the edges for expansion joints. Provide expansion joints where slabs abut light pads, catch basins, manholes, footings, and structures.

2.8.13 Provide doweled precast concrete wheel stops for vehicle parking where curbs are not utilized. Wheel stops shall be located 30-inches from the edge of pavement.

2.8.14 Guard posts (bollards) shall be 36-inches tall, 4-inch diameter steel pipe filled with concrete and embedded in a Portland cement concrete foundation. Guard posts shall be painted per base standards. Provide a Guard Post on either side of each Apparatus room door (inside and outside of doors), at structural elements, and the standpipe within the apparatus bays.

2.8.15 Striping operations shall also be included in the work as per Ohio Department of Transportation Construction and Materials Specifications. Glass beads for reflective markings shall conform to Federal Specification FS TT-B-1325, Type III; Gradation A. Parking lots will be striped with 4" wide, white paint. Twenty-four inch stop bars will be painted on Skeel Avenue below the flashing lights. These will be offset from the driveway and overhead lights to provide appropriate sight distances. Finally, double-yellow road markings will be extended on the North side of Building 30206 to the proposed 30-ft wide sliding airfield access gate.

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2.8.16 NOT USED.

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2.8.17 Street curb and gutter shall be restored at all curb cuts for new driveways. Existing curb inlets located in curb cuts shall be relocated upstream of curb cuts.

2.9 STORM DRAINAGE

2.9.1 Surface drainage for the site shall be directed away from the new building at a minimum 5% slope. Provide minimum slopes of 0.4% for concrete paved areas and 1.0% for asphalt pavement and unpaved areas.

2.9.2 Roof drainage shall be tied into the site storm system by minimum 8-inch PVC storm drains. Storm drainage tie-in locations are available within the immediate proximity of the site. Refer to existing site survey drawings for utilities locations. Yard cleanouts shall be provided 5-ft outside building for all interior downspouts, at all pipe junctions, and at 100-ft maximum spacing.

2.9.3 Design and sizing of storm sewer system shall be based upon the Rational Method using a 25-year storm frequency. Sizing of pipes and structures will need to include upstream flows, if applicable, and be designed to provide gravity flow conveyance of the design storm. Manning's formula shall be utilized to select pipes based on full capacity gravity flow. The minimum size of storm sewers between storm structures shall be 12-inches in diameter. Match crown elevations where smaller pipes join larger pipes.

2.9.4 Minimum pipe cover shall be 24-inches for typical traffic loadings. Cover shall be measured from the top of the pipe to the bottom of rigid pavement and to the top of flexible pavement or finished grade. The strength of the pipe and bedding design shall be specified to accommodate heavy fire, rescue and crash response vehicles specified in Section 2.8, where appropriate.

2.9.5 Offset storm drainage pipes paralleling building foundations at least 10-ft from the building foundation. Lay storm pipe in its own trench. Provide catch basins, inlets, or manholes at pipe junctions and where there is a change in either horizontal or vertical alignment. Provide manholes/inlets at least every 400-ft.

2.9.6 Swales and sheet flow surface drainage is preferred over underground conduit systems where land use permits. Overland flow values, rainfall data, etc. shall be computed in accordance with local regulatory requirements.

2.9.7 New storm sewer shall be furnished and installed in trenches 16-inches wider than the each pipe's outside diameter. Trench side slopes shall be sloped per EM385-1-1 requirements from a point 12-inches above the pipe to grade. Bedding shall be a minimum 4-inches below the pipe and minimum 12-inches over the pipe. Bedding shall be a clean, well-graded, sand and gravel with maximum particle size of ¾-inch. Backfill may be acceptable insitu material in lawn areas; granular material under pavement. Provide backfill compaction per paragraph 2.7.2. Existing pavement to remain shall be saw cut 12-inches on each side of the trench excavation, removed and replaced with pavement of like material and strength. The minimum velocity in the storm sewer pipe shall be 2.5 ft/sec.

2.9.8 Specifications and Materials

- Storm Sewer Pipe - Reinforced Concrete Circular Pipe, ASTM C 76 & ASTM C 665, Class III or greater strength, with resilient and flexible gasket joints ASTM C 443 in accordance with ODOT 706.02 and 706.11. Furnish and install as per ODOT Item 603.
- Roof drain Pipe - SDR 35 PVC with flexible elastomeric seals as per ASTM D 3034 except where pipes cross under vehicular pavements with

less than 24-inches of cover. In this case, provide ductile iron pipe (ASTM A-746).

- ❑ Manholes - Furnish & Install per ODOT Item 604. Precast concrete ASTM C 478, eccentric cone top, flexible gasket joints per ASTM C 443, ductile iron castings per ASTM A 536.
- ❑ Catch Basins - Pre-cast or cast-in-place concrete, minimum 3000 psi @ 28 days compressive strength, ODOT 499, Class C. Ductile iron castings per ASTM C 536, Class 60-40-18 (Heavy-duty). Furnish & install per ODOT Item 604.
- ❑ Cleanouts - Cast iron pipe, frame & grate.
- ❑ Underground Plastic Line Markers for roof drains/leaders only.

2.9.9 Storm water detention is not required.

2.9.10 Adjust manholes/inlets to grade as required.

2.9.11 The contractor shall provide storm sewer routings and tie-ins for the new Fire Station at the appropriate locations based upon building location, orientation, and utilities located within the building. Storm sewers are immediately available along Skeel Avenue. Provide new manholes/inlets as required.

2.9.12 Existing storm sewers may need to be relocated (depending on the building location) because of the new building construction; sewers are not permitted underneath buildings.

2.10 SANITARY SEWER

2.10.1 Domestic sewerage for the new construction will be routed to the existing sanitary sewer system. Sewer services shall be designed in accordance with the International Plumbing Code for peak flow conditions. All laterals shall be a minimum of 6-inch PVC pipe. Cleanouts shall be spaced every 75-ft, at junctions and at bends.

2.10.2 Domestic sewerage tie-in locations are available within the immediate proximity of the site. Refer to existing site survey drawings for utility locations.

2.10.3 The strength of the pipe and bedding design shall be specified to accommodate heavy fire, rescue and crash response vehicles specified in Section 2.8, where appropriate.

2.10.4 Existing sanitary sewers may need to be relocated (depending on the building location) because of the new building construction; sewers are not permitted underneath buildings. Relocated sewers shall be designed in accordance with Wright Patterson Air Force Base Facility Standard and Ten-State Standards. Manholes shall be provided at the end of each line; at all changes in grade, size and alignment; at all intersections; and at distances not greater than 400-ft. Minimum size shall be 8-inches; minimum cover 3-ft. Cover shall be measured from the top of the pipe to the bottom of rigid pavement and to the top of flexible pavement or finished grade. The strength of the pipe and bedding design shall be specified to accommodate heavy fire, rescue and crash response vehicles specified in Section 2.8, where appropriate.

2.10.5 New sewer mains require EPA approval. A Permit to Install application and payment shall be submitted to 88 ABW/EMO for review. 88 ABW/EMO will forward the application and payment to the Ohio EPA. The PTI must be approved prior to any soil being disturbed. Contractor is required to prepare all application

materials and pay all fees associated with EPA's approval. Questions should be directed to Martin Nicodemus at 88 ABW/EMY (937-257-5536 ext. 230).

2.10.6 Design gravity sewers to maintain a minimum mean velocity of 2.5-ft/s. Sewer lines shall be laid with straight alignments and uniform slopes between manholes. Curvilinear alignments of sewer lines are not acceptable. Alignment shall be checked with a laser beam.

2.10.7 Existing sewer service shall be maintained at all times. Pipes between manholes shall be air tested and manholes vacuum tested per requirements of Wright Patterson Air Force Base Facility Standard and Ten-State Standards, latest edition. In addition, all PVC pipe shall be tested for deflection in accordance with Ten-State standards requirements. Sewer laterals shall be tested in accordance with provisions in the International Plumbing Code.

2.10.8 Specifications and Materials

- Sanitary Sewer Pipe - SDR 35 (minimum - use higher strength where required) Polyvinyl Chloride (PVC) pipe conforming to ASTM D1784 with a cell classification of 12454-B. Joints shall be gasketed per ASTM D3034. Furnish and install pipe as per ODOT Item 603. Slope sewer services at 2.0% if possible (1.0% minimum).
- Manholes - Furnish & Install per ODOT Item 604. Precast concrete ASTM C 478, eccentric cone top, flexible gasket joints per ASTM C 443, ductile iron vented castings per ASTM A 536. Rim Elevation shall be set at least 150mm above surrounding grade in yard locations and is situated so storm drainage is not collected in pavement areas.
- Cleanouts - Cast iron pipe, frame & grate.
- Underground Plastic Line Markers for sewer service lines only.

2.10.9 New sanitary sewer shall be furnished and installed in trenches 16-inches wider than the each pipe's outside diameter. Trench side slopes shall be sloped per EM385-1-1 requirements from a point 12-inches above the pipe to grade. Bedding shall be a minimum 4-inches below the pipe and minimum 12-inches over the pipe. Bedding shall be a clean, well-graded, sand and gravel with maximum particle size of ¾-inch. Backfill may be acceptable insitu material in lawn areas; granular material under pavement. Provide backfill compaction per paragraph 2.7.2. Existing pavement to remain shall be saw cut 12-inches on each side of the trench excavation, removed and replaced with pavement of like material and strength.

2.10.10 Contractor shall adjust existing manhole structures to grade as required.

2.10.11 The contractor shall provide sanitary sewer routings and tie-ins for the new Fire Station at the appropriate locations based upon building location, orientation, and utilities located within the building. Provide new manholes as required.

2.11 WATER DISTRIBUTION

2.11.1 Contractor shall coordinate (in advance) taps into the existing water mains with the Contracting Officer. Before fire sprinkler system is designed, a flow test shall be performed to verify the available flow and pressure for the existing 6-inch water main along Skeel Avenue. This line shall be tapped for fire and domestic water services, if adequate. If flow conditions in this main are inadequate for sprinklers, the adjacent 14-inch hanger fire protection water

main may be tapped for firewater service. A minimum 6-inch fire service line shall be provided to serve the building's sprinkler system. This line shall be wet-tapped using a tapping valve and sleeve. Fire service design will be in accordance with NFPA 24. New domestic water service shall be routed to the building parallel to the fire service. The domestic water service will be wet-tapped off the existing 6-inch water main along Skeel Avenue. Water lines shall be sized by the design/Build Contractor per the International Plumbing Code based on fixture units. Waterline installation shall be in accordance with AWWA C600.

2.11.2 New water service shall be furnished, installed, tested and disinfected in accordance with the International Plumbing Code. Watermains shall be tested and disinfected as per AWWA C651, AWWA C652, AWWA C653, and AWWA C654.

2.11.3 A post indicator valve shall be placed on the fire water service before entering the building.

2.11.4 Existing 14-inch fire and 6-inch water lines may need to be relocated (depending on the building location) because of the new building construction; waterlines are not permitted underneath buildings. Relocated waterlines shall be designed in accordance with Wright-Patterson Air Force Base Facility Standard and Ten-State Standards. Size shall match existing; minimum depth shall be 4-feet.

2.11.5 New water mains require EPA approval. A Permit to Install application and payment shall be submitted to 88 ABW/EMO for review. 88 ABW/EMO will forward the application and payment to the Ohio EPA. The PTI must be approved prior to any soil being disturbed. Contractor is required to pay all fees associated with EPA's approval.

2.11.6 Specifications and Materials

- Site Water Pipe 4-inch and larger - Class 350 Ductile Iron Pipe with push-on joints as per ANSI/AWWA C-151/A21.51 and ANSI/AWWA C-111/A21.11 or C-900 PVC with a pressure rating twice the water main's static pressure. Fittings and valves to be mechanical joint ductile iron as per ANSI/AWWA C-110/A21.10 and ANSI/AWWA C-111/A21.11. Provide cement mortar lining for ductile iron pipe and fittings as per AWWA C104. Provide polyethylene encasement for ductile iron pipe as per AWWA C105. 2-inch and 3-inch pipe shall be PVC conforming to ASTM D2241, elastomeric joint, with appropriate pressure rating. Pipe smaller than 2-inches shall be Type K copper. Provide adequate thrust restraint for all piping, fittings, and valves. 2.10.3 The strength of the pipe and bedding design shall be specified to accommodate heavy fire, rescue and crash response vehicles specified in Section 2.8, where appropriate.
- Install pipe with 4-ft minimum cover. Locate fire hydrants or other forms of air release at high points.
- Valves 3-inch and larger shall be iron body resilient seated gate valves rated at 200 psi working pressure as per AWWA C509. Tapping sleeves shall be designed for pipe being tapped. Tapping valve shall match the gate valve standards. Valves shall be the same diameter as the mains to which they are installed.
- Valve boxes shall be adjustable cast iron 5-1/4-inch shaft boxes.
- Fire Hydrants shall be dry barrel type rated at 200 psi and comply with requirements of ANSI/AWWA C502 with extensions as required. Fire hydrants shall also be furnished and installed in accordance with Wright Patterson Air Force Base Standards. Hydrants shall be located 5 to 6-ft off of pavement and be located at 500-ft maximum spacing.

Hydrants shall be located such that all portions of the building shall be reachable by hose lays of not more than 300-ft. Provide bollard protection for hydrants subject to vehicle damage.

- Underground Plastic Line Markers.
- Corporation and curb stops (less than 3-inch diameter) shall be constructed of 85-5-5-5 brass per ASTM B62 and shall be in accordance with AWWA C800. Provide a curb stop on the domestic water service 3m outside of the new building.
- Post Indicator Valve shall be cast iron with variable length extension rod. Provide protection when subject to vehicle damage.
- Fire Department Connection shall be 4-inch Stortz style with 30-degree turn down and be in accordance with NFPA 24. It shall be 30-36-inch high and be located no further than 150-ft from the nearest fire hydrant. Provide bollard protection when subject to vehicle damage.
- Meter/meter boxes will not be required in accordance with Wright-Patterson Air Force Base Standards.

2.11.7 New water main shall be furnished and installed in trenches 16-inches wider than the each pipe's outside diameter. Trenches shall be sloped per EM 385-1-1 requirements from a point 12-inches above the pipe to grade. Bedding shall be a minimum 4-inches below the pipe and minimum 12-inches over the pipe. Bedding shall be a clean, well-graded, sand and gravel with maximum particle size of ¾-inch. Backfill may be acceptable insitu material in lawn areas; granular material under pavement. Provide backfill compaction per paragraph 2.7.2. Existing pavement to remain shall be saw cut 12-inches on each side of the trench excavation, removed and replaced with pavement of like material and strength.

2.11.8 Existing water valve chambers and boxes, fire hydrants and appurtenances shall be adjusted to grade as required by the proposed work.

2.11.9 Provide a fire department connection for sprinklers. A fire hydrant shall be located within 150-ft of the connection.

2.11.10 Existing fire hydrants shall be relocated and/or replaced as required by the proposed development. Contracting officer shall determine if existing fire hydrants may be reused. Specification, location and orientation shall be approved by Wright-Patterson Air Force Base.

2.11.11 The contractor shall provide water main and service routings and tie-ins for the new Fire Station at the appropriate locations based upon building location, orientation, and utilities located within the building. Fire and domestic mains are immediately available along Skeel Avenue. Provide new valves on each branch of Tee-junctions and as required.

2.12 GAS DISTRIBUTION

2.12.1 Gas service for the fire station building is available in the vicinity of Pearson Road and Allbrook.

2.12.2 Specifications and Materials

- Site Gas Pipe - Polyethylene Plastic pipe that meets the requirements of ASTM Specifications, D2513 and PE 2406. The strength of the pipe and bedding design shall be specified to accommodate heavy fire, rescue and crash response vehicles specified in Section 2.8, where appropriate. Joints shall be butt fusion. Tracer wire must be taped to the meter end and extended to the street end of the plastic pipe. Tracer wire shall be solid insulated copper wire, #12 gage or heavier.

- ❑ Gas service trench shall be at least 3-ft away from other utility trenches. Twelve-inch minimum separation shall be provided at all utility crossings. Polyethylene plastic pipe cannot be installed within 5-ft of an underground steam line.
- ❑ Minimum pipe cover is 18-inches for conduits 2-inch and smaller; 30-inches cover required for conduits 3-inch and larger.
- ❑ Conform to ASME B31.8 (2000) Gas Transmission and Distribution Piping.

2.12.3 The Contractor shall provide gas main and service routings and tie-ins for the new Fire Station at the appropriate locations based upon building location, orientation, and utilities located within the buildings. An existing 3" gas main with 10-PSI pressure is immediately available along Pearson Road. Provide new valves as required by gas utility.

2.13 STEAM SUPPLY AND CONDENSATE RETURN LINES (HPS, CPR)

2.13.1 Steam (HPS) service for the building will be routed from an existing HPS (70 psi) pit on Skeel Avenue, just South of the Building site. Route new HPS supply and condensate return lines in a concrete shallow trench system to the main mechanical room. Contractor shall coordinate, in advance, the tap into the existing mains with the Contracting Officer. HPS is not available during the non-heating season 1 May through 1 October.

2.13.2 Assume 400 feet of existing direct-buried (Ricwil type) 10-inch HPS and 2.5-inch HPR lines will need to be relocated (in shallow concrete trench) because of the new building construction; steam lines are not permitted underneath buildings. Relocated steam lines shall be designed in accordance with Wright Patterson Air Force Base Standards and good engineering practice. Size shall match existing.

2.13.3 Specifications and Materials

2.13.3.1 New exterior piping systems shall consist of the following:

- ❑ Steel service pipe shall be heavy weight (Schedule 80) ASTM A53 Grade B, electric resistance welded carbon steel. All joints shall be butt-welded, except joints 2-inches and smaller may be socket welded.
- ❑ All fittings and accessories shall be designed and factory fabricated to prevent moisture from entering into the system. Elbow insulation jackets shall be molded HDPE. The insulation jackets shall be extrusion welded or butt fusion welded HDPE. Gluing, taping or hot air welding of the insulation jacket shall not be allowed.
- ❑ All steam and condensate piping expansion compensation shall be accomplished via mechanical loops only.

* Amendment #0001

- ❑ Insulation for all piping, fittings and valves shall be cellular glass insulation conforming to ASTM C552. Insulation shall be factory or field applied.
- ❑ The outer protective insulation jacket shall be aluminum smooth sheet, 0.016 in. nominal thickness, ASTM B209M, ASTM B209, Type 3003, 3105 or 5005, or non-metallic jacket consisting of 203 grams per square meter (6 oz. per sq yard) fiberglass fabric impregnated with chlorosulfanated polyethylene (Hypalon) and a 0.038 mils polyvinyl fluoride film (Tedlar) bonded to it. Overall thickness of the composite shall be 0.010 in. and weigh approximately 10.5 oz. per sq. yard. Aluminum jacket shall be used over calcium silicate

insulation. Non-metallic jacket shall be used with molded mineral fiber insulation.

- ❑ Provide isolation valves on steam supply and condensate return lines at branch for service to building. Valves shall be located in valve boxes.
- ❑ Backfill and overall installation shall meet the requirements of the piping system manufacturer. The piping installation shall be approved and certified in the field by a representative of the piping system manufacturer.
- ❑ Hydrostatically test piping per ANSI B31.1 prior to burying.
- ❑ Provide factory-trained field technical assistance for material unloading, field joint installation instruction, piping installation and testing.

2.13.4 All steam system components, materials selection and sizing shall be made to allow for the future transition/switchover to central plant high temperature hot water.

2.13.5 The Contractor shall provide utility routings and tie-ins for the new Fire Station at the appropriate locations based upon building location, orientation, and utilities located within the buildings. Utilities are immediately available along Skeel Avenue. Provide new manholes as required.

2.14 VACUUM RETURN LINES (VR)

2.14.1 Existing 4-inch VR may need to be relocated because of the new building construction; vacuum return lines are not permitted underneath buildings. Relocated vacuum return lines shall be designed in accordance with Wright Patterson Air Force Base Standards and good engineering practice. Size shall match existing; minimum depth shall match existing.

2.14.2 See 2.13.3 for pipe specification.

2.14.3 The contractor shall provide utility routings and tie-ins for the new Fire Station at the appropriate locations based upon building location, orientation, and utilities located within the building. Utilities are immediately available along Skeel Avenue. Provide new manholes as required.

2.15 CONDENSATE PRESSURE RETURN (CPR)

2.15.1 Existing 5-inch CPR may need to be relocated because of the new building construction; condensate lines are not permitted underneath buildings. Relocated condensate lines shall be designed in accordance with Wright Patterson Air Force Base Standards and good engineering practice. Size shall match existing; minimum depth shall match existing.

2.15.2 See 2.13.3 for pipe specification.

2.15.3 The contractor shall provide utility routings and tie-ins for the new Fire Station at the appropriate locations based upon building location, orientation, and utilities located within the building. Utilities are immediately available along Skeel Avenue. Provide new manholes as required.

2.16 ELECTRICAL SERVICE

2.16.1 Building electrical service will be provided from the 12470-volt medium voltage underground service line located along Skeel Avenue (see drawings). Provide a new 12470: 480Y/277V pad mounted service transformer for the

Fire/Crash Rescue Station. Provide 15kV service to pad mounted transformer as described herein. D/B Contractor shall provide a sectionalizing switch after the manhole and prior to the transformer.

2.16.2 The D/B Contractor shall provide the electrical tie-in for the new Fire Station at the appropriate location based upon building location, orientation and utilities locations within the building. Utilities are immediately available along Skeel Avenue. Provide new manholes as required.

2.16.3 New underground electric shall be furnished and installed in trenches 16" wider than the each conduit's outside diameter. Trenches shall be sloped per EM 385-1-1 requirements from a point 12" above the pipe to grade. Backfill may be acceptable material in lawn areas; granular material under pavement. Existing asphalt (in streets to remain) shall be saw cut 12" on each side of the trench excavation, removed and replaced with heavy-duty pavement. The trench shall have excavation warning tape installed 1'-0" above the conduits. Contractor shall coordinate in advance the tap into the existing underground 12470-volt service with the Contracting Officer.

2.16.4 Provide a Diesel Generator Set for emergency back-up power. Generator shall serve the following:

- Alarm Communications Center (lighting (also provided with emergency ballasts), power, HVAC & communications)
- Overhead Apparatus Room vehicle doors
- Corridor lighting from living quarters to the Apparatus Room
- Building security system
- Closed Circuit TV system
- Life Safety Systems, including but not limited to, the fire alarm system and emergency Lighting
- Refrigerators and freezers
- All communication closets/rooms power
- Kitchen equipment

2.16.4.1 The system shall provide a minimum of three (3) day back-up power capacity with above ground tank. Generator shall be located near the Mechanical/Electrical courtyard within a weather-protected enclosure. The Automatic Transfer Switch shall be located in the Electrical Room.

2.16.4.2 Generator shall be provided with quiet pack (sound package) and be located so that it is accessible from the paved surfaces for access by maintenance and refueling vehicles. The generator shall also be provided with alarms for spillage monitored via phone lines to EMS.

2.16.4.3 BID OPTION #1 - In lieu of the emergency loads to be served as identified in paragraph 2.16.4, size the Generator to serve the entire building electrical load. All other requirements apply.

2.17 CATV

2.17.1 Cable TV shall be provided for the Facility. D/B contractor shall route coaxial cable in conduit from CATV connection point in building 206 (approx. 600') to new communication room in Fire Station. Contractor shall coordinate final connections with KAS Cable Company.

2.17.2 Trench shall have excavation warning tape installed 1'-0" above the conduits. Contractor shall coordinate in advance any tap in existing communications manholes with the Contracting Officer.

2.18 COMMUNICATIONS

* Amendment #0001

2.18.1 Refer to the site drawings for location of manholes. * Amendment #0001

2.18.2 Set a new manhole between MH FAA02 and MH FAA01. For reference purposes this manhole will be called MH FAA01B. Set this manhole (FAA01B) approx. 10 feet from FAA02. FAA01B needs to be 8' long x 4' wide x 6' deep. MH FAA01B needs two (2) new 4" concrete encased underground conduits from this manhole to the new communications closet in the new Fire Station. Also, MH FAA02 will need one (1) new 4" concrete encased underground conduit going from this manhole to the new communications closet in the new Fire Station.

2.18.3 Route new 12-strand single mode communications fiber in existing 4" underground conduit from manhole #355A to manhole FAA02. Extend fiber through 4" underground conduit from manhole FAA02 into the new Fire Station main communications closet.

2.18.4 Route new 12-strand single mode communications fiber in existing 4" underground conduit from manhole FAA01 to manhole FAA01B. Extend fiber through 4" underground conduit from manhole FAA01B into the new Fire Station main communications closet.

2.18.5 Route 1-600 pair of 4406 cable in existing 4" underground conduit from manhole #364 to MH #363A to FAA01 to FAA01B. Extend 4406 cable through 4" underground conduit to the new Fire Station main communications closet. NOTE: Fiber and copper must be placed in separate 4" conduits.

2.18.6 D/B Contractor shall test existing fiber cables in manholes prior to pulling to communications closet. Terminate fiber on 36 port FODP (Fiber Optics Data Port). Fiber cable shall be tested again after termination.

2.19 FENCING

* Amendment #0001

2.19.1 Permanent chain link fence shall be furnished and installed to secure the flight line. Fence shall tie in at the south end of the new Fire Station at a location that will allow access from the Skeel Avenue side for deliveries at the south end of the building and terminate at the existing fence to maintain a continuous barrier between Building 30145 and the new Fire Station. On the north side of the new fire station, flight line fence shall extend to Building 30206. Existing flight line fence and gate shall remain in this location. Modify gate as required to continue automatic function. New fence shall incorporate two continuous horizontal steel cables as a vehicle crash barrier. Direct access from the Apparatus Room driveway to Skeel Avenue is required; i.e. do not provide a fence and gate between the Apparatus Room and Skeel Avenue. *Amendment #001

2.19.2 Remove the existing vehicle gate and sufficient number of sections of the existing chain link fence that abut the north side of Building 30206 to facilitate the partial Building 30206 demolition. A new 30-ft wide automatic sliding gate shall be installed in this location. Gate shall be furnished and installed to be automatic with electric motors. Install and connect two Government furnished cameras, outdoor telephone, intercom, and electronic card

reader. Electric and control wiring for new gate shall be routed from existing controller in Building 30206, near control tower approximately 900' from proposed gate location. Contractor shall install and make all connections to Government furnished equipment. After completion of the demolition, replace the chain link fence with new fencing.

2.19.3 Replace chain link fence corner that was removed on Northwest side of steam pit that is Northeast of Building 30145.

2.19.4 Permanent chain link fence shall be 8-ft tall with 3 strands of barbed wire. Comply with the following specifications for galvanized fence materials: ASTM F626, ASTM F669, ASTM F1083, Federal Specification RR-F-191/1, Type I, and ASTM A 392. Utilize single arm steel barbed wire support arms (outriggers). Provide heavy-duty fence, accessories, posts, rails, bracing, tension wires, stretcher bars, etc. to match existing fence. Provide adequate grounding. Provide concrete foundations for posts.

2.19.5 Horizontal steel cable fence reinforcing shall be 3/4" aircraft cable as per Mil-Std. MIL-W-83420. Cable shall be installed at heights of 30-inches and 35-inches above ground level. Concrete deadmen shall be installed at 1,000-ft maximum spacing and at fence corners to anchor the cable. Deadmen shall be as per Mil Hdbk. 1013/10.

2.19.6 New gates shall incorporate horizontal steel cable reinforcing to match fencing and shall provide the same strength of construction in the closed position as the new fencing.

2.19.7 Refer to Section 2.6 for temporary construction fence requirements

2.20 SIGNAGE AND TRAFFIC SIGNALS

***Amendment #001**

2.20.1 Provide traffic signals, Regulatory and Warning signs in accordance with the Manual of Uniform Traffic Control Devices, latest edition. **Provide restricted area warning signs, FOD signs and stop signs at the new gate.**

***Amendment #001**

2.20.2 Traffic signaling will be required at Skeel Avenue for the structural response truck access apron. Traffic signal poles shall be located on the East and West sides of Skeel Avenue with 2 (3-way) 12" LED one-section signal heads supported in between. Push-button actuation shall be provided from inside the Fire Building. Furnish and install traffic signal in accordance with ODOT Standard Drawings and Specifications. Provide Type 170 or NEMA pole mounted controller with conflict monitors. Strain poles shall be steel with foundation. Provide flashing red operation for 40 seconds when actuated.

2.21 LANDSCAPING

2.21.1 Site & soil preparation, finish grading, placement of topsoil, seeding, and watering are to be included in the basic site requirements independent from the landscape/plantings requirements.

2.21.2 Seed shall be a fescue seed mix. All disturbed areas shall be seeded.

2.21.3 A soil test shall be performed on all topsoil for PH. Soil amendments and fertilizer application shall be determined from the soil test. Topsoil shall be placed to a depth of 6-inches from stockpile and/or offsite source as required.

2.21.4 Routine maintenance of all seeded areas is required during the establishment period of 12 months including eradicating weeds, insects and diseases, protecting ditches, etc. from surface erosion, watering, mowing, and post-fertilization.

2.21.5 Plantings and landscape design is not required for this project.

2.22 DUMPSTER ENCLOSURE

2.22.1 New (8-inch thick minimum) concrete dumpster pad, concrete access drive and enclosure shall be provided. The enclosure shall be suitable for two 8-CY dumpsters. A minimum 4-inch granular base shall be provided for the dumpster pad/apron area.

2.22.2 Dumpster enclosure wall construction shall match the new Fire Station Building's character. Provide screen wall on three sides with an open front for truck access. Screen wall shall extend 12-inches above the maximum height of the dumpster with its top lid in the open position.

2.22.3 Locate and construct the dumpster enclosure to comply with force protection requirements.

2.23 MECHANICAL / ELECTRICAL EQUIPMENT YARD

2.23.1 The mechanical/electrical equipment yard shall be fully enclosed with walls to match the new Fire Station Building's character and have an access gate. The yard shall house the emergency generator, diesel fuel tank, and electrical transformer, chiller and any other outdoor building mechanical or electrical equipment.

2.23.2 A minimum of 4-ft clearance shall be provided between the equipment and the inside face of the screen wall construction. Comply with Base Facility Standards. Screen wall shall be constructed to the same height as the top of the tallest piece of equipment.

2.23.3 Access opening in the mechanical screen wall shall be by way of ornamental gates. Gates shall be jamb mounted within the opening with hinges mounted to imbed plates. One leaf of the double-gate opening shall be provided with a door lever and locking mechanism designed for all weather conditions. The second leaf is to be provided with a flush bolt extended down into a concrete encased strike. Gate material shall be aluminum or stainless steel for minimum maintenance. Locks shall be keyed to Base standard "BEST" system.

2.24 OUTDOOR TIRE/EXTINGUISHER STORAGE

2.24.1 The Outdoor Tire/Extinguisher Storage Enclosure shall be fully enclosed with walls to match the new Fire Station Building's character and have an access gate. The Opening in the outdoor storage area shall be by way of ornamental gates wide enough for forklift and palettes to be moved in and out. Gates shall be jamb mounted within the opening with hinges mounted to imbed plates. One leaf of the double-gate opening shall be provided with a door lever and locking mechanism designed for all weather conditions. The second leaf is to be provided with a flush bolt extended down into a concrete encased strike. Gate material shall be aluminum or stainless steel for minimum maintenance. Locks shall be keyed to Base standard "BEST" The storage enclosure shall not be located on the flight line side of the building. This enclosure should be in character with the Fire Station Building. This area will also be required to be partially covered.

The cover should also be in character with the Fire Station and able to withstand year round weather conditions.

2.25 OUTDOOR PATIO/DINING AREA

2.25.1 Provide a 100 square foot covered patio area. Use materials for construction of the patio cover that are compatible with the building design and construction.

PART 3 - GENERAL CONSTRUCTION REQUIREMENTS

3.3 BUILDING ENCLOSURE

3.3.1 Exterior Wall Construction and Architectural Character

3.3.1.1 The new Fire Station will consolidate the existing Main Fire Station (Building 30163) and the Flight Line Fire Station (Bldg 30206) into a single story state-of-the-art facility. The new building will provide crash response for the airfield and structural response capability for Areas A, C and Kittyhawk of the Base. In addition to fire response capability the Fire Station will include a Central Alarm Communications Center for both fire and security forces at Wright-Patterson AFB.

3.3.1.2 The architecture of this new consolidated Main Fire Station with a Central Alarm Communications Center is important. Creativity in design to provide an appropriate architecturally compatible facility is required. This new building will be located between Buildings 30206 and 30145. The world-renowned architect Albert Kahn designed building 30206. The balance of the adjacent flight line neighborhood includes several other traditional hangar facilities in addition to Building 30145.

3.3.1.3 The new Fire Station will be a single story structure designed and constructed with an architectural character reflecting the "industrial" nature of the flight line and flight line activity. The residential nature of Fire Station exterior architecture reflected in the Fire Station Design Guide is not representative of the requirement for this project. Building 30206, although significantly different in scale, is the predominant structure along the flight line. While the new Fire Station needs to be architecturally compatible with Building 206, it must also take into consideration visual cues in terms of massing from the more traditional hangar facilities along the Skeel Ave side of the flight line. Photographs of Buildings 30206, 30145 and the adjacent existing flight line neighborhood are included for reference.

3.3.1.4 Exterior architecture will be in compliance with the Base Facility Standard. The building roof will be standing seam metal. Appropriate exterior wall construction materials to be considered include precast concrete, concrete, metal panel, and limited use of brick.

* Amendment #0001

3.3.1.5 Brick veneer (if used) shall be similar in size and color of the brick on the existing significant buildings south along the flight line. The use of "red" brick found on the buildings in Area C of the Base is not appropriate for this facility. Banding (if used) to create a horizontal layering can be accomplished through the use of soldier coursing and color changes. Additional banding can be accomplished by using continuous precast concrete sills and lintels. Wall cavity shall have a 1" air gap. * Amendment #0001

3.3.1.6 The exterior wall along the flight line of the building must be reinforced masonry infill, precast panels, or cast in place concrete. This will provide protection from catastrophic flight line events.

3.3.2 Roof

3.3.2.1 The structural roof for the facility shall be metal decking on steel structural framing, painted where visible from ground level. The weathering and finished roof (finish color to match Base Facility Standards, baked-on or anodized finish) shall be a structural standing seam (2" vertical rib) metal roof system (SSSMR), with a concealed fastener system. The fasteners shall stand the roof off to incorporate the appropriate thickness of insulation and fire protection assemblies. The roof structure system shall slope toward continuous gutters. Design Build Contractor shall design the slope of the apparatus room such that it minimizes the potential for snow falling from the roof to the apparatus room driveway. Provide an assembly that complies with UL580 for wind uplift resistance and is approved as a UL Class-90 system with a 20-year weather tight warranty with watertight detailing.

3.3.2.2 Roof insulation shall be rigid, polyisocyanurate boards mechanically anchored to the protection board anchored to the structural metal deck of the facility. Provide a 6-mil thick vapor barrier to the topside of gypsum protection board prior to the setting of the rigid insulation.

3.3.2.3 The SSSMR shall be laid on top of the rigid insulation. Roof panel seam-clips (hold-down clips) shall be anchored directly into the metal decking and shall be strong enough to satisfy the uplift requirements.

3.3.2.4 Provide a lockable attic access hatch for each enclosed attic space. D/B Contractor must provide direct stair access to any roof with a slope of 4/12 or less.

3.3.2.5 Any areas where the roof structure is exposed shall be provided with a metal soffit to enclose the structure and provide a finished building appearance.

3.3.2.6 Gutters and downspouts shall be designed in accordance with SMACNA and factory finished to match exterior finish scheme (baked-on or anodized).

3.3.2.7 Provide metal through-wall flashing. Do not use membrane-type flashing.

3.3.3 Windows

3.3.3.1 Frames for the windows shall be thermally broken aluminum for 1" thick insulated glass units. The profile shall be nominal 1¾" to 2" wide face by 5 1/2" to 5" deep, be exterior glazed and have a face cap of not more than ¾" deep. The frames shall have an anodized factory finish to meet Base Facility Standard color

3.3.3.2 The insulated glass units shall have an exterior glass pane ¼" thick glass laminated, ½" air space and ¼" thick laminated interior glass pane. The glass unit shall be Low-E and tinted bronze with a U-Value for Winter Night-K=1.74; Summer Daytime-K=1.88 Shading Coefficient=0.45 and Solar Heat Gain Coefficient= 0.39.

3.3.4 Doors and Frames

3.3.4.1 Exterior insulated steel doors shall be Grade-II, heavy duty, G60 galvanized, insulated and painted. Door sheet faces shall be 16 gauge. All double doors shall be provided with a removable astragal (center jamb) and weather-stripping.

3.3.4.2 Frames shall be 14 gauge, G60 steel and painted. Provide continuous rubber-bulb weather-stripping around frames, and provide rubber bottom seals on doors.

3.3.4.3 Hardware (Meets BHMA Standards for heavy duty and approved by ANSI): Ball bearing hinges; Lockset, mortise with lever handles; Closer, heavy duty; Overhead stop, heavy duty; 7 pin interchangeable cylinder; Threshold; Weather-stripping; Rain Drip.

3.3.5 Storefront System

3.3.5.1 Frames for the windows shall be thermally broken aluminum for 1" thick insulated glass units. The profile shall be nominal 1 ¾" to 2" wide face by 5½" to 5" deep, be exterior glazed and have a face cap of not more than ¾" deep. The frames shall have an anodized factory finish to meet Base Facility Standard color and shall be fixed (non-operable type).

3.3.5.2 The insulated glass units shall have an exterior glass pane ¼" thick glass laminated, ½" air space and ¼" thick laminated interior glass pane. The glass unit shall be Low-E and tinted bronze with a U-Value for Winter Night-K=1.74; Summer Daytime-K=1.88 Shading Coefficient=0.45 and Solar Heat Gain Coefficient= 0.39

3.3.5.3 Aluminum entrance doors will be medium style doors and the aluminum finish will match the storefront window framing. Insulated glass unit will also be the same.

3.3.5.4 Hardware (Meets BHMA Standards approved by ANSI): Ball bearing hinges; Lockset, mortise with lever handles; Closer, heavy duty; Overhead stops; pin interchangeable cylinder, keying to match base; Threshold; Weather-stripping; Panic devices, concealed vertical rods, touch bar type.

3.3.6 Exterior Metals

3.3.6.1 All exterior metal surfaces includes louvers, window frames, doors, door frames & associated framing, and other miscellaneous exposed metals. Provide factory applied baked-on or anodized finish.

3.4 INTERIOR BUILDING CONSTRUCTION

3.4.1 Interior Doors

3.4.1.1 All steel frames are to be of 14 gauge steel.

3.4.1.2 All solid core wood doors, natural finish wood veneer (book matched); Conform to NWWDA I. S. 1-A; Typical size: 36" x 84", with stainless steel kick plates for protection.

3.4.1.3 Door Hardware shall be stainless steel (US32D). All locks shall be compatible with Base Standard - "Best" system. Hardware (Meets BHMA Standards for heavy duty and be approved by ANSI): Ball bearing hinges; Lockset, mortise with lever handles, Grade 1, Series 1000; Cores: 7 pin interchangeable cylinders; Closers on all rated doors and other selected locations; Floor stops, wall stops or overhead stops.

3.4.1.4 Access Doors shall be provided for plumbing chases and equipment access. Doors shall be approved for the wall material they are installed in.

3.4.2 Interior Partitions

3.4.2.1 Metal Studs, Furring Channels and Gypsum Wallboard: Metal studs and furring channels shall be minimum G60 hot dipped galvanized steel, 20 gauge before galvanization and spaced at maximum 16" on center at interior stud partitions and 16" for furring channels. Partitions shall receive ½" thick gypsum wallboard. Ceilings and interior soffits/bulkheads shall receive ½" thick gypsum board. All gypsum board shall have tapered or beveled edges. Provide fire resistance rated type gypsum board at fire rated partitions. Provide moisture

resistant type gypsum board at 'wet' walls (walls with water present, including base cabinets with sinks and drinking fountains). Provide ½" thick cement boards on the 'built-up' shower/tub walls and on their ceilings. Drying areas adjacent to the showers shall receive moisture resistant type gypsum board on the walls and ceilings to be painted. All partitions and walls to receive ceramic tile finish shall receive tile backer boards as recommended by the gypsum board manufacturer. At full height partitions, extend the gypsum board and the sound insulation to underside of structural deck above. Provide a minimum of 2½" thick mineral fiber sound insulation between all studs (fit tight and secure with wire to prevent sagging).

3.4.2.2 Concrete Masonry: Masonry partitions shall be 8" nominal thickness. These partitions shall be structurally reinforced with steel reinforcing bars and horizontal joint reinforcing as required by the Federal, State and Local Codes/Regulations to include seismic and force protection. Doors, windows, frameless openings and outside corners of exposed block shall be bull-nosed edges.

3.4.3 Finishes

3.4.3.1 Ceramic Tile: Shall be provided in all restroom and shower areas and shall be a combination of 3/8" thick thin set type, class III abrasion resistant, .5 maximum water absorption, .5 minimum static coefficient of friction, set with organic adhesive. The ceramic tile shall be provided in a minimum of three sizes (4" x 4", 2" x 2" and 1" x 1" tiles) with ceramic base. Provide marble thresholds at door locations adjacent to ceramic tile flooring.

3.4.3.2 Resilient Floors: Resilient flooring shall be VCT, ASTM F 1066 Composition I. 3 colors of VCT shall be used to create a pattern and design that is complimentary of the respective room. Base shall be rubber type, straight in carpeted areas and cove type base in all other areas.

3.4.3.3 Carpet: Shall be carpet tile, multi colored loop and should be of a pattern and color that conceals stains and traffic wear. Pattern to be non-directional, with no linear or strong geometric patterns. 100% Dupont continuous filament, loop pile, static control. (Minimum requirements shall be met for carpet as set forth by; WP Base Facility Standards 3.11.2 and ETL 03-3 Air Force Carpet Standard)

3.4.3.4 Sealed Concrete Floors: All exposed concrete floors shall be sealed. The floors sealer should carry a minimum 5-year warranty.

3.4.3.5 Acoustic Tile Ceilings: Suspended acoustic tile ceilings shall be 24" x 48" scored for a 24" x 24" appearance or true 24" x 24" tiles. Suspension grid system shall be rated for heavy duty. Tiles in disinfecting facility, SCBA maintenance and repair, fire extinguisher storage, and laundry shall be vinyl faced for eased cleanability.

3.4.3.6 Painting: Shall be provided per the programming schedule (PT-1 Flat Latex, PT-3 Epoxy Paint, PT-4 Ceiling White Epoxy paint). One prime coat and two finish coats shall be provided. Paints shall have less than .06% Lead by weight, and shall not contain Zinc Chromate or Strontium Chromate Pigments. Provide low or no VOC painting systems. Colors to follow base standards or be selected by the client during design process.

3.4.4 Toilet Room Accessories

3.4.4.1 Restrooms: Full lavatory width glass mirror; Toilet paper dispenser; Grab Bars; Soap Dispenser, wall mounted; Recessed paper towel dispenser & waste receptacle; Feminine napkin disposal and dispenser, Coat Hooks. All items to be stainless steel no. 4 satin finish, unless otherwise noted and meet ADA requirements. Partitions should comply with Base Standard type and color.

3.4.4.2 Shower Accessories: Combination mirrors in drying area; Grab Bars (meet ADA requirements); Towel Bars, wall mounted; Robe Hook. Refer to the Air Force Fire Station Design Guide for additional requirements.

3.4.5 Visual Display Boards

3.4.5.1. Wall mounted wood framed, 42" x 72", dry erase board w/ integral marker trough.

3.4.5.2 Wall mounted wood framed, 42" x 72", tack board.

3.4.6 Signage*** Amendment #0001**

3.4.6.1 Exterior building identification signage and controlled area signage shall be provided in accordance with UFC 30120-01 and the Base Facility Standard. *** Amendment #0001**

3.4.6.2 Interior signage shall comply with the current Air Force sign standard UFC 3-120-01 with sizes as follows:

Description and Size

Restroom 9" x 6"

Room Identification 6" x 6"

Office Identification 6" x 6"

Information: "In Case of Fire" 10" x 12"

Directional: 20" x 12"

Fire Extinguisher 10" x 12"

Freestanding Announcement 30" x 30"

3.4.7 Window Blinds and Sills

3.4.7.1 Window Blinds (BID OPTION #4) devices will be located at all windows. They will be 1" aluminum slats, manually operated with hand held wand and rope pull.

3.4.7.2 Windowsills will be a solid surface material.

3.4.8 Foot Grilles

3.4.8.1 Provide aluminum foot grilles in entry vestibules.

3.4.8.2 Aluminum Foot Grilles: Standard foot grille with extruded members, top surfaced tread rails, and as follows:

- Tread Rails: Extruded-aluminum frame.
- Tread Rail Spacing" 3/8" o.c. with 1/8" to 3/16" wide openings between treads.
- Aluminum Finish: Clear anodized.

- Top Surface: Fusion-bonded, level cut pile nylon carpet insert, 6 mm high, 28oz/sq yd.

3.4.8.3 Drainage Pit Applications: Provide manufacturer's special deep-pit frame and support extrusion system with intermediate support beams, sized and spaced as recommended by manufacturer for indicated spans and equipped with vinyl support cushions.

3.4.9 Fire Extinguisher Cabinets: Fully recessed or semi-recessed fire extinguisher cabinets with a stainless steel and glass finish shall be provided.

3.4.10 Cabinets and Millwork: Per the Air Force Fire Station Design Guide.

3.5 SPECIAL PROGRAMMING REQUIREMENTS

3.5.1 Building program and requirements should follow information within this document (Section 1020), the Building Programming Drawing and the US Air Force Fire Station Design Guide.

3.5.2 Alarm Communications Center

3.5.2.1 The communications control room and the dispatch room shall be designed as two adjoining spaces. There should be a privacy barrier separating the two spaces. The privacy barrier could be similar to a half height wall, extending from one wall to the center of the room. The back, continuous wall will hold shared resource information for base maps and files.

3.5.2.2 The following rooms shall have 12" access floor located throughout (access flooring shall be at the same elevation as the surrounding finished floors):

- Communications Control Room
- Dispatch Room
- Telecom / Computer Room
- Adjacent Electrical Room

3.5.2.3 The communications room and dispatch room shall have no exterior windows.

3.5.2.4 A electric keypad and electric strike should be provided on the Communications Room door and the main entrance door. The lock should be electrified and remotely controlled from within the room. Door should also be provided with a peephole viewer.

3.5.2.5 An "A"-phone should be provided on the wall adjacent to the door into the Communications/Dispatch room. The intercom system should be controlled from within the communications room.

3.5.2.6 A doorway shall be provided from the Dispatch Room to the Emergency Response Center.

3.5.3 Apparatus Room

3.5.3.1 The apparatus room shall have 7 bays housing 14 fire/emergency vehicles.

3.5.3.2 Each Bay in the apparatus room shall have 2 doors providing drive through capability for vehicles. All doors shall be a minimum of 14' wide and

18' tall to accommodate the largest vehicle (TI-3000 with "snozzle") to be housed in the facility.

3.5.3.3 The overhead doors shall be controlled from the Dispatch room and from within the Apparatus Room. They shall have the capability to all be opened at once, or individually opened or closed. The doors should also be tied into the emergency power and a quick manual open option, in case of power failure. The safety sensors for the doors shall be mounted at a height to align with the vehicle body not the wheels. One remote control shall be provided for each door for the use in vehicles. Doors shall be designed to fully open or close within 60 seconds.

3.5.3.4 No vehicle maintenance areas are required for this facility.

3.5.3.5 Provide the working sprinkler riser assembly in the Apparatus Room mounted at working height for training purposes.

3.5.4 Training Facility

3.5.4.1 Do NOT provide half court basketball court and sand volleyball court for exterior physical fitness. These areas are not required for this project.

3.5.4.2 Rear projection is not required for the training room.

3.5.5 Living Quarters

3.5.5.1 All private bedrooms shall be provided with 2 lockable closets (one per shift).

3.5.5.2 Visual and Audible alarms shall be provided in each room. Visual alarm should be activated prior to the Audible alarm per NFPA 72, fire alarm code.

3.5.6 Recreation / Dining

3.5.6.1 In serving area provide heat resistant countertop. Provide storage for utensils, plates, and glassware.

3.5.6.2 A serving line is not required for this facility. A serving area should be provided between the kitchen and dining area.

3.5.7 Administration

3.5.7.1 Refer to programming matrix for specific space requirements.

3.5.8 Maintenance Repair, Storage, and Support

3.5.8.1 Hose storage and drying area will not contain a hose dryer or provisions for hanging hose.

3.5.8.2 No fire extinguisher maintenance will be performed, storage only.

3.5.8.3 The agent storage room will contain eight (8) 55 gallon drums of AFFF and three (3) flammable storage cabinets. This room should be accessed from the exterior through a set of 3'-0" X 7'-0" double doors. The floor shall be constructed to create a spill containment (with floor sloping down away from the door threshold) sufficient to contain 110 gallons of liquid.

3.6 SPECIAL ITEMS

3.6.1 Brass Fireman's Pole

3.6.1.1 Remove existing 30 ft. long solid brass fireman's pole from the Fire Station, Building 30206. The pole shall be removed in one piece. The extent of damage to the original building must be discussed prior to removal. The hole in the second floor at the pole shall be closed with the same construction materials as the surrounding floor after removal. The brass pole shall be incorporated as a visible memorial element inside the new Fire Station. Develop design concepts during the Design Charette for consideration by the Government. Provide an engraved brass wall mounted plaque. Message on the plaque shall be as directed by the Government.

PART 4 - STRUCTURAL REQUIREMENTS

4.1 BUILDING STRUCTURAL REQUIREMENTS:

4.1.1 General code provisions, dead, live, snow, seismic and wind loads shall be according to The International Building Code (IBC 2003) and UFC 1-200-01. Comply with antiterrorism requirements outlined herein.

4.1.2 The seismic Use Group and corresponding performance level will be:

Seismic Use Group: IIIIE - an Essential Facility (Fire, Rescue, and Police). Structural Performance level should be Immediate Occupancy (IO) 3 Refer to TI 809-04 Seismic Use Group III as defined in 2003 International Building Code for further requirements. Occupancy Importance Factor (IE) shall be 1.50 per Table 1604.5 in the 2003 IBC.

4.1.3 Design loads and load combinations, except seismic shall be in accordance with the American Society of Civil Engineers (ASCE) Minimum Design Loads for Buildings and Other Structures, ASCE 7-latest edition. Seismic design shall be in accordance with T1809-04 "Seismic Design for Buildings" and the 2003 International Building Code.

4.2 FOUNDATIONS

4.2.1 Foundation includes all substructure elements supporting the facility and its equipment. The minimum depth for heated sections is 36" and 42" for unheated sections.

4.2.2 Prepare the foundation design in accordance with the D/B Contractor's independently verified Geotechnical analysis of the site soil conditions performed by a licensed geotechnical engineer. Remove any uncontrolled fill and replace with structural fill. Replacement of uncontrolled fill will be addressed through a contract modification.

4.2.3 The foundation shall be designed according to the Foundation Design Criteria stated herein, including seismic, wind, live and gravity loads.

* Amendment #0001

4.2.4 NOT USED.

*Amendment #0001

4.3 SUPERSTRUCTURE

4.3.1 The superstructure includes the above grade structural elements required for support of the roof construction.

4.3.2 The structural design of building components shall conform to the design requirements stated herein, including seismic, wind, live and gravity loads.

4.3.3 All ground level floor construction shall be slab-on-grade over a compacted drainage layer and vapor barrier.

4.3.4 Structural wall elements required for support of roof construction includes steel columns, precast structural concrete wall panels, and load bearing masonry walls. Exterior wall elements will also function as lateral support for the building cladding.

4.3.5 Structural roof framing elements required for support of the roof construction is to be determined by the Design Build Contractor. Some examples are girder trusses, open web bar joist and girders, steel beams, prestressed-precast concrete planks and galvanized light-gauge metal framing. The roof slope shall be made in the structure. Roof slope may also be achieved over flat surfaces using galvanized steel truss system or galvanized light-gauge metal framing.

4.3.6 Structural roof system shall consist of a wide rib metal deck attached to structure below. The standing seam metal roofing system shall use and will connect to structure below using concealed fasteners. Minimum roof slope shall be $\frac{1}{2}$ " per foot for all roof areas. All metal decking shall be galvanized. The system shall be complete with expansion control joints including sleeved penetrations for services. Show method and frequency of attachment to structural framework.

4.3.7 Roof construction fire stopping material shall be installed in cavities, around pipe penetrations, and in other openings in roof construction to prevent spread of fire and smoke

4.3.8 Give special attention to control cracking in concrete masonry structures using the guidance contained in Table 1-1.

Table 1-1 Recommended Joint Control Spacing ^(a)

Vertical Spacing of Joint Reinforcement With 2-#9 Wires ^(b) (in)	Maximum Ratio of Panel Length to Wall Height (L/H) ^(c)	Maximum Spacing of Control Joints ^(d) (ft)
None ^(e)	2	18
16	3	24
8	4	30

^(a) Based on moisture-controlled, type I, concrete masonry in intermediate humidity conditions (ASTM C 90). The designer should adjust the control joint spacing for local conditions. The recommended spacing may be increased 6 ft. in humid climates and decreased 6 ft. in arid climates.
^(b) Joint reinforcement will be cold-drawn deformed wire with a minimum 9-gauge longitudinal wire size.
^(c) L is the horizontal distance between control joints. H is generally the vertical distance between structural supports.
^(d) The spacing will be reduced approximately 50% near masonry-bonded corners or other similar conditions where one end of the masonry panel is restrained.
^(e) Not recommended for walls exposed to view where control of cracking is important.

PART 5 - ANTITERRORISM FORCE PROTECTION CONSTRUCTION REQUIREMENTS

In accordance with DoD Antiterrorism Standards this building is classified as an "Essential Structure".

5.1 Standoff Distances:

5.1.1 The facility shall be designed as *conventional construction* meeting the minimum standoff distance of 82' from the face of the building to roadways and parking.

5.1.2 A 33' standoff distance between the building and dumpster location is required.

5.1.3 Standoff distance shall be measured from the controlled perimeter to the closest point on the building exterior. Measure the standoff distance from the closest edge of parking areas and roadways to the closest point on the building exterior. The minimum standoff regardless of hardening or analysis is 82' for both parking areas and roadways. Measure the standoff distance from the nearest point of the trash container or trash container enclosure to the closest point on the building exterior.

5.1.4 The open drive from the Fire Station's apparatus room to Skeel Avenue is considered mission necessary. Because of this classification, no gate or barrier will be required on the apparatus driveway to Skeel Avenue. All private vehicles access and parking must meet the required stand off distances.

5.2 Unobstructed Space:

5.2.1 Ensure that obstructions within 33' of the building do not allow for concealment from observation of explosive devices 6" or greater in height. This does not preclude the placement of site furnishings or plantings around buildings. It only requires conditions such that any explosive devices placed in that space would be observable by building occupants.

5.2.2 If outdoor mechanical and electrical equipment is located outside the "Unobstructed Space" area requirements it is not subject to antiterrorism construction requirements.

5.3 Building Overhangs:

5.3.1 Do not provide building overhangs with inhabited spaces above them where people could gain access to the area underneath the overhang.

5.4 Exterior Masonry Walls:

5.4.1 Un-reinforced masonry walls are prohibited for the exterior walls of new buildings. A minimum of 0.05 percent vertical reinforcement with a maximum spacing of 48" will be provided.

5.5 Windows and Glazed Doors:

5.5.1 To minimize hazards from flying glass fragments windows and frames must work as a system to ensure that their hazard mitigation is effective. These provisions apply even where minimum standoff distances are met.

5.5.2 Glazing: Use a minimum of ¼" nominal laminated glass for all exterior windows and glazed doors. The ¼" laminated glass consists of two nominal 1/8" glass panes bonded together with a minimum of a 1/32" polyvinyl-butylal (PVB) interlayer. For insulated glass units, use ¼" laminated glass inner and outer pane as a minimum.

5.5.3 Window and Glazed Door Frames: Provide window frames and mullions and sashes and door rails and stiles of aluminum or steel. Steel members may be designed using ultimate yield stresses and aluminum members may be designed based on 0.2% offset yield strength. Equivalent static design loads for windows and door members shall be 1lb. per square inch applied to the surface of the glazing. Frame and mullion deformations shall not exceed 1/160 of the unsupported member lengths. The glazing shall have a minimum frame bite of 3/8" for structural glazed window systems and 1" for window systems that are not structurally glazed. Equivalent static design loads for connections of the window or doorframe to the surrounding walls or roof, hardware and associated connections, and glazing stop connections shall be 10.8 lbs per square inch for glazing panels with a vision area greater than 10.8 square feet and 4.4 lbs per square inch for glazing panels with vision area greater than 10.8 square feet but less than or equal to 32 square feet. Loads shall be applied to the surface of the glazing and frame. Connections and hardware may be designed based on ultimate strength for steel and 0.2% offset yield for aluminum. Design supporting wall and roof elements and their connections based on their ultimate capacities. In addition, because the resulting dynamic loads are likely to be dissipated through multiple mechanisms, it is not necessary to account for reactions from the supporting wall or roof elements in the design of the remainder of the structure. Alternatively, use frames that provide an equivalent level of performance.

5.6 Exterior Doors:

5.6.1 All exterior doors into inhabited areas shall open outwards.

5.7 Roof Access:

5.7.1 Design the building to control access to roofs to minimize the possibility of aggressors placing explosives or chemical, biological, or radiological agents there. No roof access points should be required for this facility.

5.8 HVAC SYSTEMS:

5.8.1 Air Intakes: Air intakes to heating, ventilation, and air conditioning (HVAC) systems shall be located a minimum of 10 feet above the ground.

5.8.2 Provide a separate, dedicated HVAC system for the Communications Control Dispatch and Telecom/Computer Rooms.

5.8.3 Emergency Air Distribution Shutoff: Provide an emergency shutoff switch in each HVAC control system that can immediately shut down air distribution. Locate the switch (or switches) to be easily accessible by building occupants.

5.9 Equipment Bracing:

5.9.1 Mount all overhead utilities and other fixtures weighing 30 lbs or more to minimize the likelihood that they will fall and injure building occupants. Design all equipment mountings to resist forces of 0.5 times the equipment weight in any direction and 1.5 times the equipment weight in the downward direction. This standard does not preclude the need to design equipment mountings for forces required by other criteria such as seismic standards.

5.11 Mass Notification

5.11.1 Provide an emergency public address system throughout all occupied areas of the building for notification of occupants of threats.

PART 6 - MECHANICAL**6.1 DESIGN CONDITIONS**

6.1.1 General: The D/B Contractor shall be responsible for preparing detailed load calculations and equipment selections during the design process. D/B Contractor is responsible for preparing an independent complete analysis (calculations and equipment selection) and design (drawings and specifications) for the building mechanical systems. The D/B Contractor shall submit cooling loads calculations justifying that the cooling equipment is capable of maintaining indoor requirements at both Outdoor Summer conditions listed below. The design build contractor shall analyze the makeup air system and determine the required systems to meet the Energy Usage Budget (EUB). Makeup air units may require cooling, heating, and sensible and latent energy recovery to meet the EUB. Makeup air units are only required as necessary to meet EUB requirements or as required to make the mechanical system functional.

6.1.2 Fire Station Spaces:

- Indoor Summer: 75.0°F db/50%RH
- Indoor Winter: 70.0°F db/No humidification
- Outdoor Summer: 92.0°F db/74.0°F wb and for
- High humidity conditions: 88.0°F db/78.0°F wb
- Outdoor Winter: 1.0°F db

- Ventilation (Outdoor Air): 20 cfm/person in office areas
15 cfm/person in all other occupied spaces

6.1.3 Utility Spaces and Apparatus Room

- Indoor Summer: 92.0°F db (ventilation only, no air conditioning)
- Indoor Winter: 68.0°F db
- Outdoor Summer: 92.0°F db/74.0°F wb
- Outdoor Winter: 1.0°F db

6.1.4 Energy Usage Budget

- EUB: 45 MBH/square foot/year
EUB based on 24 hrs/day, 7 days/wk

6.1.5 Furnish and install access doors in walls and ceilings where access is required to conceal mechanical equipment, valves, controls and other devices.

6.1.6 Provide commissioning for the project per Uniform Facilities Guide Specifications (UFGS) requirements. Commissioning shall be the responsibility of the General Contractor and shall include all parties listed in the UFGS including but not limited to the Mechanical Contractor.

6.1.7 Provide a carbon monoxide detection system in all spaces that have combustion equipment.

6.2 HEATING WATER SYSTEM

6.2.1 The heating energy source will be the central district (70 psi) steam which is available during the heating season of 1 October through 1 May. Steam will enter the main mechanical room and be converted to low temperature hot water (LTHW). LTHW will be distributed to serve the heating requirements of the building. Provide a heat exchanger with a pumping system to convert the steam source to LTHW. Each pump shall have a standby that automatically functions when the primary pump fails to operate. A current sensor will be used to verify pump failure. The tube bundles that are integral with the heat exchangers shall be made of CuNi.

6.2.1.1 The steam to LTHW generator shall be sized/selected to allow future connection to the district high temperature hot water system (HTHW). The HTHW system operates at 400 psi and 350°F. The heat exchanger must be selected for steam in the tubes with an oversized condensate nozzle to allow for the future transition to HTHW. Provide HTHW branch piping mains insulated, capped and stubbed out 5'-0" beyond building for future connection. Allow space in mechanical room at HTHW piping termination for future valving and connection to heat exchanger.

6.2.1.2 Provide a chemical shot feeder in the LTHW system with appropriate system chemicals. Water treatment shall comply with the equipment component manufacturers requirements. Provide strainers at each pump.

6.2.2 The air handling units, unit heaters and the fan coil units shall be served by low temperature hot water (LTHW).

6.2.3 Provide recessed hydronic cabinet heaters at each entry and exit.

6.2.3.1 Cabinet heaters shall include a minimum 18 gauge galvanized steel enclosure with 12mm thick fibrous glass insulation and painted with corrosion resistant coating, coil assembly constructed of copper tubes and aluminum fins, 25mm throwaway filters, centrifugal direct drive fan assembly and motor controller. Provide removable panels or access doors for access to all interior components.

6.2.4 Steam and condensate piping shall be schedule 80 steel to allow for a future switchover to high temperature hot water. Select piping for the worst-case applied temperature and pressure conditions. Provide galvanic couplings for dissimilar materials.

6.2.5 Low temperature hot water piping shall be type K or L copper. Select piping for the applied temperature and pressure conditions. Provide galvanic couplings for dissimilar materials.

6.2.6 Piping shall be insulated with fiberglass and factory-applied cover.

6.2.7 Size piping for nominal water velocity of 5.0 fps, not to exceed 8.0 fps velocity nor exceed 6.0 ft per 100 ft of pipe pressure drop.

6.2.8 Provide a bubble tight gate valve in the steam supply and condensate return lines at the entry point to the main mechanical room. Provide a bypass with globe valve at this entry point.

6.2.9 Provide a full port ball positive shutoff valve in the LTHW supply and return lines at the heat exchanger. Provide a bypass with globe valve for each of these entry points.

6.2.10 Pumps

6.2.10.1 Provide centrifugal circulating pumps with motor, motor starter, and motor enclosure conforming to the appropriate NEMA standards. All circulating pumps shall be base mounted and installed on 4" housekeeping pad. Provide suction diffusers on all pumps. Pump motor efficiencies shall meet or exceed that listed for FEMP or ENERGYSTAR, or as listed in ASHRAE 90.1, whichever is greatest. Provide backup pump to operate in a lead/lag configuration with automatic startup of second pump upon first pump failure. Use current sensors to detect pump failures and alarm DDC system.

6.2.10.2 Select pumps so that the operating point on selected impeller curve will lie at or to the shutoff side of, and not more than 5 percent below, point of maximum efficiency for impeller.

6.2.10.3 Insulate pumps used for hot service with 2" thick preformed mineral fiber insulation. Insulate pumps by forming a box around pump housing, drive shaft, and piping. Apply insulation to inside surfaces of 20-gage galvanized sheet metal boxes having openings for drive shaft and pipes. Construct box to be easily disassembled to facilitate pump maintenance.

6.2.10.4 All pumps require suction strainers, shutoff valves on inlets and outlets and pressure gauges (inlet and outlet). Provide thermometers on inlets and outlets of each piece of heat-exchanging equipment and supply/return lines to each facility.

6.2.10.5 Align pumps to meet manufacturers written requirements.

6.2.10.6 Provide a calibrated balancing valve at each hydronic heating device.

6.3 CHILLED WATER SYSTEM

6.3.1 Provide an air-cooled chiller to supply chilled water to the building fan coil units and air-handling unit. The chiller pumps shall be constant volume. There shall be a standby pump that automatically functions when the primary pump fails to operate. Pumps shall be located in the main mechanical room.

6.3.2 System Requirements

6.3.2.1 Total system chilled water volume shall be a minimum of 7 gallons per ton of cooling. Provide an insulated, baffled storage tank, if required, to meet this requirement.

6.3.2.2 Provide a calibrated balancing valve at each hydronic cooling device.

6.3.2.4 Provide foundations and clearances per manufacturer's recommendations.

6.3.3 Air-Cooled Chillers

6.3.3.1 Air-cooled rotary screw, slide valve modulation type per ARI 550/590-98. Chiller efficiencies shall meet or exceed that listed for FEMP or ENERGYSTAR, or as listed in ASHRAE 90.1, whichever is greatest.

6.3.3.2 Provide a minimum of two (2) independent refrigerant circuits per chiller.

6.3.3.3 Provide copper tube, aluminum fins for condenser coils

6.3.3.4 Control panel with indication of discharge pressure and suction pressure, separate high pressure cutout with manual reset, separate low pressure cutout, low water temperature cutout with manual reset, compressor operating control and manual off-auto switch. Provide signal lights or other visual "failed" indications for high pressure, low pressure, and oil pressure protection devices. Provide a minimum two-minute time delay to prevent compressors from short cycling whenever stopped by safeties. Provide a control interface for remote monitoring of the chiller's operating parameters, functions and alarms from the DDC control system central workstation. As a minimum the following points shall be monitored and/or controlled from the DDC system: Entering and leaving chilled water temperature, Self-diagnostics, Operation status, Operating hours, Number of starts, Compressor status (on or off), Refrigerant discharge and suction pressure, Oil pressure, Flow status, Entering and leaving chilled water temperature set points.

6.3.4 Insulate chilled water equipment as suitable for the temperature and service in cellular glass or flexible unicellular insulation to fit as closely as possible to equipment. Provide vapor barrier as required for the application.

6.3.5 Chiller Start-Up and Operational Tests.

6.3.5.1 Prior to chiller start-up, flush piping systems and place water treatment systems in operation.

6.3.5.2 Place the chillers in operation under the direction of the manufacturer's representative. Record manufacturer's recommended readings

hourly for a period of not less than 3 days. Provide a detailed description of chiller start-up and operational tests.

6.3.6 Chilled water piping inside the buildings shall be schedule 40 steel or type K or L copper. Select piping for the applied temperature and pressure conditions.

6.3.7 Piping shall be insulated with cellular glass insulation and factory-applied cover.

6.3.8 Size piping for nominal water velocity of 5.0 fps, not to exceed 8.0 fps velocity nor exceed 6.0 ft per 100 ft of pipe pressure drop.

6.3.9 Select a 30% ethylene-glycol solution for the chilled water system. Piping and equipment shall be designed to be safe from freezing during winter operation. Draining the cooling system is not an acceptable freeze protection option.

6.3.10 Provide a full port ball type, positive shutoff valve in the chilled water supply and return lines at the entry point to the main mechanical room.

6.3.11 Pumps

6.3.11.1 Provide centrifugal circulating pumps with motor, motor starter, and motor enclosure conforming to the appropriate NEMA standards. All circulating pumps shall be base mounted and installed on 4" housekeeping pads. Provide suction diffusers on all pumps. Pump motor efficiencies shall meet or exceed that listed for FEMP or ENERGYSTAR, or as listed in ASHRAE 90.1, whichever is greatest. Provide backup pump to operate in a lead/lag configuration with automatic startup of second pump upon first pump failure. Use current sensors to detect pump failures and alarm DDC system.

6.3.11.2 Select pumps so that the operating point on selected impeller curve will lie at or to the shutoff side of, and not more than 5 percent below, point of maximum efficiency for impeller.

6.3.11.3 Insulate pumps used for chilled water service with 2 inches thick cellular glass insulation. Insulate pumps by forming a box around pump housing, drive shaft, and piping. Apply insulation to inside surfaces of 20-gage galvanized sheet metal boxes having openings for drive shaft and pipes. Construct box to be easily disassembled to facilitate pump maintenance.

6.3.11.4 All pumps require suction strainers, shutoff valves on inlets, check valve and balance valve (or triple-duty valve) on outlet and pressure gauges (inlet and outlet). Provide thermometers on inlets and outlets of each piece of heat-exchanging equipment and supply/return lines to each facility.

6.3.11.5 Align pumps to meet manufacturers written requirements.

6.4 AIR HANDLING SYSTEMS

6.4.1 General

6.4.1.1 The heating coil section and outdoor piping shall be designed to be safe from freezing during winter operation.

6.4.1.2 The cooling coil section and outdoor piping shall be designed to be safe from freezing during winter operation. Draining the chilled water system is not an acceptable freeze protection option.

6.4.1.3 Fans shall be AMCA 210 certified, with AMCA seal.

6.4.1.4 Provide louver with bird screen on outdoor inlets and outlets.

6.4.2 Independent HVAC Unit for Communications Control Room, Dispatch Room and Telecom/Computer Room

6.4.2.1 Provide self-contained computer room air conditioning unit (CRACU) unit designed, factory assembled and factory tested. Unit shall be UL or ETL listed for computer room application. Unit shall include room cabinet and frame, floor stand, fan section, filter section, cooling coil, electric reheat coil, self-contained humidifier, compressors, remote air-cooled condenser(s), controls, and interconnecting piping to the CRACU.

6.4.2.2 Provide microprocessor control system integral with unit including electronic control center, control valves, sensors, wiring, and other appurtenances for workable system. Provide access panel or door in front of unit. Isolate electronic control center from conditioned airstream to allow service while system is in operation. Provide control sensors in unit for cooling, heating, dehumidifying, and humidifying. High-voltage circuits in system shall have individual leg overload protection. Starters, contactors, and relays shall be controlled by 24 volt control circuit. High-voltage circuit components shall be protected by safety lock, dead-front panel. Mount nonautomatic, molded-case circuit breaker in high-voltage section of electrical panel. Operating mechanism shall prevent access to high-voltage electrical components until switched to "OFF" position.

6.4.2.3 Provide a controls interface on CRACU to enable the DDC system to monitor the following operating parameters and alarm conditions: high and low computer room temperature, relative humidity, CRACU status.

6.4.3 Double Wall Air Handling Unit

6.4.3.1 The air-handling unit shall be located in the mechanical room.

6.4.3.2 Air-handling unit shall be factory fabricated triple-deck multizone style, double wall modular type and include heating and cooling coils and return air bypass deck, galvanized coil casings, stainless steel drain pans, valve and piping package, minimum ventilation air intake arrangement that allows for constant volume outdoor air intake and full economizer operation, air filters, fans, motors, motor disconnect switches, and casing. Each unit shall be fastened securely to the building structure.

6.4.3.3 Unit insulation shall be 2 inches thick, 1.5-lb/ft³ density sandwiched between two sheets of solid galvanized steel (minimum 18 gauge outer and 20 gauge inner). Coils shall be copper tube, aluminum fin type provided by the air handling unit manufacturer.

6.4.3.4 Construct casings of steel, galvanized steel, or aluminum on channel base coated externally with manufacturers standard finish. Provide access doors for inspection and access to internal parts.

6.4.3.5 Dampers shall be premium low leakage with galvanized steel double-skin airfoil design blades, vinyl bulb blade seals and stainless steel jamb seals in

galvanized frame, in parallel or opposed blade arrangement with non-slip keyed connecting rods and linkages. Maximum leakage rate shall be 2 cfm/ft² at 1 in. wg differential pressure.

6.4.3.6 Supply Fan and Return/Relief Fan Sections: Centrifugal fans with V-belt drive motor, adjustable, with belt guards for external mounted motors. Fan bearings shall have a minimum average life of 200,000 hours at design operating conditions.

6.4.3.7 Vibration Isolation: For the entire fan, motor, and drive assembly, provide vibration isolators to meet the NC criteria for each space.

6.4.3.8 Filter Sections: Protect permanent holding frames with rust inhibitor coating. Provide visible identification on media frames showing model number and airflow direction. Provide a means of sealing the filter bank to prevent bypass of unfiltered air. Performance shall be determined in accordance with ASHRAE 52. Provide included-type manometers for filter sections.

6.4.3.9 Replaceable Air Filters: UL 900, Class 2, those which, when clean, burn moderately when attached by flame or emit moderate amount of smoke, or both with throwaway frames and media. Provide 4 in. nominal thickness, with average efficiency of 60-65% an arrestance of 97% and a minimum MERV of 11 when tested according to ASHRAE Standard 52.1 and 52.2.

6.4.3.10 Heating and Cooling Coils: Provide removable coils per ARI 410 with access to one side. Enclose heating and cooling coils in casing with headers and return bends fully contained within casing. Cooling coils shall have stainless steel drain pans with piping connections to remove condensate. Seal coils to casing to prevent leakage of air around coils.

6.4.3.11 Unit shall include a discharge sound attenuator as required to maintain NC 35 in occupied spaces.

6.4.3.12 Provide zoning such that rooms in the same zone are similarly loaded and have the same exposure/envelope characteristics. Locate the zone thermostat in an area representative of the rooms in the zone. Size zones to minimize the range of airflows across zones. Provide a minimum of nine (9) zones with additional zones as required to balance the zone airflow range. Provide scheduling/reset control of hot deck and cold deck temperatures to avoid wide fluctuations in control.

6.4.3.13 Provide a heat recovery wheel or precooling coil for the outdoor airstream to provide dehumidification during mild, muggy weather.

6.4.4 Mechanical and Electrical Room Heat and Ventilation

6.4.4.1 Heat and ventilate mechanical and electrical equipment rooms as appropriate to maintain temperature. Use unit heaters with LTHW as heating source.

6.4.4.2 Unit heaters shall include three-position (on-off-auto) selector switch and thermostat control.

6.4.5 Ductwork Design

6.4.5.1 Rigid Ductwork: Except as allowed or required herein, all ductwork shall be constructed of galvanized steel in accordance with SMACNA Duct Construction Standards, with all seams and joints sealed with duct sealer.

Sheet metal fitting elbows shall have an r/d of 1.5; other fittings shall be made to allow for low-pressure drop.

6.4.5.2 Flexible Ductwork and Connectors: Flexible duct may be used only for connections to air distribution devices to adapt to minor offsets. Flexible duct shall be UL 181 listed and in accordance with SMACNA DCS. Provide the minimum length required to make connections, but not greater than 5 feet, with not more than 3 feet unsupported length. Bends shall be at a radius to diameter ratio of 1.5, minimum. Provide flexible connectors between fans and ducts. Flexible ductwork insulation shall be ASTM C 553 Type 1, Class B-2, 1 in. thick, 0.75 lbs/ft³ density insulation.

6.4.5.3 Insulation: Insulate rigid ductwork with fiberglass insulation; insulation shall have a factory-applied cover. Insulation in exposed areas including equipment rooms shall be rigid board type and insulation in concealed areas shall be flexible blanket type. All supply, return and outside air ductwork shall be insulated. Ducts subject to condensation shall be insulated and provided with vapor seal.

6.4.5.4 Sizing: Size ductwork using equal friction criteria. Size supply air ductwork to not exceed 0.10" H₂O/100 feet of duct pressure drop. Size return, outdoor, relief and exhaust ductwork to not exceed 0.08" H₂O/100 feet of duct pressure drop. Air velocity should not exceed 1575 fpm velocity.

6.4.6 Inline centrifugal exhaust fans: Provide centrifugal V-belt fans in housings. Fan bearings shall have a minimum average life of 200,000 hours at design operating conditions. Mount motors out of air stream. Provide flexible duct connectors and spring type vibration isolation for fan assembly.

6.4.7 Miscellaneous Exhaust Systems: Provide a ducted exhaust system to serve the restrooms, showers and janitor's closet. Provide separate ducted exhaust systems to serve other areas requiring exhaust as defined in the fire station design guide. One system shall serve the protective clothing lockers, protective clothing laundry and disinfecting facility. Another exhaust system shall serve the physical fitness room, physical therapy room, vending and similar areas. Provide another exhaust system to serve the mechanical/electrical room. The exhaust air shall be used for energy recovery in the facility if required to meet the EUB. Provide accessible dampers for balancing of the systems where a central exhaust is used.

6.4.8 Apparatus Room Exhaust: Provide ventilation of vehicle exhaust from Apparatus room to comply with NFPA 1500. Provide ductwork to pull exhaust from the floor level as well as the ceiling. The Base Fire Department has determined that a direct capture exhaust system is not acceptable. Provide automatic interlocked means for makeup air. Provide a minimum of two exhaust fans with variable frequency drives for zoned control.

6.4.8.1 Provide an electronic, fully automatic carbon monoxide (CO) and diesel fume detection and control system with both infrared CO and electrochemical cell NO₂ sensors with remote sampling capability, filters, transmitters, self-diagnostics, local and remote alarms, building DDC system supervision and controller for intermittent, modulating operation of Apparatus room ventilation equipment (including control of open-closed makeup air dampers) based on pollutant concentration with thermostat control and manual override for summer ventilation. Exhaust fans shall start at half-speed (adjustable) in response to any of the following conditions: a 35 ppm CO level measured in the Apparatus room, a 1 ppm NO₂ level measured in the Apparatus room, based on thermostat setpoint in Apparatus room, building DDC signal to start or manual start at

control panel. Fan speed shall be modulated proportional to the increase in Apparatus room contaminant concentration levels up to the alarm setpoint, 100 ppm CO and 3 ppm NO₂ (adjustable setpoint and time delay function).

6.4.9 Kitchen Hood Exhaust: Provide a filter type hood and ducted exhaust system to serve the kitchen appliances. The exhaust air shall be ducted to outdoors. Kitchen hoods shall completely cover the cooking equipment and overhang a minimum of 6 in on each end and 12 in front of the equipment. The hoods shall be UL listed per UL 710, NSF approved, pre-engineered and factory fabricated in accordance with the hood manufacturer's listing procedure and NFPA 96. Hoods and ductwork shall be constructed of 18-ga stainless steel with welded, liquid tight seams.

6.4.9.1 Provide a UL listed, wet chemical, Class K, automatic fire suppression system for hoods, ducts and cooking appliances. Provide Schedule 40 piping (chrome plated or stainless steel), signal devices, release assembly, detectors, fusible links, nozzles, blow-off caps, agent cylinders, liquid tight fittings, remote manual pull station, auto fuel cut-off and other appurtenances necessary for totally integrated, operational system. Design, manufacture and install in accordance with NFPA 17A, NFPA 96 and UL 300. Provide automatic mechanical or electrical fuel shut-off and double-throw micro switch for activation of a shunt trip breaker for electric power shut-off for appliances protected. Fuel shut-off to operate upon activation of system.

6.4.9.2 Exposed piping is not acceptable, with the exception of appliance drops.

6.4.10 Dryer exhaust: Provide a separate ducted exhaust system to serve each clothes dryer. The exhaust air shall be ducted to outdoors. Ducts shall be a maximum 20 ft long with no more than three right angle elbows (with minimum radius of 6 in) and have a maximum vertical run of 12 ft. If total equivalent length exceeds the maximum, provide a booster fan interlocked to operate when the clothes dryer is running. The ducts shall be rigid aluminum or stainless steel with exterior wall cap and back draft damper.

6.4.10.1 Means shall be provided for cleaning out the entire length of dryer exhaust vent ducts. Dryer exhaust vents shall not run through non-accessible spaces.

6.4.10.2 Provide a separate ducted exhaust and makeup air system to serve the personal protective gear dryer.

6.4.10.3 Dryer vents shall not exhaust near outdoor air intakes, air conditioning condensing units, entry doors or patios.

6.4.11 Provide factory-finished grilles, registers, and diffusers constructed of steel or aluminum. Exterior and exposed edges shall be rolled, or otherwise stiffened and rounded. All registers and diffusers shall be provided with factory-fabricated volume dampers, unless individually served by a dedicated branch duct having a manual volume damper at the branch takeoff.

6.4.12 Outdoor air intake and exhaust louvers: Shall be extruded aluminum and designed to prevent the entry of rain or snow. Intakes shall be a minimum of 10.0 feet from the nearest exhaust outlet and exterior mechanical equipment. Intakes shall be located to prevent pulling in vehicle and plane exhaust emissions. Provide bird screens at all louvers.

6.4.13 Ductwork: Where routed exposed shall interface with the architecture in an aesthetically pleasing manner.

6.4.14 Dampers: For low-pressure rectangular duct systems, use 45-degree entries into branches from the main duct. Provide manual volume dampers in each branch take-off from the main duct. Provide manual volume dampers in each branch take-off from the main duct to control branch air quantity. Dampers shall conform to SMACNA Duct Construction Standards.

6.4.15 Fire Dampers: Provide in accordance with UL 555. Fire dampers shall be dynamic type rated for closure against a moving air stream.

6.4.16 Return air plenums: Are not permitted in any areas of the building.

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6.4.17 Supplemental Heat: For the zones that serve sleeping rooms and shower areas, provide electric duct heating coils to maintain design temperature when central steam is not available. Derate coils based on duct velocity. Provide duct access for cleaning coils without removing heater. Provide controls to individually enable each zone coil when hot water heat is not available.

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6.5 APPARATUS ROOM HEATERS

6.5.1 Provide gas-fired radiant heaters complying with ANSI Z83.6 and labeled by AGA. Heaters shall have power gas burners with electronic spark ignition, combustion air ducted directly from outside and power vacuum vented to the outdoors. Polished aluminum reflectors shall be shaped to control radiation for uniform intensity at floor level and provide 100% cutoff above centerline of tubing. Coordinate heater locations with items that may be sensitive to the heat generated, providing deflectors/shields as required.

6.5.2 Provide a building zone controller to accommodate a minimum four (4) temperature zones, vacuum pumps, temperature sensors, control transformer(s) and fire safety shutoff/interlock. Controller shall have seven-day clock and battery backup, security protection via password, night setback with ramp up optimization and remote monitoring by building DDC system.

6.5.3 Provide condensate piping to floor drain.

6.6 NOISE CRITERIA

6.6.1 General building mechanical systems shall be designed to an NC 35 for all occupied spaces.

6.7 CONTROL SYSTEM

6.7.1 The building shall have a Direct Digital Controls (DDC) system with electric or electronic operators for dampers and valves. System shall be compatible with and connected to the existing base system via the base LAN. Use wall mounted temperature sensors with a +/- 3 deg occupant offset adjustment. Coordinate locations of sensors and controllers with furniture.

6.7.2 DDC system shall monitor and control all HVAC and Plumbing equipment in the buildings. Meters shall be provided and monitored for steam, gas and electric. Provide monitoring for filters and energy recovery wheel pressure drops.

6.7.3 Controls shall be STAEFA or Johnson METASYS and be compatible with and connected to the base system.

6.8 PLUMBING

6.8.1 Domestic Cold and Hot Water

6.8.1.1 Provide a domestic water line to the building mechanical room. Provide reduced pressure type backflow preventer on the domestic service. A pressure-reducing valve assembly (with valved bypass) shall be provided in the cold water main where system pressures exceed 60 psig.

6.8.1.2 Above ground domestic water piping shall be type L copper.

6.8.1.3 Size piping for nominal water velocity of 5.0 fps, not to exceed 8.0 fps velocity nor exceed 6 ft/100' of pipe pressure drop.

6.8.1.4 Insulate domestic hot water supply and return piping with mineral fiber insulation. Insulate domestic cold-water piping with cellular glass insulation. All piping subject to condensation shall require a vapor barrier.

6.8.1.5 Provide full port ball shut off valve at each branch takeoff to toilet rooms, bathrooms, janitor's closets, kitchen and apparatus room. Provide valves at each water heater. Provide separate valved branch to 3" truck fill line in the Apparatus Room.

6.8.1.6 Water Heater: An industrial, high recovery, gas water heater will furnish domestic hot water for the building. Storage and recovery shall be sized to satisfy the shower load for all occupants within a 45-minute period. Hot water storage shall be in a glass-lined storage tank with an integral insulating jacket (R=5) and appropriate pumping system to keep the tank hot. Domestic water will be stored at 140°F. The water heater efficiency shall be in the upper 25% of what is available. The water heater will be located in the building mechanical room and water will be circulated to serve the entire building.

6.8.1.7 Provide recirculated domestic hot water system to maintain hot water to fixtures. Lavatories, showers and kitchen sinks shall be no farther than 20 feet from hot loop.

6.8.1.8 Water Softening: Treatment equipment shall be installed for domestic water. Local water has a hardness value of approximately 21 grains per gallon. Water softening equipment will consist of two or more resin exchange softener units, a regeneration brine tank utilizing common salt (NaCl) for regeneration of the softener exchange material, storage tank to supply peak demand, interconnecting piping, meter, pump, accessories and controls for automatic regeneration based on water usage.

6.8.1.9 Provide freeze proof wall hydrants at 100 feet intervals on all exterior walls.

6.8.1.10 Provide reduced pressure backflow preventer, meter and pressure regulating valves on the domestic water makeup to the hydronic heating and cooling systems.

6.8.1.11 Carbonated beverage dispensers will not be provided at the serving line on this project.

6.8.2 Roof Drainage

6.8.2.1 Roof drainage will be by external gutters and down spouts. Downspouts should be tied into storm drainage line.

6.8.3 Sanitary System

6.8.3.1 Provide a soil, waste and vent system for the toilet rooms, bathrooms, janitors closet, floor drains, kitchen equipment and other plumbing requirements in the buildings. Tie into the site sanitary system.

6.8.3.2 Sanitary system piping shall be either service weight cast iron or DWV copper. Exposed piping shall be chrome plated. Insulate exposed drains to fixtures for the handicapped and water cooler drains with insulation with factory-applied cover.

6.8.3.3 An oil separator is not required for the project. Vehicle maintenance will not be performed in the Apparatus Room. Protective clothing laundry waste shall go directly to the sanitary system.

6.8.3.4 Provide magnetic covers for floor drains and trench drains in the Apparatus Room.

6.8.4 Plumbing Fixtures

6.8.4.1 Install fixtures as required in the room matrix schedule and where required by the Fire Station Design Guide.

6.8.4.2 Provide a floor drain with trap primer in each of the spaces as defined in the building-programming matrix.

6.8.4.3 Provide new vitreous china, nonabsorbent, commercial quality fixtures free of cracks, blisters, thin spots or other flaws. Fixtures for the physically handicapped shall be in accordance with ADA requirements.

6.8.4.4 Faucets and trim shall be cast brass with chrome finished and ceramic disk valve technology. Faucets shall be provided with all-metal waterways.

6.8.4.5 Carriers shall be provided for wall mounted water closets, lavatories, and water coolers.

6.8.4.6 Provide a washer box for clothes washers.

6.8.4.7 Provide a cleanout (full diameter of piping it is connected to) for each plumbing fixture.

6.8.5 Plumbing Fixtures

6.8.5.1 Water closets: shall meet ADA, ASME A112.19.2M, shall be white, vitreous china, wall hung (with chair carrier), siphon jet, elongated bowl, top spud, and shall use 1.5 gals (maximum) per flush. Seat shall be white plastic open front. Flush valve shall be diaphragm type non-hold-open integral solenoid operator, back check angle control stop, vacuum breaker, infrared sensor operated valve with solid state electronic circuitry, include 24-volt transformer.

6.8.5.2 Flush Valve Type Urinals: ADA, ASME A112.19.2M, white vitreous china, wall-mounted (with chair carrier), wall outlet, siphon jet, integral trap, extended side shields. Water flushing volume of the flush valve and urinal combination shall not exceed 1.0 gals (maximum) per flush. Flush valve shall be diaphragm type non-hold-open integral solenoid operator, back check angle control stop, vacuum breaker, infrared sensor operated valve with solid state electronic circuitry, include 24-volt transformer.

6.8.5.3 Water Cooler shall meet ADA, be dual height unit, ARI 1010, wall mounted bubbler style with concealed chair carrier, air cooled condensing unit, 7.6 gph minimum capacity, stainless steel splash receptor and steel cabinet. Bubbler shall be controlled by push bar or touch pads.

6.8.5.4 Service Sink shall be pre-cast terrazzo floor mounted mop sink with stainless steel cap and 3 inch drain. Size shall be 24 in x 24 in x 12 in high. Faucet shall be chrome plated, wall mounted, copper alloy faucet using ceramic disc technology, with hose connection, vacuum breaker, and pail hook.

6.8.5.5 Lavatories shall be white, vitreous china, self-rimming type, minimum dimension 20 in x 17 in, installed in floor-mounted vanity. Faucet shall be sensor operated electronic type for tempered water including solenoid valve and transformer, have 4 inch centers, all cast brass one piece body and waterways; ceramic disc valve cartridge; adjustable hot limit safety stop; w/ pop up drain; 2.2 gpm flow restrictor (at 60 psi), chrome finish. Provide supply pipe with loose key stops and 17-ga-cast brass P trap with cleanout and tailpiece, chrome finish.

6.8.5.6 Kitchen sink shall be 63 in x 22 in x 10 in, 18 ga. 302 stainless steel, triple bowl, self rimming, bright satin finish, sound attenuating coating with six (6) faucet holes. Provide two (2) faucets with single lever control, metal lever handle, all brass and copper waterways; cast brass spout, ceramic disc valve cartridge; 2.5 gpm flow restrictor, w/o spray, chrome finish. Provide basket strainers, 17 ga. cast brass P-traps with cleanout and tailpiece. Supply pipe with loose key stops, chrome finish. Garbage disposal shall be 1.0 HP, stainless steel grinder chamber, permanently lubricated upper and lower bearings, quiet operation, and overload protection with manual reset.

6.8.5.7 Shower shall be 36 in x 36 in x 82 in minimum slip resistant bottom surface, integral toiletry/soap shelves, dome and grab bar one-piece acrylic with fiberglass reinforcement. Faucet shall be single lever control, pressure balancing, lever handle, all brass construction, cast brass diverter spout, ceramic disc valve cartridge, adjustable hot limit safety stop, check stops, 9.5L/s flow restrictor for shower, chrome finish. Provide 17 ga. cast brass P-trap.

6.8.5.8 Washer box shall be fabricated from 16-ga steel with epoxy finish. Unit shall have 1/2 in hot and cold water supply valves and 2 in. drain.

6.9 FIRE PROTECTION

6.9.1 Sprinkler Systems: Perform fire-hydrant flow test according to NFPA 13. Use results for system design calculations.

6.9.1.1 The building shall be fully sprinkler protected in accordance with NFPA 13 except the following shall be used as a minimum design requirement. Use a minimum density of 0.15 gpm/sf over the hydraulically most demanding 3,000 sf of floor area with a 500-gpm exterior hose stream.

6.9.1.2 Sprinklers shall be located so as not to protect over 130 sf area. Extended coverage heads are not acceptable. Where the Code allows a choice between quick response heads and standard response heads, the contractor shall use quick response heads. Use concealed type heads in areas with finished ceilings. Locate sprinkler heads in a consistent pattern with ceiling grid, lights, and air supply and return devices. Sprinklers shall be located in the center of the ceiling tile when installed in areas with lay-in ceilings.

6.9.1.3 Valves with tamper switches and flow switches shall be provided.

6.9.1.4 Provide a fire service water line with OS&Y valve to the building apparatus room. Provide a double check type backflow preventer and an alarm check valve. Provide adequate space around riser and check valves so that riser and check valves are easily serviced and locate in the Apparatus Room to allow for use in training firefighters. An exterior wall hydrant with splash block and OS&Y valve shall be provided to allow testing of backflow preventer at design flow as required by NFPA 13.

6.9.1.5 All bathrooms shall be fully sprinklered.

6.9.1.6 Where the possibility of freezing exists, dry pipe sprinkler protection shall be provided if required to provide complete protection.

6.9.1.7 Piping

6.9.1.7.1 Locate all piping so to eliminate risk of freeze damage. No piping shall be exposed to exterior conditions. All piping in areas with finished ceilings shall be concealed.

6.9.1.7.2 Piping shall be per NFPA 13 except as modified herein. Steel piping shall be Schedule 40. Sprinkler pipe and fittings shall be metal.

6.9.1.8 Connections to the building fire alarm system and electric alarm bell shall be made.

6.9.1.9 Provide concrete splash blocks at all drain discharge points subject to high water velocities, such as the main drain and inspector's test connection discharges.

PART 7 - ELECTRICAL

7.1 EXTERIOR LIGHTING

7.1.1 Parking Lot Lighting: Provide parking lot lighting with a general illumination level of 1 foot-candles. Lighting poles shall be spaced to provide a uniform lighting pattern and shall not obstruct traffic or parking spaces. Poles shall be 30 ft. aluminum. Light fixtures shall be sharp cutoff, pole mounted, and 19 inch square in extruded aluminum and finished in an architectural anodizing. Lamp source shall be metal halide. Control shall be via a lighting contactor with photocell and a Hand-Off-Auto switch.

7.1.2 Security / Egress Lighting: Provide building security / egress lighting at all entrances and exits from the building. Appropriate lighting levels shall be provided for exterior security camera locations. These fixtures will be provided for site lighting to ensure occupants have a means of safely moving between outdoor spaces. All fixtures shall be architectural type, selected to be compatible with the building architecture. Control shall be via a lighting contactor with photocell and a Hand-Off-Auto switch.

7.1.3 Utility Lighting: Provide security and maintenance lighting for outdoor mechanical/electrical courtyards. Lighting shall provide sufficient lighting to inspect equipment at night. A weatherproof switch located within the mechanical courtyard shall control lighting. Lighting fixture shall be a die-cast aluminum housing wall pack with a polycarbonate refractor with an incandescent lamp source.

7.1.4 D/B Contractor shall relocate existing street lighting and extend existing circuits on Skeel Avenue for new proposed driveway.

7.1.5 D/B Contractor shall provide electric and control wiring for new flashing emergency light over Skeel Avenue.

7.2 INTERIOR POWER

7.2.1 Main Electrical Service:

7.2.1.1 Provide a Service Entrance Rated Main Distribution Panel, with main breaker in the building Electrical Room. Service Entrance Panel shall be wall mounted, 480Y/277 volt, three phase.

7.2.1.2 Provide a minimum of 20% spare capacity and circuit breaker space in the Service Entrance Panel.

7.2.1.3 Transient Voltage Surge Suppression (TVSS): TVSS shall be provided on the main bus of the Service Entrance Panel.

7.2.2 Electrical Distribution System

7.2.2.1 Provide separate panel(s) for power, lighting and mechanical load requirements.

7.2.2.2 Provide a step down transformer(s) 480 volt primary to feed required equipment voltages. Electrical power panels and circuits shall be provided as required to meet the electrical system requirements.

7.2.2.3 Provide Square 'D' energy meter for incoming electrical service. Meter to have compatible connection to the Base Energy Management Center System (EMCS).

7.2.2.4 Provide provisions for a future Uninterruptible Power Supply (UPS) System with 15 minute battery back-up to support full operation of the Data Automation System, Alarm Communication Room, Electric Lock System, Radio Dispatch System, Fire Alarm Monitoring System, Intrusion Detection System (IDS), 911 System, Land Mobil Radio Equipment and all communication closets equipment. These provisions shall include providing a 120/208 volt, 3-phase, 42 pole, 100-amp panel board with 30 single pole 20 amp circuit breakers in the Main Electrical Room for future connection of all communications systems equipment. From this panel provide a vertical electrical surface mounted trough (flush with wall) to below raised floor.

7.2.2.5 Provide Surge protection and clean power for all computer room equipment in the Telecommunications/Computer Room

7.2.3 Electrical Equipment and Devices

7.2.3.1 Devices and equipment shall conform to the following regulatory documents:

- IEEE C37.13 Low-Voltage AC Power Circuit
- NEMA 250 Enclosures for Electrical Equipment (1000 Volts Maximum)
- UL 489 Molded-Case Circuit Breakers and Circuit-Breaker Enclosure
- NEMA ST 20 Dry-Type Transformers for General Applications
- NEMA WD 1 General Requirements for Wiring Devices

7.2.4 Wiring Requirements

7.2.4.1 All conductors shall be copper. Branch circuit conductors shall not be smaller than No. 12 AWG.

7.2.4.2 Conductors for branch circuits of 120 Volts exceeding 100 feet in length from panel board to center of load shall be not smaller than No. 10 AWG. Conduit sizes are based on the use of type THHN insulation for conductors smaller than N0. 1/0 and type THWN for cables larger than No. 1/0.

7.2.4.3 Conductor identification shall be provided within each enclosure where a tap, splice or termination is made.

7.2.4.4 Provide a separate green ground conductor in each conduit.

7.2.4.5 All conductors shall be in conduit. EMT shall be use except where subjected to physical damage, then use Rigid Steel conduit.

7.2.4.6 Provide Arc-fault protection circuit breakers for all bedroom circuits.

7.2.5 Identification Requirements

7.2.5.1 Provide identification nameplates on the following equipment:

- Panel boards
- Motor Starters
- Safety Switches
- Transformers
- Equipment Enclosures
- Motors
- UPS
- Generator Set
- Automatic Transfer Switch

7.2.6 Panel boards

7.2.6.1 Provide a minimum of 20% spare bus capacity and circuit breaker space in all panel boards.

7.2.6.2 All panel boards shall be provided with copper busses and meet the AIC capacity required as demonstrated in the short circuit study performed by the Contractor. All new panels shall be bolt-on circuit breaker type and equipped with main breakers.

7.2.7 Receptacles

7.2.7.1 Receptacles shall be provided for general use and special equipment as necessary.

7.2.7.2 Provide one outlet on each wall of bedrooms.

7.2.7.3 Provide special power outlets and circuits for all user furnished equipment.

7.2.7.4 Provide a 120 V, self-retracting drop cord receptacle in Aperatus bay between each vehicle.

7.2.7.5 Receptacles: General use - 'Specification' grade, 20A, 120 V, grounding type meeting NEMA Standard WD-1 and Federal Specifications W-C-596.

7.3 LIGHTING

7.3.1 Fixtures

7.3.1.1. Fixtures Schedule: See Electrical Matrix for type locations.

- A 6 inch recessed fluorescent downlight with 18 watt, triple tube compact fluorescent. Ballast housing formed of steel, reflector aluminum positioned to duct light downward fixture shall have Fresnel glass lens and white trim ring. UL listed for wet locations.
- B 52 inch five blade ceiling fan with incandescent light kit and 3-speed fan control. Finish shall be antique brass. Blade shall be wood finish. Light kit shall be 200mm diameter round globe in white opal glass.
- C 2 feet x 4 feet fluorescent unit with 3-32 watt T8 lamps and a 1/8" thick smooth bottom prismatic acrylic lens. Body made of 20 gauge (min) cold rolled steel, painted after fabrication with baked on white enamel with an 89% reflectivity (min). Body shall be welded to form a rigid assembly.
- D 2 feet x 4 feet recessed fluorescent unit with 3-32 watt T8 lamps and a 3" deep 18 cell semi-specular parabolic-shaped louver. Body made of 20 gauge (min) cold rolled steel, painted after fabrication with baked on white enamel with a lengthwise shielding of 23 degrees and a crosswise shielding of 41 degrees (min). Body shall be welded to form a rigid assembly.
- E 1 foot x 4 feet fluorescent unit with 2-32 watt T8 lamps and a 1/8" thick smooth bottom prismatic acrylic lens. Body made of 20 gauge (min) cold rolled steel, painted after fabrication with baked on white enamel with a lengthwise shielding of 23 degrees and a crosswise shielding of 41 degrees (min). Body shall be welded to form a rigid assembly.
- F Two lamp industrial fluorescent unit suspended by chain hangers. Reinforced 20 gauge steel channel with provisions for tong type sliding hangers. Channel shall be finished in baked on white enamel both inside and outside.
- G Recessed incandescent downlight fixture. Die cast aluminum heat sink/housing with porcelain medium base socket. Reflector shall be specular hard coated aluminum at least 1.22mm thick. Multigroove bottom cone shall provide 45 degree cutoff and be easily removable to facilitate relamping. Plaster flange shall be die cast aluminum with a polycarbonate trim ring to cover rough ceiling opening.
- H 4 ft under cabinet, direct fluorescent unit with 2-32 watt T8 lamps and a 3.125mm thick 100% virgin clear acrylic plastic with an array of prismatic elements on one surface and smooth on the other.

Body made of 20 gauge (min) cold rolled steel, painted after fabrication with baked on white enamel. Seams shall be sealed or gasketed to prevent light leaks.

I 4 feet, one lamp bare fluorescent strip.
Die formed channel and cover of 20-gauge steel finished both inside and out with baked on white enamel.

J 2 feet x 4 feet fluorescent unit with 4-32 watt T8 lamps and a 1/8" thick smooth bottom prismatic acrylic lens.
Body made of 20 gauge (min) cold rolled steel, painted after fabrication with baked on white enamel with an 89% reflectivity (min). Body shall be welded to form a rigid assembly.

7.3.1.2 Parabolic fluorescent, lay-in fixtures in office area and conference rooms.

7.3.1.3 Lensed recessed troffers shall be provided in general spaces with ceilings.

7.3.1.4 Provide industrial strip fixtures with wire guard in general areas without ceilings such as, electrical, mechanical rooms.

7.3.1.5 Fixtures shall be equipped with high-Frequency electronic ballasts.

7.3.1.6 Fixtures shall use T-8 lamps with a correlated color temperature of 4100K and have a minimum Color Rendering Index (CRI) of 75.

7.3.1.7 Fixtures shall be switched in each individual room by wall switches at the entry door to the room.

7.3.1.8 Exit signs shall have lettering on an opaque background. Internally illuminated signs shall be light emitting diode (LED) type.

7.3.1.9 Provide a combination of parabolic lay-in fluorescent fixture and incandescent down lights in conference rooms. Incandescent fixtures shall be dimmed.

7.3.1.10 Provide incandescent down lighting and recessed lensed fluorescent in Day Room downlight fixtures shall be on dimmer switches.

7.3.1.11 Provide a combination of lens lay-in fluorescent fixture and incandescent down lights in sleeping rooms. Incandescent fixtures shall be dimmed. Center lamp of 3-lamp lay-in fluorescent fixture shall be connected to the All Call Intercom System in the Dispatch Center for visual notification during Dispatch sequence to alert firefighters of a response.

7.3.1.12 Provide residential incandescent lighting fixture over the bathroom mirror in private bathrooms.

7.3.1.13 Lay-in light fixtures connected to outlet box with 3/c #16 Armored Cable whip not to exceed 6 ft in length.

7.3.1.14 Illuminated exit signs and emergency lights shall be provided by self-contained emergency battery units for all emergency exits and passageways as required by the NFPA Life Safety Code No. 101.

7.3.2 Light Levels

7.3.2.1 Light levels shall be as recommended in the Illuminating Engineering Society of North America Handbook. Refer to room Matrix on for minimum foot-candle lighting levels.

7.3.3 Switches

7.3.3.1 Lighting switches - wall mounted - 'Specification' grade - single pole-3-way or 4-way as required-meeting Federal Specifications W-S-896- Ivory color

7.3.3.2 Dimmer switches - wall mount 'Specification' grade - Rating to match load applied.

7.3.3.3 No occupancy sensors to be provided.

7.4 SPECIAL SYSTEMS

7.4.1 Fire Alarm System

7.4.1.1 The fire alarm system will be an addressable intelligent system whose fire alarm control panel is located at the buildings main entrance. Key panels to a Master "B" keyway per Base Facility Standard. Provide connection from Knox Box tamper switch to FACP. Provide fire alarm control panel with a fan shutdown bypass switch. When operated, the switch will bypass the automatic fan shutdown capabilities of each zone. Operation of the switch shall cause the operation of the system trouble signal.

7.4.1.2 Provide addressable manual stations at each exterior man door for all common spaces. Keys shall match that of the fire alarm panel cabinet

7.4.1.3 Provide photoelectric type duct smoke detectors in all air-handling units as required by NFPA 90A. Activation of any duct smoke detector shall cause shut down of all air handler units in the associated floor or zone. Duct detector shall utilize sampling tubes that extend the width of the duct. Provide manometer testing of all housings to demonstrate satisfactory airflow.

7.4.1.4 Provide single station (photoelectric) line voltage powered smoke detectors with battery back up in each sleeping room. All detectors in each module shall be tandem interconnected for simultaneous operation such that a detector activation will sound an alarm throughout the Fire Station.

7.4.1.5 Provide sleeping room notification devices as required by NFPA 72 to provide "private mode" stipulated sound levels in sleeping rooms. Unit shall be powered by the building fire alarm system. Unit face shall be red in color.

7.4.1.6 Provide combination Audio-Visual devices throughout the facility as required by NFPA 72 and the ADA to provide NFPA 72 "public mode" stipulated sound levels in all spaces. Visual devices shall be synchronized when more than one device is located in a common field of view.

7.4.1.7 Provide connection to supervise PIV.

7.4.1.8 Fire Alarm System shall be installed in accordance with in accordance with the Base Facility Standard.

7.4.2 Data & Telephone System

7.4.2.1 All interior cabling shall be copper.

7.4.2.2 Interior Telephone cabling shall be Category 6.

7.4.2.3 Interior Data cabling shall be Category 6.

7.4.2.4 A completely operational cabling system including, but not limited to, all necessary raceway, cabling, terminations, jacks, patch panels, and faceplates shall be provided. All duplex outlets (voice/data) outlets will be 18 inches above finish floor (AFF) except wall telephone outlets will be 54 inches AFF. Voice and data will be in the same outlet. The cable for the outlet will be 4 pair, 24 AWG solid unshielded twisted pair (category 6) copper for voice and a 4 pair, 24 AWG solid unshielded twisted pair (category 6) for data. Termination of copper at instrument end will be in a RJ-45 jack (Category 6) for "voice" and RJ-45 jack (category 6) for "data". Termination at the communication room for both voice and data shall be on 110 type block 5E compliant termination panels (rack mounted). Coordinate with the Base Communication Group on the termination arrangements of the cables and the layouts of the patch panels in the equipment racks. All equipment racks shall be floor mounted. Final termination in the communication room shall be by Base Communication Group.

7.4.3 CATV

*** Amendment #0001**

7.4.3.1 D/B Contractor shall contract and coordinate directly with the local CATV system supplier (KAS TV) to provide cable service for the entire facility. **D/B contractor shall provide a complete operational CATV system with outlets as indicated in the Programming Matrix. Contractor shall coordinate with the local cable company and pay any fees associated with the installation. * Amendment #0001**

7.4.3.2 The cable for the CATV shall be RG-6 and the connector shall be a "F" type and terminated on splitters. All CATV headend equipment, incoming service, etc. shall be furnished and installed by the local Cable TV Company.

7.4.4 CCTV & Security Systems (Bid Option #2)

7.4.4.1 Provide a CCTV system for the entire facility. Installation of all conduit and cabling is part of the Base Bid. Furnish and install all equipment and devices and make final cabling terminations as part of Bid Option #2.

7.4.4.2 D/B contractor shall provide conduit and cabling for all CCTV equipment from equipment location to control devices.

7.4.4.3 Provide outdoor swivel/tilt/pan cameras as follows:

- Sufficient number of cameras to continuously monitor the entire perimeter of the building
- Sufficient number of cameras to monitor the outside of the Apparatus Room overhead vehicle doors

- Sufficient number of cameras, remotely located to monitor the immediate flight line ramp area

7.4.4.4 Provide fixed indoor cameras as follows:

- One camera outside the main door to the Alarm Communications Center
- One camera at the main building entrance vestibule
- Sufficient number of cameras to monitor the inside of the Apparatus Room overhead vehicle doors
- inside the building Provide empty conduit system with pull wire.

7.4.4.5 Provide additional cameras as required by the Air Force Fire Station Design Guide.

7.4.4.6 All CCTV controls and monitoring shall be located in the Alarm Communications Center.

7.4.4.7 Provide three (3) 27" flat screen monitors in the Alarm Communications Center for CCTV monitoring.

7.4.5 Door Controls

7.4.5.1 Provide an electric keypad with electric strike (electrified & remotely controlled) at the main door to the Alarm Communication Center and main door for the Building.

7.4.5.2 Provide control from the Alarm Communications Center to operate all Apparatus Room overhead vehicle doors at one time (open & close). Control should also provide the capability to open and close the doors individually.

7.4.6 Paging System

7.4.6.1 Provide paging capability throughout the entire facility. Ceiling/overhead speakers shall be located in each room with sufficient coverage to be audible under the normal operating conditions of that room.

7.4.6.2 Provide all call and individual room paging capability from the Alarm Communications Center.

7.4.7 Lightning Protection System

7.4.7.1 Provide a complete lightning protection system conforming to NFPA 780.

7.4.8 Grounding

7.4.8.1 Provide a complete building grounding counterpoise system complete with ground rods.

PART 8 - CONSTRUCTION CONSIDERATIONS AND USE OF PREMISES

8.1 SUMMARY

8.1.1 The requirements include

- Construction considerations and use of the premises.
- Protection of personnel and Government property.
- Construction facilities and job site standards.

- The requirements of this section apply to the entire project including all addenda or change orders that may be issued to modify the contract documents.

8.2 GENERAL INFORMATION

8.2.1 Construction Considerations

8.2.1.1 The superintendent in charge of this work shall personally contact the Base Civil Engineering Division, Building 11, Area C, and the Contracting Officer a minimum of 72 hours before starting site operations of the contract, before resumption of seasonal work, before restarting work after a lengthy delay, and prior to moving men and equipment from one site of work to another.

8.2.1.2 Coordinate all construction activities with:

- a. Project Inspector
- b. Contracting Officer Representative
- c. Base Fire Department
- d. Security Police
- e. Airfield Operations

8.2.1.3 Prior to the start of any construction operations whatsoever, a schedule of work or operations in proper sequence shall be submitted by the contractor for approval by the Fire Protection Branch, Security Police, Safety Office, and the Contracting Officer so as to cause a minimum amount of disruption to the normal flow of traffic on streets, pedestrian travel, base security, and facility operations.

8.2.1.4 Coordinate all Construction and Use of Premises Activities with a Contracting Officer Representative

8.2.1.5 Coordinate with Contracting Officer the scheduling and routing of work, personnel access and material deliveries for the work.

8.3 DOCUMENTATION

8.3.1 Construction Plan

8.3.1.1 Prior to the start of any onsite construction activities, the Contractor shall submit a detailed construction plan. The plan shall include a detailed schedule of the major construction activities (GANTT chart or other mutually agreeable format).

8.3.1.2 Submit to the Contracting Officer's Representative for approval, a project schedule detailing on a weekly basis when work is to begin for each major work item and what work is to be accomplished (including quantities), etc. While factors not under the Contractor's control may cause the Contractor to fall behind the schedule, the intent of the schedule is to inform the Government of planned orderly progression of the work in proper sequence. Once the schedule is approved, do not deviate from the sequence, without prior written approval.

8.3.2 Waste Disposal

7.3.2.1 Prior to the start of any onsite construction activities, the Contractor shall submit a written plan for disposing of waste materials resulting from work under this contract. If any waste material is dumped or left in an unauthorized

area, the Contractor shall remove the material and restore the area as required by the Contracting Officer.

8.4 CONSTRUCTION CONSIDERATIONS

8.4.1 Use of the Premises

8.4.1.1 Contractor shall have exclusive use of the site for construction.

8.4.1.2 Working hours for the Contractor will be Monday through Friday between the hours of 7:30 a.m. and 6:00 p.m. unless otherwise noted. No work shall be performed on Saturdays, Sundays, and Federal holidays unless otherwise stated or shown. If the Contractor wishes to work during periods other than above, permission must be requested, in writing, from the Contracting Officer at least 48 hours in advance of the desire to work during these periods.

8.4.1.3 Work may be required to be performed after normal business hours or on weekends if it is determined by the Contracting Officer that work will be disruptive to any base operations.

8.4.1.4 In general, the Contractor shall be responsible for providing portable toilet, drinking, and washing facilities for his employees and subcontractor use.

8.4.1.5 The Government will make all reasonably required amounts of utilities available to the Contractor from existing outlets and supplies. The Contractor shall carefully conserve any utilities furnished without charge.

8.4.1.6 Prior to commencement of demolition and construction, the Contractor shall coordinate daily access and egress from the area of construction with the Contracting Officer. The Contractor shall confine construction personnel and equipment travel and operations to the area of work.

8.4.1.7 Utility outages and interruptions shall be scheduled through a written request to the Contracting Officer fourteen (14) days in advance. Construction activities requiring utility outages may be required to be performed after hours or on weekends.

8.4.1.8 No utility outages will be permitted without advance written approval by the Contracting Officer.

8.4.2 Egress

8.4.2.1 Contractor shall maintain a neat and orderly workplace with clear paths of emergency egress within the construction area.

8.4.3 Storage of Materials

8.4.3.1 The Contractor shall be responsible for the storage and safekeeping of all material to be incorporated into the work. The Contractor shall be responsible for all aspects of safety and security within the storage area.

8.4.3.2 Contractor shall limit storage of materials, equipment trailer, and sheds to the site-designated staging area or within the confines of the area of work.

8.4.3.3 Provide adequate storage facilities for protection of materials and equipment. Materials and equipment shall be stored so as to ensure preservation

of their quality of fitness for Work. Perishable items and items adversely affected by weather, rain, wind, dust, heat, or cold shall be stored within the designated area of construction, temporary waterproof sheds, or mobile facilities with raised floors, and heated if necessary. Other materials and equipment shall be stored on wooden platforms and not on the ground.

8.4.3.4 Storage facilities shall be clean, in good condition, undamaged and free of rust or surface deterioration. Rental trailers shall be of a neutral color. Unsightly material storage or office trailers will not be permitted.

8.4.3.5 The Contractor shall be responsible to maintain the condition of storage facilities, as defined above, and the entire construction site in a neat, orderly, professional and uncluttered manner at all times throughout the length of the contract.

8.4.3.6 The Contractor's job site trailer shall have a professionally made metal identification sign attached in a prominent location. The sign shall be 2 ft. x 3 ft. in size (with light colored lettering on a dark colored background) indicating the Contractor name, name and 24 hour phone number of someone to contact in case of emergency.

8.4.4 Security

8.4.4.1 Security requirements shall be observed at all times. The Contractor shall be responsible for maintaining satisfactory standards of employee competency, conduct, appearance, and integrity.

8.4.4.2 Construction operations shall be strictly confined to the designated area of Work.

8.4.4.3 An identification badge will be issued for each of the Contractor's employees and subcontractors. Each employee will be required to display the badge as directed by the Contracting Officer for access to and execution of the work within this facility.

8.4.5 Protection of Personnel and Government Property

8.4.5.1 Contractor shall comply with all applicable Federal, State, and Local safety codes, regulations, and requirements.

8.4.5.2 It is the Contractor's responsibility to maintain a secure construction site to prevent access to the work area by unauthorized personnel.

8.4.5.3 Safety posters, "hard hat area" posters, "authorized personnel only" posters, and any other notifications required by law shall be posted and maintained in sufficient quantity to be conspicuous on the job site.

8.4.5.4 In the event of damages of any nature caused by this work due to improper protection, precaution or safety measures, such damages shall be repaired or the Contractor at no cost to the Government shall replace such property. In the event the Contractor does not satisfactorily repair or replace such damage caused by the work of this contract, the Government will make the necessary corrections and the Contractor shall reimburse the Government for inconveniences, labor, and materials, involved.

8.4.6 Fire protection

8.4.6.1 Fire protection shall conform to NFPA 241 and EM 385-1-1.

8.4.6.2 Fire extinguisher equipment shall be provided in storage areas according to the hazard present.

8.4.6.3 Fire extinguishers listed or approved by a nationally recognized testing laboratory shall be used.

8.4.7 Waste Disposal

8.4.7.1 The Contractor is required to maintain a clean project site free of accumulating debris. Demolition debris and other construction waste shall be promptly disposed of at the end of each workday in proper waste containers maintained on the project site by the Contractor.

8.4.7.2 Environmentally hazardous or other construction debris with special disposal requirements shall be stored on the site and disposed of off site in a proper lawful manner.

8.4.7.3 All debris shall be removed from the site on a regular basis. Waste shall not be allowed to accumulate.

8.4.7.4 Construction waste and debris maintained on-site prior to off-site disposal shall be controlled in a manner to eliminate any potential health or safety hazards.

8.4.7.5 Burning of waste or any other material on-site is strictly prohibited.

8.4.7.6 The project job site shall be "broom cleaned" at the end of each work day. The Contractor shall remove debris from the job site as it is generated and dispose of it in proper containers as outlined herein.

8.4.8 Traffic Management:

8.4.8.1 Skeel Avenue through traffic and access to the airfield must be maintained during all phases of construction for general public and emergency vehicles.

END OF SECTION

SECTION 01453L
Amendment #0001
CONTRACTOR QUALITY CONTROL FOR DESIGN/BUILD
1/04

PART 1 GENERAL

1.1 REFERENCES

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

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM D 3740 (2001) Minimum Requirements for Agencies Engaged in the Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction

ASTM E 329 (2000b) Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction

1.2 PAYMENT

Separate payment will not be made for providing and maintaining an effective Quality Control program, and all costs associated therewith shall be included in the applicable unit prices or lump-sum prices contained in the Bidding Schedule.

1.3 SUBMITTALS

SD-01 Preconstruction Submittals

Design Quality Control Plan; G, ED

Construction Quality Control Plan; G, RE

PART 2 PRODUCTS (NOT APPLICABLE)

PART 3 EXECUTION

3.1 GENERAL REQUIREMENTS

The Contractor is responsible for quality control and shall establish and maintain an effective quality control system in compliance with the Contract Clause titled "Inspection of Construction." The quality control system shall consist of plans, procedures, and organization necessary to produce an end product which complies with the contract requirements. The system shall cover all design and construction operations, both onsite and offsite, and shall be keyed to the proposed construction sequence. The site project superintendent will be held responsible for the quality of work on the job and is subject to removal by the Contracting Officer for non-compliance with the quality requirements specified in the contract. The site project

superintendent in this context shall be the highest level manager responsible for the overall construction activities at the site, including quality and production. The site project superintendent shall maintain a physical presence at the site at all times, except as otherwise acceptable to the Contracting Officer, and shall be responsible for all construction and construction related activities at the site.

3.2 DESIGN QUALITY CONTROL PLAN (DQCP)

All documents shall be technically reviewed by competent, independent reviewers identified in the DQC Plan. The same element that produced the product shall not perform the independent technical review (ITR). The plan must identify the Independent Technical Review Team and their qualifications. The Contractor shall correct errors and deficiencies in the design documents prior to submitting them to the Government.

The Contractor shall include the design schedule in the master project schedule, showing the sequence of events involved in carrying out the project design tasks within the specific contract period. This should be at a detailed level of scheduling sufficient to identify all major design tasks, including those that control the flow of work. The schedule shall include review and correction periods associated with each item. This should reflect calendar days and not dates for each activity. If the schedule is changed, the Contractor shall submit a revised schedule reflecting the change within 7 calendar days. The Contractor shall include in the DQC Plan the discipline-specific checklists to be used during the design and quality control of each submittal.

The Contractor shall furnish for review by the government, not later than 10 days after Notice to Proceed, the Contractor Design Quality Control Plan for the design portion of the contract. The professional quality, technical accuracy and the coordination of all design documents and other services to be provided by the prime Contractor and subcontractor/consultants is of major importance. A logical and functional quality control program requiring technical and interdisciplinary reviews to eliminate errors and deficiencies in the design documents is required. As a minimum, the DQCP will address the following elements:

Management Approach - Define the specific management-methodology to be followed during the design phase of the work including the relationship between prime contractor and subcontractors/consultants. Address coordination, quality control, communications and lines of responsibility. The DQCP must also cover the process of review and approval of construction submittals as specified in Section 01331.

Management Structure - Delineate the organizational structure and interrelationship of management and the design team including all subcontractor and consultants. Identify the key design and review team members showing their specific responsibilities. Either the designer or the reviewer must be a registered professional for the Architectural, Civil, Structural, Mechanical and Electrical disciplines.

List submittals required, dates for submittal, dates for completion of Government review and products required to be submitted. Technical review comments provided by the ITR Team must be submitted with each design submittals. The approved complete checklists shall be submitted at each design phase as part of the project documentation.

Designer or Designer of Record - The registered professional ultimately responsible and liable for adequacy and safety of the design. EOR review is required on all submittals and EOR approval is required on all submittals of extensions of design and submittals of critical materials. See Section 01331 for definitions of these type submittals.

3.2.1 Acceptance of Plan

Acceptance of the Contractor's Quality Control Plan for Design is required prior to the start of design. Acceptance is conditional and will be predicated on satisfactory performance during the preparation of design documents. The Government reserves the right to require the Contractor to make changes in his CQ Plan for Design, and operations including removal of personnel, as necessary, to obtain the quality specified.

3.3 CONSTRUCTION QUALITY CONTROL PLAN

The Contractor shall furnish for review by the Government, not later than 30 days after receipt of notice to proceed, the Contractor Quality Control (CQC) Plan proposed to implement the requirements of the Contract Clause titled "Inspection of Construction." The plan shall identify personnel, procedures, control, instructions, tests, records, and forms to be used. The Government will consider an interim plan for the first 30 days of operation. Construction will be permitted to begin only after acceptance of the CQC Plan or acceptance of an interim plan applicable to the particular feature of work to be started. Work outside of the features of work included in an accepted interim plan will not be permitted to begin until acceptance of a CQC Plan or another interim plan containing the additional features of work to be started.

3.3.1 Content of the CQC Plan

The CQC Plan shall include, as a minimum, the following to cover all construction operations, both onsite and offsite, including work by subcontractors, fabricators, suppliers, and purchasing agents:

- a. A description of the quality control organization, including a chart showing lines of authority and acknowledgment that the CQC staff shall implement the three phase control system for all aspects of the work specified. The staff shall include a CQC System Manager who shall report to an individual of the company of higher authority than the superintendent.
- b. The name, qualifications (in resume format), duties, responsibilities, and authorities of each person assigned a CQC function.
- c. A copy of the letter to the CQC System Manager signed by an authorized official of the firm which describes the responsibilities and delegates sufficient authorities to adequately perform the functions of the CQC System Manager, including authority to stop work which is not in compliance with the contract. The CQC System Manager shall issue letters of direction to all other various quality control representatives outlining duties, authorities, and responsibilities. Copies of these letters shall also be furnished to the Government.

- d. Procedures for scheduling, reviewing, certifying, and managing submittals, including those of subcontractors, offsite fabricators, suppliers, and purchasing agents. These procedures shall be in accordance with Section 01331 SUBMITTAL PROCEDURES.
- e. Control, verification, and acceptance testing procedures for each specific test to include the test name, specification paragraph requiring test, feature of work to be tested, test frequency, and person responsible for each test. (Laboratory facilities will be approved by the Contracting Officer.)
- f. Procedures for tracking preparatory, initial, and follow-up control phases and control, verification, and acceptance tests including documentation.
- g. Procedures for tracking construction deficiencies from identification through acceptable corrective action. These procedures shall establish verification that identified deficiencies have been corrected.
- h. Reporting procedures, including proposed reporting formats.
- i. A list of the definable features of work. A definable feature of work is a task which is separate and distinct from other tasks, has separate control requirements, and may be identified by different trades or disciplines, or it may be work by the same trade in a different environment. Although each section of the specifications may generally be considered as a definable feature of work, there are frequently more than one definable features under a particular section. This list will be agreed upon during the coordination meeting.

3.3.2 Acceptance of Plan

Acceptance of the Contractor's plan is required prior to the start of construction. Acceptance is conditional and will be predicated on satisfactory performance during the construction. The Government reserves the right to require the Contractor to make changes in his CQC Plan and operations including removal of personnel, as necessary, to obtain the quality specified.

3.3.3 Notification of Changes

After acceptance of the CQC Plan, the Contractor shall notify the Contracting Officer in writing of any proposed change. Proposed changes are subject to acceptance by the Contracting Officer.

3.4 COORDINATION MEETING

After the Preconstruction Conference, before start of construction, and prior to acceptance by the Government of the CQC Plan, the Contractor shall meet with the Contracting Officer or Authorized Representative and discuss the Contractor's quality control system. The CQC Plan shall be submitted for review a minimum of 30 calendar days prior to the Coordination Meeting. During the meeting, a mutual understanding of the system details shall be developed, including the forms for recording the CQC operations, control

activities, testing, administration of the system for both onsite and offsite work, and the interrelationship of Contractor's Management and control with the Government's Quality Assurance. Minutes of the meeting shall be prepared by the Government and signed by both the Contractor and the Contracting Officer. The minutes shall become a part of the contract file. There may be occasions when subsequent conferences will be called by either party to reconfirm mutual understandings and/or address deficiencies in the CQC system or procedures which may require corrective action by the Contractor.

3.4.1 Subcontractor CQC Orientation

Before a Subcontractor begins work on the job site, the CQC System Manager will train the Subcontractor by showing the video tape entitled "CQC - A Bridge (or Pathway) to Success" and answering any questions pertaining to quality control operations. This requirement is waived only if a Subcontractor attended the initial coordination meeting described above. A copy of this video can be borrowed from the Contracting Officer. A record of the orientation shall be documented in the QC Report.

3.5 QUALITY CONTROL ORGANIZATION

3.5.1 Personnel Requirements

*2

The requirements for the CQC organization are a CQC System Manager and sufficient number of additional qualified personnel to ensure safety and contract compliance. **A separate Site Safety Health Officer (SSHO) will be required for this project. The Site Safety Health Officer (SSHO) can not have other duties assigned and CQC System Manager can not have other duties assigned. The Site Safety Health Officer (SSHO) and CQC System Manger can NOT be the same person/individual.** See Section 01525 for additional requirements and experience qualification for the SSHO. Personnel identified in the technical provisions as requiring specialized skills to assure the required work is being performed properly will also be included as part of the CQC organization. The Contractor's CQC staff shall maintain a presence at the site at all times during progress of the work and have complete authority and responsibility to take any action necessary to ensure contract compliance. The CQC staff shall be subject to acceptance by the Contracting Officer. The Contractor shall provide adequate office space, filing systems and other resources as necessary to maintain an effective and fully functional CQC organization. Complete records of all letters, material submittals, show drawing submittals, schedules and all other project documentation shall be promptly furnished to the CQC organization by the Contractor. The CQC organization shall be responsible to maintain these documents and records at the site at all times, except as otherwise acceptable to the Contracting Officer.

*2

3.5.2 CQC System Manager

The Contractor shall identify as CQC System Manager an individual within the onsite work organization who shall be responsible for overall management of CQC and have the authority to act in all CQC matters for the Contractor. The CQC System Manager shall be a construction person with a minimum of 10 years in related work. This CQC System Manager shall be on the site at all times during construction and shall be employed by the prime Contractor. The CQC System Manager shall be assigned as CQC System Manager but may have other quality control duties as identified per the Experience Matrix Table.

An alternate for the CQC System Manager shall be identified in the plan to serve in the event of the System Manager's absence. The requirements for the alternate shall be the same as for the designated CQC System Manager.

3.5.3 Site Safety Health Officer

The Contractor shall identify a SSHO for this project and submit qualifications to the Government for acceptance. This individual shall be a member prime contractor of the onsite work organization and be responsible for overall management of the safety and occupational health program, with authority to act in all safety matters for the Contractor. A copy of the letter to the SSHO signed by an authorized official of the firm describing responsibilities and delegating authority to stop work when safety or occupational health of workers is compromised must be provided to the Government. The SSHO shall be an individual having 10 years of previous construction safety experience. These educational requirements are in addition to the requirements listed in Section 01525. The Contractor must show evidence that this individual has completed OSHA training, is trained in First Aid, and CPR. An alternate for the SSHO shall be identified in the event of the SSHO absence. The qualifications for the alternate shall be the same as for the SSHO.

Acceptance of the Contractor's SSHO is required prior to the start of construction. Acceptance is conditional and will be predicated on satisfactory performance during construction. The Government reserves the right to require the Contractor to make changes to operations including removal of personnel, as necessary, to obtain a safe work site.

Duties of the SSHO shall include, as a minimum, the following in addition to the duties listed per Section 01525: prepare the contractor's Safety Plan, and Activity Hazard Analysis for each definable feature of work; provide safety indoctrination to all construction site visitors; ensure the Contractor's accepted Accident Prevention Plan is carried out; ensure that all contractor/subcontractor employees have all HTRW, asbestos, and lead paint training, and their personnel protection equipment meets applicable OSHA/EPA requirements. Conducts daily walkthrough of the site ensuring work is being accomplished safely and occupational health is not compromised; attend and participate in all preparatory and initial quality control phase meetings; conduct weekly safety meetings for all workers; conduct monthly supervisory safety meetings; provide accident reports; produce a Daily Safety Report of activities performed and attach this report to the Contractor's Quality Control Report. Minutes shall be provided of weekly and monthly safety meetings with the Daily Safety Report.

3.5.4 CQC Personnel

In addition to CQC personnel specified elsewhere in the contract, the Contractor shall provide as part of the CQC organization specialized personnel to assist the CQC System Manager for the following areas: electrical, mechanical, civil, architectural, materials technician and submittals clerk. These individuals may be employees of the prime or subcontractor; be responsible to the CQC System Manager; have the necessary education and/or experience in accordance with the experience matrix listed herein. These individuals may perform other duties but must be allowed sufficient time to perform their assigned quality control duties as described in the Quality Control Plan.

The word "graduate" below indicates an individual possessing a four-year college degree accredited in the respective field listed.

Experience Matrix

Area	Qualifications
a. SSHO	See Section 01525
b. Civil	Graduate Civil Engineer with 2 years experience in the type of work being performed on this project or technician with 5 yrs related experience
c. Mechanical	Graduate Mechanical Engineer with 2 yrs experience or person with 5 yrs related experience
d. Electrical	Graduate Electrical Engineer with 2 yrs related experience or person with 5 yrs related experience
e. Architectural	Graduate Architect with 2 yrs experience or person with 5 yrs related experience
f. Submittals	Submittal Clerk with 1 yr experience
g. Concrete, Pavements and Soils	Materials Technician with 2 yrs experience for the appropriate area
h. Testing, Adjusting and Balancing (TAB) Personnel	Specialist must be a member of AABC or an experienced technician of the firm certified by the NEBB.

3.5.5 Additional Requirement

In addition to the above experience and/or education requirements the CQC System Manager shall have completed and passed within the past 5 years the course entitled "Construction Quality Management For Contractors" within the last 5 years. This course is periodically offered by the Associated Builders and Constructors, Inc., or Associated General Contractor, Inc., and the U.S. Army Corps of Engineers, 696 Virginia Road, Concord, MA 01741-2751.

3.5.6 Organizational Changes

The Contractor shall maintain the CQC staff at full strength at all times. When it is necessary to make changes to the CQC staff, the Contractor shall

revise the CQC Plan to reflect the changes and submit the changes to the Contracting Officer for acceptance.

3.6 SUBMITTALS AND DELIVERABLES

Submittals, if needed, shall be made as specified in Section 01331 SUBMITTAL PROCEDURES FOR DESIGN/BUILD. The CQC organization shall be responsible for certifying that all submittals and deliverables are in compliance with the contract requirements. When Section 15950A HEATING, VENTILATING AND AIR CONDITIONING (HVAC) CONTROL SYSTEMS; 15951A DIRECT DIGITAL CONTROL FOR HVAC; 15990A TESTING, ADJUSTING, AND BALANCING OF HVAC SYSTEMS; or 15995A COMMISSIONING OF HVAC SYSTEMS are included in the contract, the submittals required by those sections shall be coordinated with Section 01331 SUBMITTAL PROCEDURES to ensure adequate time is allowed for each type of submittal required.

3.7 CONTROL

Contractor Quality Control is the means by which the Contractor ensures that the construction, to include that of subcontractors and suppliers, complies with the requirements of the contract. At least three phases of control shall be conducted by the CQC System Manager for each definable feature of work as follows:

3.7.1 Preparatory Phase

This phase shall be performed prior to beginning work on each definable feature of work, after all required plans/documents/materials are approved/accepted, and after copies are at the work site. This phase shall include:

- a. A review of each paragraph of applicable specifications, reference codes, and standards. A copy of those sections of referenced codes and standards applicable to that portion of the work to be accomplished in the field shall be made available by the Contractor at the preparatory inspection. These copies shall be maintained in the field and available for use by Government personnel until final acceptance of the work.
- b. A review of the contract drawings.
- c. A check to assure that all materials and/or equipment have been tested, submitted, and approved.
- d. Review of provisions that have been made to provide required control inspection and testing.
- e. Examination of the work area to assure that all required preliminary work has been completed and is in compliance with the contract.
- f. A physical examination of required materials, equipment, and sample work to assure that they are on hand, conform to approved shop drawings or submitted data, and are properly stored.
- g. A review of the appropriate activity hazard analysis to assure safety requirements are met.

- h. Discussion of procedures for controlling quality of the work including repetitive deficiencies. Document construction tolerances and workmanship standards for that feature of work.
- i. A check to ensure that the portion of the plan for the work to be performed has been accepted by the Contracting Officer.
- j. Resolve all differences.
- k. Discussion of the initial control phase.
- l. The Government shall be notified at least 48 hours in advance of beginning the preparatory control phase. This phase shall include a meeting conducted by the CQC System Manager and attended by the superintendent, other CQC personnel (as applicable), and the foreman responsible for the definable feature. The results of the preparatory phase actions shall be documented by separate minutes prepared by the CQC System Manager and attached to the daily CQC report. The Contractor shall instruct applicable workers as to the acceptable level of workmanship required in order to meet contract specifications.

3.7.2 Initial Phase

This phase shall be accomplished at the beginning of a definable feature of work. The following shall be accomplished:

- a. A check of work to ensure that it is in full compliance with contract requirements. Review minutes of the preparatory meeting.
- b. Verify adequacy of controls to ensure full contract compliance. Verify required control inspection and testing.
- c. Establish level of workmanship and verify that it meets minimum acceptable workmanship standards. Compare with required sample panels as appropriate.
- d. Resolve all differences.
- e. Check safety to include compliance with and upgrading of the safety plan and activity hazard analysis. Review the activity analysis with each worker.
- f. The Government shall be notified at least 46 hours in advance of beginning the initial phase. Separate minutes of this phase shall be prepared by the CQC System Manager and attached to the daily CQC report. Exact location of initial phase shall be indicated for future reference and comparison with follow-up phases.
- g. The initial phase should be repeated for each new crew to work onsite, or any time acceptable specified quality standards are not being met.

3.7.3 Follow-up Phase

Daily checks shall be performed to assure control activities, including control testing, are providing continued compliance with contract requirements, until completion of the particular feature of work. The checks shall be made a matter of record in the CQC documentation. Final follow-up checks shall be conducted and all deficiencies corrected prior to the start of additional features of work which may be affected by the deficient work. The Contractor shall not build upon nor conceal non-conforming work.

3.7.4 Additional Preparatory and Initial Phases

Additional preparatory and initial phases shall be conducted on the same definable features of work if: the quality of on-going work is unacceptable; if there are changes in the applicable CQC staff, onsite production supervision or work crew; if work on a definable feature is resumed after a substantial period of inactivity; or if other problems develop.

3.8 TESTS

3.8.1 Testing Procedure

The Contractor shall perform specified or required tests to verify that control measures are adequate to provide a product which conforms to contract requirements. Upon request, the Contractor shall furnish to the Government duplicate samples of test specimens for possible testing by the Government. Testing includes operation and/or acceptance tests when specified. The Contractor shall procure the services of a Corps of Engineers validated testing laboratory or establish an approved testing laboratory at the project site. The Contractor shall perform the following activities and record and provide the following data:

- a. Verify that testing procedures comply with contract requirements.
- b. Verify that facilities and testing equipment are available and comply with testing standards.
- c. Check test instrument calibration data against certified standards.
- d. Verify that recording forms and test identification control number system, including all of the test documentation requirements, have been prepared.
- e. Results of all tests taken, both passing and failing tests, shall be recorded on the CQC report for the date taken. Specification paragraph reference, location where tests were taken, and the sequential control number identifying the test shall be given. If approved by the Contracting Officer, actual test reports may be submitted later with a reference to the test number and date taken. An information copy of tests performed by an offsite or commercial test facility shall be provided directly to the Contracting Officer. Failure to submit timely test reports as stated may result in nonpayment for related work performed and disapproval of the test facility for this contract.

3.8.2 Testing Laboratories

3.8.2.1 Capability Check

The Government reserves the right to check laboratory equipment in the proposed laboratory for compliance with the standards set forth in the contract specifications and to check the laboratory technician's testing procedures and techniques. Laboratories utilized for testing soils, concrete, asphalt, and steel shall meet criteria detailed in [ASTM D 3740](#) and [ASTM E 329](#).

3.8.2.2 Capability Recheck

If the selected laboratory fails the capability check, the Contractor will be assessed a charge of \$1,375.00 to reimburse the Government for each succeeding recheck of the laboratory or the checking of a subsequently selected laboratory. Such costs will be deducted from the contract amount due the Contractor.

3.8.3 Onsite Laboratory

The Government reserves the right to utilize the Contractor's control testing laboratory and equipment to make assurance tests, and to check the Contractor's testing procedures, techniques, and test results at no additional cost to the Government.

3.8.4 Furnishing or Transportation of Samples for Testing

Costs incidental to the transportation of samples or materials shall be borne by the Contractor. Samples of materials for test verification and acceptance testing by the Government shall be delivered to the Corps of Engineers Division Laboratory, f.o.b., at the following address:

Commander and Director
Engineer Research and Development Center
ATTN: CEERD-GG-S
3909 Halls Ferry Road, Waterways Experience Station
Vicksburg, MS 39180-6199

Coordination for each specific test, exact delivery location, and dates will be made through the Area Office.

3.9 COMPLETION INSPECTION

3.9.1 Punch-Out Inspection

Near the end of the work, or any increment of the work established by a time stated in the Special Clause, "Commencement, Prosecution, and Completion of Work", or by the specifications, the CQC Manager shall conduct an inspection of the work. A punch list of items which do not conform to the approved drawings and specifications shall be prepared and included in the CQC documentation, as required by paragraph DOCUMENTATION. The list of deficiencies shall include the estimated date by which the deficiencies will be corrected. The CQC System Manager or staff shall make a second inspection to ascertain that all deficiencies have been corrected. Once this is accomplished, the Contractor shall notify the Government that the facility is ready for the Government Pre-Final inspection.

3.9.2 Pre-Final Inspection

The Government will perform the pre-final inspection to verify that the facility is complete and ready to be occupied. A Government Pre-Final Punch List may be developed as a result of this inspection. The Contractor's CQC System Manager shall ensure that all items on this list have been corrected before notifying the Government, so that a Final inspection with the customer can be scheduled. Any items noted on the Pre-Final inspection shall be corrected in a timely manner. These inspections and any deficiency corrections required by this paragraph shall be accomplished within the time slated for completion of the entire work or any particular increment of the work if the project is divided into increments by separate completion dates.

3.9.3 Final Acceptance Inspection

The Contractor's Quality Control Inspection personnel, plus the superintendent or other primary management person, and the Contracting Officer's Representative shall be in attendance at the final acceptance inspection. Additional Government personnel including, but not limited to, those from Base/Post Civil Facility Engineer user groups, and major commands may also be in attendance. The final acceptance inspection will be formally scheduled by the Contracting Officer based upon results of the Pre-Final inspection. Notice shall be given to the Contracting Officer at least 14 days prior to the final acceptance inspection and shall include the Contractor's assurance that all specific items previously identified to the Contractor as being unacceptable, along with all remaining work performed under the contract, will be complete and acceptable by the date scheduled for the final acceptance inspection. Failure of the Contractor to have all contract work acceptably complete for this inspection will be cause for the Contracting Officer to bill the Contractor for the Government's additional inspection cost in accordance with the contract clause titled "Inspection of Construction".

3.10 DOCUMENTATION

The Contractor shall maintain current records providing factual evidence that required quality control activities and/or tests have been performed. These records shall include the work of subcontractors and suppliers and shall be on an acceptable form that includes, as a minimum, the following information:

- a. Contractor/subcontractor and their area of responsibility.
- b. Operating plant/equipment with hours worked, idle, or down for repair.
- c. Work performed each day, giving location, description, and by whom. When Network Analysis (NAS) is used, identify each phase of work performed each day by NAS activity number.
- d. Test and/or control activities performed with results and references to specifications/drawings requirements. The control phase shall be identified (Preparatory, Initial, Follow-up). List of deficiencies noted, along with corrective action.

- e. Quantity of materials received at the site with statement as to acceptability, storage, and reference to specifications/drawings requirements.
- f. Submittals and deliverables reviewed, with contract reference, by whom, and action taken.
- g. Offsite surveillance activities, including actions taken.
- h. Job safety evaluations stating what was checked, results, and instructions or corrective actions.
- i. Instructions given/received and conflicts in plans and/or specifications.
- j. Contractor's verification statement.
- k. These records shall indicate a description of trades working on the project; the number of personnel working; weather conditions encountered; and any delays encountered. These records shall cover both conforming and deficient features and shall include a statement that equipment and materials incorporated in the work and workmanship comply with the contract. The original and one copy of these records in report form shall be furnished to the Government daily within 24 hours after the date covered by the report, except that reports need not be submitted for days on which no work is performed. As a minimum, one report shall be prepared and submitted for every 7 days of no work and on the last day of a no work period. All calendar days shall be accounted for throughout the life of the contract. The first report following a day of no work shall be for that day only. Reports shall be signed and dated by the CQC System Manager. The report from the CQC System Manager shall include copies of test reports and copies of reports prepared by all subordinate quality control personnel.

3.11 SAMPLE FORMS

Sample forms for Deficiency List is enclosed at the end of Section 00800 as well as other forms the Contractor may utilize during this project.

3.12 NOTIFICATION OF NONCOMPLIANCE

The Contracting Officer will notify the Contractor of any detected noncompliance with the foregoing requirements. The Contractor shall take immediate corrective action after receipt of such notice. Such notice, when delivered to the Contractor at the work site, shall be deemed sufficient for the purpose of notification. If the Contractor fails or refuses to comply promptly, the Contracting Officer may issue an order stopping all or part of the work until satisfactory corrective action has been taken. No part of the time lost due to such stop orders shall be made the subject of claim for extension of time or for excess costs or damages by the Contractor.

-- End of Section --

General Decision Number: OH030002 05/14/2004 OH2

Superseded General Decision Number: OH020002

State: Ohio

Construction Types: Heavy and Highway

Counties: Ohio Statewide.

Modification Number	Publication Date
0	06/13/2003
1	03/19/2004
2	04/02/2004
3	04/16/2004
4	05/14/2004

* BRKY0007-003 06/01/2003

LAWRENCE

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 23.28	9.93

BROH0001-001 07/01/1998

DEFIANCE, FULTON (Excluding Fulton, Amboy & Swan Creek Townships), HENRY (Excluding Monroe, Bartlow, Liberty, Washington, Richfield, Marion, Damascus & Townships & that part of Harrison Township outside corporate limits of city of Napoleon), PAULDING, PUTNAM & WILLIAMS

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 21.65	5.00

BROH0001-002 05/01/2000

ASHTABULA, CUYAHOGA, FULTON, GEAUGA, HANCOCK, HENRY, LAKE, LUCAS, PUTNAM & WOOD

	Rates	Fringes
Cement Mason.....	\$ 21.80	6.00

BROH0001-003 05/01/2000

	Rates	Fringes
Cement Mason		
BROWN, BUTLER,		
CLERMONT, DEFIANCE,		
ERIE, HAMILTON,		
HIGHLAND, HURON,		
LORAIN, OTTAWA,		
PAULDING, SANDUSKY,		
SENECA, WARREN &		
WILLIAMS COUNTIES.....	\$ 21.03	6.00
COLUMBIANA, MAHONING &		
TRUMBULL COUNTIES.....	\$ 20.73	6.30

MEDINA, PORTAGE, STARK & SUMMIT COUNTIES..... \$ 20.73 6.30

BROH0001-004 05/01/2000

ADAMS, ALLEN, ASHLAND, ATHENS, AUGLAIZE, BELMONT, CARROLL, CHAMPAIGN, CLARK, CLINTON, COSHOCTON, CRAWFORD, DARKE, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, GALLIA, GREENE, GUERNSEY, HARDIN, HARRISON, HOCKING, HOLMES, JACKSON, JEFFERSON, KNOX, LAWRENCE, LICKING, LOGAN, MADISON, MARION, MEIGS, MERCER, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, PERRY, PICKAWAY, PIKE, PREBLE, RICHLAND, ROSS, SCIOTO, SHELBY, TUSCARAWAS, UNION, VAN WERT, VINTON, WASHINGTON, WAYNE & WYANDOT

Rates Fringes
Cement Mason..... \$ 20.38 6.00

BROH0003-002 07/01/2002

FULTON (Townships of Amboy, Swan Creek & Fulton), HENRY (Townships of Washington, Damascus, Richfield, Bartlow, Liberty, Harrison, Monroe, & Marion), LUCAS & WOOD (Townships of Perrysburg, Ross, Lake, Troy, Freedom, Montgomery, Webster, Center, Portage, Middleton, Plain, Liberty, Henry, Washington, Weston, Milton, Jackson & Grand Rapids)

Rates Fringes
Bricklayer, Stonemason..... \$ 25.20 8.70

* BROH0005-003 05/01/2004

CUYAHOGA, LORAIN & MEDINA (Hinckley, Granger, Brunswick, Liverpool, Montville, York, Homer, Harrisville, Chatham, Litchfield & Spencer Townships and the city of Medina)

Rates Fringes
Bricklayer
BRICKLAYERS; CAULKERS;
CLEANERS; POINTERS; &
STONEMASONS..... \$ 26.83 8.91
SANDBLASTERS..... \$ 27.08 8.91
SEWER BRICKLAYERS;
STACK BUILDERS; & SWING
SCAFFOLDS..... \$ 27.33 8.91

* BROH0006-005 05/01/2004

CARROLL, COLUMBIANA (Knox, Butler, West & Hanover Townships), STARK & TUSCARAWAS

Rates Fringes
Bricklayer, Stonemason..... \$ 23.83 9.05

BROH0007-005 06/01/2003

MEDINA (Wadsworth, Guilford, Westfield, Lafayette & Sharon Townships), PORTAGE, SUMMIT & WAYNE (Milford & Chippewa Townships)

	Rates	Fringes
Bricklayer.....	\$ 25.84	8.66

BROH0007-010 06/01/2002

MEDINA (Wadsworth, Guilford, Westfield, Lafayette & Sharon Townships), PORTAGE, SUMMIT & WAYNE (Milford & Chippewa Townships)

	Rates	Fringes
Stonemason.....	\$ 24.50	5.48

BROH0008-001 06/01/2000

COLUMBIANA (Salem, Perry, Fairfield, Center, Elk Run, Middleton, & Unity Townships and the city of New Waterford) & MAHONING, and the city of Youngstown

	Rates	Fringes
Bricklayer.....	\$ 21.89	7.93

BROH0009-002 07/01/2000

BELMONT, JEFFERSON (Warren & Mt. Pleasant Townships & the Village of Dillonvale) & MONROE

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 22.20	6.08

BROH0010-002 06/01/2003

COLUMBIANA (St. Clair, Madison, Wayne, Franklin, Washington, Yellow Creek & Liverpool Townships) & JEFFERSON (Brush Creek & Saline Townships)

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 22.30	8.30

BROH0014-002 07/01/2003

HARRISON & JEFFERSON (Except Mt. Pleasant, Warren, Brush Creek, Saline & Salineville Townships & the Village of Dillonvale)

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 22.09	9.05

BROH0015-002 06/01/1999

NOBLE (Brookfield, Noble, Center, Sharon, Olive, Enoch, Stock, Jackson, Jefferson & Elk Townships) & WASHINGTON

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 21.55	4.98

BROH0016-002 05/01/2003

ASHTABULA, GEAUGA & LAKE

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 26.50	8.30

BROH0018-002 06/01/2003

BROWN, BUTLER, CLERMONT, HAMILTON, PREBLE (Gasper, Dixon, Israel, Lanier, Somers & Gratis Townships) & WARREN COUNTIES:

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 23.71	7.89

BROH0022-004 11/01/2001

CHAMPAIGN, CLARK, CLINTON, DARKE, GREENE, HIGHLAND, LOGAN, MIAMI, MONTGOMERY, PREBLE (Jackson, Monroe, Harrison, Twin, Jefferson & Washington Townships) & SHELBY

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 22.50	6.84

BROH0032-001 06/01/2001

GALLIA & MEIGS

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 23.31	7.40

BROH0035-002 01/01/1999

ALLEN, AUGLAIZE, MERCER & VAN WERT

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 19.80	5.12

BROH0039-002 06/01/2001

ADAMS & SCIOTO

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 22.50	8.55

 BROH0040- 003 05/01/2003

ASHLAND, CRAWFORD, HARDIN, HOLMES, MARION, MORROW, RICHLAND,
 WAYNE (Except Milton & Chippewa Townships) & WYANDOT (Except
 Crawford, Ridge, Richland & Tymochtee Townships)

	Rates	Fringes
Bri ckl ayer, Stonemason.....	\$ 22. 95	9. 60

 BROH0043- 002 06/01/2003

TRUMBULL COUNTY (Except city of Youngstown)

	Rates	Fringes
Bri ckl ayer, Stonemason.....	\$ 24. 25	8. 37

 BROH0044- 002 01/01/1998

	Rates	Fringes
Bri ckl ayer, Stonemason COSHOCTON, FAIRFIELD, KNOX & LICKING COUNTIES:....	\$ 18. 80	6. 10
GUERNSEY, HOCKING, MORGAN, MUSKINGUM, NOBLE (Beaver, Buffalo, Seneca & Wayne Townshi ps) & PERRY COUNTIES:.....	\$ 18. 80	6. 10

 BROH0045- 002 06/01/2000

FAYETTE, JACKSON, PIKE, ROSS & VINTON

	Rates	Fringes
Bri ckl ayer, Stonemason.....	\$ 21. 25	7. 10

 BROH0046- 002 06/01/2003

ERIE, HANCOCK, HURON, OTTAWA, SANDUSKY, SENECA, WOOD (Perry &
 Bloom Townships) & WYANDOT (Tymochtee, Crawford, Ridge &
 Richland Townships), & the islands of Lake Erie north of
 Sandusky.

	Rates	Fringes
Bri ckl ayer, Stonemason.....	\$ 23. 18	10. 20

 BROH0052- 001 06/01/2001

ATHENS

	Rates	Fringes
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Bricklayer, Stonemason..... \$ 22.01 7.10

BROH0055-003 06/01/1999

DELAWARE, FRANKLIN, MADISON, PICKAWAY & UNION

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 21.00	6.35

CARP0003-004 05/01/2003

MAHONING & TRUMBULL

	Rates	Fringes
Carpenter.....	\$ 20.41	9.87

CARP0069-003 05/01/2003

CARROLL, STARK, TUSCARAWAS & WAYNE

	Rates	Fringes
Carpenter.....	\$ 20.31	8.86

CARP0069-006 05/01/2003

COSHOCTON, HOLMES, KNOX & MORROW

	Rates	Fringes
Carpenter.....	\$ 20.02	8.26

CARP0171-002 05/01/2003

BELMONT, COLUMBIANA, HARRISON, JEFFERSON & MONROE

	Rates	Fringes
Carpenter.....	\$ 20.34	9.80

CARP0248-005 07/01/2001

LUCAS & WOOD

	Rates	Fringes
Carpenter.....	\$ 23.90	9.95

CARP0248-008 07/01/2001

	Rates	Fringes
Carpenter DEFIANCE, HANCOCK, HENRY, PAULDING &		

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WILLIAMS COUNTIES.....	\$ 20.05	9.95
FULTON COUNTY.....	\$ 20.16	9.95

CARP0254-002 05/01/2003

ASHTABULA, CUYAHOGA, GEAUGA & LAKE

	Rates	Fringes
Carpenter.....	\$ 25.80	8.72

CARP0372-002 07/01/2001

ALLEN, AUGLAIZE, HARDIN, MERCER, PUTNAM & VAN WERT

	Rates	Fringes
Carpenter.....	\$ 20.05	8.95

CARP0639-003 05/01/2003

MEDINA, PORTAGE & SUMMIT

	Rates	Fringes
Carpenter.....	\$ 23.98	8.95

CARP0735-002 05/01/2003

ASHLAND, ERIE, HURON, LORAIN & RICHLAND

	Rates	Fringes
Carpenter.....	\$ 19.67	8.50

CARP1311-001 05/01/2000

CHAMPAIGN, CLARK & LOGAN

	Rates	Fringes
Carpenter & Piledrivermen.....	\$ 22.42	4.73
Diver (4 Hours' Minimum Pay)...	\$ 33.63	4.73

CARP1311-008 05/01/2000

DARKE, GREENE, MIAMI, MONTGOMERY, PREBLE & SHELBY

	Rates	Fringes
Carpenter & Piledrivermen.....	\$ 22.42	4.73
Diver (4 Hours' Minimum Pay)...	\$ 33.63	4.73

CARP1311-009 05/01/2000

BROWN, BUTLER, CLERMONT, CLINTON, HAMILTON & WARREN

	Rates	Fringes
Carpenter & Piledrivermen.....	\$ 22.42	4.73
Diver (4 Hours' Minimum Pay)...	\$ 33.63	4.73

CARP1393-002 07/01/2000

CRAWFORD, DEFIANCE, FULTON, HANCOCK, HENRY, LUCAS, OTTAWA,
PAULDING, SANDUSKY, SENECA, WILLIAMS & WOOD

	Rates	Fringes
Piledrivermen & Diver's Tender.....	\$ 21.61	11.07

DIVERS - \$250.00 per day

CARP1393-003 07/01/2000

ALLEN, AUGLAIZE, HARDIN, MERCER, PUTNAM, VAN WERT & WYANDOT

	Rates	Fringes
Piledrivermen & Diver's Tender.....	\$ 20.68	9.32

DIVERS - \$250.00 per day

CARP1871-006 05/01/2003

BELMONT, HARRISON, & MONROE

	Rates	Fringes
Diver, Wet.....	\$ 34.05	10.05
Piledrivermen; Diver, Dry.....	\$ 22.70	10.05

DIVERS - 8 HOURS' PAY MINIMUM

CARP1871-008 05/01/2003

ASHLAND, ASHTABULA, CUYAHOGA, ERIE, GEAUGA, HURON, LAKE,
LORAIN, MEDINA, PORTAGE, RICHLAND & SUMMIT

	Rates	Fringes
Diver, Wet.....	\$ 37.50	9.52
Piledrivermen; Diver, Dry.....	\$ 25.00	9.52

DIVERS - 8 HOURS' PAY MINIMUM

CARP1871-014 05/01/2003

CARROLL, STARK, TUSCARAWAS & WAYNE

	Rates	Fringes
Diver, Wet.....	\$ 30.00	9.67

Piledrivermen; Diver, Dry..... \$ 20.00 9.67

DIVERS - 8 HOURS' PAY MINIMUM

CARP1871-015 05/01/2003

COSHOCTON, HOLMES, KNOX & MORROW

	Rates	Fringes
Diver, Wet.....	\$ 30.26	8.80
Piledrivermen; Diver, Dry.....	\$ 20.17	8.80

DIVERS - 8 HOURS' PAY MINIMUM

CARP1871-017 05/01/2003

MAHONING & TRUMBULL

	Rates	Fringes
Diver, Wet.....	\$ 31.74	10.09
Piledrivermen; Diver, Dry.....	\$ 21.16	10.09

DIVERS - 8 HOURS' PAY MINIMUM

CARP2239-001 07/01/2001

CRAWFORD, OTTAWA, SANDUSKY, SENECA & WYANDOT

	Rates	Fringes
Carpenter.....	\$ 20.82	9.95

CARP2264-004 01/01/2002

COLUMBIANA & JEFFERSON

	Rates	Fringes
Piledriverman.....	\$ 23.82	8.48

CARP9904-001 05/01/2000

ADAMS, ATHENS, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, GALLIA, GUERNSEY, HIGHLAND, HOCKING, JACKSON, LAWRENCE, LICKING, MADISON, MARION, MEIGS, MORGAN, MUSKINGUM, NOBLE, PERRY, PICKAWAY, PIKE, ROSS, SCIOTO, UNION, VINTON & WASHINGTON

	Rates	Fringes
Carpenter & Piledrivermen.....	\$ 21.86	5.27
Diver (4 Hours' Minimum Pay)...	\$ 32.79	5.27

ELEC0008-002 05/26/2003

DEFIANCE, FULTON, HANCOCK, HENRY, LUCAS, OTTAWA, PAULDING,

PUTNAM, SANDUSKY, SENECA, WILLIAMS & WOOD

	Rates	Fringes
Cable splicer.....	\$ 30.82	12.32
Electrician.....	\$ 29.35	12.26

ELEC0032-003 12/01/2003

ALLEN, AUGLAIZE, HARDIN, LOGAN, MERCER, SHELBY, VAN WERT & WYANDOT (Crawford, Jackson, Marseilles, Mifflin, Ridgeland, Ridge & Salem Townships)

	Rates	Fringes
Electrician.....	\$ 25.87	8.22

ELEC0032-004 06/01/1998

ALLEN, HARDIN, VAN WERT & WYANDOT (Crawford, Jackson, Marseilles, Mifflin, Richland, Ridge & Salem Townships)

	Rates	Fringes
Line Construction		
Equipment Operator.....	\$ 20.27	4.12+a
Groundman Truck Driver.....	\$ 14.43	3.63+a
Lineman.....	\$ 22.52	4.31+a

FOOTNOTE: a. Half day's Paid Holiday: The last 4 hours of the workday prior to Christmas or New Year's Day

ELEC0038-002 04/28/2003

CUYAHOGA, GEAUGA (Bainbridge, Chester & Russell Townships) & LORAIN (Columbia Township)

	Rates	Fringes
Electrician		
Excluding Sound & Communications Work.....	\$ 31.18	10.86

ELEC0038-008 10/27/2003

CUYAHOGA, GEAUGA (Bainbridge, Chester & Russell Townships) & LORAIN (Columbia Township)

	Rates	Fringes
Sound & Communication Technician		
Communications Technician.....	\$ 19.85	6.96+a+b
Installer Technician.....	\$ 19.10	6.88+a+b

FOOTNOTES:
a. 6 Paid Holidays: New Year's Day; Memorial Day; July 4th; Labor Day; Thanksgiving Day; & Christmas Day
b. 1 week's paid vacation for 1 year's service; 2 weeks' paid

vacation for 2 or more years' service

ELEC0064-003 06/02/2003

COLUMBIANA (Butler, Fairfield, Perry, Salem & Unity Townships)
MAHONING (Austintown, Beaver, Berlin, Boardman, Canfield,
Ellsworth, Coitsville, Goshen, Green, Jackson, Poland,
Springfield & Youngstown Townships), & TRUMBULL (Hubbard &
Liberty Townships)

	Rates	Fringes
Electrician.....	\$ 27.65	9.74

ELEC0071-001 06/02/2003

ASHLAND, CHAMPAIGN, CLARK, COSHOCTON, CRAWFORD, DELAWARE,
FAIRFIELD, FAYETTE, FRANKLIN, GUERNSEY, HIGHLAND, HOCKING,
JACKSON (Coal, Jackson, Liberty, Milton, Washington & Wellston
Townships), KNOX, LICKING, MADISON, MARION, MONROE, MORGAN,
MORROW, MUSKINGUM, NOBLE, PERRY, PICKAWAY, PIKE (Beaver,
Benton, Jackson, Mifflin, Pebble, Peepee, Perry & Seal
Townships), RICHLAND, ROSS, TUSCARAWAS (Auburn, Bucks, Clay,
Jefferson, Oxford, Perry, Salem, Rush, Washington & York
Townships), UNION, VINTON (Clinton, Eagle, Elk, Harrison,
Jackson, Richland & Swan Townships) & WASHINGTON

	Rates	Fringes
Line Construction		
Equipment Operators.....	\$ 24.26	7.24
Groundmen.....	\$ 17.52	6.00
Linemen; Cable Splicers.....	\$ 26.95	7.73

ELEC0071-004 01/01/2001

AUGLAIZE, CLINTON, DARKE, GREENE, LOGAN, MERCER, MIAMI,
MONTGOMERY, PREBLE & SHELBY

	Rates	Fringes
Line Construction		
Equipment Operator.....	\$ 21.69	6.21
Groundman.....	\$ 15.67	5.10
Lineman.....	\$ 24.10	6.66

ELEC0071-005 06/02/2003

ASHTABULA, CUYAHOGA, GEAUGA, LAKE & LORAIN

	Rates	Fringes
Line Construction		
Cable Splicer; Lineman.....	\$ 32.20	8.90
Equipment Operator.....	\$ 28.98	8.24
Groundman.....	\$ 22.54	6.92

ELEC0071-008 01/01/2001

COLUMBIANA, MAHONING & TRUMBULL

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	Rates	Fringes
Line Construction		
Equipment Operator.....	\$ 21.69	6.21
Groundman.....	\$ 15.67	5.10
Lineman.....	\$ 24.10	6.66

ELEC0071-010 01/01/2001

BELMONT, CARROLL, HARRISON, HOLMES, JEFFERSON, MEDINA, PORTAGE,
STARK, SUMMIT & WAYNE

	Rates	Fringes
Line Construction		
Equipment Operator.....	\$ 21.69	6.21
Groundman.....	\$ 15.67	5.10
Lineman.....	\$ 24.10	6.66

ELEC0071-013 01/01/2001

BROWN, BUTLER, CLERMONT, HAMILTON & WARREN

	Rates	Fringes
Line Construction		
Equipment Operator.....	\$ 21.69	6.21
Groundman.....	\$ 15.67	5.10
Lineman.....	\$ 24.10	6.66

ELEC0082-002 06/02/2003

CLINTON, DARKE, GREENE, MIAMI, MONTGOMERY, PREBLE & WARREN
(Wayne, Clear Creek & Franklin Townships)

	Rates	Fringes
Electrician.....	\$ 26.59	8.50

ELEC0129-003 03/01/2001

LORAIN (Except Columbia Township) & MEDINA (Litchfield &
Liverpool Townships)

	Rates	Fringes
Electrician.....	\$ 27.25	6.85

ELEC0129-004 09/01/2001

ERIE & HURON (Lyme, Ridgefield, Norwalk, Townsend, Wakeman,
Sherman, Peru, Bronson, Hartland, Clarksfield, Norwich,
Greenfield, Fairfield, Fitchville & New London Townships)

	Rates	Fringes
Electrician.....	\$ 27.25	6.85

ELEC0141-003 06/01/2002

BELMONT

	Rates	Fringes
Cable splicer.....	\$ 24.83	10.70
Electrician.....	\$ 24.58	10.70

ELEC0212-003 11/01/2000

BROWN, CLERMONT & HAMILTON

	Rates	Fringes
Sound & Communication Technician		
Cable Puller.....	\$ 9.00	2.64
Installer.....	\$ 18.00	3.475

ELEC0212-005 06/02/2003

BROWN, CLERMONT & HAMILTON

	Rates	Fringes
Electrician.....	\$ 24.24	8.39

ELEC0245-003 01/01/2004

**DEFIANCE, FULTON, HANCOCK, HENRY, LUCAS, OTTAWA, PAULDING,
 PUTNAM, SANDUSKY, SENECA, WILLIAMS & WOOD**

	Rates	Fringes
Line Construction		
Cable Splicer.....	\$ 33.17	19.5%+3.85+a
Groundman/Truck Driver.....	\$ 17.25	19.5%+3.85+a
Heli-arc Welding.....	\$ 29.14	19.5%+3.85+a
Lineman.....	\$ 28.84	19.5%+3.85+a
Operator - Class 1.....	\$ 23.07	19.5%+3.85+a
Operator - Class 2.....	\$ 20.19	19.5%+3.85+a
Technician.....	\$ 27.97	19.5%+3.85+a

FOOTNOTE: a. 6 Paid Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; & Christmas Day providing the employee has been on the payroll 25 calendar days prior to the holiday, and works the scheduled workdays preceding & following such holiday (except excused absences)

ELEC0246-006 11/03/2003

**CARROLL (South of Fox, Harrison, Rose & Washington Townships),
 COLUMBIANA (South of Butler, Fairfield, Knox, Salem & Unity
 Townships), HARRISON & JEFFERSON**

	Rates	Fringes
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Electrician..... \$ 26.95 15.21+a

FOOTNOTE: a. 1 1/2 Paid Holidays: The last scheduled workday prior to Christmas & 4 hours on Good Friday

ELEC0306-005 06/02/2003

MEDINA (Brunswick, Chatham, Granger, Guilford, Harrisville, Hinckley, Homer, Lafayette, Medina, Montville, Sharon, Spencer, Wadsworth, Westfield & York Townships), PORTAGE (Atwater, Aurora, Brimfield, Deerfield, Franklin, Mantua, Randolph, Ravenna, Rootstown, Shalersville, Streetsboro & Suffield Townships), SUMMIT & WAYNE (Baughman, Canaan, Chester, Chippewa, Congress, Green, Milton, & Wayne Townships)

	Rates	Fringes
Cable splicer.....	\$ 31.16	8.95
Electrician.....	\$ 28.85	8.85

ELEC0317-002 05/30/2001

GALLIA & LAWRENCE

	Rates	Fringes
Cable splicer.....	\$ 24.27	11.08
Electrician.....	\$ 23.11	11.04

ELEC0317-008 06/01/1998

ADAMS, ATHENS, GALLIA, JACKSON (Bloomfield, Franklin, Hamilton, Lick, Jefferson, Scioto & Madison Townships), LAWRENCE, MEIGS, PIKE (Camp Creek, Marion, Newton, Scioto, Sunfish & Union Townships), SCIOTO & VINTON (Brown, Knox, Madison, Vinton & Wilkesville Townships)

	Rates	Fringes
Line Construction		
Cable Splicers.....	\$ 23.66	8.48
Equipment Operators.....	\$ 17.14	8.25
Groundmen.....	\$ 13.92	8.14
Linemen.....	\$ 21.42	8.40

ELEC0540-003 06/05/1997

TUSCARAWAS COUNTY (North of Auburn, Clay, Rush & York Townships)

	Rates	Fringes
Line Construction		
Groundman; & Truck		
Driver.....	\$ 14.65	8.18
Line Equipment Operator....	\$ 19.02	8.69
Lineman; & Cable Splicer....	\$ 21.86	9.01

ELEC0540-005 06/01/2003

CARROLL (Northern half, including Fox, Harrison, Rose & Washington Townships), COLUMBIANA (Knox Township), HOLMES, MAHONING (Smith Township), STARK, TUSCARAWAS (North of Auburn, Clay, Rush & York Townships), & WAYNE (South of Baughman, Chester, Green & Wayne Townships)

	Rates	Fringes
Electrician.....	\$ 24.89	12.64

 ELEC0573-003 06/02/2003

ASHTABULA (Colebrook, Wayne, Williamsfield, Orwell & Windsor Townships), GEAUGA (Auburn, Middlefield, Parkman & Troy Townships), MAHONING (Milton Township), PORTAGE (Charlestown, Edinburg, Freedom, Hiram, Nelson, Palmyra, Paris & Windham Townships) & TRUMBULL (Except Liberty & Hubbard Townships)

	Rates	Fringes
Electrician.....	\$ 27.22	10.28

 ELEC0575-001 12/29/2003

ADAMS, FAYETTE, HIGHLAND, HOCKING, JACKSON (Bloomfield, Franklin, Hamilton, Jefferson, Lick, Madison, Scioto, Coal, Jackson, Liberty, Milton & Washington Townships), PICKAWAY (Deer Creek, Perry, Pickaway, Salt Creek & Wayne Townships), PIKE (Beaver, Benton, Jackson, Mifflin, Pebble, PeePee, Perry, Seal, Camp Creek, Newton, Scioto, Sunfish, Union & Marion Townships), ROSS, SCIOTO & VINTON (Clinton, Eagle, Elk, Harrison, Jackson, Richland & Swan Townships)

	Rates	Fringes
Electrician.....	\$ 26.59	8.91

 ELEC0648-001 02/24/2003

BUTLER & WARREN (Deerfield, Hamilton, Harlan, Massie, Salem, Turtle Creek, Union & Washington Townships)

	Rates	Fringes
Cable splicer.....	\$ 24.40	6.765
Electrician.....	\$ 23.90	6.75

 ELEC0673-004 11/25/2002

ASHTABULA (Excluding Orwell, Colebrook, Williamsfield, Wayne & Windsor Townships), GEAUGA (Burton, Chardon, Claridon, Hambden, Huntsburg, Montville, Munson, Newbury & Thompson Townships) & LAKE

	Rates	Fringes
Cable splicer.....	\$ 26.80	10.77

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Electrician..... \$ 26.55 10.77

ELEC0683-002 12/29/2003

CHAMPAIGN, CLARK, DELAWARE, FAIRFIELD, FRANKLIN, MADISON, PICKAWAY (Circleville, Darby, Harrison, Jackson, Madison, Monroe, Mühlenberg, Scioto, Walnut & Washington Townships) & UNION

	Rates	Fringes
Cable splicer.....	\$ 25.10	10.60
Electrician.....	\$ 24.50	10.59

ELEC0688-003 06/30/2003

ASHLAND, CRAWFORD, HURON (Richmond, New Haven, Ripley & Greenwich Townships), KNOX (Liberty, Clinton, Union, Howard, Monroe, Middleberry, Morris, Wayne, Berlin, Pike, Brown & Jefferson Townships), MARION, MORROW, RICHLAND & WYANDOT (Sycamore, Crane, Eden, Pitt, Antrim & Tymochtee Townships)

	Rates	Fringes
Electrician.....	\$ 24.95	10.75

ELEC0867-001 06/01/1998

ERIE

	Rates	Fringes
Line Construction		
Lineman; Cable Splicer; & Equipment Operator.....	\$ 20.75	4.09
Truck Driver (Winch)		
Groundman; & Groundman.....	\$ 13.49	3.87

ELEC0972-002 03/01/2004

ATHENS, MEIGS, MONROE, MORGAN, NOBLE, VINTON (Brown, Knox, Madison, Vinton & Wilkesville Townships) & WASHINGTON

	Rates	Fringes
Cable splicer.....	\$ 25.03	15.55
Electrician.....	\$ 24.78	15.54

ELEC1105-001 06/04/2001

COSHOCTON, GUERNSEY, KNOX (Jackson, Clay, Morgan, Miller, Milford, Hilliar, Butler, Harrison, Pleasant & College Townships), LICKING, MUSKINGUM, PERRY & TUSCARAWAS (Auburn, York, Clay, Jefferson, Rush, Oxford, Washington, Salem, Perry & Bucks Townships)

	Rates	Fringes
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Switch & Tie Tamper (w/o Lifting & Aligning Device); Railroad Tie Inserter/Remover; & Rotovator (Lime-Soil Stabilizer)

GROUP 4 - Backfiller & Tamper; Bar & Joint Installing Machine; Batch Plant; Boring Machine Operator (48" or less); Bull Floats; Burlap & Curing Machine; Concrete Plant (capacity 4 yd. & under); Concrete Saws (Multiple); Conveyor (Highway); Crusher; Deckhand; Farm-type Tractor with attachments (highway); Finishing Machine; Fireperson, Floating Equipment; Fork Lift (highway), except Masonry; Form Trencher; Hydro Hammer; Hydro Seeder; Pavement Breaker, Hydraulic or Cable; Plant Mixer; Post Driver; Post Hole Digger; Power Brush Burner; Power Form handling Equipment; Road Widening Trencher; Roller (Brick, Grade & Macadam); Self-Propelled Power Spreader; Self-Propelled Subgrader; Steam Fireperson; Tractor (Pulling Sheepfoot Roller or Grader); Vibratory Compactor (with integral power); & Ballast Re-Locator

GROUP 5 - Compressor (Portable, Sewer, Heavy & Highway); Drum Fireperson (In Asphalt Plant); Generator; Masonry Fork Lift; Inboard-Outboard Motor Boat - Launch; Power Scrubber; Power Sweeper; Oil Heater (Asphalt Plant); Oiler; Power Driven Heater (Oil Fired); Pump (under 4" discharge); Tire Repairperson; VAC/ALLS & Signal person

 ENGI0018-004 05/01/2003

ADAMS, ALLEN, ASHLAND, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COSHOCTON, CRAWFORD, DARKE, DEFIANCE, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, FULTON, GALLIA, GREENE, GUERNSEY, HAMILTON, HANCOCK, HARDIN, HARRISON, HENRY, HIGHLAND, HOCKING, HOLMES, HURON, JACKSON, JEFFERSON, KNOX, LAWRENCE, LICKING, LOGAN, LUCAS, MADISON, MARION, MEIGS, MERCER, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, OTTAWA, PAULDING, PERRY, PICKAWAY, PIKE, PREBLE, PUTNAM, RICHLAND, ROSS, SANDUSKY, SCIOTO, SENECA, SHELBY, STARK, TUSCARAWAS, UNION, VAN WERT, VINTON, WARREN, WASHINGTON, WAYNE, WILLIAMS, WOOD & WYANDOT

	Rates	Fringes
Power Equipment Operator		
GROUP 1.....	\$ 26.39	7.10
GROUP 2.....	\$ 26.27	7.10
GROUP 3.....	\$ 25.23	7.10
GROUP 4.....	\$ 24.05	7.10
GROUP 5.....	\$ 18.59	7.10
MASTER MECHANIC.....	\$ 26.64	7.10

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1 - Air Compressor on Steel Erection; Barrier Moving Machine; Boiler Operator on Compressor or Generator when mounted on a Rig; Cableway; Combination Concrete Mixer & Tower; Concrete Plant (over 4 yd. Cap.); Concrete Pump; Crane (Including Boom Truck, Cherry Picker); Derrick; Dragline; Dredge (Dipper, Clam or Suction); Elevating Grader or Euclid Loader; Floating Equipment; Gradall; Helicopter Crew (Operator-Hoist or Winch); Hoe; Hoisting Engine on Shaft or Tunnel Work; Horizontal Directional Drill (over 500,000 ft. lbs. thrust); Industrial-Type Tractor; Jet Engine Dryer (D8 or D9) Diesel Tractor; Locomotive (Standard Gauge);

Maintenance Operator Class A; Mixer, Paving (Single or Double Drum); Mucking Machine; Multiple Scraper; Piledriving Machine; Power Shovel; Prentice Loader; Quad 9 (Double Pusher); Refrigerating Machine (Freezer Operation); Side-Boom; Slip-Form Paver; Tower Derrick; Tree Shredder; Trench Machine (Over 24" wide); Truck Mounted Concrete Pump; Tug Boat; Tunnel Machine and/or Mining Machine; Wheel Excavator; Hydraulic Gantry (Lifting System); Rail Tamper (w/Auto Lifting & Alignment Device); Rough Terrain Fork Lift with Winch/Hoist

GROUP 2 - Asphalt Paver; Automatic Subgrader Machine, Self-Propelled (CMI Type); Bobcat Type and/or Skid Steer Loader with Hoe Attachment Greater than 7,000 lbs.; Boring Machine More than 48"; Bulldozer; Endloader; Kolman-type Loader (production type-Dirt); Lead Greaseman; Power Grader; Power Scraper; Push Cat; Trench Machine (24" wide & under); Concrete Grinder/Planer; Pettibone-Rail Equipment; Vermeer type Concrete Saw; Hydro Milling Machine; Lighting & Traffic Signal Installation Equipment; Material Transfer Equipment (shuttle buggy) Asphalt

GROUP 3 - A-Frame; Air Compressor on Tunnel Work (low pressure); Asphalt Plant Engineer; Locomotive (narrow gauge); Mixer, Concrete (more than one bag cap.); Mixer, one bag cap. (Side Loader); Power Boiler, 15 lb. Pressure & Over; Pump Operator installing & operating Well Points; Pump (4" & over discharge); Roller - Asphalt; Utility Operator (Small equipment); Welding Machine; Bobcat Type and/or Skid Steer Loader; Switch and Tie Tamper (w/o Lifting & Aligning Device); Highway Drills; Railroad Tie Inserter/Remover; & Rotovator (Lime-Soil Stabilizer)

GROUP 4 - Backfiller; Bar & Joint Installing Machine; Batch Plant; Boring Machine Operator (48" or less); Bull Floats; Burlap & Curing Machine; Concrete Plant (capacity 4 yd. & under); Concrete Saw (Multiple); Conveyor (Highway); Crusher; Deckhand; Farm-type Tractor with attachments (highway, except Masonry); Finishing Machine; Fireperson, Floating Equipment; Fork Lift (highway); Form Trencher; Hydro Hammer; Hydro Seeder; Pavement Breaker; Plant Mixer; Post Driver; Post Hole Digger (Power Auger); Road Widening Trencher; Roller (Brick, Grade & Macadam); Self-Propelled Power Spreader; Self-Propelled Subgrader; Steam Fireperson; Tractor (Pulling Sheepfoot, Roller or Grader); Power Brush Burner; Power Form Handling Equipment; Vibratory Compactor with Integral Power; & Ballast Re-Locator

GROUP 5 - Compressor (Portable, Sewer, Heavy & Highway); Drum Fireperson (In Asphalt Plant); Generator; Masonry Fork Lift; Inboard-Outboard Motor Boat - Launch; Power Scrubber; Power Sweeper; Oil Heater (Asphalt Plant); Oiler; Power Driven Heater; Pump (under 4" discharge); Tire Repairperson; VAC/ALLS & Signal person

ENGI0066-023 06/01/2003

COLUMBIANA, MAHONING & TRUMBULL COUNTIES

	Rates	Fringes
Power Equipment Operator		
ALL OTHER WORK		
GROUP 1.....	\$ 25.89	10.56

ALL OTHER WORK		
GROUP 2.....	\$ 25.62	10.56
ALL OTHER WORK		
GROUP 3.....	\$ 23.87	10.56
ALL OTHER WORK		
GROUP 4.....	\$ 21.46	10.56
ALL OTHER WORK		
GROUP 5.....	\$ 18.80	10.56
ASBESTOS REMOVAL PROJECTS		
GROUP 1.....	\$ 31.06	10.56
ASBESTOS REMOVAL PROJECTS		
GROUP 2.....	\$ 30.74	10.56
ASBESTOS REMOVAL PROJECTS		
GROUP 3.....	\$ 28.64	10.56
ASBESTOS REMOVAL PROJECTS		
GROUP 4.....	\$ 25.75	10.56
ASBESTOS REMOVAL PROJECTS		
GROUP 5.....	\$ 22.56	10.56
HAZARDOUS/TOXIC WASTE PROJECTS		
GROUP 1 - A & B.....	\$ 31.06	10.56
HAZARDOUS/TOXIC WASTE PROJECTS		
GROUP 1 - C & D.....	\$ 28.47	10.56
HAZARDOUS/TOXIC WASTE PROJECTS		
GROUP 2 - A & B.....	\$ 30.74	10.56
HAZARDOUS/TOXIC WASTE PROJECTS		
GROUP 2 - C & D.....	\$ 28.18	10.56
HAZARDOUS/TOXIC WASTE PROJECTS		
GROUP 3 - A & B.....	\$ 28.64	10.56
HAZARDOUS/TOXIC WASTE PROJECTS		
GROUP 3 - C & D.....	\$ 26.25	10.56
HAZARDOUS/TOXIC WASTE PROJECTS		
GROUP 4 - A & B.....	\$ 25.75	10.56
HAZARDOUS/TOXIC WASTE PROJECTS		
GROUP 4 - C & D.....	\$ 23.60	10.56
HAZARDOUS/TOXIC WASTE PROJECTS		
GROUP 5 - A & B.....	\$ 22.56	10.56
HAZARDOUS/TOXIC WASTE PROJECTS		
GROUP 5 - C & D.....	\$ 20.68	10.56

GROUP 1 - Rig, Pile Driver or Caisson Type; & Rig, Pile Hydraulic Unit Attached

GROUP 2 - Asphalt Heater Planer; Backfiller with Drag Attachment; Backhoe; Backhoe with Shear attached; Backhoe-Rear Pivotal Swing; Batch Plant-Central Mix Concrete; Batch Plant, Portable concrete; Berm Builder-Automatic; Boat Derrick; Boat-Tug; Boring Machine Attached to Tractor; Bullclam; Bulldozer; C. M. I. Road Builder & Similar Type; Cable Placer & Layer;

Carrier-Straddle; Carryall-Scraper or Scoop; Chicago Boom; Compactor with Blade Attached; Concrete Saw (Vermeer or similar type); Concrete Spreader Finisher; Combination, Bidwell Machine; Crane; Crane-Electric Overhead; Crane-Rough Terrain; Crane-Side Boom; Crane-Truck; Crane-Tower; Derrick-Boom; Derrick-Car; Digger-Wheel (Not trencher or road widener); Double Nine; Drag Line; Dredge; Drill-Kenny or Similar Type; Easy Pour Median Barrier Machine (or similar type); Electromatic; Frankie Pile; Gradall; Grader; Gurry; Self-Propelled; Heavy Equipment Robotics Operator/Mechanic; Hoist-Monorail; Hoist-Stationary & Mobile Tractor; Hoist, 2 or 3 drum; Horizontal Directional Drill Operator; Jackall; Jumbo Machine; Kocal & Kuhlman; Land-Seagoing Vehicle; Loader, Elevating; Loader, Front End; Loader, Skid Steer; Locomotive; Mechanic/Welder; Metro Chip Harvester with Boom; Mucking Machine; Paver-Asphalt Finishing Machine; Paver-Road Concrete; Paver-Slip Form (C.M.I. or similar); Place Crete Machine with Boom; Post Driver (Carrier mounted); Power Driven Hydraulic Pump & Jack (When used in Slip Form or Lift Slab Construction); Pump Crete Machine; Regulator-Ballast; Hydraulic Power Unit not attached to Rig for Pile Drillings; Rigs-Drilling; Roto Mill or similar Full Lane (8' Wide & Over); Roto Mill or similar type (Under 8'); Shovel; Slip Form Curb Machine; Speedwing; Spikemaster; Stonecrusher; Tie Puller & Loader; Tie Tamper; Tractor-Double Boom; Tractor with Attachments; Truck-Boom; Truck-Tire; Trench Machine; Tunnel Machine (Mark 21 Java or similar); & Whirley (or similar type)

GROUP 3 - Asphalt Plant; Bending Machine (Pipeline or similar type); Boring machine, Motor Driven; Chip Harvester without Boom; Cleaning Machine, Pipeline Type; Coating Machine, Pipeline Type; Compactor; Concrete Belt Placer; Concrete Finisher; Concrete Planer or Asphalt; Concrete Spreader; Elevator; Fork Lift (Home building only); Fork Lift Walk Behind (Hoisting over 1 buck high); Form Line Machine; Grease Truck operator; Grout Pump; Gunnite Machine; Horizontal Directional Drill Locator; Single Drum Hoist with or without Tower; Huck Bolting Machine; Hydraulic Scaffold (Hoisting building materials); Paving Breaker (Self-propelled or Ridden); Pipe Dream; Pot Fireperson (Power Agitated); Refrigeration Plant; Road Widener; Roller; Sasgen Derrick; Seeding Machine; Soil Stabilizer (Pump type); Spray Cure Machine, Self-Propelled; Straw Blower Machine; Sub-Grader; Tube Finisher or Broom C.M.I. or similar type; & Tugger Hoist

GROUP 4 - Air Curtain Destructor & Similar Type; Batch Plant-Job Related; Boiler Operator; Compressor; Conveyor; Curb Builder, self-propelled; Drill Wagon; Fork lift & Lulls; Generator Set; Generator-Steam; Heater-Portable Power; Hydraulic Manipulator Crane; Jack-Hydraulic Power driven; Jack-Hydraulic (Railroad); Ladavator; Minor Machine Operator; Mixer-Concrete; Mulching Machine; Pin Puller; Power Broom; Pulverizer; Pump; Road Finishing Machine (Pull Type); Saw-Concrete-Self-Propelled (Highway Work); Signal Person; Spray Cure Machine-Motor Powered; Stump Cutter; Tractor; Trencher Form; Water Blaster; Steam Jenny; Syphon; Vibrator-Gasoline; & Welding Machine

GROUP 5 - Brakeperson; Fireperson; & Oiler

IRON0017-002 08/01/2003

ASHTABULA (North of Route 6, starting at the Geauga County

Line, proceeding east to State Route 45), CUYAHOGA, ERIE (Eastern 2/3), GEAUGA, HURON (East of a line drawn from the north border through Monroeville & Willard), LAKE, LORAIN, MEDINA (North of Old Rte. #224), PORTAGE (West of a line from Middlefield to Shalersville to Deerfield) & SUMMIT (North of Old Rte. #224, including city limits of Barberton)

	Rates	Fringes
Ironworker		
Ornamental; Reinforcing & Structural.....	\$ 25.55	14.78

IRON0044-002 06/01/2003

CLINTON (South of a line drawn from Blanchester to Lynchburg), HAMILTON, HIGHLAND (Excluding eastern one-fifth & portion of county inside lines drawn from Marshall to Lynchburg from the northern county line through E. Monroe to Marshall) & WARREN (South of a line drawn from Blanchester through Morrow to the west county line)

	Rates	Fringes
Ironworker		
Fence Erector.....	\$ 22.05	11.13
Ornamental; Structural.....	\$ 24.50	11.13

* IRON0055-003 07/01/2003

CRAWFORD (Area Between lines drawn from where Hwy #598 & #30 meet through N. Liberty to the northern border & from said Hwy junction point due west to the border), DEFIANCE (S. of a line drawn from where Rte. #66 meets the northern line through Independence to the eastern county border), ERIE (Western 1/3), FULTON, HANCOCK, HARDIN (North of a line drawn from Maysville to a point 4 miles south of the northern line on the eastern line), HENRY, HURON (West of a line drawn from the northern border through Monroeville & Willard), LUCAS, OTTAWA, PUTNAM (East of a line drawn from the northern border down through Miller City to where #696 meets the southern border), SANDUSKY, SENECA, WILLIAMS (East of a line drawn from Pioneer through Stryker to the southern border), WOOD & WYANDOT (North of Rte. #30)

	Rates	Fringes
Ironworker		
All Other Work.....	\$ 24.15	13.34
Fence Erector.....	\$ 18.43	13.34
Flat Road Mesh.....	\$ 19.43	13.34
Tunnels & Caissons		
Under Pressure.....	\$ 24.65	13.34

IRON0147-002 10/01/2003

ALLEN (Northern half), DEFIANCE (Northern part, excluding south of a line drawn from where Rte. #66 meets the northern line through Independence to the eastern county border), MERCER (Northern half), PAULDING, PUTNAM (Western part, excluding east of a line drawn from the northern border down through Miller

City to where #696 meets the southern border), VAN WERT & WILLIAMS (Western part, excluding east of a line drawn from Pioneer through Stryker to the southern border)

	Rates	Fringes
Ironworker.....	\$ 22.05	11.67

IRON0172-002 10/01/2003

CHAMPAIGN (Eastern one-third), CLARK (Eastern one-fourth), COSHOCTON (West of a line beginning at the northwestern county line going through Walhonding & Tunnel Hill to the southern county line), CRAWFORD (South of Rte. #30), DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, HARDIN (Excluding a line drawn from Roundhead to Maysville), HIGHLAND (Eastern one-fifth), HOCKING, JACKSON (Northern half), KNOX, LICKING, LOGAN (Eastern one-third), MADISON, MARION, MORROW, MUSKINGUM (West of a line starting at Adams Mill going to Adamsville & going from Adamsville through Blue Rock to the southern border), PERRY, PICKAWAY, PIKE (Northern half), ROSS, UNION, VINTON & WYANDOT (South of Rte. #30)

	Rates	Fringes
Ironworker.....	\$ 24.40	11.16

IRON0207-004 06/01/2003

ASHTABULA (Southern part starting at the Geauga County line), COLUMBIANA (E. of a line from Damascus to Highlandtown), MAHONING (N. of Old Route #224), PORTAGE (E. of a line from Middlefield to Shalersville to Deerfield) & TRUMBULL

	Rates	Fringes
Ironworker		
Fence Erector; &		
Pre-cast Bridge Culverts....	\$ 17.28	12.90
Layout; Sheeter.....	\$ 25.40	12.90
Ornamental;		
Reinforcing; Structural.....	\$ 24.40	12.90

IRON0290-002 06/01/2003

ALLEN (Southern half), AUGLAIZE, BUTLER (North of a line drawn from east to the west county line going through Oxford, Darrtown & Woodsdale), CHAMPAIGN (Excluding east of a line drawn from Catawla to the point where #68 intersects the northern county line), CLARK (Western two-thirds), CLINTON (Excluding south of a line drawn from Blanchester to Lynchburg), DARKE, GREENE, HIGHLAND (Inside lines drawn from Marshall to Lynchburg & from the northern county line through East Monroe to Marshall), LOGAN (West of a line drawn from West Liberty to where the northern county line meets the western county line of Hardin), MERCER (Southern half), MIAMI, MONTGOMERY, PREBLE, SHELBY & WARREN (Excluding south of a line drawn from Blanchester through Morrow to the western county line)

	Rates	Fringes
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Ironworker

Beyond 25 mile radius of L. U. #290 Office, Dayton.....	\$ 24. 28	11. 00
Within 25 mile radius of L. U. #290 Office, Dayton.....	\$ 24. 13	11. 00

IRON0348-005 08/01/2003

ASHTABULA (Eastern part from Lake Erie on the north to route #322 on the south to include Conneaut, Kingsville, Sheffield, Denmark, Dorset, Cherry Valley, Wayne, Monroe, Pierpont, Richmond, Andover & Williamsfield Townships)

	Rates	Fringes
Ironworker Structural, excluding metal building erection & Reinforcing.....	\$ 22. 17	13. 35

IRON0372-002 06/01/2002

ADAMS (Western Part), BROWN, BUTLER (Southern Part), CLERMONT, CLINTON (South of a line drawn from Blanchester to Lynchburg), HAMILTON, HIGHLAND (Excluding eastern one-fifth & portion of county inside lines drawn from Marshall to Lynchburg from the northern county line through E. Monroe to Marshall) & WARREN(South of a line drawn from Blanchester through Morrow to the west county line)

	Rates	Fringes
Ironworker, Reinforcing Beyond 30-mile radius of Hamilton County Courthouse.....	\$ 22. 96	10. 47
Up to & including 30-mile radius of Hamilton County Courthouse.....	\$ 22. 71	10. 47

IRON0549-003 07/01/2003

BELMONT, GUERNSEY, HARRISON, JEFFERSON, MONROE & MUSKINGUM (Excluding portion west of a line starting at Adams Mill going to Adamsville and going from Adamsville through Blue Rock to the south border)

	Rates	Fringes
Ironworker.....	\$ 25. 82	12. 64

IRON0550-004 05/01/2003

ASHLAND, CARROLL, COLUMBIANA (W. of a line from Damascus to Highlandtown), COSHOCTON (E. of a line beginning at NW Co. line going through Walhonding & Tunnel Hill to the South Co. line),

HOLMES, HURON (S. of Old Rte. #224), MAHONING (S. of Old Rte. #224), MEDINA (S. of Old Rte. #224), PORTAGE (S. of Old Rte. #224), RICHLAND, STARK, SUMMIT (S. of Old Rte. #224, Excluding city limits of Barberton), TUSCARAWAS, & WAYNE

	Rates	Fringes
Ironworkers: Structural, Ornamental and Reinforcing.....	\$ 20.76	12.92

IRON0769-004 06/01/2003

ADAMS (Eastern Half), GALLIA, JACKSON (Southern Half), LAWRENCE & SCIOTO

	Rates	Fringes
Ironworker		
ZONE 1.....	\$ 25.67	11.57
ZONE 2.....	\$ 26.07	11.57
ZONE 3.....	\$ 28.07	11.57

ZONE 1 - Up to 10 mile radius of Union Hall, Ashland, Ky.,
1643 Greenup Ave.

ZONE 2 - 10 to 50 mile radius of Union Hall, Ashland, Ky.,
1643 Greenup Ave.

ZONE 3 - 50 mile radius & over of Union Hall, Ashland, Ky.,
1643 Greenup Ave.

IRON0787-003 06/01/2003

ATHENS, MEIGS, MORGAN, NOBLE & WASHINGTON

	Rates	Fringes
Ironworker.....	\$ 25.26	11.25

LAB00265-008 05/01/2003

	Rates	Fringes
Laborer		
ASHTABULA, ERIE, HURON, LORAIN, LUCAS, MAHONING, MEDINA, OTTAWA, PORTAGE, SANDUSKY, STARK, SUMMIT, TRUMBULL & WOOD COUNTIES		
GROUP 1.....	\$ 22.60	4.45
GROUP 2.....	\$ 22.77	4.45
GROUP 3.....	\$ 23.10	4.45
GROUP 4.....	\$ 23.55	4.45
CUYAHOGA AND GEAUGA COUNTIES ONLY: SEWAGE PLANTS, WASTE PLANTS AND WATER TREATMENT FACILITIES CONSTRUCTION		
Laborers.....	\$ 25.21	4.45
CUYAHOGA, GEAUGA & LAKE		

COUNTIES

GROUP 1.....	\$ 23.83	4.45
GROUP 2.....	\$ 24.00	4.45
GROUP 3.....	\$ 24.33	4.45
GROUP 4.....	\$ 24.78	4.45

REMAINING COUNTIES OF OHIO

GROUP 1.....	\$ 22.17	4.45
GROUP 2.....	\$ 22.34	4.45
GROUP 3.....	\$ 22.67	4.45
GROUP 4.....	\$ 23.12	4.45

LABORER CLASSIFICATIONS

GROUP 1 - Asphalt Laborer; Carpenter Tender; Concrete Curing Applicator; Dump Man (Batch Truck); Guardrail and Fence Installer; Joint Setter; Laborer (Construction); Landscape Laborer; Mesh Handlers & Placer; Right-of-way Laborer; Riprap Laborer & Grouter; Scaffold Erector; Seal Coating; Surface Treatment or Road Mix Laborer; Sign Installer; Slurry Seal; Utility Man; Bridge Man; Handyman; Waterproofing Laborer; Flagperson; Hazardous Waste (level D); Diver Tender; Zone Person & Traffic Control

GROUP 2 - Skid Steer; Asphalt Raker; Concrete Puddler; Kettle Man Pipeline); Machine Driven Tools (Gas, Electric, Air); Mason Tender; Brick Paver; Mortar Mixer; Power Buggy or Power Wheelbarrow; Sheeting & Shoring Man; Surface Grinder Man; Plastic Fusing Machine Operator; Pug Mill Operator; & Vacuum Devices (wet or dry); Rodding Machine Operator; Diver; Screwwoman or Paver; Screed Person; Water Blast, Hand Held Wand; Pumps 4" & Under (Gas, Air or Electric) & Hazardous Waste (level C); Air Track and Wagon Drill; Bottom Person; Cofferdam (below 25 ft. deep); Concrete Saw Person; Cutting with Burning Torch; Form Setter; Hand Spiker (Railroad); Pipelayer; Tunnel Laborer (without air) & Caisson; Underground Person (working in Sewer and Waterline, Cleaning, Repairing & Reconditioning); Sandblaster Nozzle Person; & Hazardous Waste (level B)

GROUP 3 - Blaster; Mucker; Powder Person; Top Lander; Wrencher (Mechanical Joints & Utility Pipeline); Yarnner; Hazardous Waste (level A); Concrete Specialist; Concrete Crew in Tunnels (With Air-pressurized - \$1.00 premium); Curb Setter & Cutter; Grade Checker; Utility Pipeline Tapper; Waterline; and Caulker

GROUP 4 - Miner (With Air-pressurized - \$1.00 premium); & Guniting Nozzle Person

SIGNAL PERSON WILL RECEIVE THE RATE EQUAL TO THE RATE PAID THE LABORER CLASSIFICATION FOR WHICH HE OR SHE IS SIGNALING.

* PAIN0006-002 05/01/2004

ASHTABULA, CUYAHOGA, GEAUGA, LAKE, LORAIN, PORTAGE (N. of the East-West Turnpike) & SUMMIT (N. of the East-West Turnpike)

Rates Fringes

Painter
 COMMERCIAL NEW WORK;
 REMODELING; &
 RENOVATIONS

oh2_dvb.txt		
GROUP 1.....	\$ 23.69	11.32
GROUP 2.....	\$ 23.99	11.32
GROUP 3.....	\$ 24.09	11.32
GROUP 4.....	\$ 24.39	11.32
GROUP 5.....	\$ 25.39	11.32
COMMERCIAL REPAINT		
GROUP 1.....	\$ 22.19	11.32
GROUP 2.....	\$ 22.49	11.32
GROUP 3.....	\$ 22.59	11.32
GROUP 4.....	\$ 22.89	11.32

PAINTER CLASSIFICATIONS - COMMERCIAL NEW WORK; REMODELING; & RENOVATIONS

GROUP 1 - Brush; & Roller

GROUP 2 - Swing Stage & Boatswain's Chair

GROUP 3 - Sandblasting & Buffing; Closed Steel - Man Below 55 feet - Sprayer; Pick Puller, Blower, Sandblaster, & Buffer

GROUP 4 - Spray Painting; Closed Steel - Man Above 55 feet; Open Structural Steel; Tanks - Water Towers; Bridge Painters; Bridge Riggers; Containment Builders

GROUP 5 - Bridge Blaster

PAINTER CLASSIFICATIONS - COMMERCIAL REPAINT

GROUP 1 - Brush; & Roller

GROUP 2 - Swing Stage & Boatswain's Chair

GROUP 3 - Sandblasting & Buffing; Closed Steel Below 55 feet - Sprayer-Pick-Puller-Blower-Sandblaster-Buffer

GROUP 4 - Spray Painting

PAIN0006-012 06/01/2003

ERIE, HANCOCK, HURON, OTTAWA (Allen, Bay, Bono, Catawba Island, Clay Center, Curtice, Danbury, Eagle Beach, Elliston, Elmore, Erie, Fishback, Gem Beach & Genoa), SANDUSKY, SENECA & WYANDOT

	Rates	Fringes
Painter		
Brush & Roller.....	\$ 21.07	6.38
Structural Steel.....	\$ 21.52	6.38

WINTER REPAINT: Between December 1 to March 31 - 90%JR

\$.50 PER HOUR SHALL BE ADDED TO THE RATE OF PAY FOR THE CLASSIFICATION OF WORK:

While working swingstage, boatswain chair, needle beam and horizontal cable. While operating sprayguns, sandblasting, cobblasting and high pressure waterblasting (4000psi).

\$1.00 PER HOUR SHALL BE ADDED TO THE RATE OF PAY FOR THE CLASSIFICATION OF WORK:

For the application of catalized epoxy, including latex epoxy that is deemed hazardous, lead abatement, or for work or

material where special precautions beyond normal work duties must be taken. For working on stacks, tanks, and towers over 40 feet in height.

PAIN0006-014 07/01/2001

FULTON, HENRY, LUCAS, OTTAWA (Excluding Allen, Bay, Bono, Catawba Island, Clay Center, Curtice, Danbury, Eagle Beach, Elliston, Elmore, Erie, Fishback, Gem Beach & Genova) & WOOD

	Rates	Fringes
Painter		
NEW COMMERCIAL WORK		
GROUP 1.....	\$ 22.09	7.20
GROUP 2.....	\$ 22.34	7.20
GROUP 3.....	\$ 22.59	7.20
GROUP 4.....	\$ 22.84	7.20
GROUP 5.....	\$ 22.79	7.20
GROUP 6.....	\$ 23.09	7.20
GROUP 7.....	\$ 23.39	7.20

REPAINT IS 90% OF JR

PAINTER CLASSIFICATIONS

GROUP 1 - Brush; Spray & Sandblasting Pot Tender

GROUP 2 - Refinery; Refinery Tank; & Surfaces 30 ft. or over where material is applied to or labor performed on above ground level (exterior), floor level (interior)

GROUP 3 - Swing Stage & Chair

GROUP 4 - Application of Catalized Epoxies and Waterbased Epoxies of 2 or more component materials

GROUP 5 - All Methods of Spray, Paint or Any Material applied with a Pressure Device

GROUP 6 - Solvent Based Material; Sand and Abrasive Blasting

GROUP 7 - Television & Radio Tower, Bridge, Horizontal Cable & Tank/Stack/Water Tank over 30 ft., including Scaffolding Brush

PAIN0006-017 06/01/2001

MEDINA, PORTAGE (Up to & including the Ohio Turnpike) & SUMMIT (Up to & including the Ohio Turnpike)

	Rates	Fringes
Painter		
GROUP 1.....	\$ 21.52	6.55
GROUP 2.....	\$ 22.17	6.55
GROUP 3.....	\$ 22.27	6.55
GROUP 4.....	\$ 22.37	6.55
GROUP 5.....	\$ 22.77	6.55

PAINTER CLASSIFICATIONS

GROUP 1 - Brush; & Roller

GROUP 2 - Epoxy Application

GROUP 3 - Swing Scaffold, Bosum Chair & Window Jack

GROUP 4 - Spray Gun Operator

GROUP 5 - Follow-up Man Using Automatic Tools; Sandblast; Standpipes, etc. from Swinging Scaffolds; Bridge Work and/or Open Structural Steel; Standpipes & Water Towers; Synthetic Exterior Coatings; & Lead Abatement

PAIN0006-021 04/01/2000

ALLEN, AUGLAIZE, CHAMPAIGN, DEFIANCE, HARDIN, LOGAN, MERCER, PAULDING, PUTNAM, SHELBY, VAN WERT & WILLIAMS

	Rates	Fringes
Painter		
Brush; & Roller.....	\$ 18.55	5.30
Open Structural Steel; Heavy & Highway Construction; Bridges; & Guard Rails.....	\$ 19.40	5.30
Spray; Sandblasting; & Pressure Cleaning.....	\$ 19.30	5.30

Swing Stage, Chair, Safety Belts, Spiders & Cherry Pickers -
\$.25 premium

All surfaces 40 ft. or over where material is applied to or labor performed on, above ground level (exterior), floor level (interior) - \$.50 premium

Applying Coal Tar Products - \$1.00 premium

PAIN0012-008 06/14/2003

BUTLER

	Rates	Fringes
Painter		
GROUP 1.....	\$ 16.92	7.89
GROUP 2.....	\$ 18.91	7.89
GROUP 3.....	\$ 19.41	7.89
GROUP 4.....	\$ 19.66	7.89
GROUP 5.....	\$ 19.91	7.89

PAINTER CLASSIFICATIONS

GROUP 1: Bridge Equipment Tender; Bridge/Containment Builder

GROUP 2: Brush & Roller

GROUP 3: Spray

GROUP 4: Sandblasting; & Waterblasting

GROUP 5: Elevated Tanks; Steeplejack Work; Bridge; & Lead Abatement

PAIN0012-010 06/14/2003

BROWN, CLERMONT, CLINTON, HAMILTON & WARREN

	Rates	Fringes
Painter		
Elevated Tanks.....	\$ 22.30	5.50
HEAVY & HIGHWAY BRIDGES- GUARDRAILS- LIGHTPOLES- STRIPING		
Bridge/Equipment Tender and/or Containment Builder.....		
	\$ 18.96	5.50
Bridges when highest point of clearance is 60 feet or more; Lead Abatement Projects.....		
	\$ 22.30	5.50
Brush & Roller.....	\$ 21.30	5.50
Sandblasting & Hopper Tender; Water Blasting....		
	\$ 22.05	5.50
Sandblasting, Hopper Tender, Waterblasting (Bridges when highest point of clearance is 60 feet or more).....		
	\$ 23.05	5.50
Spray.....	\$ 21.80	5.50

PAIN0012-014 11/01/2002

DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, MADISON, PICKAWAY, ROSS
& UNION

	Rates	Fringes
Painter		
Bridges.....	\$ 32.00	6.02
Brush; Roller.....	\$ 22.52	6.02
Sandblasting; Steamcleaning; Waterblasting (3500 PSI or Over) & Hazardous Work....		
	\$ 23.22	6.02
Spray.....	\$ 23.02	6.02
Stacks; Tanks; & Towers.....	\$ 26.03	6.02
Structural Steel & Swing Stage.....		
	\$ 22.82	6.02

PAIN0012-020 05/01/2003

CLARK, DARKE, GREENE, MIAMI, MONTGOMERY, & PREBLE

	Rates	Fringes
Painter		
GROUP 1 - Bridge/Equipment Tender and/or Containment Builder.....		
	\$ 18.31	5.48
GROUP 2 - Brush & Roller....	\$ 20.94	5.48
GROUP 3 - Structural Steel; Swing & Scaffold; Bridge; Open Acid Tank; High Tension Electrical Equipment; &		

	oh2_dvb.txt	
Hot Pipes.....	\$ 21.35	5.48
GROUP 4 - Sandblasting; Spray; & Steam Cleaning.....	\$ 21.69	5.48
GROUP 5 - Steeplejack work - Bridge, Water, Radio & T. V. Tower, Smoke Stack & Hazardous Work.....	\$ 21.89	5.48
GROUP 6 - Coal Tar.....	\$ 22.44	5.48

PAIN0053-003 06/01/2002

ATHENS, GUERNSEY, HOCKING, MONROE, MORGAN, NOBLE & WASHINGTON

	Rates	Fringes
Painter (All Work, except Light Commercial)		
Brush & Roller.....	\$ 23.73	4.80
Interior Tanks; Confined Areas; & Toxic Material Handlers.....	\$ 25.50	4.80
Spray; Sandblasting; & Power Tool Under 30' Preparation.....	\$ 24.50	4.80
Towers; Stacks; & Flagpoles.....	\$ 24.61	4.80

PAIN0053-005 06/01/2002

ATHENS, GUERNSEY, HOCKING, MONROE, MORGAN, NOBLE & WASHINGTON

	Rates	Fringes
Painter		
Separate contracts let which are not in excess of \$5,000,000.00 total project construction costs.....	\$ 19.07	4.80

PAIN0356-002 07/01/1999

LICKING, MUSKINGUM & PERRY

	Rates	Fringes
Painter		
Bridges; Guard Rails, Light Poles; Blasters & Riggers.....	\$ 30.00	3.27
Brush; Roller; Hopper Tender; & Washing.....	\$ 16.00	3.27
Elevated Tanks 40 ft. or Over; Steeplejacks; Radio Towers; Stacks; Light Towers; Water Towers; Steeples; Skeleton Steel; Exterior Industrial Conveyors Over 25 Ft.;		

Sandblasting, Hopper Tender & Waterblasting Under Hazardous Conditions.....	\$ 19.00	3.27
High Work.....	\$ 19.25	3.27
Sandblasting & Waterblasting.....	\$ 17.00	3.27
Spray & Steamcleaning.....	\$ 16.50	3.27
Tanks; Lead Abatement.....	\$ 18.00	3.27

PAIN0406-002 06/01/1999

ASHLAND, CRAWFORD, KNOX, MARION, MORROW & RICHLAND

	Rates	Fringes
Painter		
GROUP 1 - Pot Tender when tending 2 or more Sprayers or Blaster Metalizing Workers.....	\$ 18.55	2.00
GROUP 2 - Brush; Cleaner; Roller; & Washer.....	\$ 19.00	2.00
GROUP 3 - Structural Steel; Tanks; Towers; Hazardous Materials, including Epoxy and/or other materials; & Lead Abatement.....	\$ 19.50	2.00
GROUP 4 - Riggers on work more than 30 ft. above base level, includes base level & up; Spray; & Electrostatic Applications.....	\$ 19.75	2.00
GROUP 5 - Blasting: Sand, Grit, Shot, Water; Metalizing Workers; Striping Roadways; & Guard Rails.....	\$ 20.15	2.00

SWING STAGE, WINDOW JACK, BOATSWAIN CHAIR, SPIDER, CHERRY
PICKER AND OTHER TYPES OF LIFTS - \$.25 PREMIUM

PAIN0438-002 06/01/2003

BELMONT, HARRISON & JEFFERSON

	Rates	Fringes
Painter		
GROUP 1.....	\$ 24.05	7.15
GROUP 2.....	\$ 25.57	7.15
GROUP 3.....	\$ 27.92	7.15

PAINTER CLASSIFICATIONS

GROUP 1 - Manufacturing Plants, Mining Facilities, Skeleton
Steel Structures, Storage Tanks and Plant Work

GROUP 2 - Bridges, Locks & Dams, Power Generating Facilities

GROUP 3 - High Tension Towers, Energized Substations

PAIN0476-001 06/19/2000

COLUMBIANA, MAHONING & TRUMBULL

	Rates	Fringes
Painter		
GROUP 1.....	\$ 21.00	5.52
GROUP 2.....	\$ 21.20	5.52
GROUP 3.....	\$ 21.21	5.52
GROUP 4.....	\$ 21.50	5.52
GROUP 5.....	\$ 21.65	5.52
GROUP 6.....	\$ 21.90	5.52
GROUP 7.....	\$ 22.08	5.52

PAINTER CLASSIFICATIONS

GROUP 1: Brush & Roller

GROUP 2: Bridges

GROUP 3: Structural Steel

GROUP 4: Spraying, except Bar Joist

GROUP 5: Epoxy, Mastic; Spraying Bar Joist; Deck

GROUP 6: Tanks; Sandblasting

GROUP 7: Towers; Stacks

PAIN0555-002 11/01/2002

ADAMS, HIGHLAND, JACKSON, PIKE & SCIOTO

	Rates	Fringes
Painter		
GROUP 1.....	\$ 21.95	8.22
GROUP 2.....	\$ 22.98	8.22
GROUP 3.....	\$ 23.98	8.22
GROUP 4.....	\$ 25.83	8.22

PAINTER CLASSIFICATIONS

GROUP 1 - Containment Builder

GROUP 2 - Brush; Roller; Power Tools, Under 40 feet

GROUP 3 - Sand Blasting; Spray; Steam Cleaning; Pressure Washing; Epoxy & Two Component Materials; Lead Abatement; Hazardous Waste; Toxic Materials; Bulk & Storage Tanks of 25,000 Gallon Capacity or More; Elevated Tanks

GROUP 4 - Stacks; Bridges

PAIN0603-002 06/01/2001

CARROLL, COSHOCTON, HOLMES, STARK, TUSCARAWAS & WAYNE

Rates	Fringes
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Painter

Bridge; Tower, Pole & Stack; Sandblasting & Pressure Blasting; Structural Steel & Metalizing.....	\$ 18.21	7.39
Brush & Roller.....	\$ 17.50	7.39
Spray; Tank Interior & Exterior.....	\$ 18.03	7.39

PAIN0639-001 05/01/2003

	Rates	Fringes
Sign Painter & Erector.....	\$ 17.57	4.55+a+b+c

FOOTNOTES: a. 7 Paid Holidays: New Year's Day; Memorial Day; July 4th; Labor Day; Thanksgiving Day; Christmas Day & 1 Floating Day
 b. Vacation Pay: After 1 year's service - 5 days' paid vacation; After 2, but less than 10 years' service - 10 days' paid vacation; After 10, but less than 20 years' service - 15 days' paid vacation; After 20 years' service - 20 days' paid vacation
 c. Funeral leave up to 3 days maximum paid leave for death of mother, father, brother, sister, spouse, child, mother-in-law, father-in-law, grandparent and inlaw provided employee attends funeral

PAIN0813-005 06/01/2003

GALLIA, LAWRENCE, MEIGS & VINTON

	Rates	Fringes
Painter		
ALL OTHER WORK		
GROUP 1.....	\$ 22.83	8.25
GROUP 2.....	\$ 24.27	8.25
GROUP 3.....	\$ 22.93	8.25
BRIDGES		
GROUP 1.....	\$ 22.83	8.25
GROUP 2.....	\$ 24.27	8.25

PAINTER CLASSIFICATIONS

BRIDGES:

- GROUP 1 - Brush; Roller; & Bridge Rigging
- GROUP 2 - Spray; Sandblast & Pot Operator; & Pump Operator

ALL OTHER WORK:

- GROUP 1 - Brush & Roller
- GROUP 2 - Spray & Sandblast
- GROUP 3 - Machine, Toolstand & Stilts

PLUM0042-002 07/01/2003

ASHLAND, CRAWFORD, ERIE, HURON, KNOX, LORAIN, MORROW, RICHLAND & WYANDOT

	Rates	Fringes
Plumber, Pipefitter, Steamfitter.....	\$ 24.59	11.75

PLUM050-002 07/01/2003

DEFIANCE, FULTON, HANCOCK, HENRY, LUCAS, OTTAWA, PAULDING,
PUTNAM, SANDUSKY, SENECA, WILLIAMS & WOOD

	Rates	Fringes
Plumber, Pipefitter, Steamfitter.....	\$ 27.90	14.00

PLUM055-003 05/01/2003

ASHTABULA, CUYAHOGA, GEAUGA, LAKE, MEDINA (N. of Rte. #18 &
Smith Road) & SUMMIT (N. of Rte. #303, including the corporate
limits of the city of Hudson)

	Rates	Fringes
Plumber.....	\$ 29.65	11.85

PLUM083-001 07/01/2003

BELMONT & MONROE (North of Rte. #78)

	Rates	Fringes
Plumber and Steamfitter.....	\$ 20.11	16.90

* PLUM094-002 05/01/2004

CARROLL (N. half), STARK & WAYNE

	Rates	Fringes
Plumber/Pipefitter.....	\$ 24.00	11.97

PLUM120-002 05/01/2003

ASHTABULA, CUYAHOGA, GEAUGA, LAKE, LORAIN (the C. E. I. Power
House in Avon Lake), MEDINA (N. of Rte. #18) & SUMMIT (N. of
#303)

	Rates	Fringes
Pipefitter.....	\$ 30.02	11.59

PLUM162-002 06/01/2003

CHAMPAIGN, CLARK, CLINTON, DARKE, FAYETTE, GREENE, MIAMI,
MONTGOMERY & PREBLE

	Rates	Fringes
Plumber, Pipefitter, Steamfitter.....	\$ 25.16	10.71

PLUMD168-002 06/01/2003

MEIGS, MONROE (South of Rte. #78), MORGAN (South of Rte. #78)
& WASHINGTON

	Rates	Fringes
Plumber/Pipefitter.....	\$ 26.08	11.91

PLUMD189-002 06/01/2003

DELAWARE, FAIRFIELD, FRANKLIN, HOCKING, LICKING, MADISON,
MARION, PERRY, PICKAWAY, ROSS & UNION

	Rates	Fringes
Plumber, Pipefitter, Steamfitter.....	\$ 26.76	11.13

PLUMD219-002 06/01/2003

MEDINA (Rte. #18 from eastern edge of Medina Co., west to
eastern corporate limits of the city of Medina, & on the county
road from the west corporate limits of Medina running due west
to and through community of Risley to the western edge of
Medina County - All territory south of this line), PORTAGE &
SUMMIT (S. of Rte. #303)

	Rates	Fringes
Plumber and Steamfitter.....	\$ 27.06	11.81

PLUMD392-002 06/01/2003

BROWN, BUTLER, CLERMONT, HAMILTON & WARREN

	Rates	Fringes
Plumber/Pipefitter.....	\$ 26.02	9.42

PLUMD396-001 06/01/2003

COLUMBIANA (Excluding Washington & Yellow Creek Townships &
Liverpool Twp. - Secs. 35 & 36 - West of County Road #427),
MAHONING & TRUMBULL

	Rates	Fringes
Plumber/Pipefitter.....	\$ 23.71	10.96

PLUMD495-002 06/01/2003

CARROLL (Rose, Monroe, Union, Lee, Orange, Perry & Loudon Townships), COLUMBIANA (Washington & Yellow Creek Townships & Liverpool Township, Secs. 35 & 36, West of County Rd. #427), COSHOCTON, GUERNSEY, HARRISON, HOLMES, JEFFERSON, MORGAN (South to State Rte. #78 & from McConnelville west on State Rte. #37 to the Perry County line), MUSKINGUM, NOBLE & TUSCARAWAS

	Rates	Fringes
Plumber, Pipefitter, Steamfitter.....	\$ 22.88	11.10

PLUMD577-002 06/01/2002

ADAMS, ATHENS, GALLIA, HIGHLAND, JACKSON, LAWRENCE, PIKE, SCIOTO & VINTON

	Rates	Fringes
Plumber, Pipefitter, Steamfitter.....	\$ 22.78	11.14

PLUMD776-002 07/01/2003

ALLEN, AUGLAIZE, HARDIN, LOGAN, MERCER, SHELBY & VAN WERT

	Rates	Fringes
Plumber, Pipefitter, Steamfitter.....	\$ 25.34	10.80

TEAMD377-003 05/01/2003

STATEWIDE, EXCEPT CUYAHOGA, GEAUGA & LAKE

	Rates	Fringes
Truck Driver		
GROUP 1.....	\$ 19.69	7.47
GROUP 2.....	\$ 19.74	7.47
GROUP 3.....	\$ 19.79	7.47
GROUP 4.....	\$ 19.89	7.47
GROUP 5.....	\$ 20.16	7.47

TRUCK DRIVER CLASSIFICATIONS

GROUP 1 - Asphalt Distributor; Batch; 4- Wheel Service; 4-Wheel Dump; & Oil Distributor

GROUP 2 - Tandem

GROUP 3 - Tractor-Trailer Combination; Fuel; Pole Trailer; Ready Mix; Semi-Tractor; & Asphalt Oil Spraybar Man When Operated From Cab

GROUP 4 - 5 Axles & Over

GROUP 5 - Belly Dump; End Dump; Articulated Dump; Heavy Duty Equipment; Low Boy; & Truck Mechanic

*** TEAMD436-001 05/01/2004**

	Rates	Fringes
Truck Driver Pickup.....	\$ 22.35	7.40+a

FOOTNOTE: a. 7 Paid Holidays: New Year's Day; Decoration Day; Fourth of July; Labor Day; Thanksgiving Day; National Election Day; & Christmas Day

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

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

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

WAGE DETERMINATION APPEALS PROCESS

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

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

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

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

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

2.) If the answer to the question in 1.) is yes, then an

interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

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

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

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

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

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

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END OF GENERAL DECISION

General Decision Number: OH030029 05/14/2004 OH29

Superseded General Decision Number: OH020029

State: Ohio

Construction Types: Building

Counties: Adams, Allen, Ashland, Auglaize, Belmont, Brown, Butler, Clermont, Clinton, Coshocton, Crawford, Delaware, Erie, Fairfield, Fayette, Franklin, Greene, Guernsey, Hancock, Harrison, Highland, Hocking, Holmes, Huron, Jackson, Jefferson, Knox, Licking, Madison, Miami, Monroe, Montgomery, Morgan, Morrow, Muskingum, Noble, Ottawa, Perry, Pickaway, Pike, Preble, Richland, Ross, Sandusky, Scioto, Seneca, Tuscarawas, Vinton, Warren, Washington, Wayne, Wood and Wyandot Counties in Ohio.

BUILDING CONSTRUCTION PROJECTS (Does not include single family homes and apartments up to and including four (4) stories)

Modification Number	Publication Date
0	06/13/2003
1	03/19/2004
2	04/16/2004
3	05/14/2004

ASBE0002-002 08/01/2002

	Rates	Fringes
Asbestos Workers/Insulator (includes application of all insulating materials, protective coverings, coatings & finishings to all types of mechanical systems).....	\$ 28.62	11.91

ASBE0003-001 05/01/2003

ERIE (to Sandusky city limits) & HURON

	Rates	Fringes
Asbestos Workers/Insulator (Includes application of all insulating materials, protective coverings, coatings & finishings to all types of mechanical systems).....	\$ 29.13	11.05

ASBE0003-002 05/01/2003

ASHLAND, COSHOCTON, HARRISON, HOLMES, RICHLAND, TUSCARAWAS & WAYNE

	Rates	Fringes
Asbestos Workers/Insulator (Includes application of		

all insulating materials,
 protective coverings
 coatings & finishings to
 all types of mechanical
 systems)..... \$ 22.92 9.84

ASBE0008-001 07/01/2003

ADAMS, BROWN, BUTLER (Including Fairfield, Hanover, Liberty,
 Milford, Morgan, Oxford, Ripley, Ross, St. Clair, Union & Wayne
 Townships), CLERMONT, HIGHLAND & WARREN (Including Deerfield,
 Hamilton, Harlan, Salem, Union & Washington Townships)

	Rates	Fringes
Asbestos Workers/Insulator (ncludes application of all insulating materials, protective coverings, coatings & finishings to all types of mechanical systems).....	\$ 22.37	9.20

ASBE0041-003 07/01/2003

ALLEN

	Rates	Fringes
Asbestos Workers/Insulator (Includes application of all insulating materials, protective coverings, coatings and finishings to all types of mechanical systems).....	\$ 24.14	9.11

ASBE0044-001 07/01/2003

CRAWFORD, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, GUERNSEY,
 HOCKING, KNOX, LICKING, MADISON, MORGAN, MORROW, MUSKINGUM,
 NOBLE, PERRY, PICKAWAY, ROSS & VINTON

	Rates	Fringes
Asbestos Workers/Insulator (Includes application of all insulating materials, protective coverings, coatings & finisings to all types of mechanical systems)...	\$ 23.78	8.24

ASBE0045-001 07/01/2003

ERIE (City limits of Sandusky & Townships of Groton,
 Margaretta, Oxford & Perkins), HANCOCK, OTTAWA, SANDUSKY,
 SENECA, WOOD & WYANDOT

Rates	Fringes
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Asbestos Workers/Insulator
(Includes application of
all insulating materials,
protective coverings,
coatings & finishings to
all types of mechanical
systems)..... \$ 25.34 13.74

ASBE0079- 001 06/01/2003

AUGLAIZE, BUTLER (Lemon & Madison Townships), CLINTON, GREENE,
MIAMI, MONTGOMERY, PREBLE & WARREN (Clear Creek, Franklin,
Massie, Turtle Creek & Wayne Townships)

	Rates	Fringes
Asbestos Workers/Insulator (Includes application of all insulating materials, protective coverings, coatings & finishings to all types of mechanical systems).....	\$ 22.25	7.19

* ASBE0080- 004 03/01/2004

JACKSON, PIKE, SCIOTO & WASHINGTON

	Rates	Fringes
Insulator/asbestos worker (Includes application of all insulating materials, protective coverings, coatings and finishings to all types of mechanical systems) and Hazardous Material Handl er.....	\$ 26.10	11.74

ASBE0207- 004 06/01/2002

ALLEN

	Rates	Fringes
Hazardous Material Handler (Includes preparation, wetting, stripping, removal, scraping, vacuuming, bagging & disposing of all insulation materials, whether they contain asbestos or not, from mechanical systems).....	\$ 16.60	5.70

ASBE0207- 006 07/01/2002

	Rates	Fringes
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Hazardous Material Handler
 (Includes preparation,
 wetting, stripping,
 removal, scrapping,
 vacuuming, bagging &
 disposing of all insulation
 materials, whether they
 contain asbestos or not,
 from mechanical systems)

ADAMS, BROWN, BUTLER (Townships of Fairfield, Hanover, Liberty, Milford, Morgan, Oxford, Ripley, Ross, St. Clair, Union & Wayne), CLERMONT, HIGHLAND & WARREN (Townships of Deerfield, Hamilton, Harlan, Salem, Union & Washington) COUNTIES.....	\$ 17. 50	6. 25
ASHLAND, COSHOCTON, ERIE (Post Offices & Townships of: Berlin, Berlin Heights, Birmingham, Florence, Huron, Milan, Shinrock & Vermilion), HARRISON & HURON COUNTIES.....	\$ 17. 50	6. 25
AUGLAIZE, BUTLER (Excluding Townships of Fairfield, Hanover, Liberty, Milford, Morgan, Oxford, Ripley, Ross, St. Clair, Union & Wayne), CLINTON, GREENE, MIAMI, MONTGOMERY, PREBLE & WARREN (Townships of Clear Creek, Franklin, Massie, Turtle Creek & Wayne) COUNTIES.....	\$ 17. 50	6. 25
CRAWFORD, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, GUERNSEY, HOCKING, KNOX, LICKING, MADISON, MORGAN, MORROW, MUSKINGUM, NOBLE, PERRY, PICKAWAY, ROSS & VINTON COUNTIES.....	\$ 17. 50	6. 25
ERIE (Portion covered by the city limits of Sandusky, Ohio & by the Townships of Groton, Margaretta, Oxford & Perkins), HANCOCK, OTTAWA, SANDUSKY, SENECA, WOOD & WYANDOT COUNTIES.....	\$ 20. 05	5. 45
HOLMES, RICHLAND, TUSCARAWAS & WAYNE COUNTIES.....	\$ 14. 45	3. 60

BOIL0085-001 07/21/2003

ALLEN, ASHLAND, AUGLAIZE, CRAWFORD, DELAWARE, ERIE, HANCOCK,
HURON, KNOX, MORROW, OTTAWA, RICHLAND, SANDUSKY, SENECA, WOOD &
WYANDOT

	Rates	Fringes
Boilermaker.....	\$ 27.50	12.10

BOIL0105-001 09/30/2002ADAMS, BROWN, BUTLER, CLERMONT, CLINTON, FAIRFIELD, FAYETTE,
FRANKLIN, GREENE, GUERNSEY, HIGHLAND, HOCKING, JACKSON,
LICKING, MADISON, MIAMI, MONTGOMERY, MORGAN, MUSKINGUM, NOBLE,
PERRY, PICKAWAY, PIKE, PREBLE, ROSS, SCIOTO, VINTON & WARREN

	Rates	Fringes
Boilermaker.....	\$ 28.30	12.15

BOIL0154-002 06/01/2003ARMSTRONG, CAMERON, CLARION, CLEARFIELD, ELK, FOREST,
JEFFERSON, INDIANA, MCKEAN, VENANGO, AND WARREN COUNTIES

	Rates	Fringes
Boilermaker.....	\$ 29.27	14.69

BOIL0667-002 10/01/2003

BELMONT, MONROE & WASHINGTON

	Rates	Fringes
Boilermaker.....	\$ 29.55	13.39

BOIL0744-001 01/01/2004

	Rates	Fringes
Boilermaker.....	\$ 29.14	16.17

BROH0003-001 07/01/2002WOOD COUNTY (Townships of Perrysburg, Ross, Lake, Troy,
Freedom, Montgomery, Webster, Center, Portage, Middleton,
Plain, Liberty, Henry, Washington, Weston, Milton, Jackson &
Grand Rapids)

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 25.20	8.70

BROH0003-004 07/01/1998

WOOD COUNTY (Townships of Perrysburg, Ross, Lake, Troy,

Freedom, Montgomery, Webster, Center, Portage, Middleton,
Plain, Liberty, Henry, Washington, Weston, Milton, Jackson &
Grand Rapids)

	Rates	Fringes
Finisher.....	\$ 18.88	3.85
Marble Setter, Terrazzo Worker & Tile Setter.....	\$ 21.91	4.92

BROH0005-005 06/01/2003

ASHLAND, ERIE, HURON & RICHLAND

	Rates	Fringes
Marble Setter Finisher/Tile Setter Finisher.....	\$ 23.62	7.45
Terrazzo Worker Finisher.....	\$ 23.47	7.63

* BROH0006-001 05/01/2004

TUSCARAWAS

	Rates	Fringes
Bricklayer, Caulker, Cleaner, Pointer & Stonemason.....	\$ 23.83	9.05

* BROH0006-002 05/01/2004

TUSCARAWAS

	Rates	Fringes
Finisher.....	\$ 19.25	7.00
Marble Setter, Terrazzo Worker, Terrazzo Grinder & Tile Setter.....	\$ 21.65	7.00

* BROH0006-004 05/01/2004

TUSCARAWAS

	Rates	Fringes
Cement Mason/Plasterer.....	\$ 23.83	9.10

BROH0007-001 06/01/2003

WAYNE

	Rates	Fringes
Bricklayer.....	\$ 25.84	8.66

 BROH0007- 004 06/01/2002

WAYNE COUNTY (Milton & Chippewa Townships)

	Rates	Fringes
Marble Setter Finisher, Terrazzo Worker Finisher, Tile Setter Finisher.....	\$ 20.90	5.48

 BROH0007- 006 06/01/2002

WAYNE COUNTY (Milton & Chippewa Townships)

	Rates	Fringes
Marble Setter, Stonemason & Terrazzo Worker.....	\$ 24.50	5.48
Tile Setter.....	\$ 23.90	5.48

 BROH0008- 004 06/01/1998

	Rates	Fringes
Marble Setter Finisher/Terrazzo Worker Finisher COSHOCTON, HARRISON, HOLMES, JEFFERSON & WAYNE (Excluding Milton & Chippewa Townships) COUNTIES.....	\$ 19.82	3.86
Tile setter finisher COSHOCTON, HOLMES, JEFFERSON (Townships of Mt. Pleasant, Warren, Salineville & the Village of Dillonvale), & WAYNE (Excluding Milton & Chippewa Townships) COUNTIES.....	\$ 19.82	3.86

 BROH0009- 001 07/01/2000

BELMONT, JEFFERSON (Warren & Mt. Pleasant Townships & the
Village of Dillonvale) & MONROE

	Rates	Fringes
Bricklayer, Stonemason.....	\$ 22.20	6.08
Marble Setter, Terrazzo Worker & Tile Setter.....	\$ 21.17	4.98

 BROH0010- 001 06/01/2003

JEFFERSON COUNTY (Brush Creek & Saline Townships)

	Rates	Fringes
Bri ckl ayer BRICKLAYERS; CAULKERS; CLEANERS; CEMENT BLOCKLAYERS; MARBLE SETTERS; POINTERS; STONEMASONS; TERRAZZO WORKERS; & TILE SETTERS.....	\$ 22.30	8.30
Tile setter finisher.....	\$ 20.20	8.30

BROH0014-001 07/01/2003

HARRISON & JEFFERSON (Except Mt. Pleasant, Warren, Brush Creek, Saline & Salineville Townships & the Village of Dillonvale)

	Rates	Fringes
Bri ckl ayer, Stonemason.....	\$ 22.09	9.05
Tile Setter.....	\$ 21.61	9.05
Tile setter finisher.....	\$ 18.61	9.05

BROH0015-001 06/01/1999

NOBLE (Brookfield, Noble, Center, Sharon, Olive, Enoch, Stock, Jackson, Jefferson & Elk Townships) & WASHINGTON

	Rates	Fringes
Bri ckl ayer BRICKLAYERS; BLOCKLAYERS; CAULKERS; CLEANERS; MARBLE SETTERS; POINTERS; STONEMASONS; TERRAZZO WORKERS; & TILE SETTERS.....	\$ 21.55	4.98

BROH0018-001 06/01/2003

BROWN, BUTLER, CLERMONT, PREBLE Gasper, Dixon, Israel, Lanier, Somers & Gratis Townships) & WARREN

	Rates	Fringes
Bri ckl ayer, Caul ker, Cleaner, Poi nter & Stonemason.....	\$ 23.71	7.89
Refractory.....	\$ 24.21	7.89

BROH0018-004 05/01/2003

BROWN, BUTLER, CLERMONT, PREBLE (Gasper, Dixon, Israel, Lanier, Somers & Gratis Townships) & WARREN

oh29_dvb. txt
Rates Fringes

Marble Setter, Terrazzo
Worker & Tile Setter..... \$ 25.92 6.34

BROH0018-006 05/01/2003

ADAMS, BROWN, BUTLER, CLERMONT, FAYETTE, JACKSON, PIKE, ROSS,
SCIOTO, VINTON, WARREN & WASHINGTON

Rates Fringes

Marble, terrazzo and tile
finisher
Finishers..... \$ 21.48 6.34
Marble Sanders,
Polishers, Waxers, &
Sawyers..... \$ 21.55 6.34
Terrazzo Base Grinders
(While operating base
grinding machine)..... \$ 21.90 6.34

BROH0022-001 11/01/2001

CLINTON, GREENE, HIGHLAND, MIAMI, MONTGOMERY & PREBLE (Jackson,
Monroe, Harrison, Twin, Jefferson & Washington Townships)

Rates Fringes

Bricklayer, Caulker,
Cleaner, Pointer &
Stonemason..... \$ 22.50 6.84

BROH0022-002 11/01/2001

CLINTON, GREENE, HIGHLAND, MIAMI, MONTGOMERY & PREBLE (Jackson,
Monroe, Harrison, Twin, Jefferson & Washington Townships)

Rates Fringes

Marble Setter, Terrazzo
Worker & Tile Setter..... \$ 22.38 4.52

BROH0022-003 05/01/2001

AUGLAIZE, CLINTON, GREENE, HIGHLAND, MIAMI, MONTGOMERY & PREBLE

Rates Fringes

Base Machine Men..... \$ 21.14 1.50
Finisher..... \$ 20.64 1.50

BROH0035-001 01/01/1999

ALLEN & AUGLAIZE

Rates Fringes

Bri ckl ayer, Caul kler,
Cleaner, Pointer,
Stonemason & Tile Setter..... \$ 19. 80 5. 12

BROH0039- 001 06/01/2001

ADAMS & SCIOTO

	Rates	Fringes
Bri ckl ayer BRICKLAYERS; CAULKERS; CLEANERS; MARBLE SETTERS; POINTERS; STONEMASONS; TERRAZZO WORKERS; & TILE SETTERS. \$ 22. 50		8. 55

BROH0040- 001 05/01/2003

ASHLAND, CRAWFORD, HOLMES, MORROW, RICHLAND, WAYNE (Except
Milton & Chippewa Townships) & WYANDOT (Except Crawford,
Ridge, Richland & Tymochtee Townships)

	Rates	Fringes
Bri ckl ayer BRICKLAYERS; BLOCKLAYERS; CAULKERS; CLEANERS; MARBLE SETTERS; POINTERS; STONEMASONS; TERRAZZO WORKERS & TILE SETTERS. \$ 22. 95		9. 60

BROH0040- 002 05/01/2003

HOLMES & WAYNE (Except Milton & Chippewa Townships)

	Rates	Fringes
Cement Mason/Plasterer..... \$ 22. 95		9. 60

BROH0044- 001 01/01/1998

	Rates	Fringes
Bri ckl ayer COSHOCTON, FAIRFIELD, KNOX & LICKING COUNTIES BRICKLAYERS; CAULKERS; CLEANERS; POINTERS; & STONEMASONS..... \$ 18. 80		6. 10
GUERNSEY, HOCKING, MORGAN, MUSKINGUM, NOBLE (Beaver, Buffalo, Seneca & Wayne Townships) & PERRY COUNTIES BRICKLAYERS; CAULKERS; CLEANERS;		

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POINTERS; &
STONEMASONS. \$ 18. 80 6. 10

Cement Mason/Plasterer
COSHOCOTON COUNTY
CEMENT MASONS &
PLASTERERS. \$ 18. 80 6. 10
GUERNSEY COUNTY
CEMENT MASONS &
PLASTERERS. \$ 18. 80 6. 10

BROH0045- 001 06/01/2000

FAYETTE, JACKSON, PIKE, ROSS & VINTON

Rates Fringes
Bricklayer, Caulker, Cement
Mason, Cleaner, Pointer &
Stonemason. \$ 21. 25 7. 10

BROH0046- 001 06/01/2003

Rates Fringes
Bricklayer
ERIE, HANCOCK, HURON,
OTTAWA, SANDUSKY,
SENECA, WOOD (Perry &
Bloom Townships) &
WYANDOT (Tymochtee,
Crawford, Ridge &
Richland Townships)
COUNTIES & the islands
of Lake Erie north of
Sandusky
BRICKLAYERS;
CAULKERS; CEMENT
BLOCK LAYERS;
CLEANERS; GUNNITE
MASONS; MARBLE
SETTERS; POINTERS;
REFRACTORY MASONS;
STONEMASONS; TERRAZZO
WORKERS; & TILE
SETTERS. \$ 23. 18 10. 20

Cement Mason and plasterer
ERIE, HURON, OTTAWA,
SANDUSKY, SENECA, WOOD
(Perry & Bloom
Townships) & WYANDOT
(Tymochtee, Crawford,
Ridge & Richland
Townships) COUNTIES &
the islands of Lake
Erie north of Sandusky. \$ 23. 18 10. 20

Marble Setter Finisher,
Terrazzo Worker Finisher,
Tile Setter Finisher
HANCOCK, OTTAWA,

SANDUSKY, SENECA, WOOD
 (Perry & Bloom
 Townships) & WYANDOT
 (Tymochtee, Crawford,
 Ridge & Richland
 Townships) COUNTIES &
 the islands of Lake
 Erie north of Sandusky. . . . \$ 19. 53 10. 20

BROH0055- 001 06/01/1999

DELAWARE, FRANKLIN, MADISON & PICKAWAY

	Rates	Fringes
Bri ckl ayer, Caul ker, Cleaner, Pointer & Stonemason.	\$ 21. 00	6. 35
Rubble Work.	\$ 20. 17	6. 35

BROH0055- 002 06/01/1997

COSHOCTON, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, GUERNSEY,
 HOCKING, JACKSON, KNOX, LICKING, MADISON, MORGAN, MUSKINGUM,
 NOBLE (Beaver, Buffalo, Seneca & Wayne Townships), PERRY,
 PICKAWAY, PIKE, ROSS & VINTON

	Rates	Fringes
Marble Setter.	\$ 21. 53	4. 55
Terrazzo Worker & Tile Setter.	\$ 19. 60	4. 50

BROH0055- 004 06/01/1997

BELMONT, DELAWARE, FAIRFIELD, FRANKLIN, GUERNSEY, HOCKING,
 KNOX, LICKING, MADISON, MONROE, MORGAN, MORROW, MUSKINGUM,
 NOBLE, PERRY & PICKAWAY

	Rates	Fringes
Marble, terrazzo and tile finisher.	\$ 18. 50	1. 05

CARP0069- 001 05/01/2003

TUSCARAWAS & WAYNE

	Rates	Fringes
Carpenter & Soft Floor Layer. . .	\$ 20. 31	8. 86

CARP0069- 005 05/01/2003

COSHOCTON, HOLMES, KNOX & MORROW

Rates	Fringes
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Carpenter & Soft Floor Layer... \$ 20.02 8.26

CARP0171-001 05/01/2003

BELMONT, HARRISON, JEFFERSON & MONROE

	Rates	Fringes
Carpenter & Soft Floor Layer...	\$ 20.34	9.80

CARP0200-001 06/01/2003

DELAWARE, FAIRFIELD, FRANKLIN, GUERNSEY, LICKING, MADISON, MORGAN, MUSKINGUM, NOBLE, PERRY & PICKAWAY

	Rates	Fringes
Carpenter & Soft Floor Layer...	\$ 20.86	7.83
Piledriverman.....	\$ 21.54	7.83

CARP0248-001 07/01/2001

WOOD

	Rates	Fringes
Carpenter/Lather.....	\$ 23.90	9.95

CARP0248-002 07/01/2001

HANCOCK & WOOD

	Rates	Fringes
Soft Floor Layer.....	\$ 22.21	10.95

CARP0248-003 07/01/2001

HANCOCK

	Rates	Fringes
Carpenter/Lather.....	\$ 20.05	9.95

CARP0356-001 06/01/2000

HOCKING, VINTON & WASHINGTON

	Rates	Fringes
Carpenter.....	\$ 20.31	8.03
Piledriverman.....	\$ 20.61	8.03
Soft Floor Layer.....	\$ 19.91	8.03

CARP0372- 001 07/01/2001

ALLEN & AUGLAIZE

	Rates	Fringes
Carpenter/Lather.....	\$ 20. 05	8. 95

CARP0437- 001 06/01/2000

ADAMS, FAYETTE, HIGHLAND, JACKSON, PIKE, ROSS & SCIOTO

	Rates	Fringes
Carpenter; piledriver; soft floor layer.....	\$ 22. 18	8. 48

CARP0735- 001 05/01/2003

ASHLAND, ERIE, HURON & RICHLAND

	Rates	Fringes
Carpenter & Soft Floor Layer...	\$ 19. 67	8. 50

CARP1066- 001 09/01/1999

BROWN, BUTLER, CLERMONT, CLINTON & WARREN

	Rates	Fringes
Millwright.....	\$ 21. 90	7. 92

CARP1066- 002 09/01/1999

GREENE, MIAMI, MONTGOMERY & PREBLE

	Rates	Fringes
Millwright.....	\$ 21. 90	9. 02

CARP1241- 001 06/01/2003

DELAWARE, FAIRFIELD, FRANKLIN, GUERNSEY, LICKING, MADISON,
MORGAN, MUSKINGUM, NOBLE, PERRY & PICKAWAY

	Rates	Fringes
Millwright.....	\$ 22. 92	11. 95

CARP1311- 002 06/01/2000

BROWN, BUTLER, CLERMONT, CLINTON & WARREN

	Rates	Fringes
Carpenter & Piledrivermen		

(Does not include Walls & Ceiling Work)..... \$ 21.35 4.77

CARP1311-004 06/01/1998

GREENE, MIAMI, MONTGOMERY & PREBLE

	Rates	Fringes
Carpenter & Piledrivermen (Does not include Acoustic Ceiling Installers, Drywall Hangers or Metal Stud Framers).....	\$ 20.60	4.84

CARP1311-007 07/01/2000

BROWN, BUTLER, CLERMONT, CLINTON & WARREN

	Rates	Fringes
Carpenter/Lather (Walls & Ceiling Work only).....	\$ 21.10	4.98

CARP1311-014 08/15/1998

GREENE, MIAMI, MONTGOMERY & PREBLE

	Rates	Fringes
Soft Floor Layer.....	\$ 18.05	4.64

CARP1311-015 06/01/1998

GREENE, MIAMI, MONTGOMERY & PREBLE

	Rates	Fringes
Acoustic Ceiling Installer, Drywall Hanger, Lather & Metal Stud Framers.....	\$ 19.80	4.64

CARP1393-001 07/01/2000

CRAWFORD, HANCOCK, OTTAWA, SANDUSKY, SENECA & WOOD

	Rates	Fringes
Millwright/Piledriverman.....	\$ 21.61	11.07

CARP1393-004 07/01/2000

ALLEN, AUGLAIZE & WYANDOT

	Rates	Fringes
Millwright/Piledriverman.....	\$ 20.68	9.32

CARP1519-002 06/01/2003ADAMS, FAYETTE, HIGHLAND, HOCKING, JACKSON, PIKE, ROSS, SCIOTO
& VINTON

	Rates	Fringes
Millwright.....	\$ 24.68	11.51

CARP1755-002 06/01/2001

WASHINGTON

	Rates	Fringes
Millwright.....	\$ 24.39	10.16

CARP1871-001 05/01/2003

ASHLAND, ERIE, HURON & RICHLAND

	Rates	Fringes
Millwright.....	\$ 25.00	9.52

CARP1871-002 05/01/2003

ASHLAND, ERIE, HURON & RICHLAND

	Rates	Fringes
Piledriverman.....	\$ 25.00	9.52

CARP1871-003 05/01/2003

BELMONT, HARRISON, & MONROE

	Rates	Fringes
Piledriverman.....	\$ 22.70	10.05

CARP1871-004 05/01/2003

COSHOCTON, HOLMES, KNOX & MORROW

	Rates	Fringes
Piledriverman.....	\$ 20.17	8.80

CARP1871-005 05/01/2003

BELMONT, HARRISON, JEFFERSON & MONROE

	Rates	Fringes
Millwright.....	\$ 22.70	10.05

CARP1871- 011 05/01/2003

COSHOCKTON, HOLMES, KNOX & MORROW

	Rates	Fringes
Millwright.....	\$ 20.17	8.80

CARP1871- 012 05/01/2003

TUSCARAWAS & WAYNE

	Rates	Fringes
Millwright.....	\$ 20.00	9.67

CARP1871- 013 05/01/2003

TUSCARAWAS & WAYNE

	Rates	Fringes
Piledriverman.....	\$ 20.00	9.67

CARP2235- 004 06/01/2003

BEDFORD, FRANKLIN, FULTON, AND HUNTINGDON COUNTIES

	Rates	Fringes
Millwright.....	\$ 29.28	11.03

CARP2239- 001 07/01/2001

CRAWFORD, OTTAWA, SANDUSKY, SENECA & WYANDOT

	Rates	Fringes
Carpenter.....	\$ 20.82	9.95

ELEC0008- 001 05/26/2003

HANCOCK, OTTAWA, SANDUSKY, SENECA & WOOD

	Rates	Fringes
Cable splicer.....	\$ 30.82	12.32
Electrician.....	\$ 29.35	12.26

ELEC0032- 001 12/01/2003ALLEN, AUGLAIZE & WYANDOT (Crawford, Jackson, Marseilles,
Mifflin, Ridgeland, Ridge & Salem Townships)

	Rates	Fringes
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Electri ci an. \$ 25. 87 oh29_dvb. txt
8. 22

ELEC0032- 002 06/01/1998

ALLEN & WYANDOT (Crawford, Jackson, Marseilles, Mi fflin, Ri chl and, Ri dge & Salem Townshi ps)

	Rates	Fringes
Line Construction		
Equipment Operator.	\$ 20. 27	4. 12+a
Groundman Truck Driver.	\$ 14. 43	3. 63+a
Li neman.	\$ 22. 52	4. 31+a

FOOTNOTE: a. Half a day's Paid Holiday: The last 4 hours of the workday prior to Christmas or New Year's Day

ELEC0071- 002 06/02/2003

ASHLAND, COSHOCTON, CRAWFORD, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, GUERNSEY, HIGHLAND, HOCKING, JACKSON (Coal, Jackson, Liberty, Milton, Washington & Wellston Townships), KNOX, LICKING, MADISON, MONROE, MORGAN, MORROW, MUSKINGUM, NOBLE, PERRY, PICKAWAY, PIKE (Beaver, Benton, Jackson, Mi fflin, Pebble, Peepee, Perry & Seal Townships), RICHLAND, ROSS, TUSCARAWAS (Auburn, Bucks, Clay, Jefferson, Oxford, Perry, Salem, Rush, Washington & York Townships), VINTON (Clinton, Eagle, Elk, Harrison, Jackson, Ri chl and & Swan Townshi ps) & WASHI NGTON

	Rates	Fringes
Line Construction		
Equipment Operators.	\$ 24. 30	6. 95
Groundmen.	\$ 17. 55	5. 70
Li neman; Cable Splicers.	\$ 27. 00	7. 45

ELEC0071- 003 01/01/2001

AUGLAIZE, CLINTON, GREENE, MIAMI, MONTGOMERY & PREBLE

	Rates	Fringes
Line Construction		
Equipment Operator.	\$ 21. 69	6. 21
Groundman.	\$ 15. 67	5. 10
Li neman.	\$ 24. 10	6. 66

ELEC0071- 011 01/01/2001

BELMONT, HARRISON, HOLMES, JEFFERSON & WAYNE

	Rates	Fringes
Line Construction		
Equipment Operator.	\$ 21. 69	6. 21
Groundman.	\$ 15. 67	5. 10
Li neman.	\$ 24. 10	6. 66

ELEC0071- 012 01/01/2001

BROWN, BUTLER, CLERMONT & WARREN

	Rates	Fringes
Line Construction		
Equipment Operator.....	\$ 21.69	6.21
Groundman.....	\$ 15.67	5.10
Lineman.....	\$ 24.10	6.66

ELEC0082-001 06/02/2003

CLINTON, GREENE, MIAMI, MONTGOMERY, PREBLE & WARREN (Wayne, Clear Creek & Franklin Townships)

	Rates	Fringes
Electrician.....	\$ 26.59	8.50

ELEC0129-004 09/01/2001

ERIE & HURON (Lyme, Ridgefield, Norwalk, Townsend, Wakeman, Sherman, Peru, Bronson, Hartland, Clarksfield, Norwich, Greenfield, Fairfield, Fitchville & New London Townships)

	Rates	Fringes
Electrician.....	\$ 27.25	6.85

ELEC0141-003 06/01/2002

BELMONT

	Rates	Fringes
Cable splicer.....	\$ 24.83	10.70
Electrician.....	\$ 24.58	10.70

ELEC0212-001 06/02/2003

BROWN & CLERMONT

	Rates	Fringes
Electrician.....	\$ 24.24	8.39

ELEC0212-002 11/01/2000

BROWN & CLERMONT

	Rates	Fringes
Sound & Communication Technician		
Cable Puller.....	\$ 9.00	2.64
Installer.....	\$ 18.00	3.475

ELEC0212-004 01/18/1998

BROWN & CLERMONT

	Rates	Fringes
Electrical Sign & Luminous Building Installer.....	\$ 12.88	1.03+a

FOOTNOTE: a. 9 Paid Holidays: New Year's Day, Memorial Day, 4th of July, Labor Day, Thanksgiving Day, the Day after Thanksgiving, Christmas Eve, Christmas Day & New Year's Eve

ELEC0245-001 01/01/2004

HANCOCK, OTTAWA, SANDUSKY, SENECA & WOOD

	Rates	Fringes
Line Construction		
Cable Splicer.....	\$ 33.17	19.5%+3.85+a
Groundman/Truck Driver.....	\$ 17.25	19.5%+3.85+a
Heli-arc Welding.....	\$ 29.14	19.5%+3.85+a
Lineman.....	\$ 28.84	19.5%+3.85+a
Operator - Class 1.....	\$ 23.07	19.5%+3.85+a
Operator - Class 2.....	\$ 20.19	19.5%+3.85+a
Technician.....	\$ 27.97	19.5%+3.85+a

FOOTNOTE: a. 6 Paid Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; & Christmas Day providing the employee has been on the payroll 25 calendar days prior to the holiday, and works the scheduled workdays preceding & following such holiday (except excused absences)

ELEC0246-001 11/03/2003

HARRISON & JEFFERSON

	Rates	Fringes
Electrician.....	\$ 26.95	15.21+a

FOOTNOTE: a. 1 1/2 Paid Holidays: The last scheduled workday prior to Christmas & 4 hours on Good Friday

ELEC0306-004 06/02/2003

WAYNE (Baughman, Canaan, Chester, Chippewa, Congress, Green, Milton & Wayne Townships)

	Rates	Fringes
Cable splicer.....	\$ 31.16	8.95
Electrician.....	\$ 28.85	8.85

ELEC0317-007 06/01/1998

ADAMS, JACKSON (Bloomfield, Franklin, Hamilton, Lick, Jefferson, Scioto & Madison Townships), PIKE (Camp Creek, Marion, Newton, Scioto, Sunfish & Union Townships), SCIOTO & VINTON (Brown, Knox, Madison, Vinton & Wilkesville Townships)

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	Rates	Fringes
Line Construction		
Cable Splicers.....	\$ 23.66	8.48
Equipment Operators.....	\$ 17.14	8.25
Groundmen.....	\$ 13.92	8.14
Linemen.....	\$ 21.42	8.40

ELEC0540-001 06/01/2003

HOLMES, TUSCARAWAS (North of Auburn Clay, Rush & York Townships), & WAYNE (South of Baughman, Chester, Green & Wayne Townships)

	Rates	Fringes
Electrician.....	\$ 24.89	12.64

ELEC0540-003 06/05/1997

TUSCARAWAS COUNTY (North of Auburn, Clay, Rush & York Townships)

	Rates	Fringes
Line Construction		
Groundman; & Truck Driver.....	\$ 14.65	8.18
Line Equipment Operator.....	\$ 19.02	8.69
Lineman; & Cable Splicer.....	\$ 21.86	9.01

ELEC0575-001 12/29/2003

ADAMS, FAYETTE, HIGHLAND, HOCKING, JACKSON (Bloomfield, Franklin, Hamilton, Jefferson, Lick, Madison, Scioto, Coal, Jackson, Liberty, Milton & Washington Townships), PICKAWAY (Deer Creek, Perry, Pickaway, Salt Creek & Wayne Townships), PIKE (Beaver, Benton, Jackson, Mifflin, Pebble, PeePee, Perry, Seal, Camp Creek, Newton, Scioto, Sunfish, Union & Marion Townships), ROSS, SCIOTO & VINTON (Clinton, Eagle, Elk, Harrison, Jackson, Richland & Swan Townships)

	Rates	Fringes
Electrician.....	\$ 26.59	8.91

* ELEC0575-003 06/02/2003

ADAMS, FAYETTE, HIGHLAND, HOCKING, JACKSON, PICKAWAY (Deer Creek, Perry, Pickaway, Salt Creek & Wayne Townships), PIKE, ROSS, SCIOTO & VINTON (Clinton, Eagle, Elk, Harrison, Jackson, Richland & Swan Townships)

	Rates	Fringes
Sound & Communication Technician		
Cable Puller.....	\$ 10.07	5.31
Installer.....	\$ 19.05	5.79

ELEC0648-001 02/24/2003BUTLER & WARREN (Deerfield, Hamilton, Harlan, Massie, Salem,
Turtle Creek, Union & Washington Townships)

	Rates	Fringes
Cable splicer.....	\$ 24.40	6.765
Electrician.....	\$ 23.90	6.75

ELEC0683-001 12/29/2003DELAWARE, FAIRFIELD, FRANKLIN, MADISON & PICKAWAY (Circleville,
Darby, Harrison, Jackson, Madison, Monroe, Muhlberg, Scioto,
Walnut & Washington Townships)

	Rates	Fringes
Electricians:		
Cable splicers.....	\$ 25.10	10.60
Electricians.....	\$ 24.50	10.59

* ELEC0683-006 06/02/2003DELAWARE, FAIRFIELD, FRANKLIN, MADISON & PICKAWAY (Circleville,
Darby, Harrison, Jackson, Madison, Monroe, Muhlberg, Scioto,
Walnut & Washington Townships)

	Rates	Fringes
Sound & Communication Technician		
Cable Pullers.....	\$ 10.65	4.15
Installers.....	\$ 20.12	4.64

ELEC0688-001 06/30/2003ASHLAND, CRAWFORD, HURON (Richmond, New Haven, Ripley &
Greenwich Townships), KNOX (Liberty, Clinton, Union, Howard,
Monroe, Middleberry, Morris, Wayne, Berlin, Pike, Brown &
Jefferson Townships), MORROW, RICHLAND & WYANDOT (Sycamore,
Crane, Eden, Pitt, Antrim & Tymochtee Townships)

	Rates	Fringes
Electrician.....	\$ 24.95	10.75

* ELEC0688-004 06/02/2003ASHLAND, CRAWFORD, HURON (Richmond, New Haven, Ripley &
Greenwich Townships), KNOX (Liberty, Clinton, Union, Howard,
Monroe, Middleberry, Morris, Wayne, Berlin, Pike, Brown &
Jefferson Townships), MORROW, RICHLAND & WYANDOT (Sycamore,
Crane, Eden, Pitt, Antrim & Tymochtee Townships)

	Rates	Fringes
Sound & Communication		

Technician

Cable Pullers.....	\$ 10.41	4.60
Installers.....	\$ 19.68	5.09

ELEC0867-001 06/01/1998

ERIE

	Rates	Fringes
Line Construction		
Lineman; Cable Splicer; & Equipment Operator.....	\$ 20.75	4.09
Truck Driver (Winch) Groundman; & Groundman.....	\$ 13.49	3.87

ELEC0972-001 03/01/2004

MONROE, MORGAN, NOBLE, VINTON (Brown, Knox, Madison, Vinton & Wilkesville Townships) & WASHINGTON

	Rates	Fringes
Electricians:		
Cable Splicer.....	\$ 25.03	15.55
Electrician.....	\$ 24.78	15.54

ELEC1105-001 06/04/2001

COSHOCTON, GUERNSEY, KNOX (Jackson, Clay, Morgan, Miller, Milford, Hilliar, Butler, Harrison, Pleasant & College Townships), LICKING, MUSKINGUM, PERRY & TUSCARAWAS (Auburn, York, Clay, Jefferson, Rush, Oxford, Washington, Salem, Perry & Bucks Townships)

	Rates	Fringes
Electrician.....	\$ 22.12	6.56

* ELEC1105-002 06/02/2003

COSHOCTON, GUERNSEY, KNOX (Jackson, Clay, Morgan, Miller, Milford, Hillard, Butler, Harrison, Pleasant & College Townships), LICKING, MUSKINGUM, PERRY & TUSCARAWAS (Auburn, York, Clay, Jefferson, Rush, Oxford, Washington, Salem, Perry & Bucks Townships)

	Rates	Fringes
Sound & Communication Technician		
Cable Puller.....	\$ 9.89	5.63
Installer.....	\$ 18.74	6.09

ELEV0006-003 01/01/2004

	Rates	Fringes
Elevator Mechanic.....	\$ 31.31	10.865+A

FOOTNOTE:

A. Employer contributes 8% of regular hourly rate as vacation pay credit for employees with more than 5 years of service, and 6% for 6 months to 5 years of service. Paid Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Veterans Day; Thanksgiving Day; The day after Thanksgiving and Christmas Day.

ELEV0011-001 06/22/2002

ADAMS, BROWN, BUTLER, CLERMONT, CLINTON, GREENE, HIGHLAND, MIAMI, MONTGOMERY, PREBLE & WARREN

	Rates	Fringes
Elevator Mechanic.....	\$ 26.255	7.455+a+b

FOOTNOTES:

a. 7 Paid Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; the Day after Thanksgiving; & Christmas Day

b. Employer contributes 8% of regular hourly rate to vacation pay credit for employee who has worked in business more than 5 years; 6% for less than 5 years' service.

ELEV0017-001 07/01/2002

ERIE & HURON

	Rates	Fringes
Elevator Mechanic.....	\$ 30.205	7.455+a+b

FOOTNOTES:

a. 7 Paid Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; Day After Thanksgiving; & Christmas Day

b. Employer contributes 8% of regular hourly rate to vacation pay credit for employee who has worked in business more than 5 years; 6% for less than 5 years.

ELEV0037-001 07/16/2000

ASHLAND, COSHOCTON, CRAWFORD, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, HOCKING, HOLMES, KNOX, LICKING, MADISON, MORGAN, MORROW, MUSKINGUM, PERRY, PICKAWAY, RICHLAND, ROSS, TUSCARAWAS & VINTON

	Rates	Fringes
Elevator Mechanic.....	\$ 25.335	7.195+a+b

FOOTNOTES:

a. 7 Paid Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; the Day after Thanksgiving; & Christmas Day

b. Employer contributes 8% of regular hourly rate to vacation pay credit for employee who has worked in business more than 5 years; 6% for less than 5 years.

ELEV0044- 001 07/31/2000

ALLEN, AUGLAIZE, HANCOCK, OTTAWA, SANDUSKY, SENECA, WOOD & WYANDOT

	Rates	Fringes
Elevator Mechanic.....	\$ 28.385	7.195+a+b

FOOTNOTES:

a. 7 Paid Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; The Day after Thanksgiving; & Christmas Day

b. Employer contributes 8% of regular hourly rate to vacation pay credit for employee who has worked in business more than 5 yrs.; 6% for less than 5 yrs.

ELEV0045- 001 07/09/2000

WAYNE

	Rates	Fringes
Elevator Mechanic.....	\$ 27.305	7.195+a+b

FOOTNOTES:

a. 7 Paid Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; Day after Thanksgiving; & Christmas Day

b. Employer contributes 8% of regular hourly rate to vacation pay credit for employee who has worked in business more than 5 years; 6% for less than 5 years.

ELEV0048- 002 09/28/1998

JACKSON, PIKE & SCIOTO

	Rates	Fringes
Elevator Mechanic.....	\$ 22.795	6.12+a+b

FOOTNOTES:

a. 7 Paid Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; the Day after Thanksgiving Day; & Christmas Day

b. Employer contributes 8% of regular hourly rate to vacation pay credit for employee who has worked in business more than 5 years; 6% for less than 5 years' service

ENGI0018-001 05/01/2003

ADAMS, ALLEN, ASHLAND, AUGLAIZE, BELMONT, BROWN, BUTLER,
CLERMONT, CLINTON, COSHOCTON, CRAWFORD, DELAWARE, FAIRFIELD,
FAYETTE, FRANKLIN, GREENE, GUERNSEY, HANCOCK, HARRISON,
HIGHLAND, HOCKING, HOLMES, JACKSON, JEFFERSON, KNOX, LICKING,
MADISON, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM,
NOBLE, OTTAWA, PERRY, PICKAWAY, PIKE, PREBLE, RICHLAND, ROSS,
SANDUSKY, SCIOTO, SENECA, TUSCARAWAS, VINTON, WARREN,
WASHINGTON, WAYNE & WYANDOT

	Rates	Fringes
Power Equipment Operator		
GROUP 1.....	\$ 27.14	7.10
GROUP 2.....	\$ 26.89	7.10
GROUP 3.....	\$ 26.64	7.10
GROUP 4.....	\$ 26.39	7.10
GROUP 5.....	\$ 26.27	7.10
GROUP 6.....	\$ 25.23	7.10
GROUP 7.....	\$ 24.05	7.10
GROUP 8.....	\$ 18.59	7.10

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1 - Boom & Jib 250' & Over

GROUP 2 - Boom & Jib Over 180' through 249'

GROUP 3 - Boom & Jib 150' through 180'; & Master Mechanic

GROUP 4 - Barrier Moving Machine; Boiler or Compressor Mounted on Crane (Piggy-Back Operation); Boom Truck; Cableway; Cherry Picker; Combination Concrete Mixer & Tower; Concrete Pump with Booms; Crane; Derrick; Dragline; Dredge (Dipper, Clam or Suction) 3 Man Crew; Elevating Grader or Euclid Loader; Floating Equipment; Forklift(rough terrain with winch/hoist) Gradall; Helicopter Operator & Helicopter Winch Operator (Hoisting Builders Materials); Hoe; Hoist (Two or More Drums); Horizontal Directional Drill; Hydraulic Gantry (Lift System); Laser Finishing Machine; Laser Screed and Like Equipment; Slab or Panel Jack; Locomotive; Maintenance Engineer (Mechanic); Mixer, Paving (Multiple Drum); Mobile Concrete Pump With Boom; Panelboard; Pile Driver; Power Shovel; Prentice Loader; Rail Tamper with automatic lifting & align device; Rotary Drill used on Caisson Work for Foundations & Substructure work; Side Boom; Slip Form Paver; Straddle Carrier; Trench Machine (Over 24" Wide); & Tug Boat

GROUP 5 - Asphalt Paver; Bobcat-type and/or Skid Steer Loader with Hoe Attachment Greater than 7,000 lbs.; Bulldozer; C. M. I. Type Equipment; Concrete Grinder/Planer; Endloader; Hydro Milling Machine; Kolman Type Loader (Dirt Loading); Lead Greaseman; Mucking Machine; Pettibone-Rail Equipment; Power Grader; Power Scoop; Power Scraper; Push Cat; & Vermeer Type Concrete Saw

GROUP 6 - A-Frame; Air Compressor (Pressurizing Shafts or Tunnels); Asphalt Roller; Bobcat-type and/or Skid Steer Loader with or without Attachments; Concrete Pump without Booms & with 5" System; Highway Drillers with Integral Power; Hoist (One Drum); Boiler (15 lbs. pressure & over); ForkLift

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(except Masonry); House Elevator (except those automatic call button controlled); Man Lift; Mud Jack; Pressure Grouting; Pump (Installing or Operating Well Points or other Type of Dewatering Systems); Pump (4" and over Discharge); Submersible Pump (4" and over Discharge); Switch & Tie Tamper w/o lifting & aligning device; Trench Machine (24" & under); Utility; Railroad Tie Inserter/Remover; & Rotovator (Lime-Soil Stabilizer)

GROUP 7 - Compressor; Concrete Mixer (Capacity more than one bag); Concrete Mixer (one bag capacity, side loader); Conveyor; Generator; Guniting Machine; Pavement Breaker (Hydraulic or Cable); Post Driver; Post Hole Digger; Road Widening Trencher; Roller (except Asphalt); Ballast Relocator; Backfiller & Tamper; Bar & Joint Installing Machine; Batch Plant; Bullfloat; Burlap & Curing Machine; Clefplane; Concrete Spreader; Crusher; Deckhand; Drum Fireperson (In Asphalt Plant); Farm-type Tractor (Pulling Attachments); Finishing Machine; Form Trencher; Hydro Seeder; Pressure Pump (over 1/2" discharge); Self-propelled Sub-Grader; Tire Repairman; Tractor (Pulling Sheep Foot Roller or Grader); Vibratory Compactor (with Integral Power); Vac/All; Concrete Pump without Booms with 4" or Smaller System; Self-Propelled Power Spreader; & Shotcrete Machine

GROUP 8 - Allen Screed Paver(concrete); Boiler (Less than 15 lbs. pressure); Directional Drill "Locator"; Masonry Fork Lift; Inboard & Outboard Motor Boat Launch; Light Plant; Oiler; Power Driven Heater (Oil Fired); Power Scrubber; Power Sweeper; Pump (Under 4" discharge); Signal Person; & Submersible Pump (Under 4" discharge)

ENGI0018-002 05/01/2002

ERIE & HURON

	Rates	Fringes
Power Equipment Operator		
Crane (Boom & Jib 200' & Over, Up to 299'); Master Mechanic.....	\$ 28.92	7.06
Crane (Boom & Jib 300' & Over).....	\$ 29.17	7.06
GROUP 1.....	\$ 28.42	7.06
GROUP 2.....	\$ 28.27	7.06
GROUP 3.....	\$ 27.12	7.06
GROUP 4.....	\$ 26.34	7.06
GROUP 5.....	\$ 26.02	7.06
GROUP 6.....	\$ 19.24	7.06

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1 - A-Frame; Boiler or Compressor Operator, Hydraulic Pump & Power Pacs Mounted on Crane (Piggy-Back Operation); Boom Truck; Cableway; Cherry Picker; Combination Concrete Mixer & Tower; Concrete Pump; Derrick; Dragline; Dredge (Dipper, Clam or Suction) 3 Man Crew; Elevating Grader or Euclid Loader; Floating Equipment; Gradall; Helicopter Operator & Helicopter Winch Operator (When Hoisting Builders Materials); Hoe; Hoist (Two or More Drums); Lift Slab or Panel Jack Operator; Locomotive; Maintenance Engineer (Mechanic); Mixer Paving (Multiple Drum); Mobile Concrete Pump, with Boom; Panelboard; Pile Driver; Power Shovel;

Robotic Equipment; Operator/Mechanic; Rotary Drill used on Caisson Work for Foundations & Substructure Work; Side Boom Slip Form Paver; Straddle Carrier; Trench Machine (Over 24" Wide); & Tug Boat

GROUP 2 - Asphalt Paver; Bulldozer; C. M. I. Type Equipment; End Loader; Kohlman Type Loader (Dirt Loading); Lead Greaseman; Mucking Machine; Power Grader; Power Scoop; Power Scraper; & Push Cat; Horizontal Directional Drill Locator; Horizontal & Directional Drill Operator

GROUP 3 - Air Compressor (Pressurizing Shafts & Tunnels); Asphalt Roller; Fork Lift; Hoist (One Drum); House Elevator (Except Automatic Call Button-controlled); Man Lift; Mud Jack; Power Boiler (Over 15 lbs. Pressure); Pressure Grouting; Pump Operator (Installing Well Points or other type of Dewatering system); Trencher (24" & under); & Utility Operator

GROUP 4 - Compressor; Conveyor; Generator; Gunit Machine; Concrete Mixer (Capacity more than one bag); Concrete Mixer (One Bag capacity, Side Loader); Pavement Breaker (Hydraulic or Cable); Post Driver; Post Hole Digger; Road Widening Trencher; & Roller

GROUP 5 - Backfiller & Tamper; Bar & Joint Installing Machine; Batch Plant; Bullfloat; Burlap and Curing Machine; Cleaning Machine (decontamination included); Clefplane; Concrete Spreader Machine; Crusher; Deck Hand; Drum Fireman (In Asphalt Plant); Farm-type Tractor (Pulling attachment); Finishing Machine; Fork Lift (Masonry Work); Form Trencher High Pressure Pump (Over 1/2" discharge); Hydro Seeder; Pump (4" and Over discharge); Sub-mersible Pump (4" and Over discharge); Self-propelled Power Spreader; Self-propelled Sub-grader; Tire Repairman; Tractor (Pulling Sheeps Foot Roller or Grader); & Vibratory Compactor (With Integral Power)

GROUP 6 - Inboard & Outboard Motor Boat Launch; Light Plant Operator; Oiler; Power Driven Heater (Oil Fired); Power Scrubber; Power Sweeper; Power Boiler (Less than 15 lbs. Pressure); Pump (Under 4" discharge); Submersible Pump (Under 4" discharge); Signal person; Bob Cat-type and/or Skid Steer Loader; Grade Checker; & VAC/ALL

 ENGI0018-007 05/01/2003

WOOD

	Rates	Fringes
Power Equipment Operator		
GROUP 1.....	\$ 27.89	7.10
GROUP 2.....	\$ 27.64	7.10
GROUP 3.....	\$ 27.39	7.10
GROUP 4.....	\$ 27.14	7.10
GROUP 5.....	\$ 27.02	7.10
GROUP 6.....	\$ 25.98	7.10
GROUP 7.....	\$ 24.80	7.10
GROUP 8.....	\$ 19.34	7.10

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1 - Boom & Jib 250' & Over

GROUP 2 - Boom & Jib Over 180' through 249'

GROUP 3 - Boom & Jib 150' through 180'; & Master Mechanic

GROUP 4 - Barrier Moving Machine; Boiler or Compressor Mounted on Crane (Piggy-Back Operation); Boom Truck; Cableway; Cherry Picker; Combination Concrete Mixer & Tower; Concrete Pump with Booms; Crane; Derrick; Dragline; Dredge (Dipper, Clam or Suction) 3 Man Crew; Elevating Grader or Euclid Loader; Floating Equipment; Forklift (rough terrain with winch/hoist) Gradall; Helicopter Operator (Hoisting Builders Materials); Helicopter Winch Operator (Hoisting Building Materials); Hoe; Hoist (Two or More Drums); Horizontal Directional Drill; Hydraulic Gantry (Lift System); Laser Finishing Machine; Laser Screed and Like Equipment; Lift Slab or Panel Jack; Locomotive; Maintenance Engineer (Mechanic); Mixer Paving (Multiple Drum); Mobile Concrete Pump (With Boom); Panelboard; Pile Driver; Power Shovel; Prentice Loader; Concrete Pump with Boom; Rail Tamper with automatic lifting & align device; Rotary Drill used on Caisson Work for Foundations & Substructure work; Side Boom; Slip Form Paver; Straddle Carrier; Trench Machine (Over 24" Wide); & Tug Boat

GROUP 5 - Asphalt Paver; Bobcat-type and/or Skid Steer Loader with Hoe Attachment Greater than 7,000 lbs.; Bulldozer; Power Grader; C. M. I. Type Equipment; Concrete Grinder/Planer; Endloader; Push Cats; Hydro Milling Machine; Kolman Type Loader (Dirt Loading); Lead Greaseman; Mucking Machine; Pettibone-Rail Equipment; Power Scoop; Power Scraper; & Vermeer Type Concrete Saw

GROUP 6 - A-Frame; Air Compressor (Pressurizing Shafts or Tunnels); Asphalt Roller; Bobcat-type and/or Skid Steer Loader with or without Attachments; Highway Drillers with Integral Power; Hoist (One Drum); Boiler (15 lbs. pressure & over); Concrete Pump without Booms with 5" System; ForkLift (except Masonry); House Elevator (except those automatic call button controlled); Man Lift; Mud Jack; Pressure Grouting; Pump (Installing or Operating Well Points or other Type of Dewatering Systems); Pump (4" and over Discharge); Submersible Pump (4" and over Discharge); Switch & Tie Tamper w/o lifting & aligning device; Trench Machine (24" & under); Utility; Railroad Tie Inserter/Remover; & Rotovator (Lime- Soil Stabilizer)

GROUP 7 - Compressor; Concrete Mixer (Capacity more than one bag); Concrete Mixer (one bag capacity, side loader); Conveyor; Generator; Guniting Machine; Pavement Breaker (Hydraulic or Cable); Post Driver; Post Hole Digger; Road Widening Trencher; Roller (except Asphalt); Ballast Relocator; Backfiller & Tamper; Bar & Joint Installing Machine; Batch Plant; Bullfloat; Burlap & Curing Machine; Clefplane; Concrete Spreader; Crusher; Deckhand; Drum Fireperson (In Asphalt Plant); Farm-type Tractor (Pulling Attachments); Finishing Machine; Form Trencher; Hydro Seeder; Pressure Pump (over 1/2" discharge); Self-propelled Sub-Grader; Tire Repairman; Tractor (Pulling Sheep Foot Roller or Grader); Vibratory Compactor (with Integral Power); Vac/All; Concrete Pump without Booms & With 4" System or Smaller; Self-Propelled Power Spreader; & Shotcrete Machine

GROUP 8 - Allen Screed Paver(concrete); Boiler (Less than 15 lbs. pressure); Directional Drill "Locator"; Masonry Fork

Lift; Inboard & Outboard Motor Boat Launch; Light Plant; Oiler; Power Driven Heater (Oil Fired); Power Scrubber; Power Sweeper; Pump (Under 4" discharge); Signal Person; & Submersible Pump (Under 4" discharge)

IRON0017-001 08/01/2003

ERIE (Eastern 2/3) & HURON (East of a line drawn from the north border through Monroeville & Willard)

	Rates	Fringes
Ironworkers:		
Ornamental; Reinforcing & Structural.....	\$ 25.55	14.78

IRON0044-001 06/01/2003

ADAMS (Western Part), BROWN, BUTLER (Southern Part), CLERMONT, CLINTON (South of a line drawn from Blanchester to Lynchburg), HIGHLAND (Excluding eastern one-fifth & portion of county inside lines drawn from Marshall to Lynchburg from the northern county line through E. Monroe to Marshall) & WARREN (South of a line drawn from Blanchester through Morrow to the west county line)

	Rates	Fringes
Ironworkers:		
Fence Erector.....	\$ 22.05	11.13
Ornamental; Structural.....	\$ 24.50	11.13

* IRON0055-001 07/01/2003

CRAWFORD (Area between lines drawn from where Hwy #598 & #30 meet through North Liberty to the northern border & from said Hwy junction point due west to the border), ERIE (Western one-third), HANCOCK, HURON (West of a line drawn from the northern border through Monroeville & Willard), OTTAWA, SANDUSKY, SENECA, WOOD & WYANDOT (North of Rte. #30)

	Rates	Fringes
Ironworkers:		
All Other Work.....	\$ 24.15	13.34
Fence Erector.....	\$ 18.43	13.34
Furnaces & Kilns (Temperature units over 125 degrees Fahrenheit).....	\$ 25.15	13.34
Pre-Engineered Metal Building.....	\$ 19.43	13.34

IRON0147-001 10/01/2003

ALLEN COUNTY (Northern half)

	Rates	Fringes
Ironworker.....	\$ 22.05	11.67

IRON0172-001 10/01/2003

COSHOCTON (West of a line beginning at the northwest county line going through Walhonding & Tunnel Hill to the southern county line), CRAWFORD (South of Rte. #30), DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, HIGHLAND (Eastern one-fifth), HOCKING, JACKSON (Northern half), KNOX, LICKING, MADISON, MORROW, MUSKINGUM (West of a line starting at Adams Mill going to Adamsville & going from Adamsville through Blue Rock to the southern border), PERRY, PICKAWAY, PIKE, ROSS, VINTON & WYANDOT (South of Rte. #30)

	Rates	Fringes
Ironworker.....	\$ 24. 40	11. 16

IRON0290-001 06/01/2003

ALLEN (Southern half), AUGLAIZE, BUTLER (North of a line drawn from east to the west county line going through Oxford, Darrrtown & Woodsdale), CLINTON (Excluding south of a line drawn from Blanchester to Lynchburg), GREENE, HIGHLAND (Inside lines drawn from Marshall to Lynchburg & from the northern county line through East Monroe to Marshall), MIAMI, MONTGOMERY, PREBLE & WARREN (Excluding south of a line drawn from Blanchester through Morrow to the west county line)

	Rates	Fringes
Ironworker		
Beyond 25 mile radius		
of L. U. #290 Office,		
Dayton.....	\$ 24. 28	11. 00
Within 25 mile radius		
of L. U. #290 Office,		
Dayton.....	\$ 24. 13	11. 00

IRON0372-001 06/01/2002

ADAMS (Western Part), BROWN, BUTLER (Southern Part), CLERMONT, CLINTON (South of a line drawn from Blanchester to Lynchburg), HIGHLAND (Excluding eastern one-fifth & portion of county inside lines drawn from Marshall to Lynchburg from the northern county line through E. Monroe to Marshall) & WARREN (South of a line drawn from Blanchester through Morrow to the west county line)

	Rates	Fringes
Ironworker, Reinforcing		
Beyond 30-mile radius		
of Hamilton County		
Courthouse.....	\$ 22. 96	10. 47
Up to & including		
30-mile radius of		
Hamilton County		
Courthouse.....	\$ 22. 71	10. 47

IRON0549-002 07/01/2003

GREENE COUNTY

	Rates	Fringes
Ironworker.....	\$ 25.82	12.64

IRON0549-003 07/01/2003

BELMONT, GUERNSEY, HARRISON, JEFFERSON, MONROE & MUSKINGUM
(Excluding portion west of a line starting at Adams Mill going
to Adamsville and going from Adamsville through Blue Rock to
the south border)

	Rates	Fringes
Ironworker.....	\$ 25.82	12.64

IRON0550-001 05/01/2003

ASHLAND, COSHOCTON (E. of a line beginning at NW Co. line going
through Walhonding & Tunnel Hill to the South Co. line),
HOLMES, HURON (S. of Old Route #224), RICHLAND, TUSCARAWAS &
WAYNE

	Rates	Fringes
Ironworkers: Structural, Ornamental and Reinforcing.....	\$ 20.76	12.92

IRON0769-003 06/01/2003

ADAMS (Eastern Half), JACKSON (Southern Half) & SCIOTO

	Rates	Fringes
Ironworkers:		
ZONE 1.....	\$ 25.67	11.57
ZONE 2.....	\$ 26.07	11.57
ZONE 3.....	\$ 28.07	11.57

ZONE 1 - Up to 10 mile radius of Union Hall, Ashland, Ky.,
1643 Greenup Ave.

ZONE 2 - 10 to 50 mile radius of Union Hall, Ashland, Ky.,
1643 Greenup Ave.

ZONE 3 - 50 mile radius & over of Union Hall, Ashland, Ky.,
1643 Greenup Ave.

IRON0787-002 06/01/2003

MORGAN, NOBLE & WASHINGTON

	Rates	Fringes
Ironworker.....	\$ 25.26	11.25

LAB00083-001 06/01/2003

ADAMS, HIGHLAND, JACKSON, PIKE, ROSS, SCIOTO & VINTON

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Rates Fringes

Laborer		
GROUP 1.....	\$ 25.49	4.40
GROUP 2.....	\$ 25.74	4.40
GROUP 3.....	\$ 25.99	4.40

LABORER CLASSIFICATIONS

GROUP 1 - Building & Construction; Carpenter Tender; Bottom Man; Mason Tender; Mortar Mixer; Pipe Layer; Plasterer Tender; Sheeting & Shoring Man; & Signalman

GROUP 2 - Air & Machine Driver Tool Operator; Asphalt Raker & Smoother; Burning & Cutting Torch; Chain Saw; Form Setter (Street & Highway); Hand Spiker; & Powered Concrete Buggy

GROUP 3 - Gunnite Machine Operator; Gunnite Nozzle Man; Miner (Tunnel & Caisson); Mucker (Tunnel & Caisson); & Powder Man & Blaster

HAZARDOUS & HIGH WORK IN EXCESS OF 25 FEET ABOVE SOLID BASE - \$.25 PREMIUM

WORKERS HANDLING CREOSOTED OR INJURIOUS CHEMICALLY TREATED MATERIALS - \$.25 PREMIUM

THE ERECTION, ALTERATION, REPAIR OR DEMOLITION OF REINFORCED CONCRETE CHIMNEYS, MASONRY CHIMNEYS, SILOS, & FURNACES RECEIVE THE FOLLOWING RATES:

- 0 TO 25 FEET - BASE RATE
- 25 TO 100 FEET - \$1.00 PREMIUM
- 100 TO 150 FEET - \$1.25 PREMIUM
- 150 TO 200 FEET - \$1.50 PREMIUM
- 200 TO 250 FEET - \$1.75 PREMIUM
- OVER 250 FEET - \$2.00 PREMIUM

* LAB00134-001 05/01/2004

COSHOCTON, HOLMES & TUSCARAWAS

Rates Fringes

Laborer		
GROUP 1.....	\$ 20.76	4.40
GROUP 2.....	\$ 21.16	4.40
GROUP 3.....	\$ 21.69	4.40
GROUP 4.....	\$ 21.81	4.40

LABORER CLASSIFICATIONS

GROUP 1 - Building & Construction; Signalman; Flagman; Carpenter Tender; Finisher Tender; Concrete Handler; Utility Construction; Guard Rail Erector; & Hazardous Waste Removal (Level D) Personal Protective Equipment (PPE)

GROUP 2 - Bottom Man; Scaffold Builder; Tunnel; Pipe Layer; Air & Power Driven Tool; Burner on Demolition Work; Swinging Scaffold; Mucker; Caisson Worker; Cofferdam Worker; Powder Man & Dynamite Blaster; Creosote Worker; Form Setter; Plasterer Tender; Hod Carrier; All Confined Space Work; Furnaces; Pickel Tubs; Acid Pits & Hazardous Waste Removal (Level C) Personal Protective Equipment (PPE)

GROUP 3 - Mason Tender; Mortar Mixer; Stonemason Tender; Skid Steer Loader; & Hazardous Waste Removal (Level B) Personal Protective Equipment (PPE)

GROUP 4 - Gunnite Operator; & Hazardous Waste Removal (Level A) Personal Protective Equipment (PPE)

LAB00265-001 06/01/2003

BROWN, CLERMONT & CLINTON

	Rates	Fringes
Laborer		
GROUP 1.....	\$ 20.70	4.65
GROUP 2.....	\$ 20.80	4.65
GROUP 3.....	\$ 20.85	4.65
GROUP 4.....	\$ 20.90	4.65
GROUP 5.....	\$ 21.20	4.65
GROUP 6.....	\$ 21.45	4.65

LABORER CLASSIFICATIONS

GROUP 1 - Building and Common Laborer; Asbestos Removal; Cement Mason Tender; Hand-Operated Mechanical Mule; Mechanical Mule; Mechanical Sweeper; Signaler; Flagger; Wrecking Laborer

GROUP 2 - Bottom Man; Pipe Layer

GROUP 3 - Skid Steer; Burning Torch Operator; Jack Hammer; Air Spade; Chipping Hammer; Mechanical and Air Tamper Operator; Mechanical Concrete Buggy; Power Operated Mechanical Mule; Concrete Pump Hose Man; Vibrator Man; CERCLA Trained Hazardous Material Removal - Levels A, B, C

GROUP 4 - Bottom Jack Hammer Man

GROUP 5 - Tunnel Laborer

GROUP 6 - Gunnite Nozzle Operator

LAB00265-003 06/01/1997

BROWN, CLERMONT & CLINTON

	Rates	Fringes
Plasterer tender		
Mixer Pump Operator.....	\$ 18.45	3.90
Tender.....	\$ 18.30	3.90

LAB00265-007 06/01/2003

BROWN, CLERMONT & CLINTON

	Rates	Fringes
Laborer: Mason Tender.....	\$ 22.50	4.65

* LAB00329-001 05/01/2004

ALLEN & AUGLAIZE

	Rates	Fringes
Laborer		
GROUP 1.....	\$ 20.96	4.40
GROUP 2.....	\$ 21.11	4.40
GROUP 3.....	\$ 21.26	4.40
GROUP 4.....	\$ 21.46	4.40

LABORER CLASSIFICATIONS

GROUP 1 - Building; Signal Person; Power Wheelbarrow or Power Buggy; Removal of Asbestos & Hazardous Waste (Levels C & D)

GROUP 2 - Vibrator; Cement Finisher Tender; Cement Raker; Asphalt Raker; Tamper & Packer; Pump Man Under 4" Discharge; Caisson; Cofferdam; Tunnel; Spiker Railroad (By Hand); Pot Tender; Torch Man; Demolition; Machine Driven Tools (Gas, Electric, Air)

GROUP 3 - Plaster Tender; Mortar Mixer; Cylinder, Shaft; Sewer, Water Conduit; Gas, Oil Pipeline, except Mainlines; Sewer Bottom Man; Sewer Pipe Layer; Manhole Builder; Blaster Tender; Wagon Drill Tender; Jack Hammer; Gunnite Operator; Mucker (Tunnel & Caisson) Free Air; Miner (Tunnel & Caisson) Free Air; Sand Blaster; Blaster-Powder Man; Wagon Drill/Operator; & Removal of Toxic & Hazardous Waste (Levels A & B)

GROUP 4 - Mason Tender

LAB00423-001 06/01/2003

FAIRFIELD, FAYETTE, FRANKLIN, HOCKING, LICKING, MADISON & PICKAWAY

	Rates	Fringes
Laborer		
GROUP 1.....	\$ 19.68	4.40
GROUP 2.....	\$ 19.99	4.40
GROUP 3.....	\$ 20.30	4.40
GROUP 4.....	\$ 20.61	4.40

LABORER CLASSIFICATIONS

GROUP 1 - General laborers; Carpenter tender; Cathodic protection; Cleaning debris; Cleaning of all material; General clean-up including vacuum cleaning, scraping and cleaning of walls and floors; Landscape; Installation and removal of fencing; Sod layers; All portable heaters; Flagman; Loading and unloading of all trucks; Handling and conveying all materials; Washing of all windows; Conveyor belt; Jurisdiction over the use of all water pumps up to and including 3 inch intake

GROUP 2 - Skid steer specialist; Concrete specialist; Brick tender; Stone mason tender; Plaster tender; Mortar mixer and operator; Cement mason tender; Construction specialist; All scaffold builders; Bush hammering; Jack hammer operator; Air or electrical pneumatic tool operator; Power driven tools; Power buggy operators; Pouring and placement of all concrete;

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Power wheelbarrow operator; Asphalt and blacktop rakers; Wall wrecker and bar man on demolition; Sand blasting and chipping; Welders on demolitions; Grade checkers; A person on a bucket pouring concrete; Guniting nozzle man; Wagon and churn drill operator; Concrete saw operator; Brush feeders on pulverizers; Pipe layers; Pavers set in sand; Bottom man; Laser gun; Burners; Sand blasting of concrete; Vibrator man; Steward; Signal man; Caisson; Caisson bottom man; Pile drivers; Asbestos and lead abatement laborers; Hazardous waste level B

GROUP 3 - Hazardous waste level C

GROUP 4 - Hazardous waste level D

LAB00480-001 06/01/2003

ERIE, HURON, OTTAWA & SANDUSKY

	Rates	Fringes
Laborer		
GROUP 1.....	\$ 22.76	4.40
GROUP 2.....	\$ 22.96	4.40
GROUP 3.....	\$ 23.36	4.40

LABORER CLASSIFICATIONS

GROUP 1 - Building & Construction Laborer; Carpenter Tender; Concrete Handler; Finisher Tender; Guard Rail Erector; Railroad Spur Work; Utility Construction Laborer; Signal Person; & Flagperson

GROUP 2 - Air & Power Driven Tool; Bottom Man; Burner on Demolition Work; Caisson Worker; Cofferdam Worker; Creosote Worker; Form Setter; Hod Carrier; Mason Tender; Mortar Mixer; Mucker; Pipelayer; Plasterer Tender; Powder Man & Dynamite Blaster; Scaffold Builder; Stonemason Tender; Swinging Scaffold; Tunnel Laborer; & Wet & Dry Vacuum Devices

GROUP 3 - Caustic Lime Worker; Dry Sandblast; Guniting Operator; Radioactive Atmosphere Worker (Special wearing apparel required); Asbestos Removal; & Hazardous Waste Removal

LAB00500-001 07/01/2003

WOOD COUNTY

	Rates	Fringes
Laborer		
GROUP 1.....	\$ 20.00	6.97
GROUP 2.....	\$ 20.20	6.97
GROUP 3.....	\$ 20.40	6.97
GROUP 4.....	\$ 20.50	6.97
GROUP 5.....	\$ 10.48	6.97
GROUP 6.....	\$ 13.50	6.97

LABORER CLASSIFICATIONS

GROUP 1 - Building & Construction; Signal person; Flagperson; Carpenter Tender; Utility Construction; Guard Rail Erector; Deep Cleaning; & Hazardous Waste (Level A)

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GROUP 2 - Finisher Tender; Concrete Handler; Bottom Man; Scaffold Builder; Tunnel Laborer; Pipelayer; Air & Power Driven Tools; Burner on Demolition Work; Swinging Scaffold; Mucker; Caisson Worker; Cofferdam Worker; Powder Man & Dynamite Blaster; Creosote Worker; Mortar Mixer; Form Setter; Mason Tender; Plasterer Tender; Hod Carrier; Stonemason Tender & Hazardous Waste (Level B)

GROUP 3 - Guniting Operator & Hazardous Waste (Level C)

GROUP 4 - Hazardous Waste (Level D)

GROUP 5 - Parking & Landscaping

GROUP 6 - Installation of Fencing

FIREBRICK WORK OVER 50 FEET, EXPEDITERS, HOT PAY, BOTTOM MAN & TOP MAN - \$.75 PER HOUR OVER GROUP 1.

LAB00530-001 06/01/2003

GUERNSEY, MUSKINGUM, NOBLE & PERRY

	Rates	Fringes
Laborer		
GROUP 1.....	\$ 19.27	4.40
GROUP 2.....	\$ 19.52	4.40
GROUP 3.....	\$ 19.77	4.40
GROUP 4.....	\$ 21.07	4.40

LABORER CLASSIFICATIONS

GROUP 1 - Building & Construction; Carpenter Tender; Tree Planter; Landscape Tree Trimmer; & Asbestos Removal, Hazardous Waste Removal

GROUP 2 - Air & Machine Driven Tool Operator; Asphalt Plant Aggremeter Operator; Asphalt Plant Mixer Man; Car Pusher and Tunnel Laborer; Caulker; Cement Handler; Concrete Puddler (Behind Mixer); Curb Cutter & Setter; Cutting with Burning Torch; Dumpman; Hand Spiker (Railroad); Jackhammer Operator; Mucker (Tunnel & Caisson); Pipelayer; Proportioning Plant Operator; Pump Man; Road Form Setter; Sewer Bottom Man; Sheeting & Shoring Man; Vibrator Operator; & Yarnier & Wrench Man

GROUP 3 - Mason Tender; Mortar Mixer Man; Brick Slinger; Stone Mason Tender; Plaster Tender; Lock Tender; Brick Dropper

GROUP 4 - Powder Man or Blaster; & Toxic/Hazardous Waste

LAB00534-001 06/01/2003

BUTLER & WARREN

	Rates	Fringes
Laborer		
GROUP 1.....	\$ 20.84	4.40
GROUP 2.....	\$ 20.94	4.40
GROUP 3.....	\$ 21.04	4.40
GROUP 4.....	\$ 21.17	4.40
GROUP 5.....	\$ 21.42	4.40

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GROUP 6	\$ 21.19	4.40
GROUP 7	\$ 21.44	4.40
GROUP 8	\$ 21.33	4.40
GROUP 9	\$ 21.29	4.40
GROUP 10	\$ 21.54	4.40

LABORER CLASSIFICATIONS

GROUP 1 - Building & Common Laborer; Rough Rider - 4" Small Pump; Portable Generator - Bobcat to Cleanup

GROUP 2 - Asphalt Raker; Chisel; Hand Air Pump; Hand Air Tamper; Handling & Laying Precast Concrete Floor & Deck; Power Tamper Operator; Smoother; Switch Assemblies; & Tamper

GROUP 3 - Concrete Specialist; Skid Steer (to perform laborers' duties); Jack Hammer and Concrete Busterman; Barco Tamper Man; Power Georgia Buggy Man; Power Sweeper Man; Vibrator; Concrete Saw Man; Rail Spikers; Acetylene Burner Pipe Layers; Bos'N or Cradleman; Bottom Man; Chipping Hammer Grade Checker; Form Cleanout and Blowout Man; Red Concrete Coloring Man (Electrical Safety)

GROUP 4 - Mason Tender; Mortar Mixer & Scaffold Builder

GROUP 5 - Forklift for Mason; Work involving Refractory Materials, including Demolition; Asbestos Removal & Hazardous Waste Removal (Handling, control, removal, abatement, encapsulation or disposal of asbestos & hazardous waste)

GROUP 6 - Gunnite Man; Sand Blaster Concrete Pump & Hose Man; & Blast Trac

GROUP 7 - Miner & Mucker, Free Air

GROUP 8 - Powderman or Blaster Above Ground

GROUP 9 - Mortar or Gypsum Machineman

GROUP 10 - Powderman Underground; & Scuba Diva

LAB00574-001 05/01/2003

	Rates	Fringes
Laborer		
DELAWARE COUNTY		
GROUP 1	..... \$ 19.68	4.40
GROUP 2	..... \$ 19.99	4.40
GROUP 3	..... \$ 20.30	4.40
GROUP 4	..... \$ 20.61	4.40
HANCOCK, SENECA & WYANDOT COUNTIES		
GROUP 1	..... \$ 21.25	4.40
GROUP 2	..... \$ 21.55	4.40
GROUP 3	..... \$ 21.75	4.40
GROUP 4	..... \$ 21.95	4.40

LABORER CLASSIFICATIONS

GROUP 1: Building & Construction; Signalman; Flagman; Carpenter Tender; Finisher Tender; Concrete Handler; Utility Construction; Guard Rail Erector; Fence Installer; Caulker; & Hazardous Waste (Level A)

GROUP 2: Bottom Man; Scaffold; Mucker; Caisson Worker; Powder Man; Dynamite Blaster; Creosote Worker; Mortar Mixer; Form Setter; Plasterer Tender; Hod Carrier; Stonemason Tender & Hazardous Waste (Level B)

GROUP 3: Mason Tender; Guniting Operator & Hazardous Waste (Level C)

GROUP 4: Hazardous Waste (Level D)

LAB00639-001 06/01/2003

MONROE, MORGAN & WASHINGTON

	Rates	Fringes
Laborer		
GROUP 1.....	\$ 23.77	4.40
GROUP 2.....	\$ 24.12	4.40

LABORER CLASSIFICATIONS

GROUP 1 - Asphalt Plant Aggrementer; Asphalt Plant Miner Man; Brick Slinger; Building & Construction; Car Pusher & Tunnel Laborer; Carpenter Tender; Cement Handler; Concrete Puddler Behind Mixer; Concrete Smoother; Drum Fireperson; Dump Man Batch Truck; Flagperson; Landscape Planter; Proportioning Plant Operator; Rammer Man; & Spreader Box Man

GROUP 2 - Air, Gas or Machine Driven Tool; Asphalt Raker; Tamper, Forker, Shoveler or Smoother; Caulker, Yarnier & Wrenchman; Cement Mason Tender; Curb Setter & Cutter; Form Setter; Grade Checker; Jackhammer Operator; Mason Tender; Mortar Mixer; Mucker (Tunnel & Caisson); Pipelayer; Pump Man (4" & Under); Sewer Bottom Man; Sheeting & Shoring Man; Stonemason Tender; Vibrator Operator; Plasterer Tender; Hand Spiker (Railroad); Concrete & Georgia Buggy Pusher; Deep Trench Work (Over 6'); Cutting & Burning Torch; Hydro-Water Jet Operator; Brick Dropper; Lock Tender; Miner (Tunnel & Caisson); Powderman or Blaster; & Signal person

LAB00809-001 07/01/2003

HARRISON & JEFFERSON

	Rates	Fringes
Laborer		
GROUP 1.....	\$ 20.52	5.40
GROUP 2.....	\$ 20.69	5.40
GROUP 3.....	\$ 20.72	5.40
GROUP 4.....	\$ 20.76	5.40
GROUP 5.....	\$ 20.85	5.40
GROUP 6.....	\$ 21.02	5.40
GROUP 7.....	\$ 21.05	5.40
GROUP 8.....	\$ 21.20	5.40
GROUP 9.....	\$ 21.35	5.40
GROUP 10.....	\$ 21.42	5.40

LABORER CLASSIFICATIONS

GROUP 1 - Carpenter Tender; Flagperson; General; Landscaper; & Hazardous Waste Level D

GROUP 2 - Brick Handler; Tender for Brick Mason, Plasterer & Stonemason; Mortarman for Mason & Plasterer; Man Mixing Cement for Cement Finisher; Scaffold Builder; Mortar Mixer Machine Operator; Fork Lift; Hazardous Waste Level C; Fork Truck; Walk Behind Concrete Saw; Form Setter; Epoxy; Paving Brick; Dry Block; Precast, Lagging, Decorate Blocks & Sand Stone

GROUP 3 - Concrete Buster; Jack Hammer; Air Spade; Chipping Hammer; Air Tamper; Vibrator; Power Buggy; Concrete Saw; Power Saw; Sandblaster; Acetylene Burner; Scuba Diver; Panel Cleaning Machine Operator; Signalman; Power Driven Tool; Air Pump; Air Blow Pipe; Pipelayer & Tender Working in Ditch or Tunnel; Hand Spiker on Railroad & Handling Concrete for Test or Working with Tar, Acid, Creosote & Asbestos, 2" & Under; Skid Steers; Hazardous Waste Level B; Fire Hose; High Pressure Water Hose; Super Sucker; Vacuum Truck & Hose; Core Driller; Drilling For Anchor Bolts; & Dowel Rods & Pins

GROUP 4 - Ditch, Trench, Caisson & Coffe Over 6' deep, Open Top

GROUP 5 - Work Pertaining to or in connection with & Repair of Stove, Blast Furnace, Basic Oxygen Process Furnace, Basic Oxygen Furnace, Steeple & Stack, Annealing Process Furnace, Kiln, Soaking Pit, Coke Battery on Industrial Work; Hazardous Waste Level A; Ram Cutter; Boiler on Industrial Work & Anything pertaining to, such as Expansion Joints, etc.; Demolition of Stack 50' to 100'; Tunnel; Mucker, including Caisson & Coffe, Horizontal & Underground

GROUP 6 - Demolition of Stack 100' to 150'

GROUP 7 - Miner, including Caisson & Coffe, Horizontal or Underground, Mucking Machine Operator

GROUP 8 - Blasterman & Tender; Bellman & Lancer; Bottom Man in Blast Furnace, Stack, Stove & Dust Catcher; Mud Man & Working with Carbon Brick & Handling Bottom Block on Blast Furnace, Stack, Stove & Dust Catcher

GROUP 9 - Gunnite Nozzleman & Gunnite Machine Operator - Grout Nozzleman & Grout Machine Operator

GROUP 10 - Demolition of Stack over 150'

* LAB01015-001 05/01/2004

WAYNE

	Rates	Fringes
Laborer		
GROUP 1.....	\$ 21.10	4.40
GROUP 2.....	\$ 21.50	4.40
GROUP 3.....	\$ 21.85	4.40
GROUP 4.....	\$ 21.70	4.40

LABORER CLASSIFICATIONS

GROUP 1 - Building & Construction; Signalman; Flagman; Carpenter Tender; Finisher Tender; Concrete Handler; Utility Construction; Guard Rail Erector; & Hazardous Waste Removal (Level D) Personal Protective Equipment (PPE)

GROUP 2 - Bottom Man; Scaffold Builder; Tunnel; Pipe Layer; Air & Power Driven Tool; Burner on Demolition Work; Swinging Scaffold; Mucker; Caisson Worker; Cofferdam Worker; Powder Man & Dynamite Blaster; Creosote Worker; Form Setter; Plasterer Tender; Hod Carrier; All Confined Space Work; Furnaces; Pickel Tubs; Acid Pits & Hazardous Waste Removal (Level C) Personal Protective Equipment (PPE)

GROUP 3 - Mason Tender; Mortar Mixer; Stonemason Tender; Skid, Steer Loader; & Hazardous Waste Removal (Level B) Personal Protective Equipment (PPE)

GROUP 4 - Gunnite Operator; & Hazardous Waste Removal (Level A) Personal Protective Equipment (PPE)

LAB01149-002 07/01/2002

BELMONT

	Rates	Fringes
Laborer		
GROUP 1.....	\$ 16.77	8.00
GROUP 2.....	\$ 17.07	8.00
GROUP 3.....	\$ 17.42	8.00

LABORER CLASSIFICATIONS

GROUP 1 - Unskilled; Carpenter Tender; Flagperson; Demolition Worker; Fire Watch; & Landscaper

GROUP 2 - Powderman on Concrete Pump Hose; Semi-skilled Laborer; Scaffold Builder; Grade Checker; Signal person; Tenders of: Brickmasons, Plasterers, Cement Finishers & Stonemasons; Mortar Mixer; Operators of: Jackhammers, Forklifts, Bobcats, Vibrators, Tampers, Pavement Busters, Chipping & Peening Hammers, Air Siphon & Air Pumps, Concrete Saws, Power Saws, Chain Saws, Motorized Buggies, Post Hole Diggers, Lance and/or Water Blasters & Batch House Scales; Riprap Finisher; Concrete Specialist; Concrete Technician; Sheeter & Shorer; Asphalt Raker; Persons Working with: Mastic Asphalt, Acid Brick, Acid & Creosote; Nozzleman for Gunnite or Sandblasting; Demolition Worker; Ride or Walk Roller Tamper; Deep Ditch Vertical & Manholes 6 ft. or more; Scaffolding Work over 50 ft. (inside or out); Asbestos Abatement; Hazardous Waste Worker; & Environmental Worker

GROUP 3 - Blacksmith; Powderman; Air Track Operator; Pipe Layer; & Burner

LAB01216-001 06/01/2003

ASHLAND, CRAWFORD, KNOX, MORROW & RICHLAND

	Rates	Fringes
Laborer		
GROUP 1.....	\$ 21.82	4.40
GROUP 2.....	\$ 22.02	4.40
GROUP 3.....	\$ 22.32	4.40

LABORER CLASSIFICATIONS

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GROUP 1 - Asbestos Handler; Building & Construction; Carpenter Tender; Concrete Handler; Finisher Tender; Flagperson; Guard Rail Erector; Hazardous Waste (Levels C & D); Signalperson; & Utility Construction Laborer

GROUP 2 - Air & Power Driven Tool; Bottom Man; Burner on Demolition Work; Caisson Worker; Cofferdam Worker; Creosote Worker; Form Setter; Gunite Operator; Hazardous Waste (Levels A & B); Hod Carrier; Mucker; Pipe Layer; Plasterer Tender; Powder Man & Dynamite Blaster; Swinging Scaffold; & Tunnel Laborer

GROUP 3 - Mason Tender; Mortar Mixer; Scaffold Builder; & Stonemason Tender

LAB01410-001 12/01/2003

GREENE, MIAMI, MONTGOMERY & PREBLE

	Rates	Fringes
Laborer		
GROUP 1.....	\$ 13.78	4.60
GROUP 2.....	\$ 16.78	4.60
GROUP 3.....	\$ 19.30	4.60
GROUP 4.....	\$ 20.85	4.60
GROUP 5.....	\$ 21.35	4.60

LABORER CLASSIFICATIONS

GROUP 1 - Signalman

GROUP 2 - Yardman-Landscaping; Sewer Jet; Unloading of Furniture and Fixtures; Final Clean-Up

GROUP 3 - Building & Construction; Railroad; Asbestos & Hazardous Waste (Levels A, B, C & D); Concrete Crew; Form Setter; Pipelayer; Bottom Man; Burner (Cutting Torch); All Machine & Power Driven Tools; Sandblaster

GROUP 4 - Mason Tender for Bricklayers; Flexicore; Firebrick Tender (Blast Furnaces, Soaking Pits, Stoves & Stacks); Plasterer Tenders

GROUP 5 - Tender Operator

LAB01410-002 12/01/2003

GREENE, MIAMI, MONTGOMERY & PREBLE

	Rates	Fringes
Laborer		
Tender for:		
Bricklayers, Mason & Flexicore.....	\$ 20.85	4.40
Tender Operator.....	\$ 21.35	4.40

PAIN0006-011 06/01/2003

ERIE, HANCOCK, HURON, OTTAWA (Allen, Bay, Bono, Catawba Island, Clay Center, Curtice, Danbury, Eagle Beach, Elliston, Elmore, Erie, Fishback, Gem Beach & Genoa), SANDUSKY, SENECA & WYANDOT

	Rates	Fringes
Painter		
Brush & Roller.....	\$ 21.07	6.38
Drywall.....	\$ 21.57	6.38
Paperhanging.....	\$ 21.32	6.38
Structural Steel.....	\$ 21.52	6.38

WINTER REPAINT: Between December 1 to March 31 - 90% JR

\$.50 PER HOUR SHALL BE ADDED TO THE RATE OF PAY FOR THE CLASSIFICATION OF WORK:

While working swingstage, boatswain chair, needle beam and horizontal cable.

While operating sprayguns, sandblasting, cobblasting, high pressure waterblasting (4000 psi), and for automatic taping and finishing tools for drywall.

\$1.00 PER HOUR SHALL BE ADDED TO THE RATE OF PAY FOR THE CLASSIFICATION OF WORK:

For the application of catalized epoxy, including latex epoxy that is deemed hazardous, lead abatement, or for work or material where special precautions beyond normal work duties must be taken.

For working on stacks, tanks, and towers over 40 feet in height.

PAIN0006-013 07/01/2001

OTTAWA (Excluding Allen, Bay, Bono, Catawba Island, Clay Center, Curtice, Danbury, Eagle Beach, Elliston, Elmore, Erie, Fishback, Gem Beach & Genova) & WOOD

	Rates	Fringes
Painter (NEW COMMERCIAL BUILDING WORK)		
GROUP 1.....	\$ 22.09	7.20
GROUP 2.....	\$ 22.34	7.20
GROUP 3.....	\$ 22.59	7.20
GROUP 4.....	\$ 22.84	7.20
GROUP 5.....	\$ 22.79	7.20
GROUP 6.....	\$ 23.09	7.20

REPAINT IS 90% OF JR

PAINTER CLASSIFICATIONS

GROUP 1 - Brush; Paperhanger; Drywall Taper & Finisher; Spray & Sandblasting Pot Tender

GROUP 2 - Refineries; & All Surfaces 30 ft. or over where material is applied to or labor performed on above ground level (exterior), floor level (interior)

GROUP 3 - Swing Stage & Chair

GROUP 4 - Application of Catalized Epoxies and Waterbased Epoxies of 2 or more component materials; Lead Paint Abatement

GROUP 5 - All Methods of Spray, Paint or any Material Applied with a Pressure Device

GROUP 6 - Solvent Based Material; Sand and Abrasive Blasting

PAIN0006-020 04/01/2000

ALLEN & AUGLAIZE

	Rates	Fringes
Painter		
Brush; Roller; & Drywall Taping.....	\$ 17.20	5.30
Paperhanger.....	\$ 17.45	5.30
Spray; Sandblasting; Pressure Cleaning & Drywall (Using stilts & automatic tools).....	\$ 17.95	5.30

Swing Stage, Chair, Safety Belts, Spiders & Cherry Pickers - \$.25 premium

All Surfaces 40 ft. or over where material is applied to or labor performed on, above ground level (exterior), floor level (interior) - \$.50 premium

Applying Coal Tar Products - \$1.00 premium

PAIN0006-023 05/01/2002

ERIE (Excluding NW tip to Route #4), & HURON (NE part)

	Rates	Fringes
Glazier.....	\$ 25.08	8.29

PAIN0006-025 09/01/2001

ALLEN, AUGLAIZE, HANCOCK & WYANDOT (W. part)

	Rates	Fringes
Glazier.....	\$ 14.85	3.50

PAIN0006-026 07/01/2001

ERIE (NW tip of county to Route #4), OTTAWA, SANDUSKY, SENECA, & WOOD

	Rates	Fringes
Glazier.....	\$ 23.53	5.79

PAIN0012-007 06/14/2003

BUTLER

	Rates	Fringes
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Painter		
GROUP 1.....	\$ 18.91	7.89
GROUP 2.....	\$ 19.41	7.89
GROUP 3.....	\$ 19.66	7.89
GROUP 4.....	\$ 19.91	7.89

PAINTERS CLASSIFICATIONS

GROUP 1: Brush & Roller; Paperhanger; & Drywall Taping

GROUP 2: Spray

GROUP 3: Sandblasting; & Waterblasting

GROUP 4: Lead Abatement

PAIN0012-009 06/14/2003

BROWN, CLERMONT, CLINTON & WARREN

	Rates	Fringes
Painter		
GROUP 1.....	\$ 21.30	5.50
GROUP 2.....	\$ 21.80	5.50
GROUP 3.....	\$ 22.05	5.50
GROUP 4.....	\$ 22.30	5.50

PAINTER CLASSIFICATIONS

GROUP 1: Brush; Roller; Paperhanging and Wall Covering;
Steam Cleaning; Washing; Taping

GROUP 2: Spray

GROUP 3: Sandblasting; Hopper Tender; Waterblasting

GROUP 4: Lead Abatement; Working over 60 feet in height

PAIN0012-013 11/01/2002

DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, MADISON, PICKAWAY & ROSS

	Rates	Fringes
Painter		
Brush; Paperhanger; Roller; & Wall Washing.....	\$ 22.52	6.02
Drywall Sander.....	\$ 22.27	6.02
Drywall Taper & Finisher....	\$ 22.92	6.02
Sandblasting; Steamcleaning; Waterblasting (3500 PSI or Over)& Hazardous Work....	\$ 23.22	6.02
Spray.....	\$ 23.02	6.02
Structural Steel & Swing Stage.....	\$ 22.82	6.02

PAIN0012-019 05/01/2003

GREENE, MIAMI, MONTGOMERY & PREBLE

Rates	Fringes
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Painter		
GROUP 1 - Brush; Roller.....	\$ 20.94	5.48
GROUP 2 - Spackling & Drywall Finishing; Vinyl - Paper Wall covering.....	\$ 21.29	5.48
GROUP 3 - Swing & Scaffold; Structural Steel; High Tension Electrical Equipment; Hot Pipes.....	\$ 21.35	5.48
GROUP 4 - Spray; Sandblasting; Steam Cleaning; & Lead Paint Abatement.....	\$ 21.69	5.48
GROUP 5 - Steeplejack Work - Church Steeples, Smoke Stacks & Hazardous Work.....	\$ 21.89	5.48
GROUP 6 - Coal Tar.....	\$ 22.44	5.48

PAIN0053-002 06/01/2002

GUERNSEY, HOCKING, MONROE, MORGAN, NOBLE & WASHINGTON

	Rates	Fringes
Painter (All Work, except Light Commercial Work)		
Brush; Roller; & Taper.....	\$ 23.73	4.80
Spray; Sandblasting; & Power Tool Under 30' Preparation Confined Areas; & Toxic Material Handlers.....	\$ 25.50	4.80

PAIN0053-004 06/01/2002

GUERNSEY, HOCKING, MONROE, MORGAN, NOBLE & WASHINGTON

	Rates	Fringes
Painter		
Separate contracts let which are not in excess of \$5,000,000.00 total project construction costs.....	\$ 19.07	4.80

PAIN0053-006 08/01/2003

MONROE, NOBLE & WASHINGTON

	Rates	Fringes
Glazier.....	\$ 21.38	3.40

PAIN0356-001 07/01/1999

LICKING, MUSKINGUM & PERRY

	Rates	Fringes
Painter		
Brush; Roller; Hopper Tender; & Washing.....	\$ 16.00	3.27
High Work.....	\$ 19.25	3.27
Lead Abatement.....	\$ 18.00	3.27
Sandblasting, Hopper Tender & Waterblasting Under Hazardous Conditions.....	\$ 19.00	3.27
Sandblasting; Waterblasting.....	\$ 17.00	3.27
Spray; Steamcleaning; Taping; Paperhanging & Wall covering(furnishing tools).....	\$ 16.50	3.27

* PAIN0372-001 04/01/2004

DELAWARE, FAIRFIELD, FAYETTE (West of State Rte. #41),
FRANKLIN, HOCKING, JACKSON, LICKING, MADISON, MORGAN,
MUSKINGUM, PERRY, PICKAWAY, PIKE, ROSS & VINTON

	Rates	Fringes
Glazier.....	\$ 21.87	6.43+a
FOOTNOTE: a. 1 Paid Holiday: Labor Day		

PAIN0387-001 11/25/2001

ADAMS, BROWN, BUTLER, CLERMONT, CLINTON, FAYETTE (Eastern
part), GREENE, HIGHLAND, MIAMI, MONTGOMERY, PREBLE & WARREN

	Rates	Fringes
Glazier.....	\$ 21.00	4.95

PAIN0406-001 06/01/1999

ASHLAND, CRAWFORD, KNOX, MORROW & RICHLAND

	Rates	Fringes
Painter		
GROUP 1 - Drywall, Paperhanger, Wall Coverer & Pot Tender when tending 2 or more Sprayers or Metalizing Workers.....	\$ 18.55	2.00
GROUP 2 - Brush; Cleaner; Roller; & Washer.....	\$ 19.00	2.00
GROUP 3 - Structural Steel; & Hazardous Materials, including Epoxy and/or other materials; Dirty		

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Factory Work; & Lead Abatement.....	\$ 19.50	2.00
GROUP 4 - Riggers on Work more than 30 ft. above base level, includes base level & up work; Spray; & Electrostatic Applications.....	\$ 19.75	2.00
GROUP 5 - Blasting: Sand, Grit, Shot, Water; & Metalizing Workers.....	\$ 20.15	2.00

SWING STAGE, WINDOW JACKS, BOATSWAIN CHAIR, SPIDER, CHERRY
PICKER AND OTHER TYPES OF LIFTS - \$.25 PREMIUM

PAIN0438-001 06/01/2003

BELMONT, HARRISON & JEFFERSON

	Rates	Fringes
Painter		
GROUP 1.....	\$ 20.39	7.15
GROUP 2.....	\$ 21.05	7.15

PAINTER CLASSIFICATIONS

GROUP 1 - Painter; Drywall Finisher & Paperhanger

GROUP 2 - Automatic Taping Tools, Bazooka & Banjos

PAIN0555-001 11/01/2002

ADAMS, HIGHLAND, JACKSON, PIKE & SCIOTO

	Rates	Fringes
Painter		
GROUP 1.....	\$ 19.34	8.22
GROUP 2.....	\$ 20.34	8.22

PAINTER CLASSIFICATIONS

GROUP 1 - Brush; Roller; Taping; & Wallcovering

GROUP 2 - Floor Sanding; Power Tools; Sandblasting; Spray;
Steam Cleaning; Pressure Washing; Lead Abatement; Hazardous
Waste, Toxic Materials; Epoxy & Two Component Materials

PAIN0603-001 06/01/2001

COSHOCTON, HOLMES, TUSCARAWAS & WAYNE

	Rates	Fringes
Painter		
Brush & Roller.....	\$ 17.20	7.39
Drywall Taper With Machines.....	\$ 17.95	7.39
Drywall Taper.....	\$ 17.60	7.39
Paperhanger.....	\$ 17.30	7.39
Spray.....	\$ 17.70	7.39

Swing Stage, Ladder Jack & Window Jack - \$.30 Premium

PAIN0639-001 05/01/2003

	Rates	Fringes
Sign Painter & Erector.....	\$ 17.57	4.55+a+b+c

FOOTNOTES: a. 7 Paid Holidays: New Year's Day; Memorial Day; July 4th; Labor Day; Thanksgiving Day; Christmas Day & 1 Floating Day

b. Vacation Pay: After 1 year's service - 5 days' paid vacation; After 2, but less than 10 years' service - 10 days' paid vacation; After 10, but less than 20 years' service - 15 days' paid vacation; After 20 years' service - 20 days' paid vacation

c. Funeral leave up to 3 days maximum paid leave for death of mother, father, brother, sister, spouse, child, mother-in-law, father-in-law, grandparent and inlaw provided employee attends funeral

PAIN0751-006 07/01/2002

BELMONT, GUERNSEY & HARRISON

	Rates	Fringes
Glazier.....	\$ 18.73	8.05

PAIN0751-008 09/01/2003

JEFFERSON

	Rates	Fringes
Glazier.....	\$ 14.49	9.10

PAIN0813-004 06/01/2003

VINTON

	Rates	Fringes
Painter		
GROUP 1.....	\$ 20.95	8.25
GROUP 2.....	\$ 22.39	8.25
GROUP 3.....	\$ 21.54	8.25
GROUP 4.....	\$ 22.93	8.25

PAINTER CLASSIFICATIONS

GROUP 1 - Brush & Roller

GROUP 2 - Spray; Sandblasting; Drywall Finishing & Texturing

GROUP 3 - Wallcovering & Vinyl

GROUP 4 - Machine, Toolstand & Stilts

PAIN1162-001 06/01/2001

COSHOCTON, HOLMES, TUSCARAWAS & WAYNE

	Rates	Fringes
Glazier.....	\$ 20.03	6.06

PAIN1195-004 11/05/2003

SCIOTO

	Rates	Fringes
Glazier.....	\$ 24.11	4.10

PAIN1920-001 05/01/1998

ASHLAND, CRAWFORD, HURON (S. part), KNOX, RICHLAND & WYANDOT
(E. part)

	Rates	Fringes
Glazier		
Outside All Other Work.....	\$ 12.58	.51
Outside Replacement.....	\$ 12.08	.51

PLAS0001-001 06/22/2003

BROWN, BUTLER, CLEMONT, HIGHLAND & WARREN COUNTIES:

	Rates	Fringes
Plasterer.....	\$ 20.65	6.25

PLAS0001-007 06/01/2002

ASHLAND, CRAWFORD, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN,
HOCKING, KNOX, LICKING, MADISON, MORGAN, MORROW, MUSKINGUM,
PERRY, PICKAWAY, RICHLAND, ROSS & WYANDOT (Excluding Tymochtee,
Crawford, Ridge & Richland Townships)

	Rates	Fringes
Plasterer.....	\$ 21.31	6.80

PLAS0001-008 06/01/2002

ASHLAND, CRAWFORD, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN,
HOCKING, KNOX, LICKING, MADISON, MORGAN, MORROW, MUSKINGUM,
PERRY, PICKAWAY, RICHLAND, ROSS & WYANDOT (Excluding the
townships of Tymochtee, Crawford, Ridge & Richland)

	Rates	Fringes
Cement Mason.....	\$ 20.98	6.80

PLAS0001-009 06/01/2003

MONROE, NOBLE & WASHINGTON

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	Rates	Fringes
Cement Mason.....	\$ 21.76	7.31

PLAS0001-010 06/01/2003

MONROE, NOBLE & WASHINGTON

	Rates	Fringes
Plasterer.....	\$ 22.21	7.22

PLAS0039-001 07/01/2003

BELMONT, HARRISON & JEFFERSON

	Rates	Fringes
Cement Mason.....	\$ 21.65	7.23

PLAS0039-002 07/01/2003

BELMONT, HARRISON & JEFFERSON

	Rates	Fringes
Plasterer.....	\$ 22.05	6.65

PLAS0132-001 06/01/2002

CLINTON, GREENE, MIAMI, MONTGOMERY & PREBLE

	Rates	Fringes
Cement Mason.....	\$ 19.88	7.95

PLAS0132-003 05/01/2002

CLINTON, GREENE, MIAMI, MONTGOMERY & PREBLE

	Rates	Fringes
Plasterer.....	\$ 21.25	7.20

PLAS0132-005 06/01/2003

BROWN, BUTLER, CLERMONT, HIGHLAND & WARREN

	Rates	Fringes
Cement Mason.....	\$ 20.30	6.60

PLAS0132-009 06/01/2002

ADAMS, JACKSON, PIKE & SCIOTO

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Rates Fringes

Cement Mason/Plasterer..... \$ 25.03 8.00

PLAS0886-001 07/01/2003

HANCOCK & WOOD

Rates Fringes

Cement Mason..... \$ 26.78 8.77

PLAS0886-003 07/01/1999

ALLEN & AUGLAIZE

Rates Fringes

Cement Mason..... \$ 20.35 7.00

PLAS0886-004 07/01/2003

ALLEN, AUGLAIZE, HANCOCK & WOOD (Excluding Perry & Bloom
Townships)

Rates Fringes

Drywall..... \$ 25.50 7.22

Plasterer..... \$ 26.86 7.22

PLUM0042-001 07/01/2003

ASHLAND, CRAWFORD, ERIE, HURON, KNOX, MORROW, RICHLAND & WYANDOT

Rates Fringes

Plumber, Pipefitter,
Steamfitter..... \$ 24.59 11.75

PLUM0050-001 06/30/2003

HANCOCK, OTTAWA, SANDUSKY, SENECA & WOOD

Rates Fringes

Plumber, Pipefitter,
Steamfitter..... \$ 27.90 14.00

PLUM0083-001 07/01/2003

BELMONT & MONROE (North of Rte. #78)

Rates Fringes

Plumber and Steamfitter..... \$ 20.11 16.90

* PLUM0094-001 05/01/2004

WAYNE

	Rates	Fringes
Plumber/Pipefitter.....	\$ 24.00	11.97

PLUM0162-001 06/01/2003

CLINTON, FAYETTE, GREENE, MIAMI, MONTGOMERY & PREBLE

	Rates	Fringes
Plumber, Pipefitter, Steamfitter.....	\$ 25.16	10.71

PLUM0168-001 06/01/2003MONROE (South of Rte. #78), MORGAN (South of Rte. #78) &
WASHINGTON

	Rates	Fringes
Plumber/Pipefitter.....	\$ 26.08	11.91

PLUM0189-001 06/01/2003DELAWARE, FAIRFIELD, FRANKLIN, HOCKING, LICKING, MADISON,
PERRY, PICKAWAY & ROSS

	Rates	Fringes
Plumber, Pipefitter, Steamfitter.....	\$ 26.76	11.13

PLUM0392-001 06/01/2003

BROWN, BUTLER, CLERMONT & WARREN

	Rates	Fringes
Plumber/Pipefitter.....	\$ 26.02	9.42

PLUM0495-001 06/01/2003SHOCTON, GUERNSEY, HARRISON, HOLMES, JEFFERSON, MORGAN (South
to State Rte. #78 & from McConnelville west on State Rte. #37
to the Perry County Line), MUSKINGUM, NOBLE & TUSCARAWAS

	Rates	Fringes
Plumber, Pipefitter, Steamfitter.....	\$ 22.88	11.10

PLUM0577-001 06/01/2002

ADAMS, HIGHLAND, JACKSON, PIKE, SCIOTO & VINTON

	Rates	Fringes
Plumber, Pipefitter, Steamfitter		
All Other Work.....	\$ 22.78	11.14
Manufacturing Plants, Testing Facilities, Enrichment Plants, Compressor Stations, Power Generating Plants, Coke Plants, Co-Generation Plants, Chemical Plants, Incinerators & Steel Mills.....	\$ 25.28	11.14

 PLUMD776-001 07/01/2003

ALLEN & AUGLAIZE

	Rates	Fringes
Plumber, Pipefitter, Steamfitter.....	\$ 25.34	10.80

 ROOF0042-001 08/01/2003

BROWN, BUTLER, CLERMONT & WARREN

	Rates	Fringes
Rofer		
Pitch.....	\$ 26.15	6.04
Rofer.....	\$ 25.15	6.04

 * ROOF0044-001 05/01/2004

ERIE, OTTAWA & SANDUSKY

	Rates	Fringes
Rofer.....	\$ 24.80	11.75

 ROOF0075-001 05/01/2003

CLINTON, GREENE, HIGHLAND, MIAMI, MONTGOMERY & PREBLE

	Rates	Fringes
Rofer		
Composition, Damp & Waterproof.....	\$ 20.35	7.06
Slate, Tile & Asbestos.....	\$ 20.57	7.06

 ROOF0086-001 09/01/2001

AUGLAIZE, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, HOCKING,
 KNOX, LICKING, MADISON, MORROW, PERRY, PICKAWAY, ROSS & WYANDOT

	Rates	Fringes
Rofer.....	\$ 20.56	7.40

ROOF0088-001 06/01/2003

ASHLAND, COSHOCTON, CRAWFORD, HOLMES, HURON, RICHLAND, SENECA,
TUSCARAWAS & WAYNE

	Rates	Fringes
Rofer.....	\$ 20.93	7.78

ROOF0134-001 07/01/2001

ALLEN, HANCOCK & WOOD

	Rates	Fringes
Rofer.....	\$ 22.60	8.08

ROOF0185-001 06/01/2003

ADAMS, JACKSON, PIKE, SCIOTO & VINTON

	Rates	Fringes
Rofer.....	\$ 24.55	5.70

ROOF0188-001 07/01/2003

BELMONT, HARRISON, JEFFERSON & MONROE

	Rates	Fringes
Rofer		
Coal Tar Pitch & Waterproofing.....	\$ 22.02	7.25
Rofer.....	\$ 21.77	7.25

ROOF0242-001 06/01/2002

GUERNSEY, MORGAN, MUSKINGUM, NOBLE & WASHINGTON

	Rates	Fringes
Rofer.....	\$ 20.94	6.73

* SFOH0669-001 04/01/2004

ADAMS, ALLEN, ASHLAND, AUGLAIZE, BELMONT, BROWN, BUTLER,
CLERMONT, CLINTON, COSHOCTON, CRAWFORD, DELAWARE, ERIE,
FAIRFIELD, FAYETTE, FRANKLIN, GREENE, GUERNSEY, HANCOCK,
HARRISON, HIGHLAND, HOCKING, HOLMES, HURON, JACKSON, JEFFERSON,
KNOX, LICKING, MADISON, MIAMI, MONROE, MONTGOMERY, MORGAN,
MORROW, MUSKINGUM, NOBLE, OTTAWA, PERRY, PICKAWAY, PIKE,
PREBLE, RICHLAND, ROSS, SANDUSKY, SCIOTO, SENECA, TUSCARAWAS,

VINTON, WARREN, WASHINGTON, WAYNE, WOOD & WYANDOT

	Rates	Fringes
Sprinkler Fitter.....	\$ 31.30	7.65

SHEE0024-001 06/01/2001

ALLEN, AUGLAIZE, BUTLER, CLINTON, GREENE, MIAMI, MONTGOMERY,
PREBLE, WARREN & WYANDOT

	Rates	Fringes
Sheet metal worker.....	\$ 23.41	9.91

SHEE0024-002 06/01/2003

BROWN, CLERMONT & HIGHLAND

	Rates	Fringes
Sheet metal worker.....	\$ 23.62	11.05

SHEE0024-007 06/01/2002

ADAMS, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, GUERNSEY,
HOCKING, JACKSON, KNOX, LICKING, MADISON, MORGAN, MORROW,
MUSKINGUM, NOBLE, PERRY, PICKAWAY, PIKE, ROSS, SCIOTO & VINTON

	Rates	Fringes
Sheet metal worker.....	\$ 23.12	11.49

SHEE0033-001 06/01/2003

MERCER COUNTY

	Rates	Fringes
Sheet metal worker.....	\$ 24.86	10.28

SHEE0033-004 06/01/2003

ASHLAND, COSHOCTON, CRAWFORD, HOLMES, RICHLAND, TUSCARAWAS &
WAYNE

	Rates	Fringes
Sheet metal worker.....	\$ 24.18	11.47

SHEE0033-006 06/01/2003

ERIE, HURON & SANDUSKY

	Rates	Fringes
Sheet metal worker.....	\$ 23.72	10.41

SHEE0033-009 07/01/2002

WASHINGTON

	Rates	Fringes
Sheet metal worker.....	\$ 23.43	11.73

SHEE0033-011 07/01/2003

BELMONT, HARRISON, JEFFERSON & MONROE

	Rates	Fringes
Sheet metal worker.....	\$ 22.70	11.54

TEAM0175-001 06/01/1999

WASHINGTON

	Rates	Fringes
Truck Driver		
GROUP 1.....	\$ 18.05	.08+a
GROUP 2.....	\$ 18.15	.08+a
GROUP 3.....	\$ 18.30	.08+a
GROUP 4.....	\$ 18.45	.08+a
GROUP 5.....	\$ 18.70	.08+a
GROUP 6.....	\$ 18.80	.08+a
GROUP 7.....	\$ 18.95	.08+a

FOOTNOTE: a. \$1,072.12 per month

TRUCK DRIVER CLASSIFICATIONS

GROUP 1 - Pick-Up; & Panel

GROUP 2 - Flat Body Material (Straight Jobs); Dump (Up to 5 cu. yds.); Greaser; Washer; Tireman; Mechanic; & Tank (Straight)

GROUP 3 - Dump (5 cu. yds. & over); Semi-Dump; Semi-Trailer (whether Flat, Rack or Pole and hauled or pushed by truck or tractor); Agitator or Mixed (Up to 5 cu. yds.); Tank (Semi); & Monorail

GROUP 4 - Low Boy Trailer; Winch; Fork; Distributor (Front & Back End); Truck Crane; Agitator or Mixer (5 cu. yds. & over); Hydraulic Tail Gate; & Farm Type Tractor

GROUP 5 - Euclid; Dumpster; Turnarocker; Ross Carrier; Athey Wagon or Similar Equipment; A-Frame; Hydrolift; & Dual Purpose

GROUP 6 - Mechanic

GROUP 7 - Master Mechanic (3 or more employed)

TEAM0377-001 05/01/1997

ADAMS, ASHLAND, BROWN, BUTLER, CLERMONT, CLINTON, COSHOCTON, CRAWFORD, DELAWARE, ERIE, FAIRFIELD, FAYETTE, FRANKLIN, GREENE,

GUERNSEY, HANCOCK (From the southern boundary of the city of Findlay to the northern boundary of Hancock County), HARRISON, HIGHLAND, HOCKING, HOLMES, HURON, JACKSON, JEFFERSON (South to Short Creek), KNOX, LICKING, MADISON, MIAMI, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, OTTAWA, PERRY, PICKAWAY, PIKE, PREBLE, RICHLAND, ROSS, SANDUSKY, SCIOTO, SENECA, TUSCARAWAS, VINTON, WARREN, WAYNE, WOOD, & WYANDOT

	Rates	Fringes
Truck Driver		
GROUP 1.....	\$ 16.29	6.22
GROUP 2.....	\$ 16.34	6.22
GROUP 3.....	\$ 16.39	6.22
GROUP 4.....	\$ 16.49	6.22
GROUP 5.....	\$ 16.76	6.22

TRUCK DRIVER CLASSIFICATIONS

GROUP 1 - Asphalt Distributor; Batch; 4- Wheel Service; 4- Wheel Dump; & Oil Distributor

GROUP 2 - Tandem

GROUP 3 - Tractor-Trailer Combination: Fuel; Pole Trailer; Ready Mix; Semi-Tractor; & Asphalt Oil Spraybar Man

GROUP 4 - 5 Axles & Over; & Asphalt Oiler Spraybar Man When Operated From Cab

GROUP 5 - Belly Dump; End Dump; Articulated Dump; Heavy Duty Equipment; Low Boy; & Truck Mechanic

TEAM0697-001 09/01/2000

BELMONT, JEFFERSON (North to Short Creek) & MONROE

	Rates	Fringes
Truck Driver		
GROUP 1 - Pickup.....	\$ 18.75	6.275
GROUP 2 - Flatbed Material; Dump & Semi-Dump.....	\$ 18.80	6.275
GROUP 3 - Tank (Straight & Semi).....	\$ 18.83	6.275
GROUP 4 - Semi-Tractor Trailer.....	\$ 18.85	6.275
GROUP 5 - Pole Trailer....	\$ 18.95	6.275
GROUP 6 - Agitator & Mixer (Up to 5 cu. yds.)....	\$ 19.03	6.275
GROUP 7 - Euclid; Dumpster; Turnarocker; Ross Carrier; & Athey Wagon.....	\$ 19.08	6.275
GROUP 8 - Agitator & Mixer (Over 5 cu. yds.)....	\$ 19.11	6.275
GROUP 9 - Lowboy Trailer; Winch; Fork & Distributor (Front & Back End); & Truck Crane....	\$ 19.38	6.275
GROUP 10 - A-Frame.....	\$ 19.45	6.275
GROUP 11 - Mechanic.....	\$ 19.48	6.275

TEAM0908-001 05/18/1997

ALLEN, AUGLAIZE & HANCOCK (From the southern boundary of the city of Findlay to the southern boundary of Hancock County)

	Rates	Fringes
Truck Driver		
Lowboy.....	\$ 17.45	3.57+a

FOOTNOTE: a. \$61.00 per week

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.
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Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

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

WAGE DETERMINATION APPEALS PROCESS

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

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

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

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

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

Washington, DC 20210

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

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

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

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

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

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

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END OF GENERAL DECISION