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SECTION 01000

GENERAL REQUIREMENTS

1. SUPERVISION BY THE CONTRACTOR. The following requirements, in addition to those contained in the Contract Clause entitled: SUPERINTENDENCE BY CONTRACTOR, shall be met by the Contractor:

1.1 Authority of Contractor Representative. The site representative appointed by the Contractor and approved by the Contracting Officer shall, as a minimum, have the following authority:

1.1.1 To negotiate and execute Supplemental Agreements having a value up to \$100,000.

2. AGE AND VALUE OF EQUIPMENT. If requested by the Contracting Officer, the Contractor shall provide documentation to establish the age and value of any equipment being utilized to perform work under this contract.

3. WORK SCHEDULE. The normal work days and hours for this project will be Monday through Friday, excluding Federal holidays, from 6:00 a.m. to 5:00 p.m. Access to the work site may be restricted to these hours and days. If the Contractor intends to work outside the normal 40 hour Monday through Friday work week, he shall notify the Contracting Officer 72 hours in advance of the change in work schedule.

4. HAUL ROUTE PLAN. This plan shall include offices, material storage areas and structures and the access routes to these areas. Haul routes from the sites through the military reservations to major highways shall be indicated. All required traffic signs, special limits, warning devices, lighting and other such safety devices required by EM 385-1-1, OSHA, local cities (on state roads) shall be shown. Provisions shall be made in the plan for alternate routes when excavations block designated haul routes. The plan shall be revised and resubmitted if the haul routes being used are not as shown on the plan.

-- End of Section --

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SECTION 01020

BRAND NAME OR EQUAL

1. All specifications section and drawing sheets that mention brand names are intended to be descriptive, not restrictive. The "brand name or equal" description is used to portray the characteristics and level of quality that will satisfy the Government's needs.

1.1 The Contractor may provide an approved "equal" provided the product(s) meets or exceeds the salient physical, functional, and other characteristics of the brand name.

- - End of Section - -

SECTION 01040

MECHANICAL ROOM LAYOUT AND COORDINATION

1. GENERAL REQUIREMENTS. The Contractor shall coordinate the layout of mechanical, fire protection, and electrical equipment within the mechanical room and shall insure that equipment to be furnished is located such that all equipment is accessible for operation, maintenance, filter replacement, and code requirements. Contractor shall coordinate with all subcontractors and manufacturers to assure that equipment provided will meet the functional parameters specified and conform to the necessary clearances required by the manufacturer for operation, maintenance and repair.

2. SUBMITTALS. The Contractor shall submit for approval a mechanical room floor plan of all equipment, including piping, valves, conduits, electrical panels, control panels, and fire protection panels. The floor plan shall be drawn to 1/2" = 1 foot scale and shall indicate dimensionally the locations of all equipment and required clearances recommended by the manufacturer and/or codes. Equipment shall be drawn to scale and noted as to type and model. Interior elevations shall be provided to indicate the intended use of vertical space. The drawings shall reflect all ducting and piping that will affect equipment clearances. The mechanical room layout drawings shall be submitted within 60 calendar days after receipt of notice to proceed in accordance with Section, SUBMITTAL PROCEDURES. These drawings shall show all of the constraints specified in the GENERAL REQUIREMENTS paragraph above and applicable mechanical and electrical technical specification sections.

- - End of Section - -

SECTION 01330

SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.1 GENERAL: Within 10 days after receipt of notice to proceed, the Contractor shall complete the Submittal Register using the Government-furnished Resident Management System (RMS) for all submittals and return two (2) hard copies and a disk copy to the Contracting Officer for approval. In addition to those items listed in the register, the Contractor will furnish submittals for any deviation from the plans or specifications. Scheduling shall be coordinated with the approved progress schedule. The Contractor's Quality Control representative shall review the listing with the Project Engineer at least every 30 days and take appropriate action to maintain an effective system.

1.2 The Submittal Register is part of the RMS software program. See Section, CONTRACTOR QUALITY CONTROL, paragraph IMPLEMENTATION OF GOVERNMENT RESIDENT MANAGEMENT SYSTEM FOR CONTRACTOR QUALITY CONTROL OF CONTRACT, for system requirements. Normally, technical specifications are organized into three parts:

- PART 1 - GENERAL
- PART 2 - PRODUCTS
- PART 3 - EXECUTION

1.2.1 A "Project Specific List of Submittals" listing equipment, material, and procedures for which submittals are required by the specifications, is attached at the end of this section. It is the Contractor's responsibility to enter the data from the Project Specific List of Submittals into the RMS program. This listing is not considered to be all inclusive and shall not alleviate the Contractor from his responsibility to provide all submittals required in the technical sections. The Contracting Officer may also request submittals that are in addition to those covered in the technical sections.

1.3 PART 1 normally relates to the overall general requirements for the products listed in PART 2. The submittal register should be organized on the basis of products used for the construction process. Sometimes the GENERAL part has items that are not product oriented. These include: instruction manuals, special skilled worker certification, coordination studies, special system drawings, and the listed shop drawing (SD) requirements. These should be separately submitted items. Products may be listed separately or as a group of products with one transmittal number. If a group of products are listed on an ENG Form 4025, each product should be given an item number. Then each product data sheet should be stamped with the same item number.

1.4 Submittals on component items forming a system or that are interrelated shall be scheduled to be correlated and submitted concurrently. A minimum of 30 calendar days, exclusive of mailing time, will be allowed on the register for review and approval of any items requiring Government approval. No delay damages or time extensions will be allowed for time lost due to late submission by the Contractor.

1.5 The Government will review the Submittal Register for approval action. The column designated "Reviewer" will also be completed by the Government. The

Government will designate those to be submitted "For Information Only". These will be identified by an "I" in the column entitled "Reviewer". A copy of the Submittal Register, so marked in the "Reviewer" column, will be returned to the Contractor. Those items marked "For Information Only" submittal shall be subject to review action by the Contracting Officer. Any such "For Information Only" submittals found to contain errors or omissions shall be resubmitted. No adjustment for time or money will be allowed for corrective action required as a result of noncompliance with plans and specifications.

1.6 The approved register will become part of the contract and the Contractor will be subject to requirements therein. The Contractor shall revise and/or update the register every 30 days to take into account all changes in the contract and the current construction schedule. Copies of updated or corrected registers shall be submitted to the Contracting Officer at least every 60 days in the same format and copies required for the original register.

1.7 It is essential that submittals and current construction progress be thoroughly coordinated. The scheduled submittal dates shall be realistic, and shall provide sufficient lead time for the respective construction activity (as indicated on the approved progress schedule). Failure to comply with this requirement will be cause for rejection of the Submittal Register.

1.8 The Contractor shall submit all items listed on the contract drawings and listed or specified in these specifications. The Contracting Officer may request submittals in addition to those listed when deemed necessary to adequately describe the work covered in the respective sections. Units of weight and measurements used on all submittals shall be the same used in the contract drawings. Reproducible drawings of the contract documents shall not be used for submittal drawings. Each submittal shall be complete and in sufficient detail for ready determination of compliance with the contract requirements. Prior to submittal, all items shall be checked and approved by the Contractor's Quality Control (C.Q.C.) Manager who shall certify by signature on the ENG Form 4025 that he has reviewed the submittal in detail and that it is correct and in strict conformance with the contract drawings and specifications except as may be otherwise explicitly stated. Submittals shall include such items as: Contractor's, manufacturer's or fabricator's drawings; HVAC control descriptions; descriptive literature including (but not limited to) catalogue cuts, diagrams, operation charts or curves; samples, O&M manuals including parts lists; certifications; warranties and other such required submittals. Submittals pertinent to materials and equipment which are specified to receive advance approval shall be scheduled and made prior to the acquisition or the delivery thereof. Catalog cuts and other descriptive data which have more than one model, size, or type or which shows optional equipment shall be clearly marked to show the model, size, or type and all optional equipment which is proposed for approval. Submittals on component items forming a system or that are interrelated shall be submitted at one time as a single submittal in order to demonstrate that the items have been properly coordinated and will function as a unit.

1.8.1 Each required submittal which is in the form of a drawing shall be submitted as one (1) reproducible and four (4) prints of the drawing for Division 15 and 16 submittals, and one (1) reproducible and three (3) prints for all others. Drawing prints shall be either blue or black line permanent-type prints on a white background. Reproducibles shall be white vellum sepia and shall be

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of such quality that prints made therefrom are sufficiently clear for microfilm copying. A shop drawing submitted without a reproducible drawing will not be reviewed and will be automatically returned. All catalog and descriptive data shall be submitted in 4 copies.

1.8.2 All submittals shall be mailed or delivered directly to the address shown below.

Luke Project Office  
7046 N. Fighter Country Ave.  
Building 470  
Luke AFB, AZ 85309

1.9 The Transmittal Form (ENG 4025) attached to this Section shall be used for all submittals and shall be completed in strict accordance with the instructions on the reverse side thereof. This form will be generated by the RMS software which will also allow for adding and updating information on the form. This form shall be properly completed by filling out all the heading blank spaces and identifying each item submitted. Special care should be exercised to insure proper listing of the specification paragraph and sheet number of the contract drawings pertinent to the data submitted for each item. A separate submittal form (ENG 4025) shall be attached to each copy of the data being submitted. Only one specification section shall be addressed on a transmittal form except where required for system submittals. In addition, a Submittal Review Verification Sheet will accompany each copy of the submittal. The Submittal Review Verification Sheet is attached to this section and will be reproduced by the Contractor.

1.10 All proposed variations requested by the Contractor shall be checked in the "Variation" column, and noted in the "Remarks" column of the ENG Form 4025. The Contractor shall set forth in writing the reason for any variation and annotate such variation on the shop drawing. The Government reserves the right to rescind inadvertent approval of shop drawings containing unnoted variations.

1.10.1 Approval by the Contractor shall be accomplished by stamping each shop drawing sheet and by inserting the required information with a stamp similar to the following:

CONTRACTOR (Firm Name)	
_____	Approved.
_____	Approved with corrections as noted on shop drawings and/or attached sheets.
SIGNATURE:	_____
TITLE:	_____
DATE:	_____

1.11 The approval of the submittals by the Contracting Officer or his authorized representative shall not be construed as a complete check, but will indicate only that the general method of construction and detailing is satisfactory. Approval will not relieve the Contractor of the responsibility for any undiscovered error because the Contractor, under the Contractor Quality Control requirements of this contract, is responsible for the dimensions and design of adequate connections, details and satisfactory construction of all work. After submittals have been approved by the Contracting Officer or his authorized representative, no resubmittal for the purpose of substituting materials or equipment will be given consideration unless accompanied by an acceptable explanation as to why a substitution is necessary.

1.12 The Contractor shall make all corrections required by the Contracting Officer or his authorized representative and promptly furnish a corrected submittal in the form and number of copies as specified for initial submittals. (If a submittal requires extensive revisions, it will be returned to the Contractor with comments by serial letter for correction prior to approval.) If the Contractor considers any correction indicated on the submittals to constitute a change to the contract, notice as required under the Contract Clause entitled "CHANGES" should promptly be given to the Contracting Officer.

1.13 Payment for materials incorporated into the work will not be made if required approvals have not been obtained.

1.14 Any certificates required for demonstrating proof of compliance of materials with specification requirements shall be executed in 4 copies. Each certificate shall be signed by an official authorized to certify in behalf of the manufacturing company and shall contain the specific item trade name, and model number, if applicable. The certification shall contain the specification/test identification to which compliance is being certified. A general statement that item complies with all requirements is not acceptable. Copies of laboratory test reports submitted with certificates shall contain the name and address of the testing laboratory and the date or dates of the tests to which the report applies. Certification shall not be construed as relieving the Contractor from furnishing satisfactory material, if, after tests are performed on selected samples, the material is found not to meet the specific requirements.

1.15 Each purchase order issued by the Contractor or his subcontractors for materials and equipment to be incorporated into the project shall (1) be clearly identified with the applicable DA contract number, (2) carry an identifying number, (3) be in sufficient detail to identify the material being purchased, (4) indicate a definite delivery date, and (5) display the DMS priority rating. Copies of purchase orders shall be furnished to the Contracting Officer when the Contractor requests assistance for expediting deliveries of equipment or materials, or when requested by the Contracting Officer for the purpose of quality assurance review.

1.16 If the Contractor elects to install mechanical and/or electrical equipment of size, shape, or arrangement differing from those shown and specified in mechanical rooms with limited available space, he shall prepare and submit room plans for such mechanical rooms or similar areas.

1.16.1 Submittals describing the various mechanical and electrical equipment items which are to be installed in the above described area(s) shall be assembled and submitted concurrently and accompanied by the room plans. If some items have already been submitted, their transmittal number shall be identified.

1.16.2 Plans, consolidated for all trades, shall be to scale and shall show all pertinent structural features and other items such as doors, windows, and cabinets required for installation and which will affect the available space. All mechanical and electrical equipment and accessories shall be shown to scale in plan and elevation and/or section in their installed positions. All duct work and piping shall be shown. All clear spaces required for equipment maintenance shall also be shown.

1.17 Performance Evaluation of Contractor. Since the Contractor's Quality Control personnel are required to review all submittals for contract compliance before forwarding to the Government, the Quality of Work and Effectiveness of Management performance elements of the final Performance Evaluation will be based in part on the number of submittals disapproved by the Government. An unsatisfactory rating in any element may adversely effect future awards of Department of Defense contracts to the Contractor.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

- - End of Section - -

TITLE AND LOCATION: **INS, REMODEL PHS MEDICAL FACILITY, FLORENCE, AZ**

\* CONTRACTOR:

\* SPECIFICATION SECTION:

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NAS CODE (a)	ITEM NO. (b)	SPECIFICATION PARAGRAPH NO. (c)*	DESCRIPTION OF SUBMITTAL (d)	TYPE OF SUBMITTAL (e)**	CLASS (f)***	CONTRACTOR SUBMITTAL DATES			CONTRACTOR ACTION		GOVERNMENT ACTION		REMARKS (o)	
						SUBMIT (g)	APPROVAL NEEDED BY (h)	MATERIALS NEEDED BY (i)	CODE (j)	DATE (k)	SUBMIT TO GOVT (l)	CODE (m)		DATE (n)
		01451-	QUALITY CONTROL PLAN	SD-08	GA									
		01451-	LIST OF TESTS	SD-01	GA									
		01451-	NOTIFICATION OF CHANGES	SD-18	GA									
		01451-	COORDINATION MEETING MINUTES	SD-01	FIO									
		01451-	CQC SYSTEM MANAGER QUALIFICATIONS	SD-01	GA									
		01451-	CQC PERSONNEL	SD-01	GA									
		01451-	PREPARATORY PHASE START NOTIFICATION	SD-18	FIO									
		01451-	PREPARATORY PHASE MINUTES	SD-01	FIO									
		01451-	INITIAL PHASE START NOTIFICATION	SD-18	FIO									
		01451-	INITIAL PHASE MINUTES	SD-01	FIO									
		01451-	TESTING LABORATORY QUALIFICATIONS	SD-01	GA									
		01451-	PUNCH LIST	SD-01	FIO									
		01451-	DAILY RECORDS AND REPORTS	SD-09, 18	FIO									
		01451-	MINIMUM CONSTRUCTION QUALITY CONTROL REPORT	SD-09	GA									
		01451-	PIPING SYSTEM TEST REPORT	SD-09	FIO									

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		01451-	ENGINE GENERATOR SET TEST REPORT	SD-09	FIO									
		01451-	OPERATION AND MAINTENANCE INSTRUCTIONS	SD-19	GA									
		02050-	WORK PLAN	SD-08	GA									
		05500-	MISCELLANEOUS METAL ITEMS	SD-04	FIO									
		06100-	NAILERS AND NAILING STRIPS	SD-01	FIO									
		06100-	GRADING AND MARKING	SD-13	FIO									
		06100-	INSULATION	SD-13	FIO									
		06410-	CUSTOM CASEWORK	SD-01	FIO									
		06410-	CUSTOM CASEWORK	SD-04	FIO									
		06410-	CUSTOM CASEWORK	SD-06	FIO									
		06410-	CUSTOM CASEWORK	SD-14	GA									
		06410-	PLASTIC LAMINATE	SD-14	GA									
		07270-	FIRESTOPPING MATERIALS	SD-04	FIO									
		07270-	FIRESTOPPING MATERIALS	SD-13	FIO									
		07270-	INSTALLER QUALIFICATIONS	SD-13	FIO									
		07270-	INSPECTION	SD-13	FIO									
		07900-	BACKING	SD-01	FIO									

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						SUBMIT (g)	APPROVAL NEEDED BY (h)	MATERIALS NEEDED BY (i)	CODE (j)	DATE (k)	SUBMIT TO GOVT (l)	CODE (m)		DATE (n)
	07900-		BOND-BREAKER	SD-01	FIO									
	07900-		SEALANT	SD-01	FIO									
	07900-		SEALANT	SD-13	FIO									
	08110-		FIRE RATED DOORS	SD-13	FIO									
	08110-		THERMAL INSULATED DOORS	SD-13	FIO									
	08110-		SECURITY DOORS	SD-13	FIO									
	08110-		SOUND RATED DOORS	SD-13	FIO									
	08520-		ALUMINUM WINDOWS	SD-01	FIO									
	08520-		ALUMINUM WINDOWS	SD-04	FIO									
	08520-		INSECT SCREENS	SD-04	FIO									
	08520-		ALUMINUM WINDOWS	SD-06	FIO									
	08520-		ALUMINUM WINDOWS	SD-09	FIO									
	08520-		ALUMINUM WINDOWS	SD-13	FIO									
	08520-		ALUMINUM WINDOWS	SD-14	FIO									
	08700-		HARDWARE AND ACCESSORIES	SD-01	FIO									
	08810-		GLASS	SD-01	FIO									
	08810-		GLAZING ACCESSORIES	SD-01	FIO									
	08810-		GLAZING MATERIALS AND ACCESSORIES	SD-04	FIO									
	08810-		GLASS	SD-13	FIO									
	09250-		STEEL FRAMING	SD-04	FIO									

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		09250-	CONTROL JOINTS	SD-04	FIO									
		09250-	FIRE-RESISTANT ASSEMBLIES	SD-04	FIO									
		09250-	GYPSUM WALLBOARD	SD-13	FIO									
		09250-	WATER-RESISTANT GYPSUM BOARD	SD-13	FIO									
		09250-	EXTERIOR GYPSUM SOFFIT BOARD	SD-13	FIO									
		09250-	STEEL FRAMING	SD-13	FIO									
		09510-	ACOUSTICAL CEILING SYSTEM	SD-01	FIO									
		09510-	ACOUSTICAL UNITS	SD-14	FIO									
		09510-	SUSPENSION SYSTEM	SD-14	FIO									
		09650-	RESILIENT FLOORING AND ACCESSORIES	SD-01	FIO									
		09650-	RESILIENT FLOORING AND ACCESSORIES	SD-14	FIO									
		09900-	PAINT	SD-01	FIO									
		09900-	MIXING AND THINNING	SD-06	FIO									
		09900-	APPLICATION	SD-06	FIO									
		09900-	PAINT	SD-09	FIO									
		09900-	LEAD	SD-13	FIO									
		09900-	MILDEWCIDE AND INSECTICIDE	SD-13	FIO									

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						SUBMIT (g)	APPROVAL NEEDED BY (h)	MATERIALS NEEDED BY (i)	CODE (j)	DATE (k)	SUBMIT TO GOVT (l)	CODE (m)		DATE (n)
		09900-	VOLATILE ORGANIC COMPOUND (VOC) CONTENT	SD-13	FIO									
		09900-	PAINT	SD-14	FIO									
		10160-	TOILET PARTITION SYSTEM	SD-01	FIO									
		10160-	TOILET PARTITION SYSTEM	SD-04	FIO									
		10160-	TOILET PARTITION SYSTEM	SD-14	GA									
		10800-	FINISHES	SD-01	FIO									
		10800-	ACCESSORY ITEMS	SD-01	FIO									
		13958-	FORCED ENTRY RESISTANT COMPONENTS	SD-01	GA									
		13958-	FORCED ENTRY RESISTANT COMPONENTS	SD-04	GA									
		13958-	FORCED ENTRY RESISTANT COMPONENTS	SD-06	FIO									
		13958-	FORCED ENTRY RESISTANT COMPONENTS	SD-07	GA									
		13958-	FORCED ENTRY RESISTANT COMPONENTS	SD-13	GA									
		15250-	THERMAL INSULATION MATERIALS	SD-01	FIO									
		15330-	LOAD CALCULATIONS FOR SIZING SWAY BRACING	SD-01	FIO									
		15330-	SPRINKLER SYSTEM EQUIPMENT	SD-01	GA									

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						SUBMIT (g)	APPROVAL NEEDED BY (h)	MATERIALS NEEDED BY (i)				CODE (m)	DATE (n)	
	15330-		SPRINKLER SYSTEM SHOP DRAWINGS	SD-04	GA									
	15330-		AS-BUILT DRAWINGS	SD-04	FIO									
	15330-		ACCEPTANCE TESTS	SD-07	GA									
	15330-		INSTALLER QUALIFICATIONS	SD-08	GA									
	15330-		SUBMITTAL PREPARER'S QUALIFICATIONS	SD-08	GA									
	15405-		PLUMBING SYSTEM	SD-04	FIO									
	15405-		FRAMED INSTRUCTIONS	SD-06	FIO									
	15405-		TESTS	SD-09	FIO									
	15405-		PLUMBING SYSTEM	SD-19	GA									
	15488-		QUALIFICATIONS	SD-01	FIO									
	15488-		GAS PIPING SYSTEM	SD-04	FIO									
	15565-		HEATING SYSTEM	SD-01	FIO									
	15565-		HEATING SYSTEM	SD-04	GA									
	15565-		HEATING SYSTEM	SD-06	FIO									
	15565-		TESTING, ADJUSTING, AND BALANCING	SD-09	GA									
	15653-		AIR-CONDITIONING/ HEAT PUMP SYSTEM	SD-01	FIO									
	15653-		SPARE PARTS DATA	SD-01	FIO									
	15653-		AIR-CONDITIONING/ HEAT PUMP SYSTEM	SD-04	GA									

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		15653-	FRAMED INSTRUCTIONS	SD-06	FIO									
		15653-	TESTS	SD-07	FIO									
		15653-	TESTS	SD-09	GA									
		15653-	SYSTEM PERFORMANCE TESTS	SD-09	GA									
		15653-	INSPECTIONS	SD-09	FIO									
		15653-	AIR-CONDITIONING/ HEAT PUMP SYSTEM	SD-13	FIO									
		15653-	SERVICE ORGANIZATIONS	SD-13	FIO									
		15653-	OPERATION MANUAL	SD-19	FIO									
		15653-	MAINTENANCE MANUAL	SD-19	FIO									
		15895-	COMPONENTS AND EQUIPMENT DATA	SD-01	FIO									
		15895-	AIR SUPPLY, DISTRIBUTION, VENTILATION AND EXHAUST EQUIPMENT	SD-04	FIO									
		15895-	TEST PROCEDURES	SD-06	FIO									
		15895-	WELDING PROCEDURES	SD-06	FIO									
		15895-	SYSTEM DIAGRAMS	SD-06	GA									
		15895-	AIR SUPPLY, DISTRIBUTION, VENTILATION AND EXHAUST MANUALS	SD-19	GA									

TITLE AND LOCATION: **INS, REMODEL PHS MEDICAL FACILITY, FLORENCE, AZ**

\* CONTRACTOR:  
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\* SPECIFICATION SECTION:  
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NAS CODE (a)	ITEM NO. (b)	SPECIFICATION PARAGRAPH NO. (c)*	DESCRIPTION OF SUBMITTAL (d)	TYPE OF SUBMITTAL (e)**	CLASS (f)***	CONTRACTOR SUBMITTAL DATES			CONTRACTOR CODE (j)	ACTION DATE (k)	SUBMIT TO GOVT (l)	GOVERNMENT ACTION		REMARKS (o)
						CONTRACTOR SUBMIT (g)	APPROVAL NEEDED BY (h)	MATERIALS NEEDED BY (i)				CODE (m)	DATE (n)	
		15990-	TESTING AND BALANCING	SD-09	FIO									
		15990-	QUALIFICATIONS	SD-13	FIO									
		16262-	SWITCHES	SD-04	FIO									
		16262-	MATERIAL, EQUIPMENT AND FIXTURE LISTS	SD-07	FIO									
		16262-	TESTS	SD-09	FIO									
		16262-	EQUIPMENT AND MATERIAL	SD-13	FIO									
		16262-	SWITCHING EQUIPMENT	SD-13	FIO									
		16262-	SWITCHING EQUIPMENT	SD-19	FIO									
		16415-	FAULT CURRENT AND PROTECTIVE DEVICE COORDINATION STUDY	SD-01	FIO									
		16415-	MANUFACTURER'S CATALOG	SD-01	FIO									
		16415-	MATERIAL, EQUIPMENT, AND FIXTURE LISTS	SD-01	FIO									
		16415-	INSTALLATION PROCEDURES	SD-01	FIO									
		16415-	INTERIOR ELECTRICAL EQUIPMENT	SD-04	FIO									
		16415-	AS-BUILT DRAWINGS	SD-04	FIO									
		16415-	ON-SITE TEST	SD-08	GA									
		16415-	FACTORY TEST REPORTS	SD-09	GA									

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						CONTRACTOR SUBMIT (g)	APPROVAL NEEDED BY (h)	MATERIALS NEEDED BY (i)				CODE (m)	DATE (n)	
		16415-	FIELD TEST PLAN	SD-09	GA									
		16415-	FIELD TEST REPORTS	SD-09	GA									
		16415-	MATERIALS AND EQUIPMENT	SD-13	GA									
		16640-	CATHODIC PROTECTION SYSTEM	SD-01	FIO									
		16640-	QUALIFICATIONS	SD-01	FIO									
		16640-	CATHODIC PROTECTION SYSTEM	SD-04	FIO									
		16640-	TESTS AND MEASUREMENTS	SD-09	GA									
		16721-	BATTERY	SD-01	GA									
		16721-	QUALIFICATIONS	SD-01	FIO									
		16721-	FIRE ALARM REPORTING SYSTEM	SD-04	GA									
		16721-	FIRE ALARM REPORTING SYSTEM	SD-06	GA									
		16721-	TESTING	SD-09	FIO									
		16721-	INSTALLER	SD-09	FIO									
		16741-	SPARE PARTS	SD-01	FIO									
		16741-	PREMISES DISTRIBUTION SYSTEM	SD-04	GA									
		16741-	MANUFACTURER'S RECOMMENDATIONS	SD-06	FIO									
		16741-	TEST PLAN	SD-08	FIO									
		16741-	QUALIFICATIONS	SD-08	GA									

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						SUBMIT (g)	APPROVAL NEEDED BY (h)	MATERIALS NEEDED BY (i)	CODE (j)	DATE (k)	SUBMIT TO GOVT (l)	CODE (m)		DATE (n)
		16741-	TEST REPORTS	SD-09	FIO									
		16741-	PREMISES DISTRIBUTION SYSTEM	SD-13	FIO									
		16741-	MATERIALS AND EQUIPMENT	SD-13	FIO									
		16741-	INSTALLERS	SD-13	FIO									

\* This paragraph number should be the paragraph(s) which refer to the applicable criteria for the material or equipment described.  
 \*\* See Section 01305 for descriptions of the Types of Submittals.  
 \*\*\* CLASS = Classification where GA indicates "Government Approval" submittals and FIO indicates "For Information Only" submittals.

TITLE AND LOCATION: INS, ADAL FAC. CTRL. BLDG. AND  
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						SUBMIT (g)	APPROVAL NEEDED BY (h)	MATERIALS NEEDED BY (i)	CODE (j)	DATE (k)	SUBMIT TO GOVT (l)	CODE (m)		DATE (n)
		01451-	QUALITY CONTROL PLAN	SD-08	FIO									
		01451-	LIST OF TESTS	SD-01	FIO									
		01451-	NOTIFICATION OF CHANGES	SD-18	FIO									
		01451-	COORDINATION MEETING MINUTES	SD-01	FIO									
		01451-	CQC SYSTEM MANAGER QUALIFICATIONS	SD-01	FIO									
		01451-	CQC PERSONNEL	SD-01	FIO									
		01451-	PREPARATORY PHASE START NOTIFICATION	SD-18	FIO									
		01451-	PREPARATORY PHASE MINUTES	SD-01	FIO									
		01451-	INITIAL PHASE START NOTIFICATION	SD-18	FIO									
		01451-	INITIAL PHASE MINUTES	SD-01	FIO									
		01451-	TESTING LABORATORY QUALIFICATIONS	SD-01	FIO									
		01451-	PUNCH LIST	SD-01	FIO									
		01451-	DAILY RECORDS AND REPORTS	SD-09, 18	FIO									
		01451-	MINIMUM CONSTRUCTION QUALITY CONTROL REPORT	SD-09	FIO									
		01451-	PIPING SYSTEM TEST REPORT	SD-09	FIO									

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						SUBMIT (g)	APPROVAL NEEDED BY (h)	MATERIALS NEEDED BY (i)	CODE (j)	DATE (k)	SUBMIT TO GOVT (l)	CODE (m)		DATE (n)
		01451-	OPERATION AND MAINTENANCE	SD-19	FIO									
		02050-	WORK PLAN	SD-08	FIO									
		02222-	FIELD DENSITY TESTS	SD-09	FIO									
		02222-	TESTING OF BACKFILL MATERIALS	SD-09	FIO									
		02225-	TESTING LABORATORY	SD-13	FIO									
		02225-	DISPOSAL OF SATISFACTORY EXCAVATED MATERIAL	SD-08	GA									
		02225-	SATISFACTORY MATERIALS	SD-09	FIO									
		02241-	TEST REPORTS	SD-09	FIO									
		02241-	PRODUCT RECORD DOCUMENTS	SD-18	FIO									
		02511A-	CONCRETE	SD-18	FIO									
		02660-	INSTALLATION	SD-06	FIO									
		02660-	WASTE WATER DISPOSAL METHOD	SD-08	FIO									
		02660-	SATISFACTORY INSTALLATION	SD-08	FIO									
		02660-	BACTERIOLOGICAL DISINFECTION	SD-09	FIO									
		02660-	MANUFACTURER'S REPRESENTATIVE	SD-13	FIO									
		02660-	INSTALLATION	SD-13	FIO									

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		02660-	METERS	SD-13	FIO									
		02831-	CHAIN LINK FENCE	SD-13	FIO									
		03100-	CONCRETE FORMWORK	SD-01	FIO									
		03200-	CONCRETE REINFORCEMENT SYSTEM	SD-04	FIO									
		03200-	QUALIFICATIONS	SD-08	FIO									
		03200-	REINFORCING STEEL	SD-13	FIO									
		03300-	MIXTURE PROPORTIONS	SD-08	GA									
		03300-	CONCRETE TESTING SAMPLING PLAN	SD-08	GA									
		03300-	TESTING AND INSPECTION FOR CONTRACTOR QUALITY CONTROL	SD-09	GA									
		03300-	QUALIFICATIONS	SD-13	GA									
		03300-	SURFACE RETARDER	SD-14	GA									
		04200-	PREFACED CONCRETE MASONRY UNITS	SD-01	FIO									
		04200-	INSULATION	SD-01	GA									
		04200-	MASONRY WORK	SD-04	FIO									
		04200-	COLD WEATHER INSTALLATION	SD-08	GA									
		04200-	EFFLORESCENCE TEST	SD-09	GA									
		04200-	FIELD TESTING OF MORTAR	SD-09	GA									

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						SUBMIT (g)	APPROVAL NEEDED BY (h)	MATERIALS NEEDED BY (i)	CODE (j)	DATE (k)	SUBMIT TO GOVT (l)	CODE (m)		DATE (n)
		04200-	FIELD TESTING OF GROUT	SD-09	GA									
		04200-	FIRE-RATED CMU	SD-09	GA									
		04200-	CONCRETE MASONRY UNITS (CMU)	SD-13	FIO									
		04200-	PREFACED CONCRETE MASONRY UNITS	SD-13	FIO									
		04200-	CONTROL JOINT KEYS	SD-13	FIO									
		04200-	ANCHORS, TIES, AND BAR POSITIONERS	SD-13	FIO									
		04200-	EXPANSION-JOINT MATERIALS	SD-13	FIO									
		04200-	JOINT REINFORCEMENT	SD-13	FIO									
		04200-	REINFORCING STEEL BARS AND RODS	SD-13	FIO									
		04200-	MORTAR ADMIXTURES	SD-13	FIO									
		04200-	INSULATION	SD-13	FIO									
		04200-	CONCRETE MASONRY UNITS (CMU)	SD-14	FIO									
		04200-	PREFACED CONCRETE MASONRY UNITS	SD-14	FIO									
		05055-	WELDING PROCEDURES QUALIFICATIONS	SD-08	FIO									
		05055-	WELDER, WELDING OPERATOR, AND TACKER QUALIFICATIONS	SD-08	FIO									

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						SUBMIT (g)	APPROVAL NEEDED BY (h)	MATERIALS NEEDED BY (i)	CODE (j)	DATE (k)	SUBMIT TO GOVT (l)	CODE (m)		DATE (n)
		05055-	INSPECTOR QUALIFICATIONS	SD-08	FIO									
		05055-	QUALITY CONTROL	SD-18	FIO									
		05120-	STRUCTURAL STEEL SYSTEM	SD-04	FIO									
		05120-	STRUCTURAL CONNECTIONS	SD-04	FIO									
		05120-	ERECTION	SD-08	FIO									
		05120-	MILL TEST REPORTS	SD-13	FIO									
		05120-	WELDER QUALIFICATIONS	SD-13	FIO									
		05120-	FABRICATION	SD-13	FIO									
		05120-	BOLTS, NUTS, AND WASHERS	SD-14	FIO									
		05210-	STEEL JOISTS	SD-04	FIO									
		05210-	STEEL JOISTS	SD-13	FIO									
		05300-	DECK UNITS	SD-01	FIO									
		05300-	DECK UNITS	SD-04	FIO									
		05300-	DECK UNITS	SD-14	FIO									
		05300-	ACCESSORIES	SD-14	FIO									
		05300-	ATTACHMENTS	SD-18	FIO									
		05500-	MISCELLANEOUS METAL ITEMS	SD-04	FIO									

TITLE AND LOCATION: INS, ADAL FAC. CTRL. BLDG. AND  
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						SUBMIT (g)	APPROVAL NEEDED BY (h)	MATERIALS NEEDED BY (i)	CODE (j)	DATE (k)	GOVT SUBMIT TO (l)	CODE (m)		DATE (n)
		05500-	MISCELLANEOUS METAL ITEMS	SD-14	GA									
		06410-	CUSTOM CASEWORK	SD-01	FIO									
		06410-	CUSTOM CASEWORK	SD-04	FIO									
		06410-	CUSTOM CASEWORK	SD-06	FIO									
		06410-	CUSTOM CASEWORK	SD-14	FIO									
		06410-	SOLID SURFACE MATERIAL	SD-14	FIO									
		06410-	PLASTIC LAMINATE	SD-14	FIO									
		06410-	STAINLESS STEEL	SD-14	FIO									
		07220-	APPLICATION OF INSULATION	SD-06	FIO									
		07220-	INSPECTION	SD-08	FIO									
		07220-	INSULATION	SD-13	FIO									
		07220-	GLASS ROOFING FELT	SD-13	FIO									
		07220-	ORGANIC ROOFING FELT	SD-13	FIO									
		07270-	FIRESTOPPING MATERIALS	SD-04	FIO									
		07270-	FIRESTOPPING MATERIALS	SD-13	FIO									
		07270-	INSTALLER QUALIFICATIONS	SD-13	FIO									
		07270-	INSPECTION	SD-13	FIO									

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		07920-	MATERIALS	SD-13	FIO									
		08110-	FIRE RATED DOORS	SD-13	GA									
		08110-	THERMAL INSULATED DOORS	SD-13	GA									
		08110-	SECURITY DOORS	SD-13	GA									
		08318-	SECURITY VAULT DOOR	SD-13	FIO									
		08510A-	STEEL WINDOWS	SD-01	GA									
		08700A-	HARDWARE AND ACCESSORIES	SD-01	GA									
		08810-	GLASS	SD-01	FIO									
		08810-	GLAZING ACCESSORIES	SD-01	FIO									
		08810-	GLAZING MATERIALS AND ACCESSORIES	SD-04	FIO									
		08810-	GLASS	SD-13	FIO									
		09250A-	STEEL FRAMING	SD-04	GA									
		09250A-	CONTROL JOINTS	SD-04	FIO									
		09250A-	FIRE-RESISTANT ASSEMBLIES	SD-04	GA									
		09250A-	GYPSUM WALLBOARD	SD-13	GA									
		09250A-	WATER-RESISTANT GYPSUM BOARD	SD-13	GA									
		09250A-	STEEL FRAMING	SD-13	GA									

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						SUBMIT (g)	APPROVAL NEEDED BY (h)	MATERIALS NEEDED BY (i)	CODE (j)	DATE (k)	SUBMIT TO GOVT (l)	CODE (m)		DATE (n)
		09510-	ACOUSTICAL CEILING SYSTEM	SD-01	FIO									
		09510-	ACOUSTICAL CEILING SYSTEM	SD-04	FIO									
		09510-	FIRE RESISTIVE CEILINGS	SD-09	FIO									
		09510-	CEILING ATTENUATION CLASS AND TEST	SD-09	FIO									
		09510-	ACOUSTICAL UNITS	SD-13	FIO									
		09510-	ACOUSTICAL UNITS	SD-14	FIO									
		09650A-	RESILIENT FLOORING AND ACCESSORIES	SD-01	GA									
		09650A-	RESILIENT FLOORING AND ACCESSORIES	SD-14	GA									
		09900-	PAINT	SD-01	GA									
		09900-	MIXING AND THINNING	SD-06	GA									
		09900-	APPLICATION	SD-06	GA									
		09900-	PAINT	SD-09	GA									
		09900-	LEAD	SD-13	GA									
		09900-	MILDEWCIDE AND INSECTICIDE	SD-13	GA									
		09900-	VOLATILE ORGANIC COMPOUND (VOC) CONTENT	SD-13	GA									
		09900-	PAINT	SD-14	GA									

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						SUBMIT (g)	APPROVAL NEEDED BY (h)	MATERIALS NEEDED BY (i)	CODE (j)	DATE (k)	SUBMIT TO GOVT (l)	CODE (m)		DATE (n)
		10440-	INTERIOR SIGNAGE	SD-01	FIO									
		10508-	METAL LOCKERS	SD-01	FIO									
		10508-	METAL LOCKERS	SD-04	FIO									
		10800A-	FINISHES	SD-01	FIO									
		10800A-	ACCESSORY ITEMS	SD-01	FIO									
		13158-	SHOP DRAWINGS	SD-01	FIO									
		13958-	FORCED ENTRY RESISTANT COMPONENTS	SD-01	FIO									
		13958-	FORCED ENTRY RESISTANT COMPONENTS	SD-04	FIO									
		13958-	FORCED ENTRY RESISTANT COMPONENTS	SD-06	FIO									
		13958-	FORCED ENTRY RESISTANT COMPONENTS	SD-07	FIO									
		13958-	FORCED ENTRY RESISTANT COMPONENTS	SD-13	FIO									
		15250-	THERMAL INSULATION MATERIALS	SD-01	FIO									
		15330-	SPRINKLER SYSTEM EQUIPMENT	SD-01	GA									
		15330-	SPRINKLER SYSTEM SHOP DRAWINGS	SD-04	GA									
		15330-	AS-BUILT DRAWINGS	SD-04	FIO									
		15330-	PRELIMINARY TESTS	SD-07	GA									
		15330-	FINAL TEST	SD-07	GA									

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						SUBMIT (g)	APPROVAL NEEDED BY (h)	MATERIALS NEEDED BY (i)				CODE (m)	DATE (n)	
		15330-	INSTALLER QUALIFICATIONS	SD-08	GA									
		15330-	SUBMITTAL PREPARER'S QUALIFICATIONS	SD-08	GA									
		15330-	CONTRACTOR'S MATERIAL & TEST CERTIFICATES	SD-13	FIO									
		15400-	WELDING	SD-01	FIO									
		15400-	PLUMBING SYSTEM	SD-04	FIO									
		15400-	TESTS, FLUSHING AND STERILIZATION	SD-09	FIO									
		15400-	MATERIALS AND EQUIPMENT	SD-13	FIO									
		15400-	PLUMBING SYSTEM	SD-19	FIO									
		15653-	AIR-CONDITIONING/ HEAT PUMP SYSTEM	SD-01	FIO									
		15653-	SPARE PARTS DATA	SD-01	FIO									
		15653-	AIR-CONDITIONING/ HEAT PUMP SYSTEM	SD-04	GA									
		15653-	FRAMED INSTRUCTIONS	SD-06	FIO									
		15653-	TESTS	SD-07	FIO									
		15653-	TESTS	SD-09	GA									
		15653-	SYSTEM PERFORMANCE TESTS	SD-09	GA									
		15653-	INSPECTIONS	SD-09	FIO									

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						SUBMIT (g)	APPROVAL NEEDED BY (h)	MATERIALS NEEDED BY (i)	CODE (j)	DATE (k)	SUBMIT TO GOVT (l)	CODE (m)		DATE (n)
		15653-	SERVICE ORGANIZATIONS	SD-13	FIO									
		15653-	OPERATION MANUAL	SD-19	FIO									
		15653-	MAINTENANCE MANUAL	SD-19	FIO									
		15895-	COMPONENTS AND EQUIPMENT DATA	SD-01	FIO									
		15895-	AIR SUPPLY, DISTRIBUTION, VENTILATION AND EXHAUST EQUIPMENT	SD-04	FIO									
		15895-	TEST PROCEDURES	SD-06	FIO									
		15895-	WELDING PROCEDURES	SD-06	FIO									
		15895-	SYSTEM DIAGRAMS	SD-06	GA									
		15895-	AIR SUPPLY, DISTRIBUTION, VENTILATION AND EXHAUST MANUALS	SD-19	GA									
		15990-	TESTING AND BALANCING	SD-09	FIO									
		15990-	QUALIFICATIONS	SD-13	FIO									
		16415-	FAULT CURRENT AND PROTECTIVE DEVICE COORDINATION STUDY	SD-01	FIO									
		16415-	MANUFACTURER'S CATALOG	SD-01	FIO									
		16415-	MATERIAL, EQUIPMENT, AND FIXTURE LISTS	SD-01	FIO									

TITLE AND LOCATION: INS, ADAL FAC. CTRL. BLDG. AND  
ADAL PROCESSING AND VISITATION AREA,  
FLORENCE, AZ

\* CONTRACTOR:

\* SPECIFICATION SECTION:

NAS CODE (a)	ITEM NO. (b)	SPECIFICATION PARAGRAPH NO. (c)*	DESCRIPTION OF SUBMITTAL (d)	TYPE OF SUBMITTAL (e)**	CLASS (f)***	CONTRACTOR SUBMITTAL DATES			CONTRACTOR ACTION		GOVERNMENT ACTION		REMARKS (o)	
						SUBMIT (g)	APPROVAL NEEDED BY (h)	MATERIALS NEEDED BY (i)	CODE (j)	DATE (k)	SUBMIT TO GOVT (l)	CODE (m)		DATE (n)
		16415-	INSTALLATION PROCEDURES	SD-01	FIO									
		16415-	INTERIOR ELECTRICAL EQUIPMENT	SD-04	FIO									
		16415-	AS-BUILT DRAWINGS	SD-04	FIO									
		16415-	ON-SITE TEST	SD-08	GA									
		16415-	FACTORY TEST REPORTS	SD-09	GA									
		16415-	FIELD TEST PLAN	SD-09	GA									
		16415-	FIELD TEST REPORTS	SD-09	GA									
		16415-	MATERIALS AND EQUIPMENT	SD-13	GA									
		16640A-	CATHODIC PROTECTION SYSTEM	SD-01	FIO									
		16640A-	QUALIFICATIONS	SD-01	FIO									
		16640A-	CATHODIC PROTECTION SYSTEM	SD-04	FIO									
		16640A-	TESTS AND MEASUREMENTS	SD-09	GA									

\* This paragraph number should be the paragraph(s) which refer to the applicable criteria for the material or equipment described.

\*\* See Section 01305 for descriptions of the Types of Submittals.

\*\*\* CLASS = Classification where GA indicates "Government Approval" submittals and FIO indicates "For Information Only" submittals.

SECTION 01341

COLOR/FINISH SAMPLE BOARDS

1. Six (6) complete sets of coordinated color/finish sample boards shall be submitted to the Contracting Officer for approval within a period of time not to exceed 60 calendar days after Notice to Proceed (NTP). Upon receipt of the submitted samples, a 60-day review period by the Government can be anticipated.

2. Color/finish boards shall have attached samples of all interior appearance related construction items the Contractor proposes to furnish, including, but not limited to such items as interior paints and finishes; trim items; floor, wall and ceiling tiles; doors; plastic laminates for cabinet work, signage, etc. Each sample shall indicate color, texture, and finish and shall be identified as to type of material and area of installation. Identification of each sample shall include the transmittal number under which certification of the material represented has been or will be submitted in accordance with the requirements of Section, SUBMITTAL PROCEDURES. Technical compliance of all color/finish related materials must be established (i.e., submittals approval) prior to preparation and submittal of preliminary color boards. Submittals shall be complete; partial submittals will not be acceptable. The sample board backing material shall be of sufficient strength to maintain its original configuration after samples have been attached to it. The Contractor shall obtain approval of the total construction color board before start of any finish work involving any item included on the color board.

3. After receipt of final approval from the Government, the Contractor shall prepare and submit to the Contracting Officer one set of approved and corrected color/finish sample boards. Construction color boards must match those approved during design.

4. FORMAT:

a. Binders: Provide submittals in 8-1/2" by 11" format. Use sturdy three-ring binders of appropriate diameter.

b. Card Stock Sheets: Sheets containing samples shall be heavy, medium gray illustration board (not white or colored) capable of supporting a four inch by eight inch quarry tile, without distorting binder release or causing sheet tear-out due to hole failure.

c. Mounting: Loose and lost samples are a major concern. All samples must stay mounted for many months of handling. Adhesives must be appropriate for the sample. For instance, white glue is appropriate for paper or cloth and construction adhesive is good for masonry.

d. Content: A typical color board consists of all samples, a finish schedule, floor plan, and interior elevations with each clearly indicating the location of each finish/color. Items other than material sample boards may be folded to 8-1/2" by 11" (i.e., floor plans, finish schedules etc.).

e. Identification: Identify each sample by use, location, and manufacturer's name. Group according to the location where each used.

- - End of Section - -

SECTION 01420

SAFETY

1. SAFETY. The Contractor shall comply with all applicable Federal laws and with such additional measures as the Contracting Officer may find necessary in accordance with the Contract Clause titled: ACCIDENT PREVENTION. Applicable provisions of the Corps of Engineers manual entitled "Safety and Health Requirements Manual", EM 385-1-1, current edition, shall be applied to all work under this contract. The reference manual may be obtained from the Contracting Officer's Representative, at the job site.

2. ZERO INJURY PROGRAM. The Contractor is required to implement a ZERO INJURY PROGRAM for this project. Implementation shall comply with the requirements hereinafter stated and other guidance provided by the Albuquerque District.

2.1 Definition. The term ZERO INJURY identifies a unique attitude which exists on projects achieving the category of "safety excellence". This attitude appears as a zealous commitment by top management to the concept that zero injury is the only acceptable goal. From the standpoint of worker psychology, any other goal leaves the subtle message that injuries will occur and that they are inevitable on a construction site. It is no longer acceptable to take chances. Shortcuts taken because of laziness or even while trying to do an efficient job are no longer welcomed. Praise for shortcuts or chance-taking will not exist.

The elimination of injuries is vital to the efficient execution of construction projects. Productivity and safety are so intertwined in the workplace, that to spend time and energy on safety not only improves safety performance, it also improves schedule and reduces costs.

2.2 Experience Modification Rate. Prior to awarding any subcontract, the prime contractor shall furnish to the Contracting Officer the EMR of the proposed subcontractors (at any tier).

2.2.1 Should a subcontractor (at any tier) have an EMR of 1.05 or higher, a meeting with the Contracting Officer prior to that subcontractor performing any work will be required to explain how the prime contractor intends to maintain an accident free work site.

2.3 Contractor Performance Appraisal. The occurrence of accidents and near-misses due to negligence are strong indications that there has been insufficient emphasis on effective implementation and/or commitment to the zero injury program. Should it become obvious that only lip service is being given to this program, an interim unsatisfactory performance appraisal rating will be issued. If safety continues to be unsatisfactory or marginal, the unsatisfactory rating will become final. The Contractor should be aware that this appraisal will be stored in a national computer database which can be accessed by a multitude of agencies or municipalities desiring information on prospective contractors. An unsatisfactory rating in this database may affect the Contractor's ability to obtain future Government work.

2.4 Implementation. Immediately upon award of this contract the Contractor shall commence implementation of a zero injury program at follows:

a. Adopt the "Zero Injury" philosophy beginning with the CEO who sets the expectation that worker injury is unacceptable on all work.

b. Create a culture that all employees at all levels accept ownership of the safety performance objective of "Zero Injuries". The CEO sets the expectation and empowers all employees to do what is necessary to reach zero injury performance.

c. To the maximum extent possible, the contractor is encouraged to use the techniques outlined in Construction Industry Institute Publication 32-1, "ZERO INJURY TECHNIQUES". As a minimum, the Contractor shall address the "High-Impact Zero Injury Techniques" (as outlined in Appendix C of the Albuquerque District pamphlet "Zero Accident Program") in the Accident Prevention Program.

d. Institute a Return-to-Work program as defined in Appendix E of Albuquerque District pamphlet "ZERO ACCIDENT PROGRAM" as a guide.

3. ACCIDENT PREVENTION PROGRAM. Within fifteen (15) calendar days after receipt of Notice to Proceed, and at least ten (10) calendar days prior to the Safety Prework Conference, four (4) copies of the Accident Prevention Program required by the Contract Clause titled: ACCIDENT PREVENTION shall be submitted for review and acceptance by the Contracting Officer. No on-site work shall begin until after the Accident Prevention Program has been submitted and accepted. (Note: The Contractor develops and approves safety submittals. Approval indicates the Contractor has evaluated and approves the entire contents of the submittal and sanctions or recommends its adoption. Acceptance by the Contracting Officer indicates that the submittal has satisfied the basic requirement(s) of the FAR and/or EM 385-1-1. The Contracting Officer does not review submittals with an eye towards evaluating how the submittal provides for safety of contractor personnel, but reviews them with the intention of obtaining satisfactory performance of the contract). The program shall be prepared in the following format:

3.1 SPA Form 705 "Accident Prevention Program", or equivalent, fully completed and signed by an officer of the company in Block No. 28.

3.2 SPA Form 771-E (Revised 12 August 96) "Hazard Analysis" fully completed and signed by an officer of the company. The job hazard analysis is a method in which those hazards most likely to cause a fatality or significant disability are analyzed. Corrective action is then planned in advance which will eliminate the hazards. A written analysis is required for each phase of work and shall be presented at the preparatory inspection (P/I) meeting. On large or complex jobs the first phases may be presented in detail with the submittal of the Accident Prevention Program rather than presenting the complete analysis initially. If the plan is to be presented in phases, a proposed outline for future phases must be submitted as a part of the initial Accident Prevention Program submittal. The Accident Prevention Program will be reviewed for timeliness and adequacy at least monthly by the Contractor and noted as such on the Contractor's Quality Control Report at that time.

3.3 Copy of company policy statement on accident prevention and any other guidance or indoctrination provided to new employees. In addition, a description of the employee and supervisor safety responsibilities and authorities from the working level up through each supervisory level of the Contractor's organization shall be provided.

3.4 Details on how the Contractor will institute the Zero Injury program for this project.

3.5 In addition to those contained in EM 385-1-1, Appendix A, include the following items in the Accident Prevention Program:

3.5.1 Hard Hat Area. A statement that the job site is classified a "hard hat" area from start to finish.

3.5.2 Sanitation and Medical Requirements. Estimate of the greatest number of employees, supervisors, etc., to be working at peak construction period, including sub-contractor personnel. Include sanitation and medical facilities planned for the job site.

3.5.3 Equipment Inspection. What type of inspection program on cranes, trucks, and other types of construction equipment does the Contractor plan to implement. Who will be responsible for the inspection and how does the Contractor plan to control equipment of sub-contractors and equipment brought to the job site by rental companies. Types of records to be kept.

4. WORK SAFETY INCENTIVE. The Contractor shall provide a plan to encourage all employees to work safely. This plan shall be directed at the individual employee and shall be so designed such that it motivates all employees toward a safe work attitude. The plan shall be designed to be a positive incentive plan and must include a tangible reward and benefit to work groups. The reward frequency shall be at least once a month. The "Work Safety Incentive Plan" must be integrated into the overall "Accident Prevention Plan" which must be reviewed and accepted by the Contracting Officer prior to the start of construction.

5. ACCIDENT REPORTS. The Contractor shall immediately report all accidents by telephone to the Contracting Officer. The Contractor Initial Report of Accident/Near Miss form shall be submitted by the following day to the Contracting Officer (See Contractor Initial Report of Accident/Near Miss form, attached.) Near misses shall be reported, using the same form, to the Contracting Officer within 24 hours of the incident. The Contractor shall complete and submit ENG Form 3394 for all lost time accidents within 48 hours of the accident.

5.1 Monthly Exposure Report. The Contractor shall submit SPA Form 743-J, Monthly Exposure Report, to the Contracting Officer no later than the 5th of each month. This report is a compilation of manhours worked each month by the prime contractor and each subcontractor.

6. CLEANUP. The Contractor's accident prevention program shall identify the individuals responsible for cleanup and shall establish a regular cleanup procedure and schedule. If the Contracting Officer determines that cleanup is not being performed satisfactorily, the Contractor shall establish a work crew to perform the continuous cleanup required by the Contract Clause titled:

CLEANING UP. The individual(s) appointed to the work crew to perform daily cleanup shall not perform any other duties under this contract, unless approved by the Contracting Officer. The number of individuals appointed to perform cleanup shall be increased as directed by the Contracting Officer until adequate cleanup is maintained.

7. SPECIAL REQUIREMENTS. The following requirements shall be met by the Contractor if applicable:

7.1 Electrical Work: Electrical work shall not be performed on or near energized lines or equipment unless specified in the plans and specifications.

7.1.1 Upon request by the Contractor, arrangements will be made for deenergizing lines and equipment so that work may be performed. All outages shall be requested through the authorized representative of the Contracting Officer a minimum of 14 days, unless otherwise specified, prior to the beginning of the requested outages. Dates and duration shall be specified.

7.1.2 Upon approval of the Contracting Officer's representative, the following work may be performed with the lines energized using certified hot line equipment on lines above 700 volts, when the following conditions have been met.

7.1.2.1 Work below the conductors no closer than the clearance required in EM 385-1-1 from the energized conductors.

7.1.2.2 Setting and connection of new pretrimmed poles in energized lines which do not replace an existing pole.

7.1.2.3 Setting and removing transformers or other equipment on poles.

7.1.2.4 Installation or removal of hot line connectors, jumpers, dead-end insulators for temporary isolation, etc., which are accomplished with hot line equipment from an insulated bucket truck.

7.1.3 The Contractor shall submit a plan, in writing, describing his method of operation and the equipment to be used on energized lines. Proper certification from an approved source of the safe condition of all tools and equipment shall be provided with the plan. The work shall be planned and scheduled so that proper supervision is maintained. The Contractor shall review his plan with the Contracting Officer's representative prior to being granted permission to perform the work.

7.1.4 No work on lines greater than 600 volts shall be performed from the pole or without the use of an insulated bucket truck.

7.1.5 No work shall be done on overbuilt lines while underbuilt lines are energized, except for temporary isolation and switching in accordance with 7.1.2.4 hereinbefore.

7.2 Electrical Tools: Hand held electric tools shall be used only on circuits protected by ground fault circuit interrupters for protection of personnel.

7.3 Electrical Cords: All general use extension cords shall be of a type listed by Underwriters' Laboratories and shall be classified as Type S, SE, SEO,

SO, SOO, ST, STO, or STOO, as described in Table 400-4 of the current edition of the National Electric Code (NFPA 70).

7.4 Generators: Prior to use, GFI outlets shall be installed and tested with a GFI circuit tester (tripping device). Portable and vehicle mounted generators shall be inspected or compliance with EM 385-1-1 and NFPA 70.

7.5 Rollover Protective Structures:

7.5.1 R.O.P.S. for rollers and compactors shall be certified to meet SAE requirement J1040C.

7.5.2 R.O.P.S., as required by paragraph 16.B.12, EM 385-1-1, includes self-propelled pulverizers.

7.6 Radiation Permits or Authorizations:

7.6.1 Contractors contemplating the use of radioactive materials or radiation producing equipment while performing work on this contract must obtain written authorization from the Immigration and Naturalization Service.

7.6.2 A 45-day lead time should be programmed for obtaining this written authorization.

7.6.3 When requested, the Contracting Officer's Authorized Representative will assist Contractor in obtaining the required permit or authorization.

7.6.4 Contractor must have an SOP for radiation safety to comply with ER 385-1-80. Provisions for leak tests, authorized personnel, transport certificates, etc., must be addressed in this SOP.

7.7 Self-Propelled Elevating Work Platforms: All self-propelled elevating work platforms shall be designed, constructed, maintained, used, and operated in accordance with the guidance provided in American National Standard for Self-Propelled Elevating Work Platforms (ANSI A92.6-1990), ANSI B56.1, and OSHA Stds. 1910.31 and 1910.28 (Forklift Work Platforms), together with any amendments which may be in force at time contract is awarded.

7.8 Language: For each work group that has employees that do not speak English the Contractor shall provide a bilingual foreman that is fluent in the language of the workers. The Contractor shall implement the requirements of EM 385-1-1, Para. 01.B.01, 01.B.02, and 01.B.03 through these foremen.

7.9 Guarding of Roofs and Open-Sided Floors: To supplement and emphasize the requirements of Contract Clause "Accident Prevention" and the safety manual, EM 385-1-1, the following is provided:

7.9.1 Perimeter guard rails shall be installed on all open-sided floors on multistoried buildings, and on all roof perimeters. Guard rails shall be installed as the decking crew completes an area and before any other work starts and shall remain intact as long as construction work is in progress in the area.

7.9.2 The Contractor shall submit his proposed method of fall protection to the Contracting Officer's Representative as part of his Hazard Analysis for approval before beginning roof operations.

7.9.3 Ladders: All ladders must be classified as "Heavy Duty" or "Extra Heavy Duty" type 1A-300 lb rating as specified in ANSI A14.1, Safety Code for Portable Ladders.

7.10 Security Housekeeping: The Contractor shall control all stored materials and remove all waste material including wire cuttings, nails, conduit, lumber, and small debris. If housekeeping is determined to be unsatisfactory by the Government, all work shall cease until housekeeping has been corrected and accepted.

8. The Contracting Officer will notify the Contractor of any noncompliance with the foregoing provisions and the action to be taken. The Contractor shall, after receipt of such notice, immediately take corrective action. Such notice, when delivered to the Contractor or his representative at the site of the work, shall be deemed sufficient for the purpose. 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 any such stop orders shall be made the subject of a claim for extension of time or for excess costs or damages by the Contractor. The Contractor shall be responsible for subcontractor compliance with this provision. The Contractor shall include the provisions of this clause in all subcontracts involving performance of work at the site. However such provision in the subcontractor's contract shall not relieve the Contractor of his obligation to assure compliance with the provisions of this clause for all aspects of the work.

- - End of Section - -



PHS Medical Facility  
ADAL Facility Control Building  
ADAL Processing and Visitation Area

A99R0007



PHS Medical Facility  
ADAL Facility Control Building  
ADAL Processing and Visitation Area

A99R0007



CONTRACTOR INITIAL REPORT OF ACCIDENT/NEAR MISS

Date \_\_\_\_\_ Lost Time \_\_\_\_ Property \_\_\_\_  
and Time of Accident/Near Miss \_\_\_\_\_ Injury \_\_\_\_ Damage \_\_\_\_

Contract No. \_\_\_\_\_ Prime \_\_\_\_\_ Sub \_\_\_\_\_

Name of Injured or Equipment Operator \_\_\_\_\_ Occupation \_\_\_\_\_

Social Security No. \_\_\_\_\_ Age \_\_\_\_\_

Extent of Injury \_\_\_\_\_

Equipment or tools involved (Include type, brand, model, age, damage if any)

Description of Accident/Near Miss \_\_\_\_\_

Corrective Action \_\_\_\_\_

Names of Witnesses \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

Title \_\_\_\_\_

### HAZARD ANALYSIS

ACTIVITY _____	ANALYZED BY/DATE _____	REVIEWED BY/DATE _____
<b>PRINCIPAL STEPS</b>	<b>POTENTIAL HAZARDS</b>	<b>RECOMMENDED CONTROLS</b>
<p>Break the job down into basic steps, e.g., what is done first, what is done next, and so on. You can do this by 1) observing the job, 2) discussing it with the operator, 3) drawing on your knowledge of the job, or 4) a combination of the three. Record the job steps in their normal order of occurrence. Describe what is done, not the details of how it is done. Usually 3 or 4 sentences are sufficient to describe each basic job step.</p>	<p>For each step of the activity, ask what accidents could possibly occur. You can develop answers by 1) observing the job, 2) discussing it with the operator, 3) recalling past accidents or 4) a combination of all. Ask: Can the operator be struck by or contacted by anything; can he/she strike against or come in contact with anything; can he/she fall, be caught in, or between something; can he overexert; is he exposed to gas, radiation, welding rays, etc., for example, acid burns or fumes. Assign a identifying number to each potential hazard.</p>	<p>For each potential accident or hazard ask how the individual should do the job step to avoid the potential accident, or what should be done or not done to avoid the accident. Get the answers by 1) observing the job for leads, 2) discussing precautions with experienced employees, 3) drawing on your experience or 4) a combination of the three. Be sure to describe specifically the precautions to be taken. Don't leave out important details. Number each separate recommended precaution with the same number you assigned to the potential accident (See Potential Hazards column) that the precaution seeks to avoid. Use simple do or don't statements to explain recommended precautions as if you were talking to the operator.</p>
<b>EQUIPMENT TO BE USED</b>	<b>INSPECTION REQUIREMENTS</b>	<b>TRAINING REQUIREMENTS</b>

<b>List equipment/machinery to be used in conducting the work activities.</b>	<b>List inspection requirements for the equipment/machinery listed.</b>	<b>Determine requirements for worker training, including hazard communication.</b>
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SPA 771-E Revised 12 August 96



PHS Medical Facility  
ADAL Facility Control Building  
ADAL Processing and Visitation Area

A99R0007







SECTION 01451

CONTRACTOR QUALITY CONTROL

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	(1994a) 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	(1995b) 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.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION

3.1 GENERAL

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 construction operations, both onsite and offsite, and shall be keyed to the proposed construction sequence. The 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 quality requirements specified in the contract. The project superintendent in this context shall mean the individual with the responsibility for the overall management of the project including quality and production.

### 3.2 QUALITY CONTROL PLAN

#### 3.2.1 General

The Contractor shall furnish for review by the Government, not later than 10 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, test, records, and forms to be used. The Government will consider an interim plan for the first 60 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.

#### 3.2.2 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 the project manager or someone higher in the Contractor's organization. Project manager in this context shall mean the individual with responsibility for the overall management of the project including quality and production.

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 will also be furnished to the Government.

d. Procedures for scheduling, reviewing, certifying, and managing submittals, including those of subcontractors, off-site fabricators, suppliers, and purchasing agents. These procedures shall be in accordance with Section 01330 - 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 will establish verification that identified deficiencies have been corrected.

h. Reporting procedures, including proposed reporting formats. The Contractor shall utilize a Government-furnished software program titled "RMS" (Resident Management System). See paragraph, IMPLEMENTATION OF GOVERNMENT RESIDENT MANAGEMENT SYSTEM FOR CONTRACTOR QUALITY CONTROL OF CONTRACT, of this section for additional details.

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.

j. A list of tests to be performed shall be furnished as a part of the CQC Plan. The list shall give the test name, frequency, specification paragraph containing the test requirement, the personnel and laboratory responsible for each type of test, and an estimate of the number of tests required.

k. RMS will assist in tracking and reporting for the above requirements. Sample forms generated from the software package shall be used as part of the CQC Plan.

### 3.2.3 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.

### 3.2.4 Notification of Changes

After acceptance of the CQC plan, the Contractor shall notify the Contracting Officer in writing a minimum of seven calendar days prior to any proposed change. Proposed changes are subject to acceptance by the Contracting Officer.

### 3.3 COORDINATION MEETING

After the Preconstruction Conference, before start of construction, and prior to acceptance by the Government of the Quality Control 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 10 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 QUALITY CONTROL ORGANIZATION

#### 3.4.1 General

The requirements for the CQC organization are a CQC System Manager and sufficient number of additional qualified personnel to ensure contract compliance. The Contractor shall provide a CQC organization which shall be at the site at all times during progress of the work and with complete authority to take any action necessary to ensure compliance with the contract. All CQC staff members shall be subject to acceptance by the Contracting Officer

##### 3.4.1.1 CQC Staff

Following are the minimum requirements for the CQC staff. These minimum requirements will not necessarily assure an adequate staff to meet the CQC requirements at all times during construction. The actual strength of the CQC staff may vary during any specific work period to cover the needs of the work period. When necessary for a proper CQC organization, the Contractor will add additional staff at no cost to the Government. This listing of minimum staff in no way relieves the Contractor of meeting the basic requirements of quality construction in accordance with contract requirements. All CQC staff members shall be subject to acceptance by the Contracting Officer.

##### 3.4.1.2 CQC System Manager

The Contractor shall identify an individual within his organization at the site of the work, who shall be responsible for overall management of CQC and have the authority to act in all CQC matters for the Contractor. This individual shall be a full-time employee whose only duties are to provide continuous inspection of the work to ensure compliance with the contract plans and specifications. This person shall be separate from the Superintendent and be on the job site at all times that work or testing is in progress. This person shall have as a minimum: five (5) years verifiable experience at the construction skilled-craft foreman level or above; at least five (5) years verifiable experience as a construction Contractor Quality Control Representative; or at least three (3) years experience in either of the two preceding fields, i.e. skilled-craft foreman or above, or Contractor Quality Control Representative plus an appropriate engineering degree. This CQC System Manager shall be acceptable to the CO or ACO.

#### 3.4.1.3 Supplemental Personnel

A staff shall be maintained under the direction of the system manager to perform all QC activities. The CQC staff during any specific work period may vary to cover work phase needs, shifts, and rates of placement. Clerical personnel sufficient to accomplish timely submittal of Quality Control Reports and other required documentation shall be provided. The personnel of this staff shall be fully qualified by experience and technical training to perform their assigned responsibilities. These individuals may be employees of the prime or subcontractor, be responsible to the CQC System Manager, be physically present at the construction site during work on their areas of responsibility, and have the necessary education and/or experience. 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.

#### 3.4.1.4 Additional Requirements

In addition to the above experience and education requirements the CQC System Manager shall have completed the course entitled, "Construction Quality Management for Contractors." This course is offered quarterly by the Los Angeles District. Contact the Contracting Officer for more information.

#### 3.4.2 Organizational Changes

The Contractor shall obtain Contracting Officer's acceptance before replacing any member of the CQC staff. Requests shall include the names, qualifications, duties, and responsibilities of each proposed replacement.

#### 3.5 SUBMITTALS

Submittals shall be made as specified in Section 01330 - SUBMITTAL PROCEDURES. The CQC organization shall be responsible for certifying that all submittals are in compliance with the contract requirements.

#### 3.6 IMPLEMENTATION OF GOVERNMENT RESIDENT MANAGEMENT SYSTEM FOR CONTRACTOR QUALITY CONTROL OF CONTRACT

The Contractor shall utilize a Government-furnished software program entitled "RMS" (Resident Management System) to maintain critical information needed to manage the project. RMS produces up-to-date management and analysis reports as well as a majority of the forms required in this contract for submission to the Government. One such form is the Daily CQC Reporting System form which is required to be utilized by the Contractor. This form may be in addition to other Contractor desired reporting forms. However, all other such reporting forms shall be consolidated into this one Government specified Daily CQC Report Form.

The Contractor will also be required to complete RMS Program Module elements which includes, but is not limited to, Prime Contractor staffing; letter codes; planned cumulative progress earnings; subcontractor information showing trade, name, address, point-of-contact, and insurance expiration dates; definable features of work; pay activity and activity information; required Quality Control tests tied to individual activities; planned User Schooling

tied to specific specification paragraphs and contractor activities; Installed Property Listing, Transfer Property Listing and submittal information relating to specification section, description, activity number, review period and expected procurement period. The sum of all activity values shall equal the contract amount, and all Bid Items, Options and Additives shall be separately identified, in accordance with the "Bidding Schedule". Bid Items may include multiple Activities, but Activities may only be assigned to one such Bid Item. This Module shall be completed to the satisfaction of the Contracting Officer prior to any contract payment (except for Bonds, Insurance and/or Mobilization, as approved by the Contracting Officer) and shall be updated as required.

(1) During the course of the contract, the Contractor will receive various Quality Assurance comments from the Government that will reflect corrections needed to Contractor activities or reflect outstanding or future items needing the attention of the Contractor. The Contractor will acknowledge receipt of these comments by specific number reference on his Daily CQC Report, and will also reflect on his Daily CQC Report when these items are specifically completed or corrected to permit Government verification.

(2) The Contractor's schedule system shall include, as specific and separate activities, all Preparatory Phase Meetings (inspections); all O&M Manuals; and all Test Plans of Electrical and Mechanical Equipment or Systems that require validation testing or instructions to Government representatives.

The following minimum hardware and software requirements are needed by the Contractor to run RMS: A personal computer with 80386 processor (or higher) and four megabytes (MB) or more of random access memory (RAM), and a 3-1/2 inch high density floppy drive. Also needed is a HP LaserJet Series III printer or later (or compatible), a color monitor, MS-DOS, version 5.0 or later, Word Perfect, version 5.1 or later, and Computer files = 81.

Once the Contract is awarded, the Contractor will be given a copy of the RMS program for implementation. A meeting between the Government and the Contractor will be arranged to inform the Contractor on the use of the software package which is similar to the one the Government will use to manage the project. File updates will be transferred to the Government by disk on a weekly basis, unless electronic transfers are agreed on.

### 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 features 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.
- 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. Discussion of the initial control phase.
- k. The Government shall be notified at least 72 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 24 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 on site, 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 or 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 approved 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 will 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 will 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. The Contractor shall maintain a test log of all tests performed, by type, date, and specification section.

### 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 \$1,000.00 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 On Site 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 Laboratory, f.o.b., at the following address:

For delivery by mail and for other deliveries:

Commander, U.S. Army Engineer Waterways Experiment Station  
ATTN: CEWES-SC  
3909 Halls Ferry Road  
Vicksburg, Mississippi 39180-6199

Coordination for each specific test, exact delivery location, and dates will be made through the Area Office.

### 3.8.5 On-Site 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.

### 3.8.6 Furnishing or Transportation of Samples for Testing

Costs incidental to the transportation of samples or materials will 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:

For delivery by mail:

Director  
South Pacific Division Laboratory  
U.S. Army Corps of Engineers  
P.O. Box 37  
Sausalito, CA 94966

For other deliveries:

Director  
South Pacific Division Laboratory  
U.S. Army Corps of Engineers  
Bridgeway, Foot of Spring St.  
(bldg. directly east of 2000 Bridgeway)  
Sausalito, CA 94965

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 completion of all work or any increment thereof established by a completion time stated in the Special Clause entitled "Commencement, Prosecution, and Completion of Work," or stated elsewhere in the specifications, the CQC System Manager shall conduct an inspection of the work and develop a punch list of items which do not conform to the approved drawings and specifications. Such a list of deficiencies shall be included in the CQC documentation, as required by paragraph DOCUMENTATION below, and 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 this 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 an particular increment thereof 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 this 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 should be identified (Preparatory, Initial, Follow-up). List 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 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.

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 12 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.

### 3.10.1 Correspondence

The Contractor shall establish and implement a serialized numbering system for letters sent to the Government. The numbering system shall identify the contract number and shall progress sequentially starting with the number one (1) and continuing thereafter without break in numbering. All letters sent to the Government shall include a subject heading which identifies the Contract Clause Number, Special Clause Number, or Technical Provision Number, and the particular subject item addressed by the letter.

### 3.11 SAMPLE FORMS

Sample forms are enclosed at the end of this section as follows:

- a. Minimum Daily Construction Quality Control Report and the required preparatory and initial inspection documentation.
- b. All tests of piping systems or portions thereof shall be recorded on the "Piping System Test Report".

### 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

PHS Medical Facility  
ADAL Facility Control Building  
ADAL Processing and Visitation Area

A99R0007

delivered to the Contractor at the worksite, 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.

### 3.13 CONSTRUCTION CONTROL MANUAL

In addition to the requirements specified in the various Technical Specifications hereinafter, test procedures and minimum number of tests will be performed in accordance with SPK PAM 415-1-2, "Construction Control Manual". Neither the specified minimum number of tests nor the lack of them shall in any way limit or relieve the Contractor of his responsibility to perform adequate tests to assure compliance with the quality requirements of these specifications. The referenced standards listed in this Construction Control Manual shall be of the latest issue unless otherwise specified.

The "Construction Control Manual" may be examined in the following office locations, and will be furnished to the Contractor:

Corps of Engineers  
Los Angeles District  
Construction Management Section  
911 Wilshire Blvd.  
Los Angeles, CA 90017

Corps of Engineers  
Arizona Area Office  
3636 N. Central Ave., Suite 750  
Phoenix, Arizona

- - End of Section - -

(Sample of typical Contractor Quality Control Report)

CONTRACTOR'S NAME  
(Address)

DAILY CONSTRUCTION QUALITY CONTROL REPORT

Date: \_\_\_\_\_ Report No. \_\_\_\_\_

Contract No.: \_\_\_\_\_

Description and Location of Work: \_\_\_\_\_

WEATHER: (Clear) (P. Cloudy) (Cloudy); Temperature: \_\_\_\_\_ Min. \_\_\_\_\_ Max;  
Rainfall \_\_\_\_\_ inches.

Contractor/Subcontractors and Area of Responsibility with Labor Count for Each

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_
- d. \_\_\_\_\_

Equipment Data: (Indicate items of construction equipment, other than hand tools, at the job site, and whether or not used.)

1. Work Performed Today: (Indicate location and description of work performed. Refer to work performed by prime and/or subcontractors by letter in Table above. If no work is performed, report the reason.)

---

2. Results of Surveillance: (Include satisfactory work completed, or deficiencies with action to be taken.)

- a. Preparatory Inspection:
- b. Initial Inspections:
- c. Follow-up Inspections:

---

3. Test Required by Plans and/or Specifications Performed and Results of Tests:

4. Verbal Instructions Received: (List any instructions given by Government personnel on construction deficiencies, retesting required, etc., with action to be taken.)

---

5. Remarks: (Cover any conflicts in plans, specifications, or instructions or any delay to the job.)

---

6. Results of Safety Inspection: (Include safety violations and corrective actions taken.)

---

Contractor's Inspector

---

CONTRACTOR'S VERIFICATION: The above report is complete and correct and all material and equipment used and work performed during this reporting period are in compliance with the contract plans and specifications except as noted above.

---

Contractor's Chief of Quality Control

NOTE

DO NOT LEAVE REPORT ITEMS BLANK

Items 1. through 6. must be reported every day. If there is no other report on an item, enter the word "none" in the reporting space. Reports with items left blank will be returned as incomplete.

PREPARATORY INSPECTION

CONTRACT NO.: \_\_\_\_\_ DATE: \_\_\_\_\_

TITLE: \_\_\_\_\_  
\_\_\_\_\_

SPECS SECTION: \_\_\_\_\_  
\_\_\_\_\_

APPLICABLE CONTRACT DRAWINGS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DEFINABLE FEATURE OF WORK: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

HAS INSURANCE CERTIFICATION BEEN SUBMITTED TO COE? \_\_\_\_\_

A. REVIEW OF APPLICABLE SPECIFICATIONS CLARIFY ALL REQUIREMENTS

B. REVIEW OF APPLICABLE CONTRACT PLANS

C. A CHECK TO ASSURE THAT ALL MATERIALS AND/OR EQUIPMENT HAVE BEEN TESTED, SUBMITTED, AND APPROVED. LIST ALL TRANSMITTAL NUMBERS, APPROVAL CODES, AND CATEGORIES. A PHYSICAL EXAMINATION OF R EQUIRED MATERIALS, EQUIPMENT, AND SAMPLE WORK TO ASSURE THAT THEY ARE ON HAND, CONFORM TO APPROVED SHOP DRAWING OR SUBMITTED DATA, AND ARE PROPERLY STORED.

<u>TRANSMITTAL NOS.</u>	<u>CODE</u>	<u>CATEGORIES</u>
-------------------------	-------------	-------------------

D. A CHECK TO ASSURE THAT PROVISIONS HAVE BEEN MADE TO PROVIDE REQUIRED CONTROL TESTING AND INSPECTION. LIST TEST REQUIRED, FREQUENCY, AND STANDARD.

<u>TEST</u>	<u>FREQUENCY</u>	<u>REFERENCE</u>
-------------	------------------	------------------

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 REVIEW OF THE APPROPRIATE ACTIVITY HAZARD ANALYSIS TO ASSURE SAFETY REQUIREMENTS ARE MET. (COPY ATTACHED)

EQUIPMENT CHECKLISTS

<u>ATTACHED FOR</u>	<u>ON FILE FOR</u>
---------------------	--------------------

G. DISCUSSION OF PROCEDURES FOR CONSTRUCTING THE WORK INCLUDING REPETITIVE DEFICIENCIES. DOCUMENT CONSTRUCTION TOLERANCES AND WORKMANSHIP STANDARDS FOR THIS PHASE OF WORK. DOCUMENT ALL DEVIATIONS FROM THE PLANS/SPECIFICATIONS.

H. ATTENDANCE ROSTER.

<u>NAME</u>	<u>POSITION</u>	<u>COMPANY</u>
-------------	-----------------	----------------

- 1.
- 2.
- 3.
- 4.
- 5.

INITIAL INSPECTION

Contract No.: \_\_\_\_\_ Date: \_\_\_\_\_

Description and Location of Work Inspection: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Applicable Contract Drawings: \_\_\_\_\_

\_\_\_\_\_

Definable Feature of Work: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

A. All construction materials used in this segment of work are the same that have been submitted and approved.

B. Verification of full contract compliance. Verify required control inspection and all testing requirements outlined in the contract plans, specifications, and technical references are being conducted.

-2-

C. Confirm level of workmanship and verify that it meets minimum acceptable workmanship standards. Compare with sample panels is appropriate. Confirm installation procedures are being followed as agreed upon during preparatory.

D. Confirm safety procedures to include compliance with an upgrading of the safety plan and activity hazard analysis.

E. ATTENDANCE ROSTER

<u>NAME</u>	<u>POSITION</u>	<u>COMPANY</u>
1.		
2.		
3.		
4.		
5.		

PIPING SYSTEM TEST REPORT

STRUCTURE OR BUILDING \_\_\_\_\_

CONTRACT NO. \_\_\_\_\_

DESCRIPTION OF SYSTEM OR PART OF SYSTEM TESTED: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DESCRIPTION OF TEST: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

NAME AND TITLE OF PERSON IN CHARGE OF PERFORMING TESTS FOR CONTRACTOR:

NAME \_\_\_\_\_

TITLE \_\_\_\_\_

SIGNATURE \_\_\_\_\_

I HEREBY CERTIFY THAT THE ABOVE DESCRIBED SYSTEM HAS BEEN TESTED AS INDICATED ABOVE AND FOUND TO BE ENTIRELY SATISFACTORY AS REQUIRED IN THE CONTRACT SPECIFICATIONS.

SIGNATURE OF INSPECTOR \_\_\_\_\_

DATE \_\_\_\_\_

REMARKS: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SECTION 01510

UTILITIES

1. AVAILABILITY AND USE OF UTILITY SERVICES (APR 1984). All utilities required to complete tests of equipment or systems installed under this contract will be furnished to the Contractor without charge if connections to utility lines are installed under the contract.

2. WATER FOR CONSTRUCTION PURPOSES. The Government will furnish to the Contractor all water for construction purposes at no charge to the Contractor. The Contractor shall install and maintain necessary supply connections and piping for same, but only at such locations and in such manner as may be approved by the Contracting Officer. All water shall be carefully conserved. Before final acceptance, temporary connections and piping installed by the Contractor shall be removed in a manner satisfactory to the Contracting Officer.

3. ELECTRIC POWER. The Government will furnish electricity to the Contractor at no charge. The Contractor shall furnish, at his own expense, all backup power supply, temporary electric power lines and equipment required under this contract. All temporary electrical installations shall be subject to the approval of the Contracting Officer. All temporary lines shall be furnished, installed, connected, and maintained by the Contractor in a workmanlike manner satisfactory to the Contracting Officer and shall be removed by the Contractor in like manner at his expense prior to final acceptance of the construction. If additional electrical power is required for construction the Contractor shall provide the power using his own generators. The Contractor shall provide adequate protection for his equipment so that Contractor electrical equipment faults will not adversely affect the site electrical system or the utility system.

3.1 Temporary Electric Wiring:

3.1.1 Temporary Power and Lighting:

The Contractor shall provide construction power facilities in accordance with the safety requirements of the National Electrical Code NFPA No. 70 and the SAFETY AND HEALTH REQUIREMENTS MANUAL EM 385-1-1. The Contractor, or his delegated subcontractor, shall enforce all the safety requirements of electrical extensions for the work of all subcontractors. All work shall be accomplished by skilled electrical tradesmen in a workmanlike manner, as approved by the Contracting Officer.

3.1.2 Construction Equipment:

In addition to the requirements of EM 385-1-1, SAFETY AND HEALTH REQUIREMENTS MANUAL, all temporary wiring conductors installed for operation of construction tools and equipment shall be either Type TW or THW contained in metal raceways, or may be multiconductor cord. Temporary wiring shall be secured above the ground or floor in a workmanlike manner and shall not present a

obstacle to persons or equipment. Open wiring may only be used outside of buildings, and then only in strict accordance with the provisions of the National Electrical Code.

### 3.2 UTILITIES NOT SHOWN:

If the Contractor encounters, within the construction limits of the entire project, utilities not shown on the plans and not visible as to the date of this contract and such utilities will interfere with construction operations, he shall immediately notify the Contracting Officer in writing to enable a determination by the Contracting Officer as to the necessity for removal or relocation. If such utilities are removed or relocated as directed by the Contracting Officer, the Contractor shall be entitled to equitable adjustment for any additional pertinent work or delay.

### 3.3 PLANNED UTILITY OUTAGES AND STREET CLOSURES:

All utility outages and street closures shall be of as short a duration as possible and shall be scheduled as far in advance as possible with the Contracting Officer, in no case less than 7 days before the outage or closure. The Contractor shall obtain in writing from the Contracting Officer a statement or schedule giving the permissible times of outages or closures for particular installations and the maximum time allowed for each. The Contractor shall strictly observe such schedules and will be held responsible for any violations.

#### 3.3.1 Street Closure:

The Contractor shall obtain approval in writing from the Contracting Officer before he can close any street or parking lot access. The request for closure shall be submitted in writing to the Contracting Officer 7 working days prior to planned closing and shall include the section to be closed and length of time of closure.

4. WASTE MATERIAL. Unless otherwise specified, waste material shall be disposed of by the Contractor at a licensed off site sanitary landfill or sewage disposal plant. Permission to use the off-site sanitary landfill or sewage disposal plant shall be obtained by the Contractor and any costs attendant thereto shall be borne by the Contractor.

5. TEMPORARY TELEPHONE SERVICE. The Contractor is required to determine line availability and to make arrangements for installation of telephone lines and instruments with the telephone company. All costs associated with telephone installation and service shall be the responsibility of the Contractor.

6. SEWAGE DISPOSAL FOR TEMPORARY FACILITIES. A sewage disposal location is not available at the site for use under this contract.

7. INTERRUPTION OF EXISTING UTILITIES SERVICES. The Contractor shall perform the work under this contract with a minimum of outage time for all utilities. Interruption shall be by approved Sections of the utility. In some cases, the Contractor may be required to perform the work while the existing utility is in service. The existing utilities services may be interrupted only when approved by the Contracting Officer. When it is necessary to interrupt the existing

utilities, the Contractor shall notify the Contracting Officer in writing at least 14 calendar days in advance of the time the Contractor desires the existing service to be interrupted. The interruption time shall be kept to a minimum. Depending upon the activities at the facility which require continuous service from the existing utility, an interruption may not be subject to schedule at the time desired by the Contractor. In such cases the interruption may have to be scheduled at a time of minimum requirement of demand for the utility. The amount of time requested by the Contractor for interruption of existing utility service shall be as approved by the Contracting Officer.

8. REQUIREMENTS CONCERNING EXISTING UNDERGROUND UTILITIES. The drawings indicate known, existing, underground utilities which are located in areas requiring work under this contract. The locations shown are approximate and the depths are not indicated. The Contractor shall contact the utility companies or agencies which furnish utilities in the area where the project is located to determine if there are other known, new, or suspected additional underground utilities in the work areas other than those shown on the drawings. Prior to commencement of any excavation in areas where there are known utilities, it shall be the responsibility of the Contractor to contact the owner of each known utility and request that the owner mark the location of the utility and also obtain information as to the depth of the utility. The Contractor shall submit proof to the Contracting Officer that the Contractor has contacted the owners of known utilities and has obtained the location, including depth below grade, for such utilities. The Contractor shall protect all existing utilities in accordance with the Contract Clause entitled, PROTECTION OF EXISTING VEGETATION, EQUIPMENT, STRUCTURES, UTILITIES, AND IMPROVEMENTS. In addition, the Contractor shall take all the necessary precautions to prevent harm to personnel and damage to equipment and existing construction from utilities which conduct electricity or transmit combustible gases.

-- End of Section --

SECTION 01540

SECURITY

1. GENERAL REQUIREMENTS.

1.1 General: The Contractor and all employees as well as subcontractors, suppliers and their employees, shall abide by the current rules and regulations of the Immigration and Naturalization Service. Anyone found to be in violation of such rules and regulations may be removed and barred from further entry. Prior to construction the Contractor shall provide all required personnel information on employees involved in construction at the facility.

1.1.1 The Immigration and Naturalization Service existing facility and its perimeter area will be patrolled by security guards at all times during construction activities. All vehicles entering or leaving the existing facility and its perimeter areas shall be subject to inspection and search by security personnel.

1.2 Contractor Use of Site and Premises.

1.2.1 Access to Site: Security of the existing facility must be maintained at all times. Access to areas within the security perimeter fence will be limited, and will require coordination with security guards.

1.2.2 No tools or materials which may be fashioned into weapons shall be left unattended in the secure area.

1.3 Security Enclosure and Lockup: The Contractor shall maintain the existing security fencing at the construction site and contractor staging area. The Contractor shall provide locking entrances to prevent unauthorized entrance, vandalism, theft and similar violations of security.

1.3.1 Storage: Where materials and equipment are stored, and of value or attractive for theft, provide a secure lockup. Enforce discipline in the transport, and/or installation, of construction and waste materials, tools and equipment, to minimize the opportunity for theft and vandalism.

2. SUBMITTALS. The Contractor shall submit for approval a plan addressing implementation of the security requirements specified herein. The security plan shall be submitted and approved prior to starting work on the site. The plan may be a part of the Quality Control Plan as specified in the Section, CONTRACTOR QUALITY CONTROL, or may be submitted separately. The plan shall address all of the constraints specified in the GENERAL REQUIREMENTS paragraphs above.

-- End of Section --

SECTION 01590

OFFICE FACILITY

1. GENERAL. The Contractor shall provide, for the exclusive use of the Contracting Officer and/or his representative, a temporary, weatherproof office facility with a minimum 8 foot eave height. The building shall be located on site, in an area approved by the Contracting Officer. All facilities, furnishings, materials, and equipment shall be new or like new when furnished on site.

1.1 Building. The Contractor shall provide an office facility with a minimum of 450 square feet of floor space. The facility shall be divided into two separate rooms, one of which shall be large enough to be used as a conference or meeting room. The facility shall be equipped with potable, chilled drinking water, electric power, adequate lighting, air conditioning and heating equipment, and partitioned enclosed toilet facilities, minimum of one male and one female. Locks, keyed alike, shall be provided for exterior doors. Telephone service is required.

1.2 Furniture. The Contractor shall provide furniture including the following:

- (1) 1 drafting table with stool.
- (2) 2 desks with one revolving chair for each desk.
- (3) 1 conference table, 3' x 6' minimum.
- (4) 4 straight back chairs.
- (5) 2 bookcases.
- (6) 3 legal size file cabinets with four drawers.
- (7) 1 computer desk with chair.
- (8) 1 plan rack.
- (9) 2 telephone services; should be commercial and Autovon capable.

Note: Used furniture, in good condition, may be acceptable if approved by the Contracting Officer.

1.3 Janitorial Services. The Contractor shall furnish one laborer, once weekly, for janitorial services for cleaning the office building and performing normal maintenance of facilities and grounds as deemed necessary by the Contracting Officer during the entire life of the contract. Services shall be performed at such a time and in such a manner to least interfere with the operations but shall be accomplished during normal working hours. The Contractor shall provide bi-weekly trash collection. When deemed necessary by the Contracting Officer, the Contractor shall remove snow from the grounds of the office facility. Services shall be accomplished to the satisfaction of the

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Contracting Officer.

1.4 Roads. An all-weather road shall be shaped and maintained for access to the office facility from the nearest existing access road.

2. APPROVAL OF BUILDING. Approval of the adequacy of the building shall be obtained from the Contracting Officer prior to the construction of the building.

3. OPTION. At the option of the Contractor, a portable-type building approved by the Contracting Officer may be used.

4. MAINTENANCE AND REMOVAL. The building, including all furniture, utilities and facilities, shall be maintained in good repair by the Contractor during the life of this contract. After completion of work under this contract, all facilities shall be removed from the site by the Contractor.

- - End of Section - -

SECTION 01720

AS-BUILT DRAWINGS

1. SCOPE: This section covers as-built drawings, complete.
2. AS-BUILT DRAWINGS:

2.1 General: The Contractor shall provide one full-size set of blue-line or blackline prints and one full-size set of CADD generated reproducible drawings for use in preparation of as-built drawings. The as-built drawings shall be a record of the construction as installed and completed by the Contractor. All changes, variations and/or required additions to the contract drawings shall be clearly depicted utilizing a red color that contrasts with the blue-line, blackline prints and reproducible drawings. All prints shall exhibit good readable quality with clear, sharp, dark lines, and shall not be smeared, faded, double imaged, or have torn, ragged edges. In event the Contractor accomplishes additional work which changes the as-built conditions of the facility after submission of the as-built drawings, the Contractor shall furnish revised and/or additional drawings as required to depict as-built conditions. The requirements for these additional drawings will be the same as for the as-built drawings included in the original submission.

2.2 Preliminary As-Built Drawings: The Contractor shall mark up one set of paper prints and an identical markup on the reproducible to show the as-built conditions. These as-built marked prints shall be kept current and available on the jobsite at all times. Subject to the approval of the Contracting Officer, a member of the Contractor's Quality Control Organization shall be assigned sole responsibility for the maintenance and currency of preliminary as-built drawings. Any reassignment of duties concerning the maintenance of the as-built drawings shall be promptly reported to the Contracting Officer. All changes from the contract plans which are made in the work or additional information which might be uncovered in the course of construction shall be accurately and neatly recorded as they occur by means of details and notes. The as-built marked prints will be jointly inspected for accuracy and completeness by the Contracting Officer's representative and the assigned representative of the Contractor's Quality Control Organization prior to submission of each monthly pay estimate. The as-built drawings shall show the following information, but not be limited thereto.

2.2.1 The location and description of any utility lines or other installations of any kind or description known to exist within the construction area. The location of exterior utilities includes actual measured horizontal distances from utilities to permanent facilities/features. These measurements shall be within an accuracy range of six inches and shall be shown at sufficient points to permit easy location of utilities for future maintenance purposes. Measurements shall be shown for all change of direction points and all surface or underground components such as valves, manholes, drop inlets, clean outs, meter, etc. The general depth range of each underground utility line shall be shown (i.e., 3' to 4' depth). The description of exterior utilities includes the actual quantity, size, and material of utility lines.

2.2.2 The location and dimensions or any changes within the building or

structure.

2.2.3 Correct grade or alinement of roads, structures or utilities if any changes were made from contract plans.

2.2.4 Correct elevations if changes were made in site grading.

2.2.5 Changes in details of design or additional information obtained from working drawings specified to be prepared and/or furnished by the Contractor including but not limited to fabrication, erection, installation plans and placing details, pipe sizes, insulation material, dimensions of equipment foundations, etc.

2.2.6 The topography and grades of all drainage installed or affected as a part of the project construction.

2.2.7 Options: Where contract drawings or specifications allow options, only the option selected for construction shall be shown on the as-built drawings.

2.2.8 As part of the prefinal inspection, the preliminary as-built drawings will be reviewed. They must comply with this specification prior to scheduling the final inspection, and/or prior to substantial completion of the project.

2.2.9 Submittal to Contracting Officer for Review and Approval: One copy of the preliminary as-built marked prints and one copy of the preliminary as-built reproducibles shall be delivered to the Contracting Officer before the time of final inspection for his review and approval. Final inspection will not be scheduled by the Contracting Officer until preliminary as-built drawings have been approved. The review by Government personnel will be expedited to the maximum extent possible. Upon approval, one copy of the as-built marked prints will be returned to the Contractor for use in preparation of final as-built drawings. If upon review, the drawings are found to contain errors and/or omissions, they shall be returned to the Contractor for corrections. The Contractor shall complete the corrections and return the drawings to the Contracting Officer within ten (10) calendar days.

2.2.9.1 Withholding for Preliminary As-Built: Failure by the Contractor to maintain current and satisfactory as-built drawings in accordance with these requirements will result in withholding from progress payments an amount equal to the value of the subject as-built drawings. The Contracting Officer will indicate an unearned balance on monthly payment estimates in accordance with the above, until the Contractor has fulfilled the contract requirements.

2.3 Final As-Built Drawings: The contract drawings were produced using Computer-Aided Drafting (CAD). The CAD software to be used by the Contractor for preparing the as-built drawings shall be AutoCAD, Release 12 by Autodesk Inc. The Contractor will be furnished 5-1/4 or 3-1/2 inch diskettes containing the AutoCAD drawing files to be revised with the as-built drawings.

2.3.1 The Government will scan the diskettes for virus infections, and examine the drawing files for integrity before delivery to the Contractor. Upon receipt of the drawing files, the Contractor shall verify that the drawing files can be brought up using AutoCAD, and shall certify this to the Contracting Officer. Any drawing files that appear to be corrupt or otherwise unusable shall be identified

immediately and returned to the Contracting Officer for replacement.

2.3.2 The Contractor shall revise the CAD drawings to reflect the as-built changes to match the approved marked set of blue-line prints. Some of the drawing changes, amendments prior to receipt of proposals, and changes resulting from contract modification may have been added to the original mylars by hand drafting. The Contractor shall revise the CAD drawing to reflect the amendment/contract changes, in addition to all other as-built changes.

2.3.3 The Contractor shall certify that the media (diskettes) containing the as-built drawing files have been scanned for known computer viruses before delivery to the Government. The name(s) and release date(s) of the virus scanning software used to analyze the delivered diskettes shall be furnished to the Contracting Officer at the time of delivery. The release or revision date of the virus scanning software used shall be no older than ninety (90) days in age at the time of delivery of the media. If analysis of the delivered media by the Government finds evidence of virus infection, the media will be returned to the Contractor. The Contractor shall re-submit virus-free media at no cost to the Government.

2.3.4 Plotting: Each changed diskette shall be plotted on mylar and the diskette and the plot shall be returned to the Contracting Officer.

2.3.5 Drafting: Only personnel proficient in the preparation of engineering drawings shall be employed to modify the original contract drawings or prepare additional new drawings. All additions and corrections to the contract drawings shall match the adjacent existing linework and/or lettering being annotated in type, density, size, and style. All modifications and new drawings shall, in addition to the above, conform to applicable requirements of the Architect - Engineer Instruction Manual (AEIM), Chapter I - Drafting, and available from the Area or Resident Engineer's Office. The Contracting Officer will review all as-built drawings for accuracy and conformance to the above specified drafting standards. The Contractor will make all corrections, changes, additions, and deletions to meet these standards.

2.3.5.1 When final revisions have been completed, each drawing shall be lettered with the words "DRAWING OF WORK AS BUILT" in letters at least 3/16 " high placed below the title block between the border and the trim line. The date of completion and the words "REVISED AS-BUILT" shall be placed in the revision block above the latest existing revision notation.

2.3.5.2 Title Blocks: The title block to be used for any new as-built drawings shall be similar to that used on the original drawings.

2.4 Submittal Requirements: After receipt of the approved as-built preliminary drawings, the Contractor shall submit to the Contracting Officer the following:

- a. The 5-1/4 or 3-1/2 inch revised diskette.
- b. One set of CADD generated reproducible mylars produced from the revised diskette.
- c. The approved marked set of blue-line or blackline prints.

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All of the above shall become the property of the Government upon final approval and shall be complete in all details.

2.5 Final As-Built Drawings.

a. The Contractor shall commence work on final as-built drawings upon his receipt of the approved preliminary as-built drawings. The Contractor shall have the number of calendar days specified in the Special clause, COMMENCEMENT, PROSECUTION AND COMPLETION OF WORK, to complete and return to the Contracting Officer all specified final as-built drawing work.

b. Failure by the Contractor to maintain current and satisfactory as-built drawings in accordance with these requirements will result in withholding from progress payments an amount equal to the value of the subject as-built drawings. The Contracting Officer will indicate an unearned balance on monthly payment estimates in accordance with the above, until the Contractor has fulfilled the contract requirements.

-- End of Section --

SECTION 01730

OPERATION AND MAINTENANCE INSTRUCTIONS

1. OPERATION AND MAINTENANCE INSTRUCTIONS, SPARE PARTS LISTS, SPARE PARTS , SPECIAL TOOLS, INVENTORIES OF INSTALLED PROPERTIES AND TRAINING OF OPERATION AND SERVICE PERSONNEL (SWDCO-C Ltr, dated 20 March 1986; Revised 18 April 1986.) . The Contractor shall be responsible for the preparation, coordination, execution and submittal of all operation and maintenance instructions, training of operating and service personnel, spare parts lists, special tools and inventories of equipment. Manuals and maintenance instructions shall be for all system installations provided in this contract and shall be in sufficient detail to facilitate normal maintenance and troubleshooting by persons with minimum experience with the installed equipment. These O & M manuals will be consolidated by division of the technical specifications, (i.e. 15000, mechanical systems). Contents are indexed, and suitably cross-referenced to and between various volumes. The manuals must be divided into chapters for each major system and subdivided into the proper chapters as necessary to promote readability. Bound set covers are labeled with the system name; building number; contractor's name; and the contract number of the project. All copies will be forwarded to the Resident Office for review and approval.

1.1 All training sessions for operations and service personnel shall be video taped, and the original video tape with two copies shall be submitted to the Contracting Officer.

1.2 All of the above listed items required in the Special Clauses and Technical Provisions of these specifications shall be submitted to the Contracting Officer not less than 60 days prior to the scheduled contract completion date or the check out and/or testing of equipment and/or system. Failure to do so will result in a 10% retainage of the current progress payment. Four copies of these documents shall be submitted unless a greater number is required by the Technical Provisions. If a lesser number is specified, four shall be submitted. Approved operation and maintenance instructions shall be provided 30 days prior to scheduling training of operating and service personnel. The Contractor shall coordinate the content of each instruction period required in the Technical Provisions of these specifications with the Contracting Officer's representative prior to the actual start of the training period.

1.3 A separate Bid Item entitled "Operation and Maintenance Manuals" has been placed in the Bid Schedule for the above listed items. The amount of this Bid Item has been established by the Contracting Officer and entered into the Bid Schedule. This Bid Item becomes a part of the overall Contractor's bid, but payment of the amount shown shall be withheld until all the above listed items have been received and approved. On those systems where complete and comprehensive operation and maintenance instructions cannot be fully developed until the system is checked, tested, and/or balanced, a proposed draft shall be submitted within the above specified time. The fully developed and completed package shall be submitted not more than 30 days after the system has been checked, tested and/or balanced. Upon approval of the above listed items the funds being withheld under this item "Operation and Maintenance Manuals" shall be returned to the Contractor. Failure to submit all specified operation and maintenance manuals, spare parts listings, spare parts, special tools and

inventories of installed property in a timely manner shall be cause for withholding of payment and for delaying substantial completion of the work. Commencement of warranty under the specification section entitled "WARRANTY OF CONSTRUCTION", will not occur until all these items are delivered and approved by the Contracting Officer.

1.4 The Government may take possession of any completed or partially completed work, as provided for under Contract Clause entitled "USE AND POSSESSION PRIOR TO COMPLETION". If the installed equipment and/or systems thereto have not been accepted by the Government due to the Contractor's failure to submit the above specified items, the Contractor shall operate and maintain such plant or system at no additional cost to the Government until such time that the specified items have been received, approved and any subsequent testing, check-out and/or training has been completed.

1.5 Inventory of Installed Property. A list of equipment or units of equipment that require electrical power or fuel, or may require removal or replacement such as AHUs, fans, air conditioners, compressors, condensers, boiler, thermal exchangers, pumps, cooling towers, tanks, fire hydrants, sinks, water closets, lavatories, urinals, shower stalls, and any other large plumbing fixtures, light fixtures, etc., shall be made and kept up to date as installed. The list shall be reviewed periodically by the Government to insure completeness and accuracy. Partial payment will be withheld for equipment not incorporated in the list. List shall include on each item as applicable: Description, manufacturer, model or catalog number, serial number, input (power, voltage, BTU, etc.), output (power, voltage, BTU, tons, etc.), size or capacity (tanks), and net inventory costs; any other data necessary to describe item. Final list shall be turned over to the Authorized Representative of the Contracting Officer two weeks prior to prefinal inspection.

- - End of Section - -

SECTION 01740

WARRANTY OF CONSTRUCTION

1. WARRANTY OF CONSTRUCTION (FAR 52.246-21) (APR 1984).

1.2 In addition to any other warranties in this contract, the Contractor warrants, except as provided in paragraph 1.11 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.

1.3 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.

1.4 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-

1.4.1 The Contractor's failure to conform to contract requirements; or

1.4.2 Any defect of equipment, material, workmanship, or design furnished.

1.5 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.

1.6 The Contracting Officer shall notify the Contractor, in writing, within a reasonable time after the discovery of any failure, defect, or damage.

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

1.8 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-

1.8.1 Obtain all warranties that would be given in normal commercial practice;

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

1.8.3 Enforce all warranties for the benefit of the Government, if directed by the Contracting Officer.

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

1.10 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.

1.11 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.

1.12 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.

2. PRE-WARRANTY CONFERENCE. Prior to contract completion and at a time designated by the Contracting Officer or his representative, the Contractor shall meet with the Contracting Officer to develop a mutual understanding with respect to the requirements specified herein. The Contracting Officer shall establish communication procedures for oral notification to the Contractor of warranty defects; establish reasonable time for Contractor responses; and other details deemed necessary by the Contracting Officer for the execution of the construction warranty. In connection with these requirements the Contractor will furnish the name, telephone number and address of representatives authorized to perform warranty repairs. If the Contractor is located outside the local service area, the name, telephone number and address of a licensed and bonded company which is authorized to initiate and maintain warranty work action on behalf of the Contractor shall be furnished. This point of contact will be located within the local service area of the warranty work and shall be an established company capable of performing the type of work under the warranty item. At this conference, the Contracting Officer shall furnish names and telephone numbers of the personnel authorized to notify the Contractor or his designated representative of any failure, defect or damage, and to request warranty repair work.

3. WARRANTY REPAIRS. Warranty repair work which threatens the health, safety, or well-being of personnel or the safety of property and/or equipment will be handled by the Contractor on an immediate basis as orally directed by the Contracting Officer or authorized representative, as established in subparagraph, Pre-Warranty Conference, above. Such items requiring immediate attention shall include but not be limited to: air conditioning, heating, and ventilating systems; sewage disposal facilities or components thereto; fire protection systems; water supply system or components thereto; and electrical power systems. Other warranty repair which does not threaten the health, safety, or well-being of personnel and/or safety of property or equipment will be handled by the Contractor within seventy two hours or the time frame established during the pre-warranty conference. Failure of the Contractor to respond as requested will be cause for the Contracting Officer to have the warranty repair work performed by others and proceed against the Contractor in accordance with paragraph 1.7. Any work required to correct a warranty item accomplished by the Government shall not void the warranty of the item. (SWD letter, dated 18 July 1988).

-- End of Section --