

NOTICE:

Bids to be opened at 2:00 P.M.  
at the  
office of  
Officer in Charge Of Construction  
Jacksonville, North Carolina Area  
Building 1005, Marine Corps Base  
Camp Lejeune, North Carolina 28542

CONTRACT N62470-88-B-3685

NAVFAC SPECIFICATION  
NO. 05-88-3685

*Adv 1-27*  
*Susp - 2-4*  
*open - 2-10*

RENOVATE FILTER BEDS, BLDG 670

at the

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA

SPECIFICATION PREPARED BY:

V. Marshburn, P.E.  
Date: 17 November 1987

CONTENTS

*Gen*  
*Did not*  
*need permit*  
*need as built*  
CONTRACT CLAUSES

DIVISION:

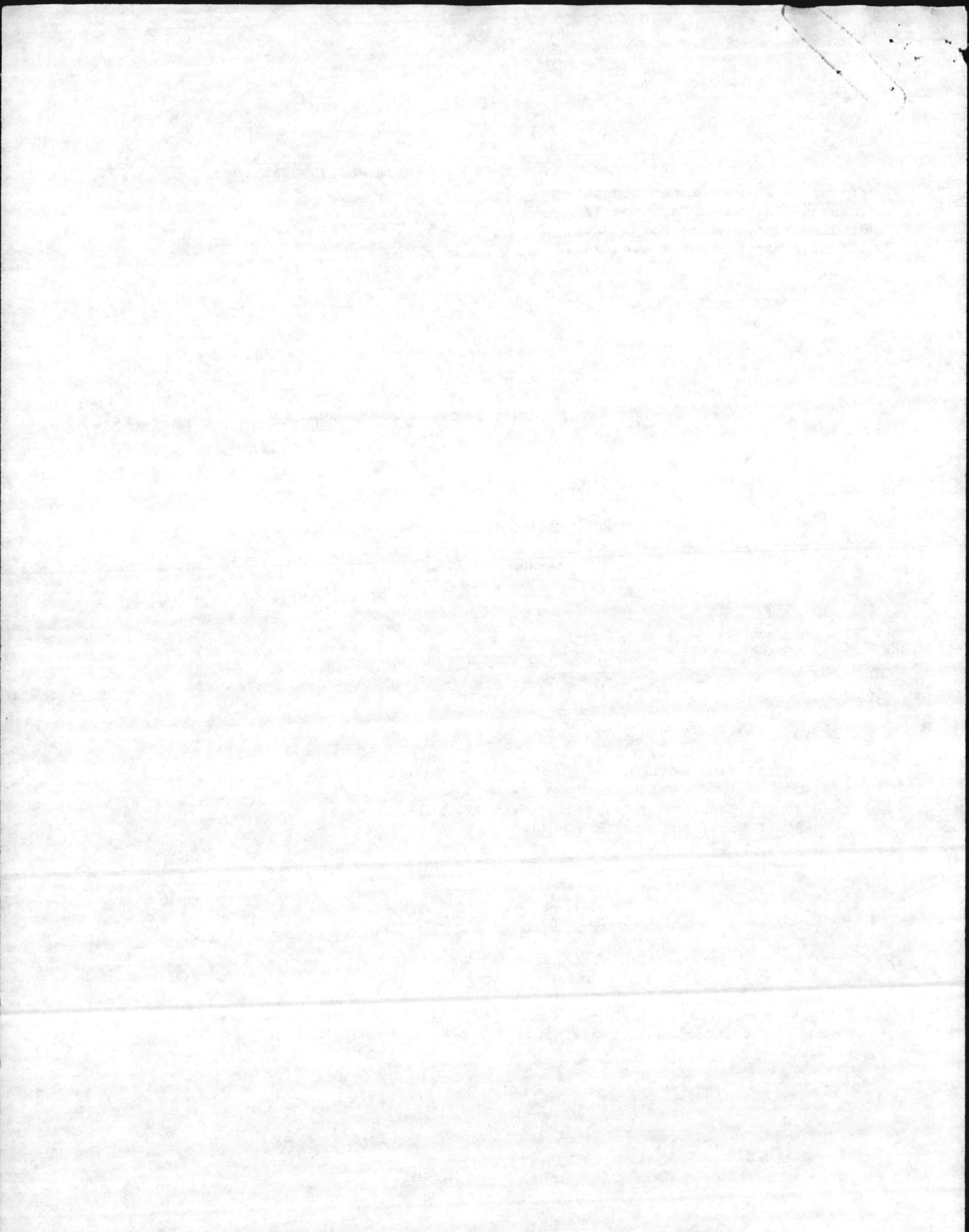
1. GENERAL REQUIREMENTS
2. DETAILED REQUIREMENTS  
SECTION  
01401. Contractor Inspection System  
01560.1 Environmental Protection  
13522. Filter Media

SPECIFICATION APPROVED BY:

F. E. Cone, P.E., Director,  
Design Branch, Public Works Division

T. L. Huguelet, Commander, CEC, U. S. Navy  
for Commander, Naval Facilities Engineering Command

05-88-3685

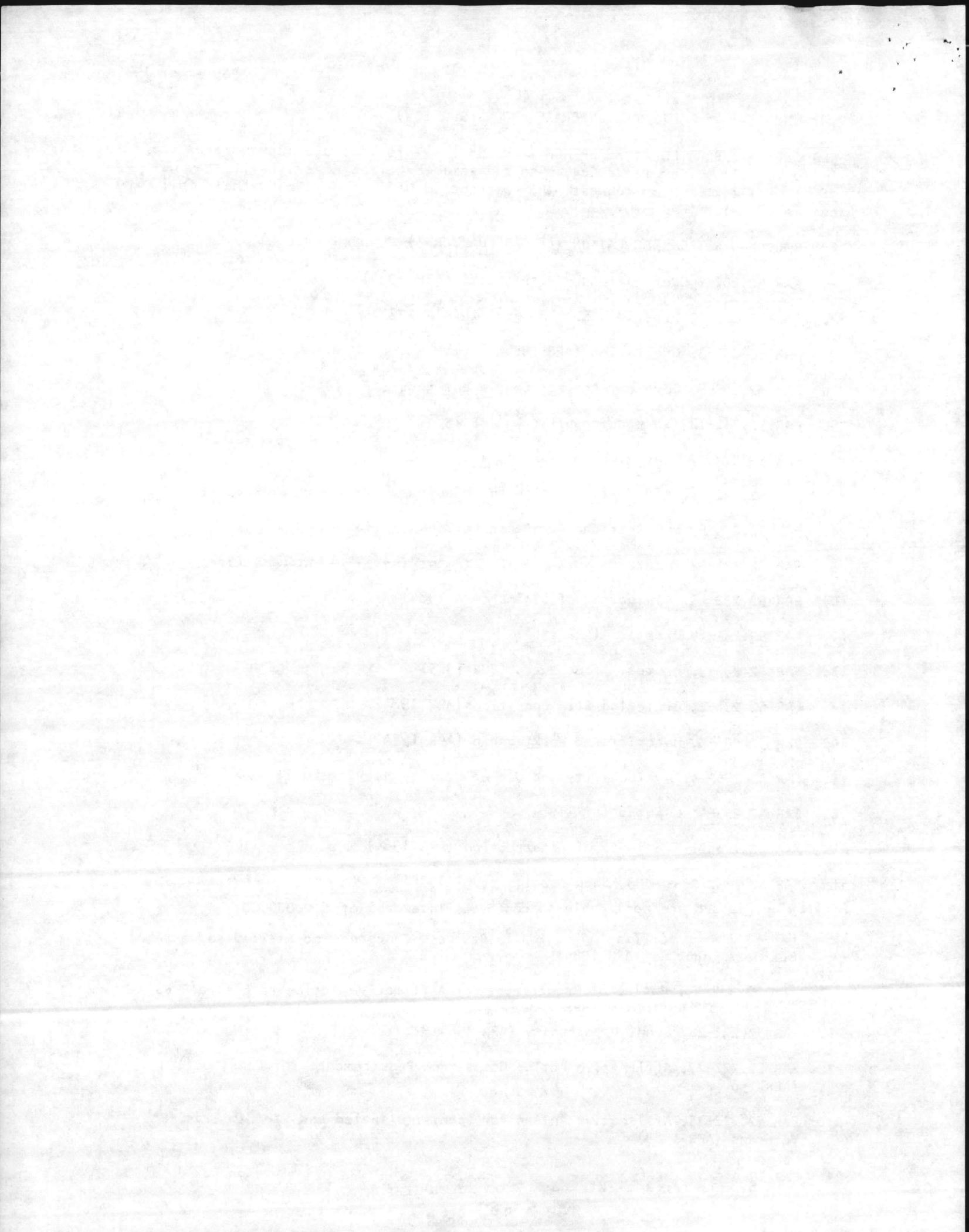


CONTRACT CLAUSES  
(SMALL PURCHASE - CONSTRUCTION)

CLAUSES INCORPORATED BY REFERENCE (APR 1984). This contract incorporates the following clauses by reference, with the same force and effect as if they were given full text. Upon request, the Contracting Officer will make their full text available. (FAR 52.252-2)

FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 1) CLAUSES

1. FAR 52.202-1, Definitions - Alternate 1 (APR 1984)
  2. FAR 52.203-1, Officials Not to Benefit (APR 1984)
  3. FAR 52.203-3, Gratuities (APR 1984)
  4. FAR 52.203-5, Covenant Against Contingent Fees (APR 1984)
  5. FAR 52.212-12, Suspension of Work (APR 1984)
  6. FAR 52.222-3, Convict Labor (APR 1984)
  7. FAR 52.222-36, Affirmative Action for Handicapped Workers (APR 1984)
  8. FAR 52.225-5, Buy American Act-Construction Materials (APR 1984)
  9. FAR 52.228-5, Insurance-Work on A Government Installation (APR 1984)
  10. FAR 52.232-23, Assignment of Claims (APR 1984)
  11. FAR 52.233-1, Disputes (APR 1984)
  12. FAR 52.233-3, Protest After Award (JUN 1985)
  13. FAR 52.236-2, Differing Site Conditions (APR 1984)
  14. FAR 52.236-5, Material and Workmanship (APR 1984)
  15. FAR 52.236-14, Availability and Use of Utility Services (APR 1984)
  16. FAR 52.243-4, Changes (APR 1984)
  17. FAR 52.246-21, Warranty of Construction (APR 1984)
  18. FAR SUPP 52.236-7003, Shop Drawings (OCT 1976)
- (Following clauses are applicable to contracts in excess of \$10,000.00)
19. FAR 52.219-8, Utilization of Small Business Concerns and Small Disadvantaged Business Concerns (APR 1984)
  20. FAR 52.222-23, Notice of Requirement for Affirmative Action to Ensure Equal Employment Opportunity (APR 1984)
  21. FAR 52.222-26, Equal Opportunity (APR 1984)
  22. FAR 52.222-27, Affirmative Action Compliance Requirements for Construction (APR 1984)
  23. FAR 52.222-35, Affirmative Action for Special Disabled and Vietnam Era Veterans (APR 1984)
  24. FAR 52.229-2, North Carolina State and Local Sales and Use Tax (APR 84)
  25. FAR 52.203-72, Anti-Kickback Procedures (FEB 87)



DIVISION 1  
GENERAL REQUIREMENTS

1. GENERAL DESCRIPTION: The work includes replacement of filter sand with anthracite, chlorination of filters, and incidental related work.

2. COMMENCEMENT, PROSECUTION, AND COMPLETION OF WORK (APR 1984): The Contractor shall be required to (a) commence work under this contract within 10 calendar days, (b) prosecute the work diligently, and (c) complete the entire work ready for use within 60 calendar days after receiving the Award for work included in the Base Bid and within 90 calendar days after receiving the Award for work included in Option 1.

3. BASIS OF BID: The basis of bid shall be lump sum prices for the following items:

a. Base Bid: Price for the entire work, complete in accordance with the drawings and specifications, but excluding work described in Option No. 1.

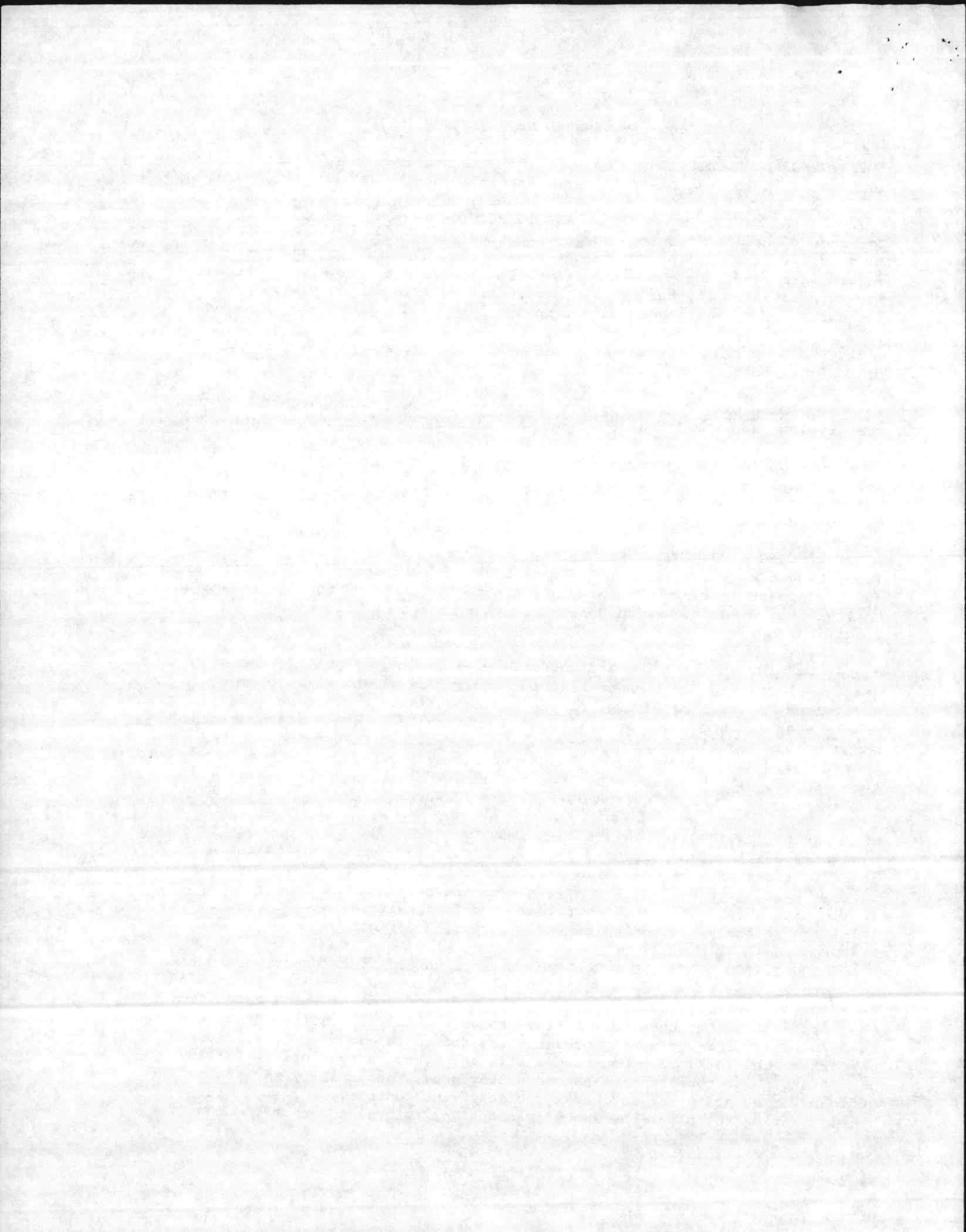
b. Option No. 1: Price for adding all work associated with filters 4 and 5, complete in accordance with the drawings and specifications. The Government reserves the right to accept Option No. 1 at any time up to 60 calendar days after the completion of work included in the base bid.

4. DRAWING ACCOMPANYING SPECIFICATION: Plate No. 1, "Partial Plan 2nd Floor Bldg 670" and Plate No. 2, "Site Location" accompany this specification and are a part thereof. The drawings are the property of the Government and shall not be used for any purpose other than that contemplated by the specification.

4.1 Drawing Verification and Control: The Contractor shall check all drawings furnished him immediately upon their receipt and shall promptly notify the Contracting Officer of any discrepancies. Figures marked on drawings shall in general be followed in preference to scale measurements. Large scale drawings shall in general govern small scale drawings. The Contractor shall compare all drawings and verify the figures before laying out the work and will be responsible for any errors which might have been avoided thereby.  
(FAR SUPP 52.236-7002 (c))

5. SPECIFICATIONS AND PRINTS FURNISHED TO CONTRACTOR: Six copies of the project specifications, and six sets of the drawings accompanying the specifications will be furnished the Contractor without charge. Additional sets of the specifications and drawings can be obtained, if required, by application to the Contracting Officer, provided that the need therefore is justified to the satisfaction of the Contracting Officer.

6. CONDITIONS AFFECTING THE WORK. Bidders should visit the site and take such other steps as may be reasonably necessary to ascertain the nature and location of the work, and the general and local conditions which can affect the work or the cost thereof. Failure to do so will not relieve bidders from responsibility for estimating properly the difficulty or cost of successfully performing the work. The Government will assume no responsibility for any understanding or representations concerning conditions made by any of its officers or agents prior to the execution of the contract, unless included in the invitation for bids, the specifications, or related documents.



7. EXPLANATION TO PROSPECTIVE BIDDERS (APR 1984). Any prospective bidder desiring an explanation or interpretation of the solicitation, drawings, specifications, etc., must request it in writing soon enough to allow a reply to reach all prospective bidders before the submission of their bids. Oral explanations or instructions given before the award of a contract will not be binding. Any information given a prospective bidder concerning a solicitation will be furnished promptly to all other prospective bidders as an amendment to the solicitation, if that information is necessary in submitting bids or if the lack of it would be prejudicial to other prospective bidders. (FAR 52.214-6)

8. AVAILABILITY OF SPECIFICATIONS LISTED IN THE DOD INDEX OF SPECIFICATION AND STANDARDS (DODISS) (APR 1984). Single copies of specifications cited in this solicitation may be obtained by submitting a written request to the supply point listed below. The request must contain the title of the specification, its number, date, applicable amendments, and the solicitation or contract number. In case of urgency, telephone or telegraphic requests are acceptable. Voluntary standards, which are not available to offerors and contractors from Government sources, may be obtained from the organization responsible for their preparation, maintenance, or publication. (FAR 52.210-2)

Commanding Officer  
 U.S. Naval Publication and Forms Center  
 5801 Tabor Avenue  
 Philadelphia, Pennsylvania 19120  
 Telex Number 834295  
 Western Union Number 710-670-1685  
 Telephone Number (215) 697-3321

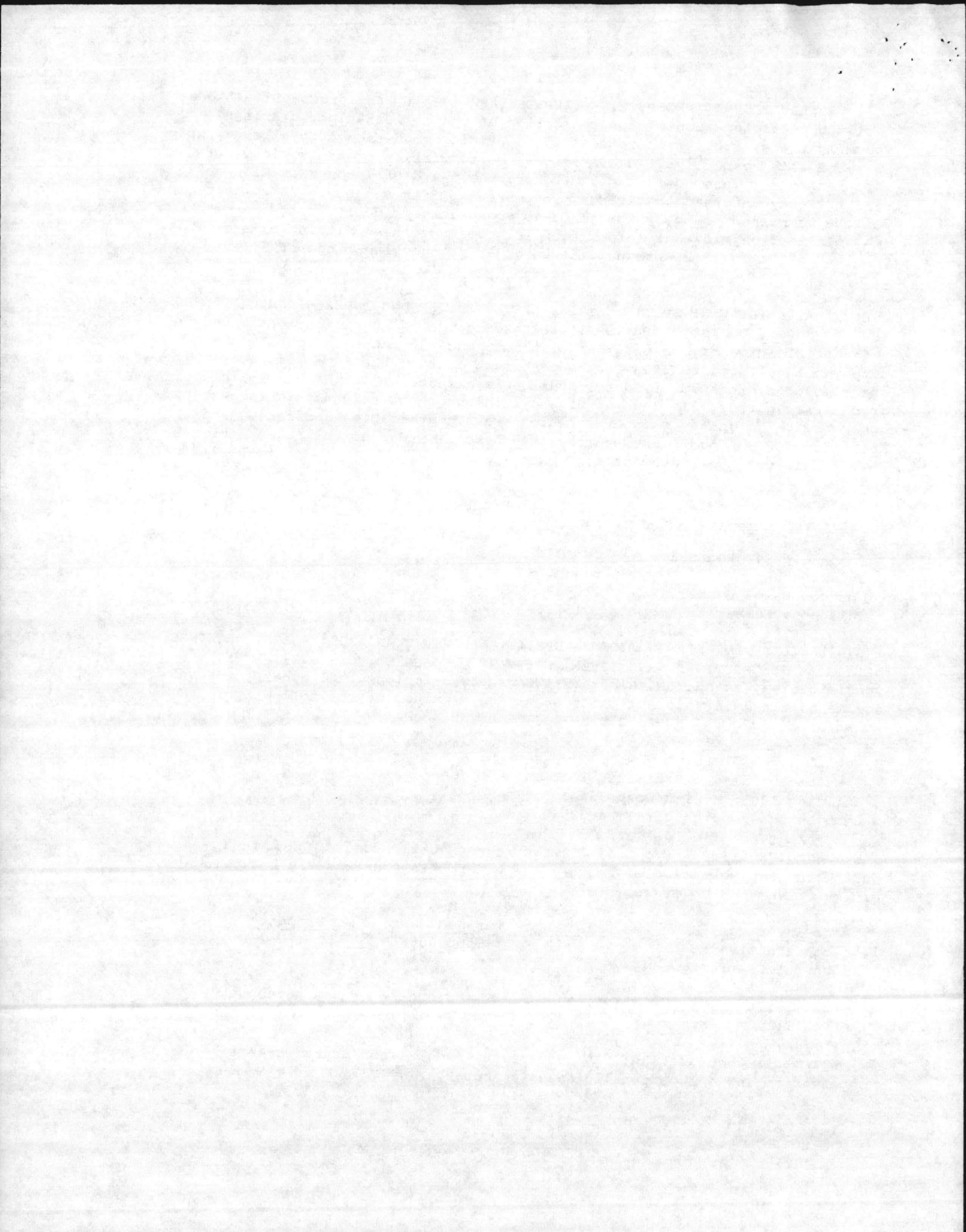
AVAILABILITY FOR EXAMINATION OF SPECIFICATIONS, STANDARDS, PLANS, DRAWINGS, DATA ITEM DESCRIPTIONS, AND OTHER PERTINENT DOCUMENTS (JUN 1977). The specification, standards, plans, drawings, descriptions, and other pertinent documents cited in this solicitation may be examined at the following locations: (DOD FAR SUPP 52.210-7003)

Public Works Division  
 Specifications and Estimates Section  
 Building 1005, Marine Corps Base  
 Camp Lejeune, North Carolina 28542

9. REQUIRED INSURANCE: (a) The Contractor shall procure and maintain during the entire period of performance under this contract the following minimum insurance coverage.

<u>Type of Insurance</u>	<u>Per Person</u>	<u>Per Accident</u>	<u>Property</u>
1. Comprehensive General Liability		\$500,000	
2. Automobile Liability	\$200,000	\$500,000	\$ 20,000

3. Workmen's Compensation: As required by Federal and State workers' compensation and occupational disease statutes.



4. Employer's liability coverage: \$100,000, except in states where workers' compensation may not be written by private carriers.

5. Other as required by state law.

(b) Prior to commencement of work, the Contractor shall furnish to the Contracting Officer a certificate or written statement of the above required insurance. The policies evidencing required insurance shall contain an endorsement to the effect that cancellation or any material change in the policies adversely affecting the interests of the Government in such insurance shall not be effective for such period as may be prescribed by the laws of the State in which this contract is to be performed and in no event less than thirty (30) days after written notice thereof to the Contracting Officer.

(c) The Contractor agrees to insert the substance of this clause, including this paragraph (c), in all subcontracts hereunder.

10. STATION REGULATIONS: The Contractor and his employees and subcontractor shall become familiar with and obey all Station Regulations, including fire, traffic, and security regulations. All personnel employed on the station shall keep within the limits of the work (and avenues of ingress and egress), and shall not enter any restricted areas unless required to do so and are cleared for such entry. The Contractor's equipment shall be conspicuously marked for identification.

11. ORDER OF WORK: The Contractor shall schedule his work as to cause the least amount of interference with Station operations. Work schedules shall be subject to the approval of the Officer in Charge of Construction. Work accomplished under the option will be limited to one filter at a time. All work in filter #4 will be completed and the filter on line for 48 hours prior to commencing work on filter #5.

12. WORK OUTSIDE REGULAR HOURS: If the Contractor desires to carry on work outside regular hours or on Saturdays, Sundays, or holidays, he shall submit an application to the Officer in Charge of Construction. The Contractor shall allow ample time to enable satisfactory arrangements to be made by the Government for inspecting the work in progress. At night, he shall light the different parts of the work in an approved manner. All utility cutovers shall be made after normal working hours or on weekends. Anticipated costs shall be included in the bid.

13. EXISTING WORK:

(a) The disassembling, disconnecting, cutting, removal or altering in any way of existing work shall be carried on in such a manner as to prevent injury or damage to all portions of existing work, whether they are to remain in place, re-used in the new work, or salvaged and stored.

(b) All portions of existing work which have been cut, damaged or altered in any way during construction operations shall be repaired or replaced in kind in an approved manner to match existing or adjoining work. All work of this nature shall be performed by the Contractor at his expense and shall be as directed. Existing work shall, at the completion of all operations, be left in a condition as good as existed before the new work started.



14. EQUITABLE ADJUSTMENTS: WAIVER AND RELEASE OF CLAIMS:

(a) Whenever the Contractor submits a claim for equitable adjustment under any clause of this contract which provides for equitable adjustment of the contract, such claim shall include all types of adjustments in the total amounts to which the clause entitles the Contractor, including, but not limited to, adjustments arising out of delays or disruptions or both caused by such change. Except as the parties may otherwise expressly agree, the Contractor shall be deemed to have waived (i) any adjustments to which it otherwise might be entitled under the clause where such claim fails to request such adjustments, and (ii) any increase in the amount of equitable adjustments additional to those requested in its claim.

(b) The Contractor agrees that, if required by the Contracting Officer, he will execute a release, in form and substance satisfactory to the Contracting Officer, as part of the supplemental agreement setting forth the aforesaid equitable adjustment. The Contractor further agrees that such release shall discharge the Government, its officers, agents and employees, from any further claims, including, but not limited to, further claims arising out of delays or disruptions or both caused by the aforesaid change.

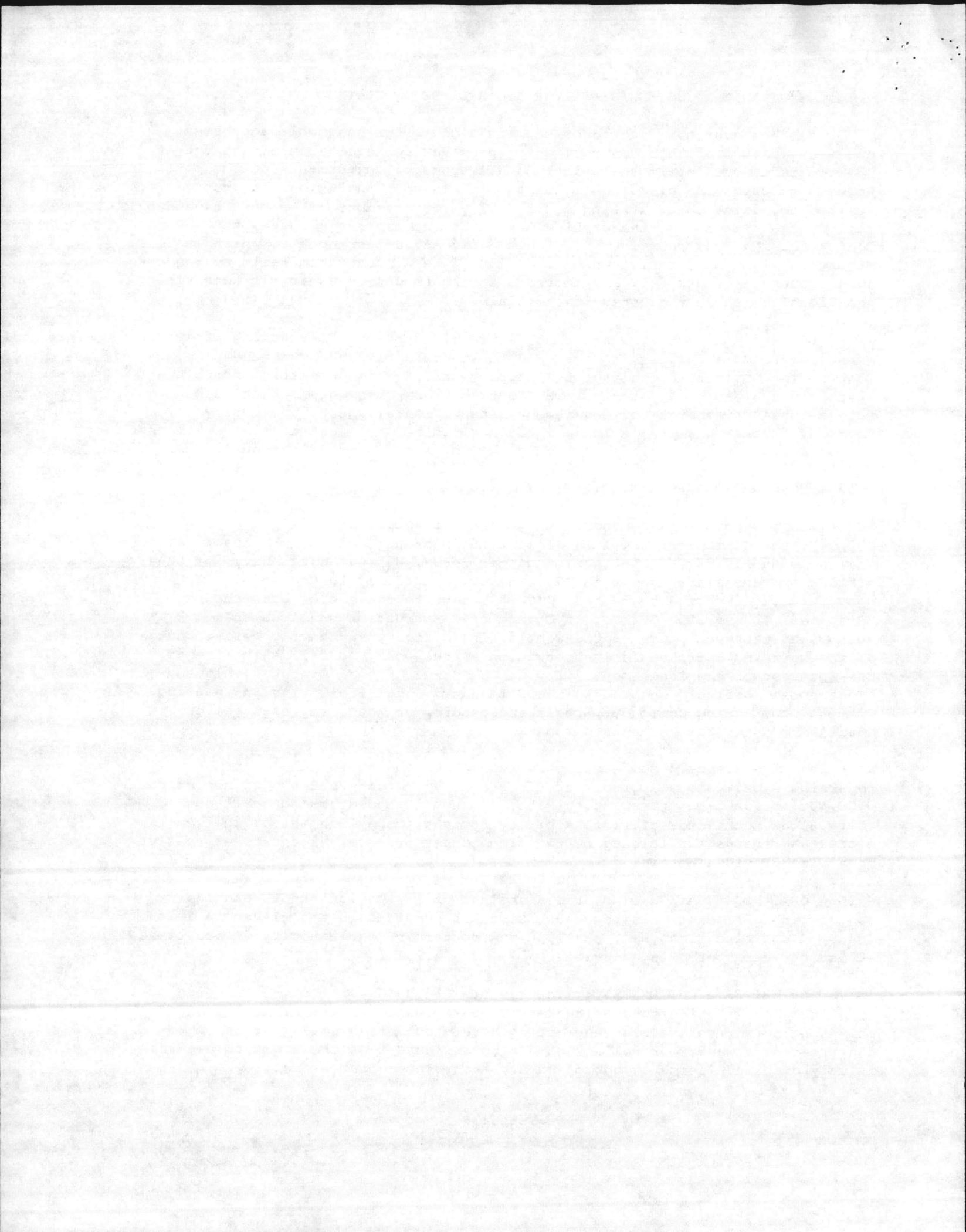
15. GOVERNMENT REPRESENTATIVES:

(a) The work will be under the general direction of the Contracting Officer, the Commander, Naval Facilities Engineering Command, who shall designate an officer of the Civil Engineer Corps, United States Navy, or other officer or representative of the Government, as Officer in Charge of Construction, referred to as the "OICC." Except in connection with the "Disputes" clause, the Officer in Charge of Construction shall be the authorized representative of the Contracting Officer, and have complete charge of the work and exercise full supervision of the work, so far as it affects the interest of the Government. For the purposes of the "Disputes" clause, "Contracting Officer" shall mean the Commander, Naval Facilities Engineering Command, the Acting Commander, their successors, or their representatives specially designated for this purpose.

(b) The provisions of this paragraph or elsewhere in this contract regarding supervision, approval or direction by the Contracting Officer or the OICC, or action taken pursuant thereto, are not intended to and shall not relieve the Contractor of responsibility for the accomplishment of the work either as regards sufficiency or the time of performance, except as expressly otherwise provided herein.

16. ORAL MODIFICATION: No oral statement of any person other than the contracting officer or his representative, as provided in the clause in this contract entitled "Changes", shall in any manner or degree modify or otherwise affect the terms of this contract.

17. NO WAIVER BY GOVERNMENT: The failure of the Government, in any one or more instances, to insist upon the strict performance of any of the terms of this contract or to exercise any option herein conferred shall not be construed as a waiver or relinquishment to any extent of the right to assert or rely upon such terms or option on any future occasion.



18. SANITATION: Designated building toilets may be used by Contractor's employees.

19. PAYMENT TO CONTRACTOR: One payment will be made. The payment shall be invoiced on NAVFAC Form 7300/30. When the contract is subject to Labor-Standard Provisions, affidavit form shall also be submitted.

20. UTILITIES:

20.1 Availability of Utilities Services: Contract clause entitled "Availability and Use of Utility Services" applies. Reasonable amounts of water and electricity from the nearest available outlet free of charge for pursuance of work under this contract. If the nearest available outlet cannot be utilized by the Contractor because of improper voltage, insufficient current, improper pressure, incompatible connectors, etc., it shall be the responsibility of the Contractor to provide temporary utilities as required. Under no circumstances will taps to Base fire hydrants for obtaining domestic water be allowed.

20.2 Energy and Utilities Conservation: The Contractor shall carefully conserve utilities furnished without charge. The Contractor, at his own expense and in a manner satisfactory to the Contracting Officer, shall install and maintain all necessary temporary connections and distribution lines and remove the same prior to final acceptance of the construction.

20.3 Location of Underground Utilities: Where existing piping, utilities, and underground obstructions of any type are indicated in locations to be traversed by new piping, ducts, and other work provided hereunder, and are not indicated or specified to be removed, the elevations of the existing utilities and obstructions shall be determined before the new work is laid closer than the nearest manhole or other structure at which an adjustment in grade could be made. For any additional work required by reason of conflict between the new and existing work, an adjustment in contract price will be made in accordance with Contract clause entitled "Differing Site Conditions". The Base Telephone Officer, telephone 451-2531, will show the Contractor approximate locations of all buried telephone and fire alarm cables after receiving ten days notice. The locations of underground utilities shown is only approximate and the information is incomplete.]

21. TRAILERS OR STORAGE BUILDINGS: In accordance with Contract Clause entitled "Operations and Storage Areas", trailers or storage buildings will be permitted, where space is available, subject to the approval of the Contracting Officer. The trailers or buildings shall be suitably painted and kept in a good state of repair. Failure of the Contractor to maintain his trailers or storage buildings in good condition will be considered sufficient reason to require their removal. A sign not smaller than 24 inches by 24 inches shall be conspicuously placed on the trailer depicting the company name, business phone number, and emergency phone number.

22. SAFETY PROGRAM: The Contractor shall implement a safety program conforming to the requirements of Federal, State and Local laws, rules and regulations. The program shall include, but is not limited to, the following:



a. "Occupational Safety and Health Standards", which can be ordered from the Superintendent of Documents, U. S. Government Printing Office, Washington, DC 20402.

b. Department of the Army, Corps of Engineers, "Safety and Health Requirements Manual", which may be examined in the office where bids are being received or may be purchased from the Superintendent of Documents, U. S. Government Printing Office, Washington, DC 20402.

c. NFPA 241-1981, Safeguarding Building Construction and Demolition Operations, which may be examined in the office where bids are being received or may be purchased from the National Fire Protection Association, Batterymarch Park, Quincy, MA 02269.

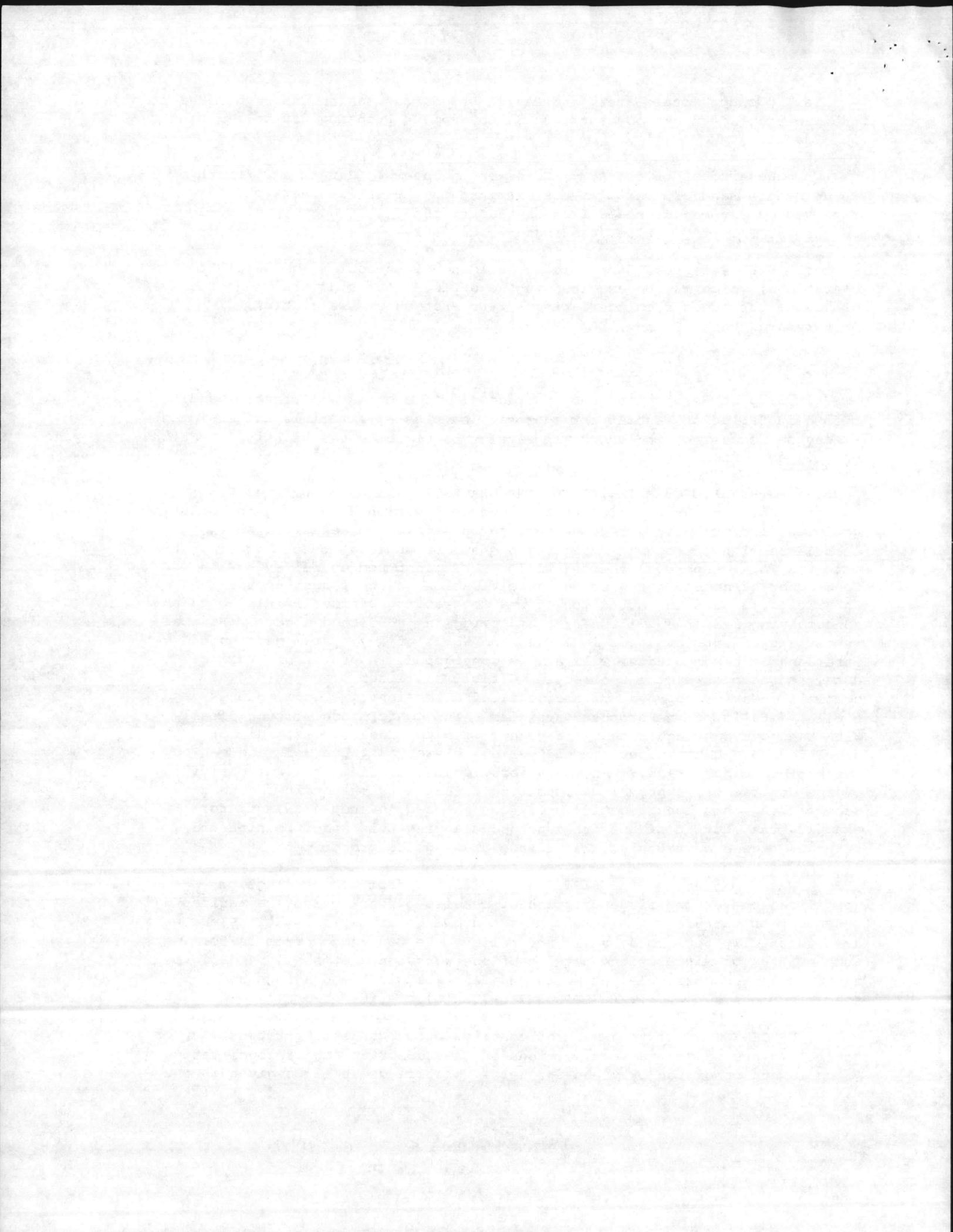
23. SUBMITTALS:

23.1 Samples Required of the Contractor: As soon as practicable, and before installation, submit for approval, samples of materials and equipment as may be requested, including all samples required in the technical sections of this specification.

23.2 APPROVAL OF SAMPLES, CUTS, AND DRAWINGS: Matter submitted for approval shall be accompanied by complete information concerning the material, articles, and/or design proposed for use in sufficient detail to show compliance with the specification, and shall be approved before incorporation into the work. Approval thereof will not be construed as relieving the Contractor of compliance with the specification, even if such approval is made in writing, unless the attention of the Contracting Officer is called to the noncomplying features by letter accompanying the submitted matter. Partial submittals or submittals of less than the whole of any system made up of interdependent components, will not be considered. Approval of drawings, cuts, and samples by the Contracting Officer shall not be construed as a complete check or approval of the detailed dimensions, weights, gauges, and similar details of the proposed articles. The conformance of such details with the contract requirements, together with the necessary coordination of dimensions and details between the various elements of the work and between the various subcontractors and suppliers, shall be solely the responsibility of the Contractor, approval of submitted matter notwithstanding. The drawings accompanying this specification shall not be used as shop drawings; for example, the editing of the drawings accompanying this specification and returning these edited drawings as shop drawings is prohibited.

24. OMISSIONS AND MISDESCRIPTIONS: Omissions from the drawings or specifications or the misdescription of details of work which are manifestly necessary to carry out the intent of the drawings and specifications, or which are customarily performed, shall not relieve the Contractor from performing such omitted or misdescribed details of the work but they shall be performed as if fully and correctly set forth and described in the drawings and specifications. (FAR SUPP 52.236-7002(b))

25. PRECEDENCE: In the event of conflict or inconsistency between any of the provisions of the various portions of this contract (the reconciliation of which is not otherwise provided for here), precedence shall be given in the



following order, the provisions of any particular portion prevailing over those of a subsequently listed portion.

- (1) Typewritten portions of the contract.
- (2) The specifications referred to in Standard Form 1442 (including all addenda, and mechanical and technical but not contractual aspects of incorporated provisions) as specifically amended herein, if amended.
- (3) Printed provisions of the contract form, including printed provisions of added slip sheets.

26. EMERGENCY MEDICAL CARE: Emergency medical care only is available at Government facilities at Marine Corps Base, Camp Lejeune for Contractor employees who suffer on-the-job injury or disease. Emergency care will be rendered at the prevailing rates established in BUMEDINST 6320.4 series. Reimbursement shall be made by the Contractor to the Naval Regional Medical Center Collection Agent upon receipt of a monthly statement.

27. QUARANTINE FOR IMPORTED FIRE ANT (4/82): All of Onslow, Jones and Cartaret Counties and portions of Duplin and Craven Counties have been declared a generally infested area by the United States Department of Agriculture for the imported fire ant. Compliance with the quarantine regulations established by this authority as set forth in USDA Quarantine No. 81 dated 9 October 1970, and USDA Publication 301.81-2A of 23 July 1976, is required for operations hereunder.

27.1 The Quarantine applies to materials originating from Camp Lejeune and the Marine Corps Air Station (Helicopter), New River, which are to be transported outside the Onslow County or adjacent suppression areas.

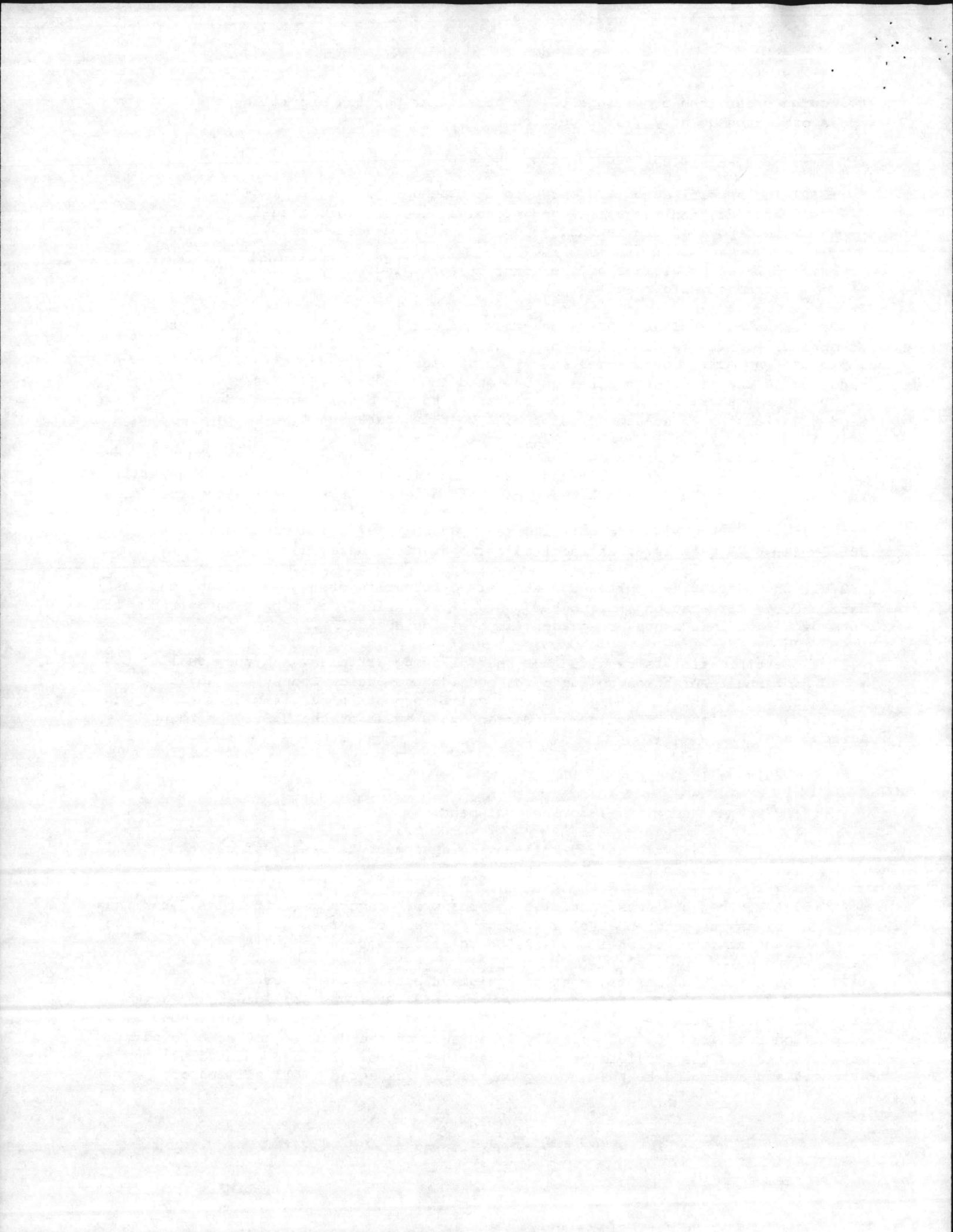
27.2 Certification is required for the following articles, and they shall not be moved from the reservation to any point outside the Onslow County and adjacent designated areas unless accompanied by a valid inspection certificate issued by an Officer of the Plant Protection and Quarantine Program of the U.S. Department of Agriculture.

- (1) Bulk soil.
- (2) Used mechanized soil-moving equipment.

NOTE: Used mechanized soil-moving equipment is exempt if cleaned of all loose noncompacted soil.

- (3) Any other products, articles, or means of conveyances, if it is determined by an inspector that they present a hazard of spread of the imported fire ant and the person in possession thereof has been so notified.

27.3 Authorization for movement of equipment outside the imported fire ant regulated area shall be obtained from USDA, APHIS, PPQ, Box 83, Goldsboro, North Carolina, 27530, Attn: Mr. Haywood Cox, Telephone (919) 735-1941, and requests for inspection shall be made sufficiently in advance of the date of movement to permit arrangements for the services of authorized inspectors. The equipment shall be prepared and assembled so that it may be readily inspected. All soil on or



attached to equipment, supplies and materials shall be removed by washing with water and/or such other means as necessary to accomplish complete removal. Resulting spoil shall be wasted as necessary and as directed.

28. NOTICE OF SMALL BUSINESS-SMALL PURCHASE SET ASIDE (APR 1984): Quotations under this acquisition are solicited from small business concerns only. Any acquisition resulting from this solicitation will be from a small business concern. Quotations received from concerns that are not small businesses shall not be considered and shall be rejected.

29. THE SMALL BUSINESS SIZE STANDARD APPLICABLE TO THIS CONTRACT IS AS FOLLOWS:

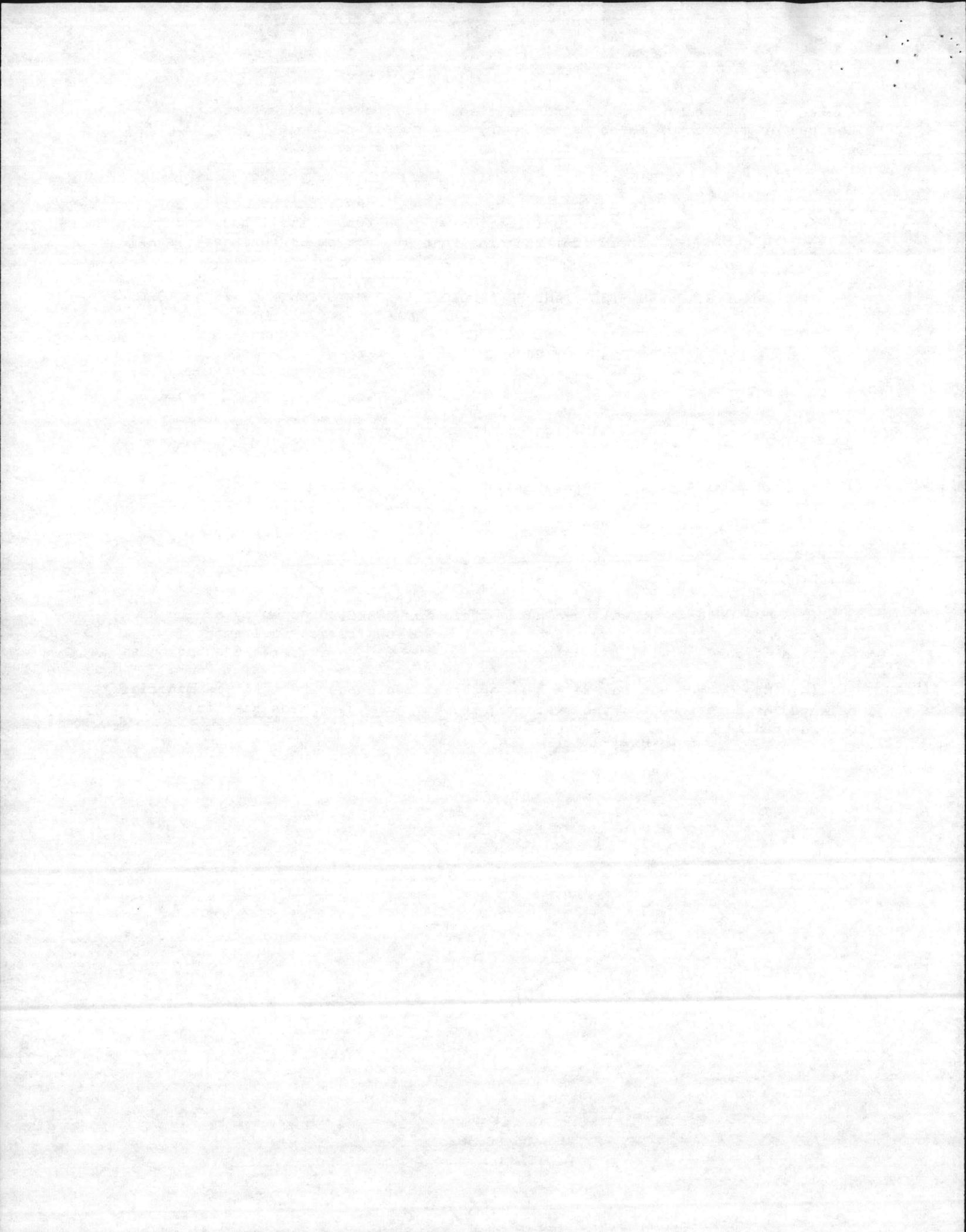
SIC CODE	INDUSTRY, SUBINDUSTRY OR CLASS OF PRODUCTS	ANNUAL SIZE STANDARD (MAXIMUM IN MILLIONS)
1623	Water, Sewer, Pipe Line, Communication and Power Line Construction	\$17.0

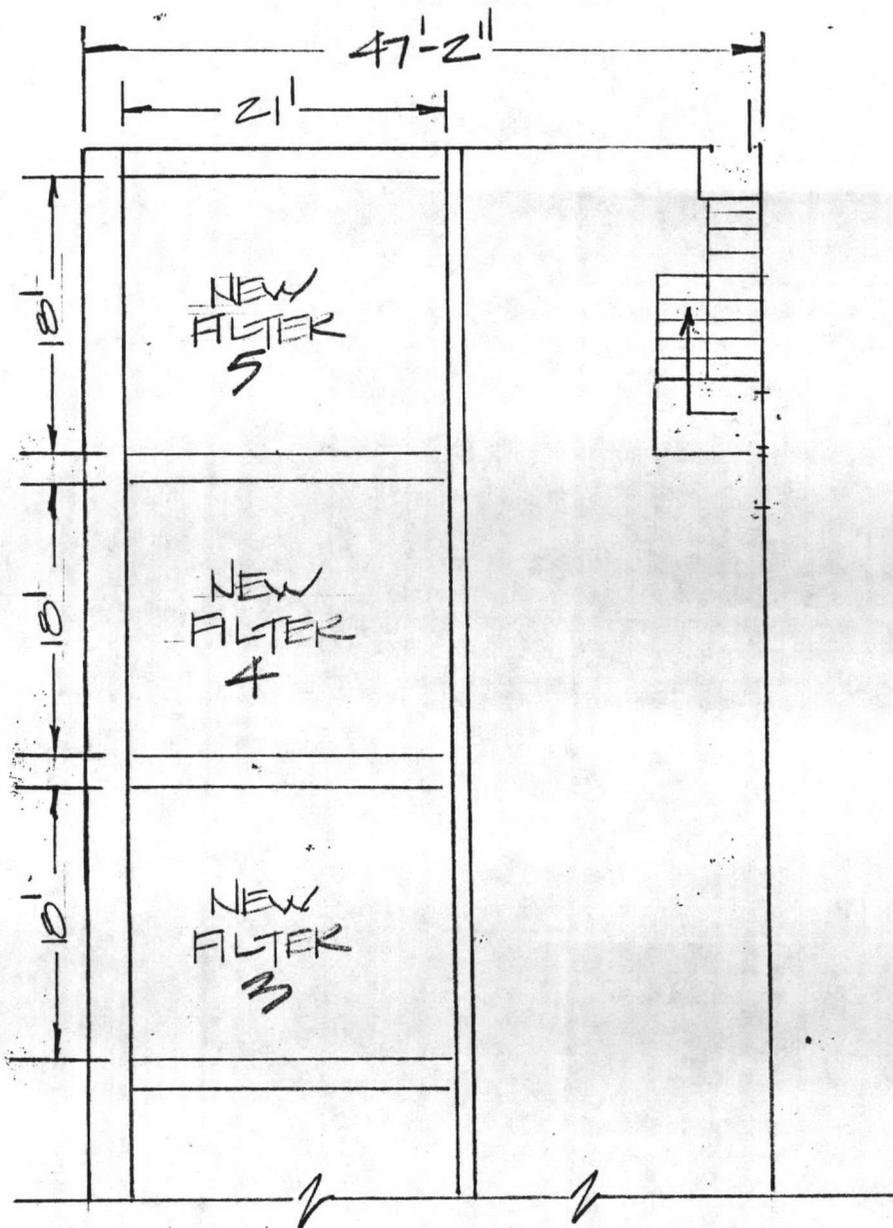
30. WAGE DETERMINATION: If award amount is \$2,000 or more, the Labor Standard Provisions will apply, including Wage Determination, Secretary of Labor Decision No. NC87-9, Heavy Construction, which is attached as the last two pages of this Specification.

31. EVALUATION OF OPTIONS (APR 1984)

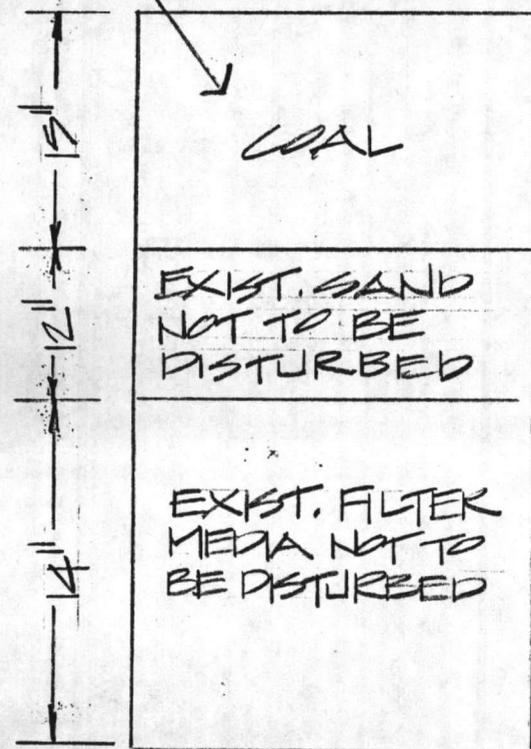
(a) The Government will evaluate offers for award purposes by adding the total price for all options to the total price for the basic requirement. Evaluation of options will not obligate the Government to exercise the option(s).

(b) The Government may reject an offer as nonresponsive if it is materially unbalanced as to prices for the basic requirement and the option quantities. An offer is unbalanced when it is based on prices significantly overstated for other work. (FAR 52.217-5)





REMOVE EXIST. SAND  
TO DEPTH OF 15" AND  
REPLACE WITH COAL



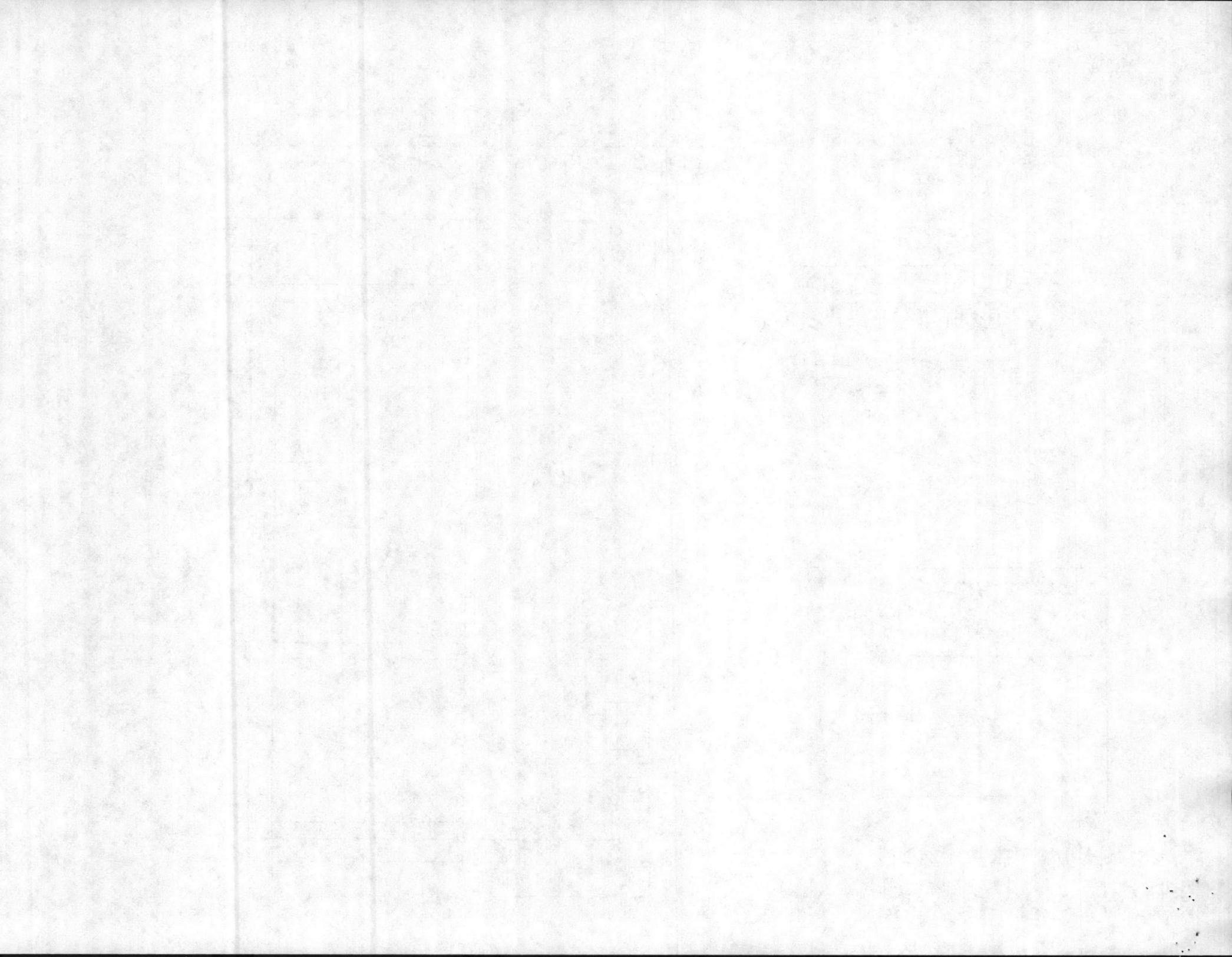
TYP. SECTION THRU  
NEW FILTER

N.T.S.

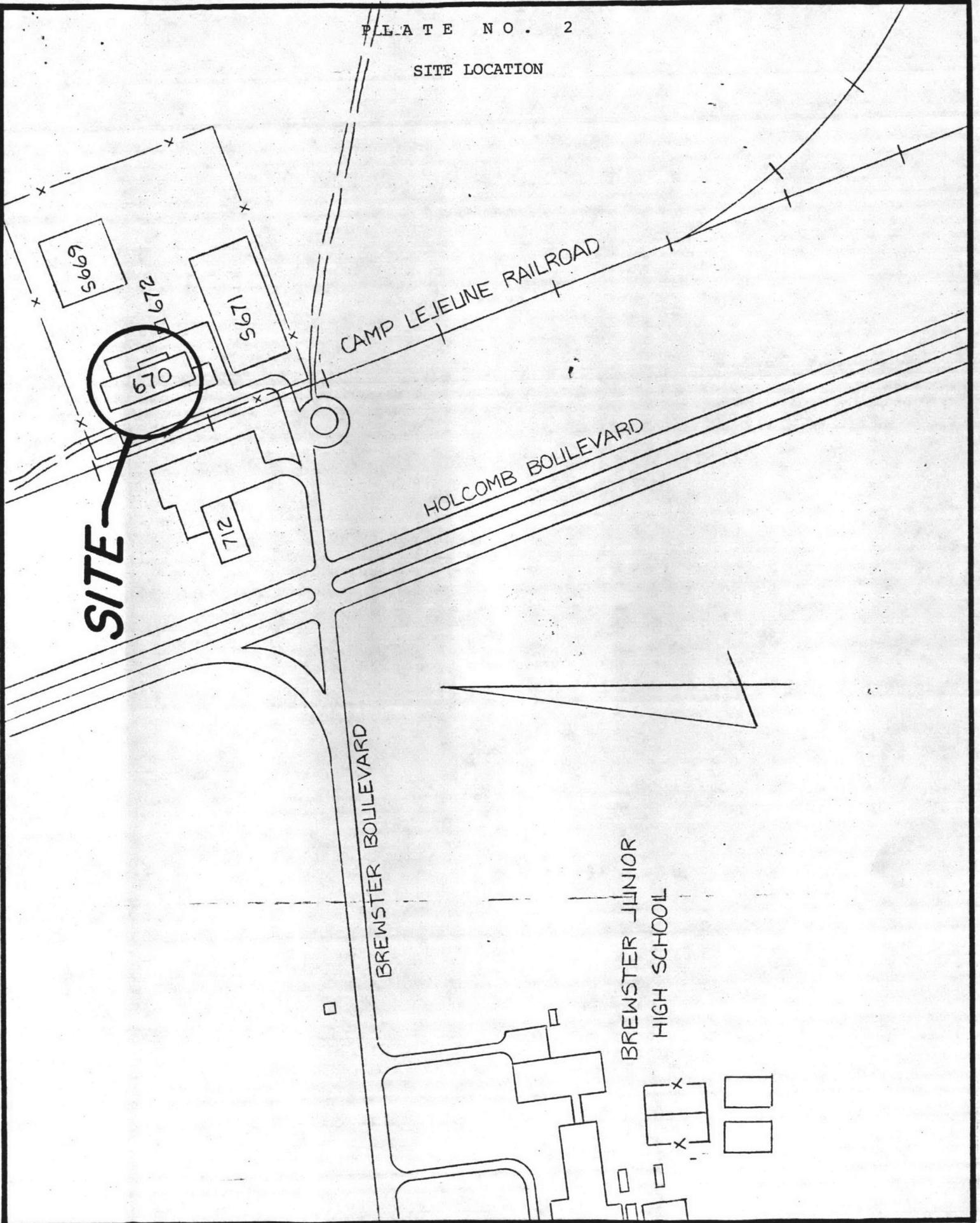
PARTIAL PLAN 2ND FLOOR

BLDG 670

N.T.S.



SITE LOCATION



\*\*\* END \*\*\*  
05-88-3685



SECTION 01401  
CONTRACTOR INSPECTION SYSTEM

PART 1 - GENERAL

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

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM):

D 3666-83	Evaluation of Inspection and Testing Agencies for Bituminous Paving Materials
D 3740-80	Evaluation of Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction
E 329-77 (R 1983)	Inspection and Testing Agencies for Concrete, Steel, and Bituminous Materials as Used in Construction
E 543-83	Determining the Qualification of Nondestructive Testing Agencies
E 548-79	Generic Criteria for Use in Evaluation of Testing and Inspection Agencies

1.2 QUALITY CONTROL: Quality Control of this contract will be administered under the clause entitled "Inspection of Construction" of the Contract Clauses.

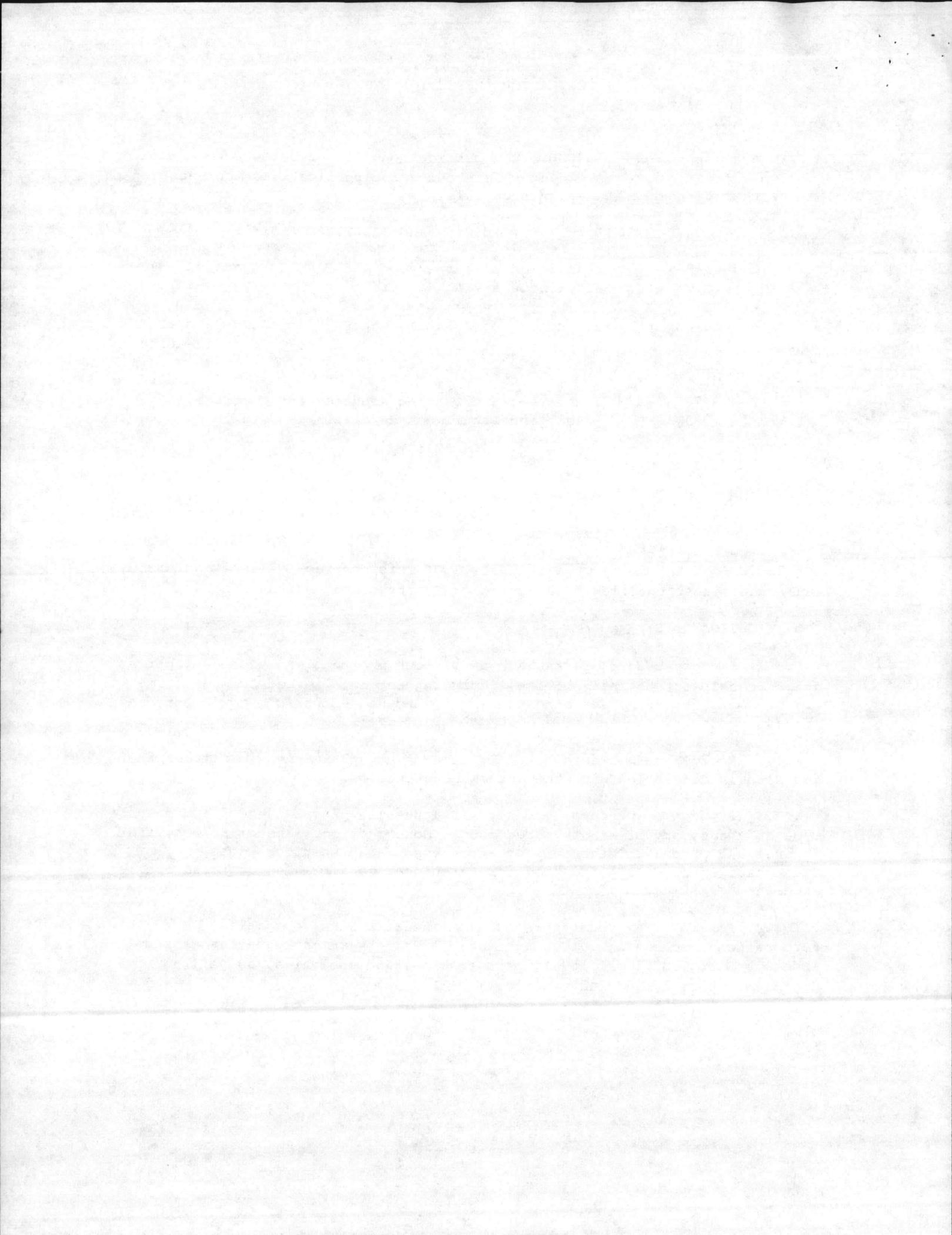
1.3 DEFINITIONS:

1.3.1 Factory Tests: Tests made on various products and component parts prior to shipment to the job site, including but not limited to such items as transformers, boilers, air conditioning equipment, electrical equipment, and precast concrete.

1.3.2 Field Tests: Tests or analyses made at, or in the vicinity of the job site in connection with the actual construction.

1.3.3 Product: The term "product" includes the plural thereof and means a type or a category of manufactured goods, constructions, installations, and natural and processed materials or those associated services whose characterization, classification, or functional performance determination is specified by standards.

1.3.4 Person: The term "person" means associations, companies, corporations, educational institutions, firms, government agencies at the Federal, State and local level, partnerships, and societies, as well as divisions thereof, and individuals.



1.3.5 Testing Laboratory: The term "testing laboratory" means any "person," as defined above, whose functions include testing, analyzing, or inspecting "products," as defined above, and/or evaluating the designs or specifications of such "products" according to the requirements of applicable standards.

1.3.6 Certified Test Reports: Test reports signed by an authorized official stating that tests were performed in accordance with the test method specified, that the results reported are accurate, and that items tested either meet or fail to meet the stated minimum requirements. These test reports include those performed by Factory Mutual, Underwriters Laboratories, Inc. and others.

1.3.7 Certified Inspection Reports: Reports signed by approved inspectors attesting that the items inspected meet the specification requirements other than any exception included in the report.

1.3.8 Manufacturer's Certificate of Compliance: A certificate signed by an authorized manufacturer's official attesting that the material or equipment delivered meets the specification requirements.

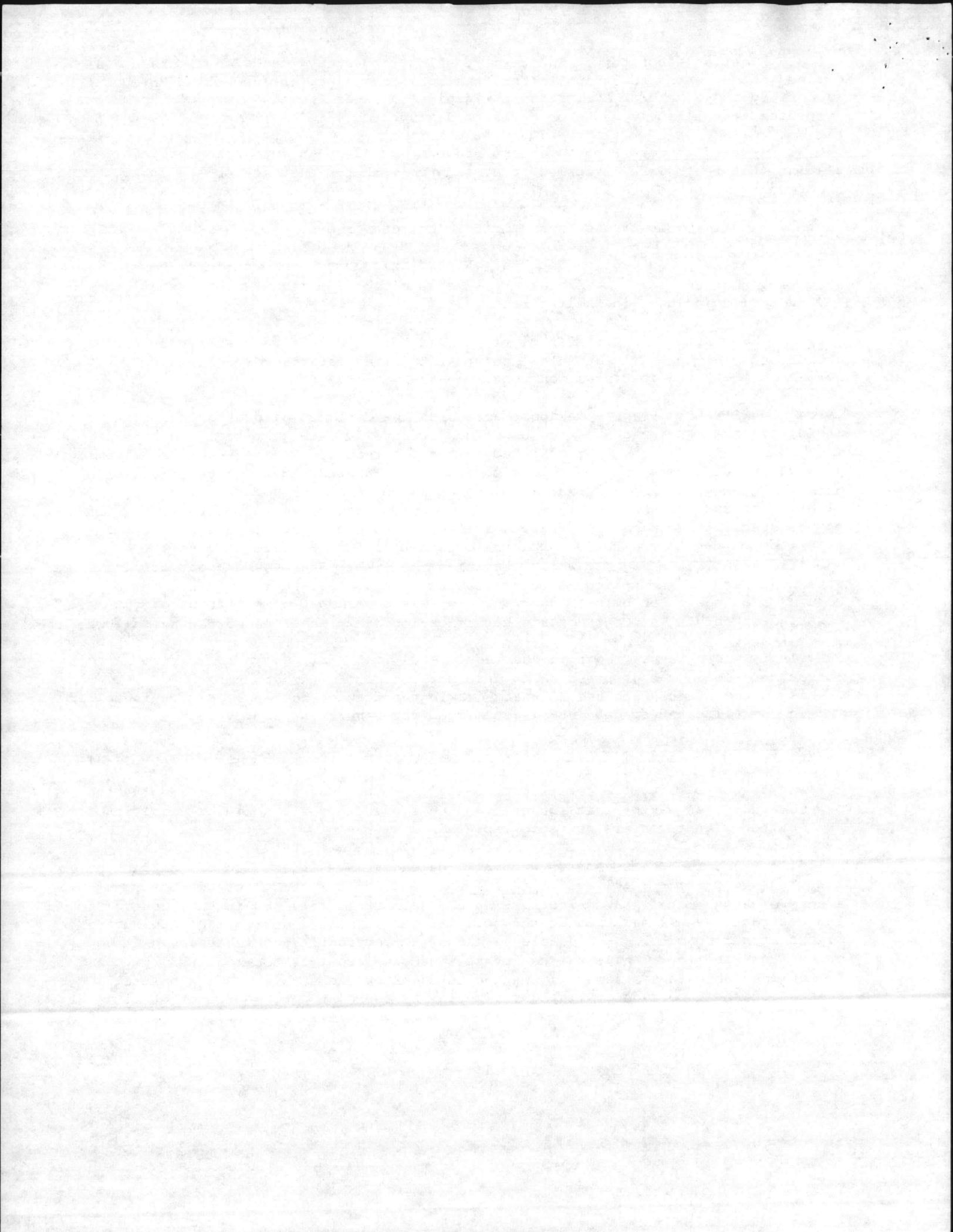
1.4 SUBMITTALS: Prepare in accordance with the Contract Clauses and Section 01010, "General Paragraphs," and submit for approval. Each submittal shall be accompanied with a cover letter signed by the Contractor. Clearly mark each item proposed to be incorporated into the contract and identify in the submittals, with cross-references to the contract drawings and specifications so as to identify clearly the use for which it is intended. Identify each item submitted by reference to the specific technical paragraph which specifies the item. Likewise, identify each item on the Contractor's Submittal Transmittal form by reference to the specific technical paragraph which specifies the item. Stamp each sheet of submittal with the Contractor's certification stamp. Data submitted in a bound volume or on one sheet printed on two sides, may be stamped on the front of the first sheet only. The Contractor's certification stamp shall be worded as follows:

"It is hereby certified that the (equipment) (material) shown and marked in this submittal is that proposed to be incorporated into Contract Number \_\_\_\_\_, is in compliance with the Contract drawings and specifications, can be installed in the allocated spaces, and is submitted for Government approval.

Certified by \_\_\_\_\_ Date \_\_\_\_\_"

The person signing the certification shall be one designated in writing by the Contractor as having that authority. The signature shall be in original ink. Stamped signatures are not acceptable.

1.4.1 Submittal Status Logs: Within 15 calendar days after date of Contract Award the Contractor shall submit to the Resident Officer in Charge of Construction a copy of a submittal status log listing all submittals required in this contract. The Contractor shall maintain at the job site the submittal status log showing the status of all submittals. A sample format of an acceptable log is attached at the end of this section. While the use of this sample format is not required, any other format must contain the same information as shown on the sample. The submittal status log shall be made available for review by the Contracting Officer at all times.



1.4.2 Shop Drawings: These submittals shall be in accordance with the requirements of the clauses entitled "Shop Drawings" of the Contract Clauses and "Proposed Material Submittals, Catalog Data, and Samples" of Section 01010, "General Paragraphs."

1.4.3 Manufacturer's Data: Catalog cuts, technical data sheets, and descriptive literature, shall be in accordance with the clause entitled "Proposed Material Submittals, Catalog Data, and Samples" of Section 01010, "General Paragraphs."

1.4.4 Samples: Prepare and submit in accordance with the clause entitled "Proposed Material Submittals, Catalog Data, and Samples" of Section 01010, "General Paragraphs."

1.4.5 Certified Test Reports: Before delivery of materials and equipment, four certified copies of the reports of all tests listed in the technical sections shall be submitted and approved. The testing shall have been performed in a laboratory meeting the requirements specified herein. The tests shall have been performed within 3 years of submittal of the reports for approval except that tests for concrete and bituminous mix designs shall have been performed within one year of submittal. Test reports shall be accompanied by the certificates from the manufacturer certifying that the material and equipment proposed to be supplied is of the same type, quality, manufacture, and make as that tested.

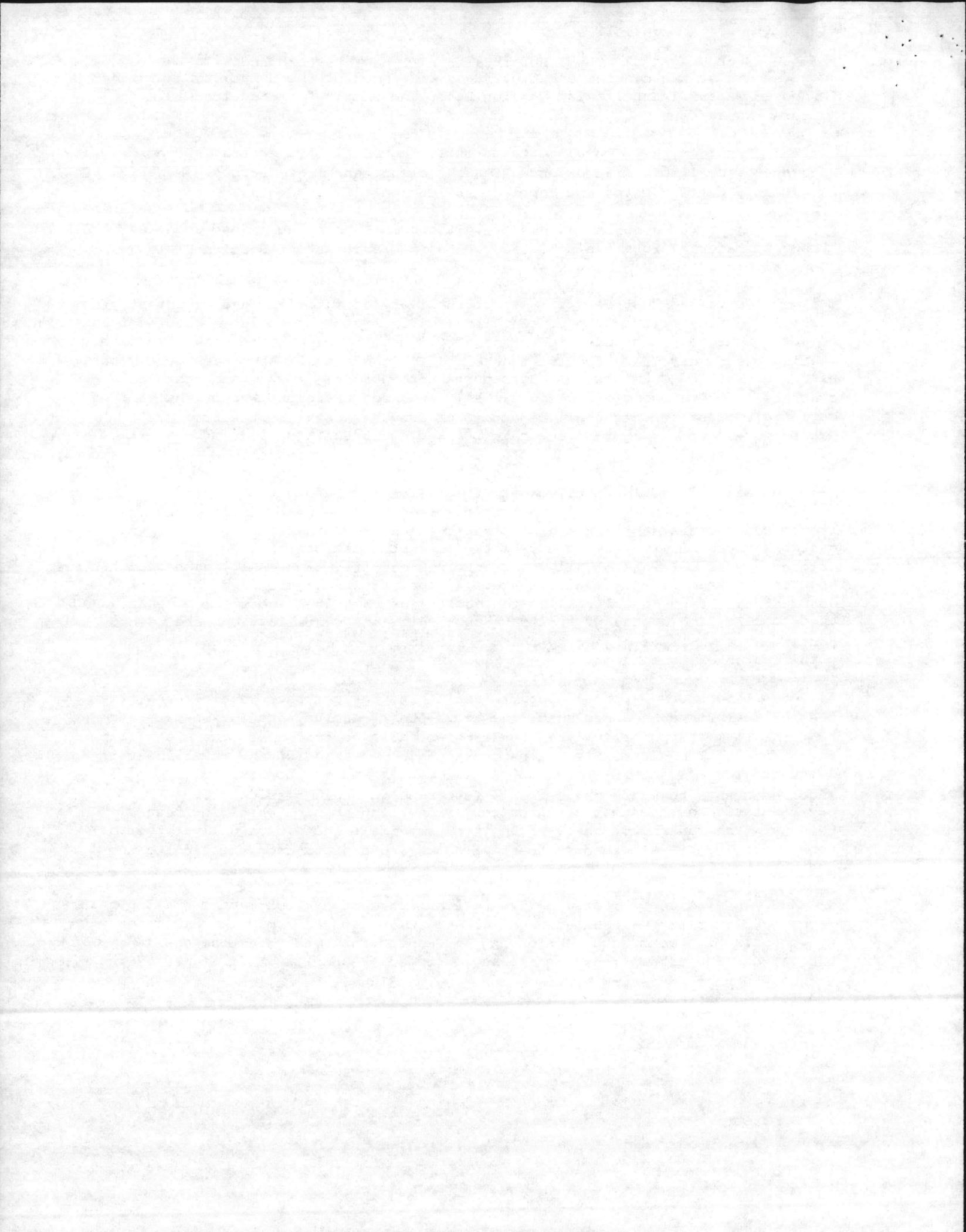
1.4.6 Manufacturer's Certificates of Compliance: Before delivery, manufacturer's certifications shall be furnished by the Contractor as required on items of materials and equipment indicated in the technical sections. Pre-printed certifications will not be acceptable. All certifications shall be in the original. The original of all manufacturer's certifications shall name the appropriate item of equipment or material, specification, standard, or other document specified as controlling the quality of that item and shall have attached thereto certified copies of test data upon which the certifications are based. All certificates shall be signed by the manufacturer's official authorized to sign certificates of compliance.

1.4.7 Laboratory Reports: Reports shall cite the contract requirements, the test or analysis procedures used, the actual test results, and include a statement that the item tested or analyzed conforms or fails to conform to the specification requirements. Each report shall be conspicuously stamped on the cover sheet in large red letters "CONFORMS" or "DOES NOT CONFORM" to the specification requirements as the case may be. All test reports shall be signed by a representative of the testing laboratory authorized to sign certified test reports. The Contractor shall arrange for immediate and direct delivery of the signed original of all reports, certifications, and other documentation to the Contracting Officer.

1.4.8 Tabulation of Tests: Prior to final payment the Contractor shall obtain from each laboratory a tabulation of all tests it has performed in connection with the construction contract. Conforming, nonconforming, and retesting shall be tabulated. The tabulation(s) shall be certified as complete, and signed by the authorized representative of the laboratory, and shall be delivered to the Contracting Officer.

05 88 3685

01401 - 3



1.4.9 Deviations from contract requirements are discouraged. In the event the Contractor determines that a deviation is necessary, the Contractor shall state specifically what portion varies, why a deviation is necessary, and include a complete breakdown of the difference in cost, either additive or deductive, in compliance with the Contract Clause entitled "Modification Proposals--Price Breakdown." Without such documentation, deviations will not be considered by the Contracting Officer.

1.4.10 Warrants for Deviations: If the Contractor determines that a deviation is necessary, the Contractor shall warrant:

1.4.10.1 That he has reviewed the entire contract in order to establish that the deviation, when incorporated, will be compatible with all other elements of construction.

1.4.10.2 That he shall take any action and bear any additional expense which may arise by reason of incorporating the proposed deviation, including but not limited to change in this or other elements of construction resulting from the incompatibility of the proposed deviation with any other element of construction.

## PART 2 - EXECUTION

2.1 QUALITY CONTROL REQUIREMENTS: In accordance with the clause entitled "Inspection of Construction" of the Contract Clauses, the Contractor shall inspect and test all work under the contract and maintain records of the inspections and tests; however, the Government will perform testing when so stated in the specifications. Approvals, except those required for field installations, field applications, and field tests, shall be obtained before delivery of materials and equipment to the project site. Surveillance of the inspection system will be performed by the Contracting Officer.

2.1.1 Factory Tests: Unless otherwise specified, the Contractor shall arrange for factory tests when they are required under the contract.

2.1.2 Factory Inspections by the Contractor: Unless otherwise specified, the Contractor shall arrange and perform all factory inspections specifically required in the technical sections of the specifications. These inspections shall be reported in the Daily Report to Inspector.

2.1.3 Field Inspections and Tests by the Contractor: The Contractor shall furnish all equipment, instruments, qualified personnel, and facilities necessary to inspect all work and perform all tests required by the contract. All inspections and tests performed and test results received each day shall be included in the Daily Report to Inspector.

2.1.4 Field Inspections and Tests by the Government: If deemed necessary by the Contracting Officer, field inspections and tests will be made in accordance with the clause entitled "Inspection of Construction" of the Contract Clauses.

2.1.5 Approval of Testing Laboratories: All laboratory work under this contract shall be performed by a laboratory approved by the Government, whether the laboratory is employed by the Contractor, or is owned and operated by the Contractor. The basis of approval includes the following:

05 88 3685

01401 - 4



- a. Testing laboratories performing work in connection with concrete, steel, and bituminous materials shall comply with ASTM E 329 and ASTM D 3666, respectively.
- b. Testing laboratories engaged in the testing and inspection of soils and rock or performing non-destructive testing shall comply with ASTM D 3740 and ASTM E 543, respectively.
- c. Testing laboratories performing work not in connection with concrete, steel, bituminous materials, soils and non-destructive testing shall comply with ASTM E 548.

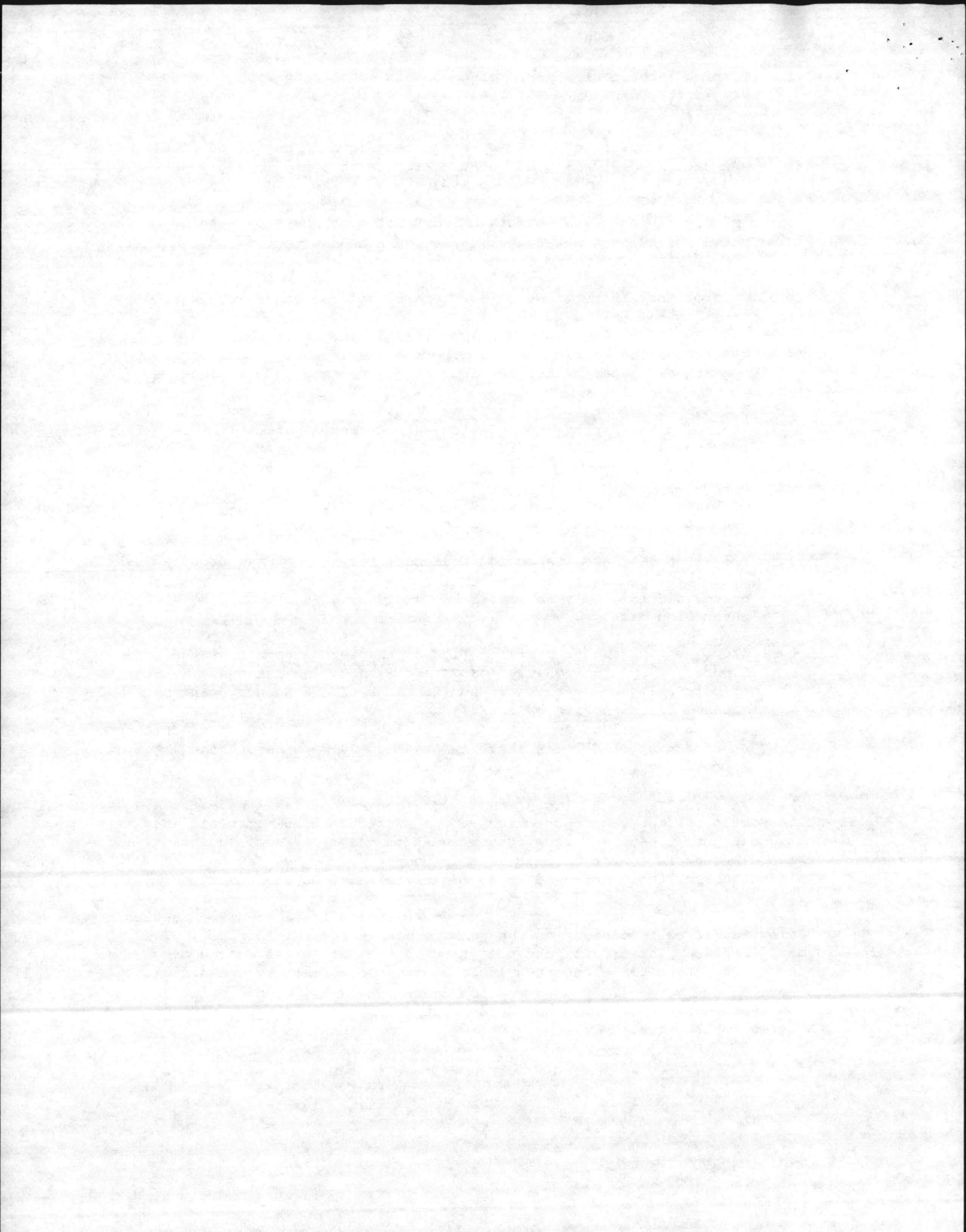
2.1.5.1 Laboratory Inspection: Prior to approval the laboratory shall submit in writing the following:

- a. Functional description of the laboratories organizational structure, operational departments, and support departments and services.
- b. A list and resume of the personnel assigned to the proposed testing, including the person charged with engineering managerial responsibility.
- c. Affidavit of compliance with the applicable ASTM publication and certification that the laboratory performs work in accordance with technical requirements as required by the contract specifications.
- d. A list of test and inspection equipment for each of the proposed test procedures and certification that the equipment is calibrated at prescribed intervals to insure the validity of the test and inspection data.
- e. A copy of any recent certification of inspection report of the laboratory by a nationally recognized agency, including a statement of corrections made based on the findings of the agency. In the absence of inspection by a nationally recognized agency, the laboratory will be subject to inspection by the Contracting Officer upon receipt of all the above information 30 days before the required approval of the testing laboratory.

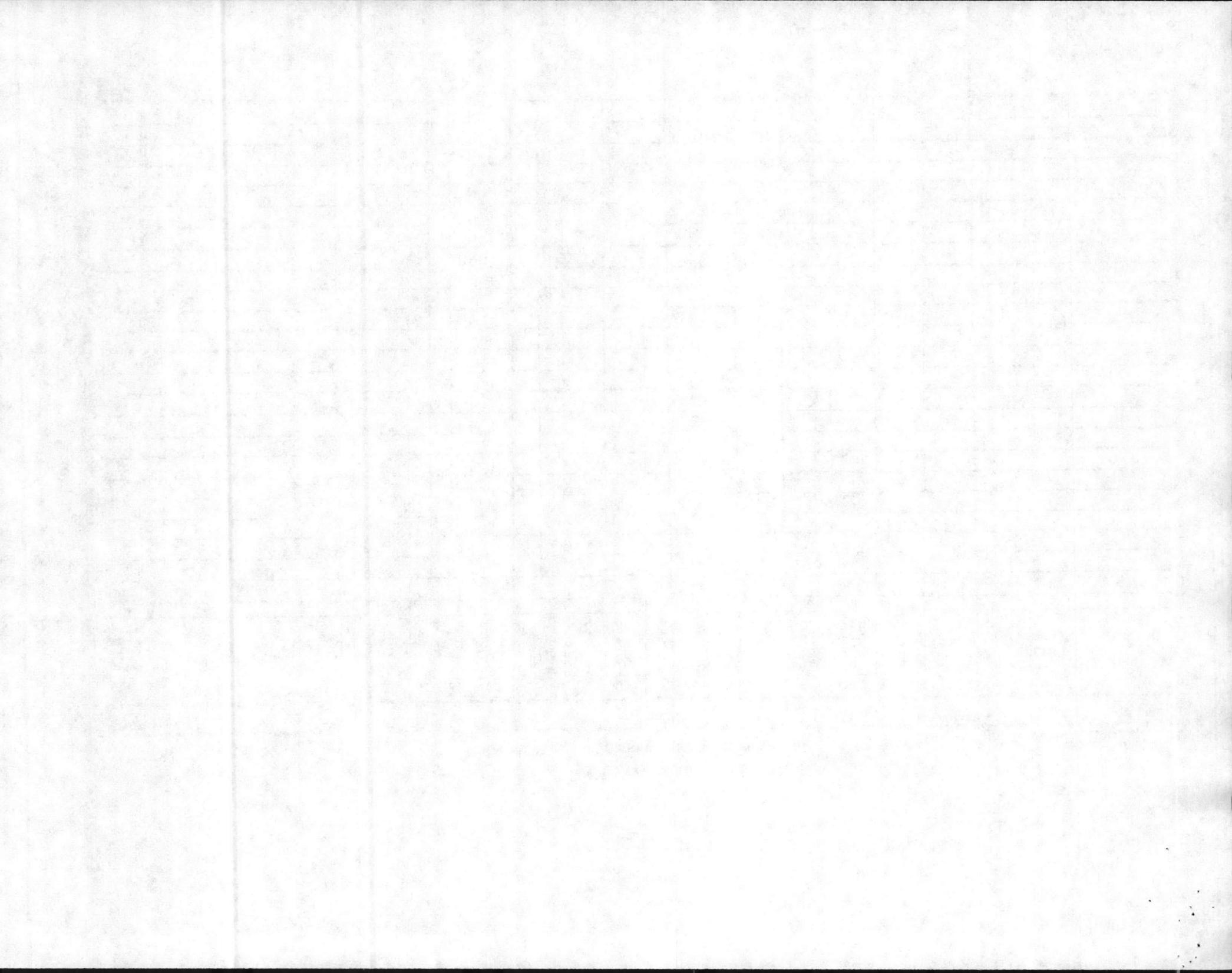
2.1.6 Repeated Tests and Inspections: The Contractor shall repeat tests and inspections after each correction made to nonconforming materials and workmanship until tests and inspections indicate the materials, equipment, and workmanship conform to the contract requirements. The retesting and reinspections shall be performed at no additional cost to the Government.

2.1.7 Contractor's Daily Report: The Contractor will be required to submit a "Daily Report to Inspector" on the form furnished for this purpose. The form shall be completed daily and delivered to the Officer in Charge of Construction. Data to be reported includes data on workers by classification, the move-on and move-off of construction equipment furnished by the prime and subcontractor or furnished by the Government, and materials and equipment delivered to the site.

05 28 3685







## INSTRUCTIONS

1. This form may be used by the Contractor for listing all material submittals that require action by either the Contractor or the Government.
2. Columns (a) through (e) should be completed by the Contractor and must include all submissions that are required by the specifications.
3. As submittals are received and processed, the remaining columns are to be completed by the Contractor.
4. In column (f) for those items requiring ROICC action (action code "D"), THE REASON FOR FORWARDING TO THE ROICC should be entered in the column (l), the remarks column, e.g., Government approval required; waiver requested because of variance, substitution, etc.
5. Column (j) is completed when material or equipment is delivered to the project. Column (k) is completed only after verification that the delivered item is that represented by the approved submittal.

ACTION CODE: To be used when completing columns (f) and (h)

A - Approved as submitted	D - Forwarded to ROICC for action
B - Approved as noted	E - Forwarded to ROICC for record
C - Disapproved	purpose

05 88 3685

01401 - 7



1.1 ENVIRONMENTAL PROTECTION PLAN: The Contractor may be responsible for the preparation and submission of an Environmental Protection Plan. After the contract is awarded, but prior to the commencement of the Work, the Contractor shall meet with the Contracting Officer or his representative and discuss the proposed Environmental Protection Plan. The meeting shall develop mutual understanding relative to details of environmental protection, including required reports and measures to be taken should the Contractor fail to provide adequate protection in an adequate and timely manner. Not more than 14 days after the meeting, the Contractor shall submit for approval his proposed Environmental Protection Plan, if so required.

1.2 GENERAL REQUIREMENTS: The Contractor shall provide and maintain environmental protection during the life of the contract, as defined herein. The Contractor's operations shall comply with all Federal, State and Local regulations pertaining to water, air, solid waste, and noise pollution.

## PART.2 - PRODUCTS

### 2.1 DEFINITIONS OF POLLUTANTS:

2.1.1 Non-Hazardous Wastes: Solid or liquid substances that are to be discarded by the Contractor and that normally do not constitute a hazard to man or to the environment. This includes, but is not limited to, paper, metal (other than toxic metals such as lead and mercury), masonry, wood, brick, stone, asphaltic concrete, plastics, rubber, rubbish and concrete.

2.1.2 Hazardous Wastes: Solid and liquid substances that are to be discarded by the Contractor and that constitute a significant active or potential hazard to man and/or to the remainder of the environment. This includes, but is not limited to asbestos, glass, lead, mercury, pesticides, herbicides, other toxic chemicals and waste, liquid petroleum products, human excrement, garbage, sediment and radioactive materials.

2.1.3 Protection of Natural Resources: It is intended that the natural resources within the limits of permanent work performed under this contract be preserved in their existing condition or be restored to an equivalent or improved condition upon completion of the work. The Contractor shall confine his construction activities to areas defined by the work schedule, plans, and specifications.

## PART 3 - EXECUTION

### 3.1 CONTROL AND DISPOSAL OF HAZARDOUS AND NON-HAZARDOUS WASTES:

3.1.1 Non-hazardous wastes, except rubble, shall be picked up and disposed of daily or placed in containers which are emptied on a weekly schedule. All handling and disposal shall be so conducted as to prevent contamination of the site and other areas. The Contractor shall transport all such waste off the Base, unless he desires to use the Base Sanitary Landfill or rubble disposal areas.



3.1.2 If transporting any material off Government property, the Contractor shall provide the Contracting Officer a copy of State and/or local permit which reflects the responsible agency's approval of the disposal area and proposed waste disposal methods.

3.1.3 Rubble such as masonry, stone, concrete without reinforcing steel, and brick may be deposited as directed on the Base. Upon completion, the work and disposal area shall be left clean and natural looking. All signs of temporary construction and activities incidental to construction of the required permanent work in place shall be obliterated.

3.1.4 Optional use of Base landfill shall require compliance with landfill rules. Such rules do not allow accepting recyclable metals nor reusable wood or lumber over six feet in length.

### 3.2 HAZARDOUS WASTES:

3.2.1 Garbage Disposal: The Contractor shall transport any garbage to the Base Sanitary Landfill. However, the preparation, cooking and disposing of food are strictly prohibited on the project site.

3.2.2 Liquid Wastes shall be stored in corrosion-resistant containers, removed from the project site, and disposed of not less frequently than monthly unless directed otherwise. Disposal of liquid waste shall be in accordance with Federal, State and Local regulations. Fueling and lubricating of equipment and motor vehicles shall be conducted in a manner that affords the maximum protection against spills and evaporation. For oil and hazardous material spills which may be large enough to violate Federal, State and Local regulations, the Contracting Officer shall be notified immediately. The Base Sanitary Landfill will not accept liquid wastes nor empty drums.

3.2.3 Asbestos disposal in the Base Sanitary Landfill will be mandatory when friable asbestos is encountered. If such asbestos is encountered, provisions for handling or disposal shall comply with Section 02080 Removal and Disposal of Asbestos Materials, if this Section is included herein, such requirements shall be as directed.

\*\*\*END OF SECTION\*\*\*

05 38 3685



SECTION 13522

FILTER MEDIA

PART 1 - GENERAL

1.1 APPLICABLE PUBLICATIONS: The publications listed below form a part of this specification to the extent referenced. The publication is referred to in the text by basic designation only.

1.1.1 American Water Works Association (AWWA):

B100-80

AWWA Standard for Filtering Material

1.2 DESCRIPTION OF WORK: The work includes providing new filter media, removal of sand, and disinfection of entire filter bed.

1.3 SUBMITTALS:

1.3.1 Samples

a. The Contractor shall be responsible for submitting prior to shipment a one-quart representative sample of each filter material to the Department of Human Resources, Division of Health Services, P.O. Box 2091, Raleigh, North Carolina, 27602-2091, Attention: F. K. Yarborough. Another one-quart representative sample shall be submitted to the above address upon arrival at the site. All samples shall be submitted in clean, dust-tight containers, plainly marked with the identity and address of the Contractor, and the identity of the contents as to size or grade. Shipments shall be of a quality equal to the original sample.

1.4 DELIVERY, STORAGE, AND PROTECTION:

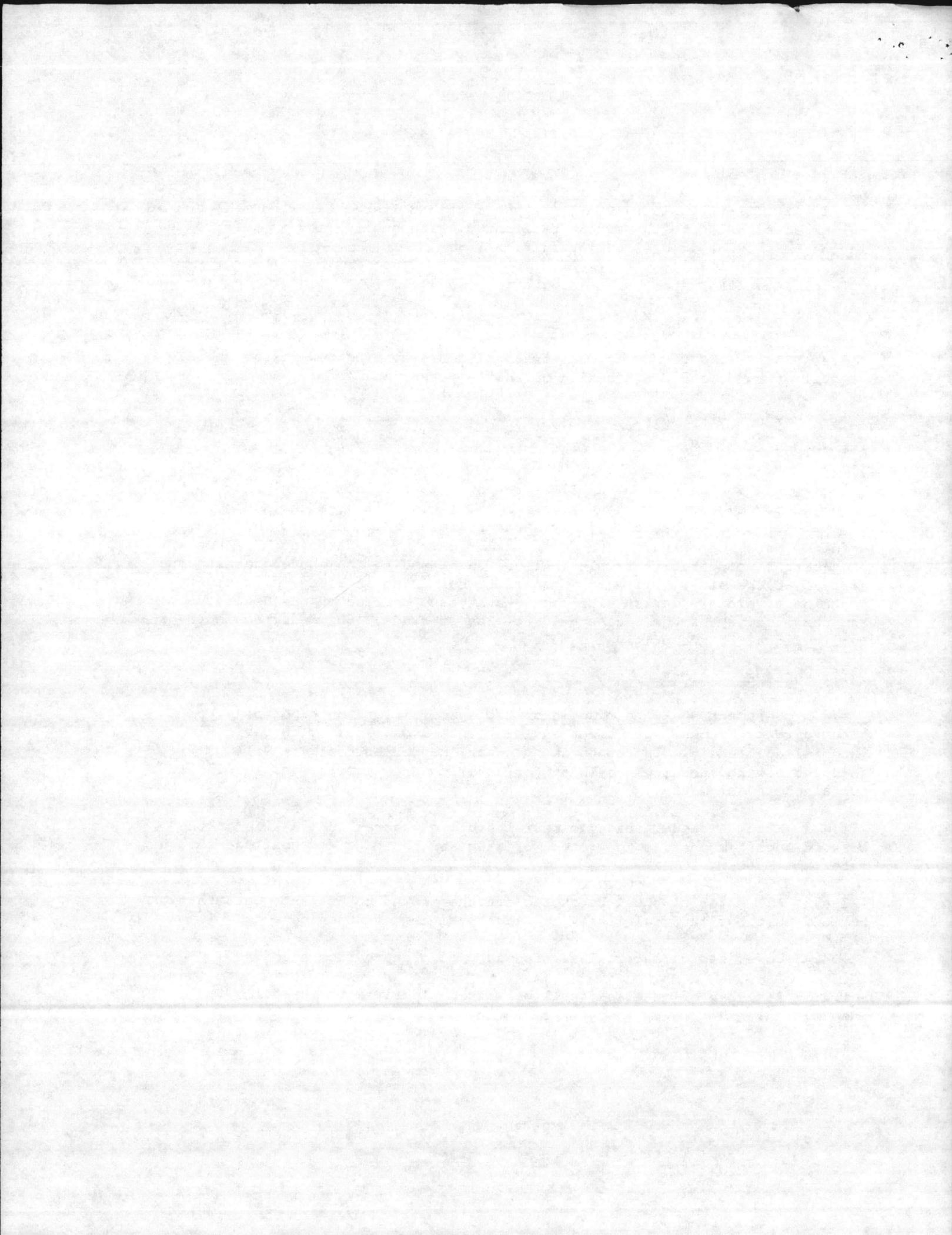
1.4.1 Shipment shall be made in suitable heavy-cloth or paper bags, or in clean cars or trucks, with tight enclosures to avoid loss or contamination of material in transit. Shipments in open-top, hopper bottom cars will be acceptable with adequate provision for covering the material and keeping it contained in shipment.

1.4.2 When shipped in bags, material shall be stored at the site of the work in such a manner as to prevent breakage of the bags and spillage of the material.

1.4.3 All material shall be stored off the ground to prevent contamination by mud, dust, or material likely to cause staining or other defects.

1.4.4 Cover stored material as necessary to protect from elements.

1.4.5 Each bag of material shall be marked clearly with the following information:



- a. Gradation
- b. Source
- c. Date of bagging
- d. Lot or stockpile identification

## PART 2 - PRODUCTS

2.1 GENERAL: Materials shall conform to AWWA B100-80, except as modified herein.

### 2.2 FILTER ANTHRACITE:

2.2.1 Anthracite media shall be visibly free of clay, shale, extraneous dirt, or other objectionable materials.

2.2.2 Filter anthracite shall have an effective size from 0.80 mm to 0.90 mm, a uniformity coefficient not to exceed 1.5, and hardness not less than 3.0 on the Moh scale. Final depth after backwashing and skimming shall be 18 inches.

## PART 3 - EXECUTION

### 3.1 INSTALLATION:

3.1.1 Before any materials are placed, the top elevation of each layer shall be marked by a continuous level line on the inside of the filter.

3.1.2 Workmen shall not stand or walk directly on the filter material. They shall walk on boards or plywood that will sustain their weight without displacing the material.

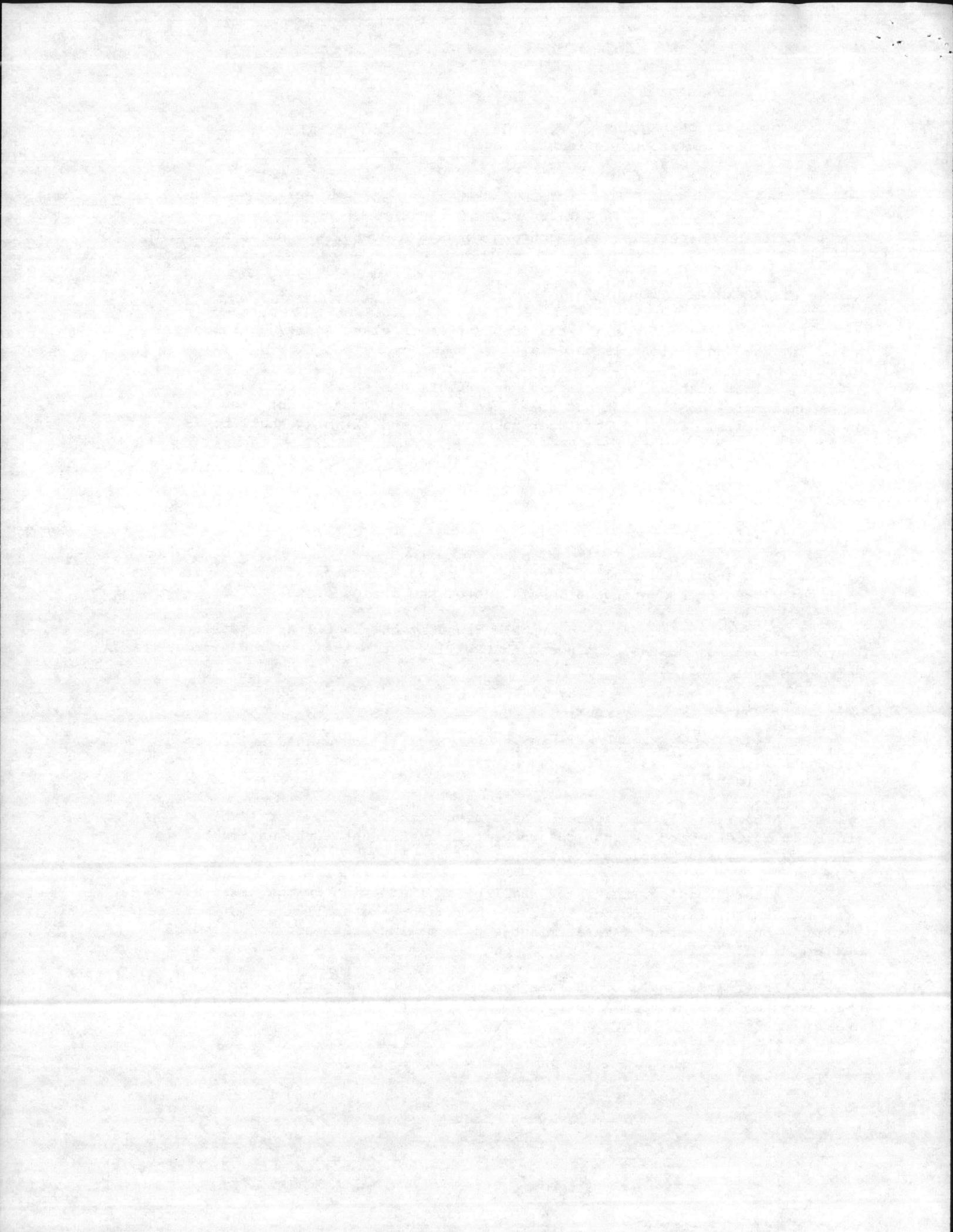
### 3.2 CLEANING:

3.2.1 Both filter sand and filter anthracite shall be washed and scraped or skimmed as deemed necessary to remove excess fine materials before the next material is installed.

3.2.2 After all filter materials have been placed, wash water shall be slowly admitted upward through the underdrain system until the entire bed is flooded. Government employees will operate all valves.

3.2.3 After flooding, the water shall be applied at an initial rate not to exceed 2 GPM/sq. ft. of filter area; the backwash rate shall then be increased gradually over a period of three minutes to a maximum rate not to exceed 20 GPM/sq. ft. of filter area.

3.2.4 The filter shall be backwashed a minimum of three times for a period not less than five minutes at a rate not less than 15 GPM/sq. ft. of filter area.



3.2.5 Between wash runs, the filter shall be scraped to remove virtually all material passing a No. 50 sieve and to remove all flat particles of anthracite. Backwash and scraping shall be repeated as many times as necessary to remove all objectionable material.

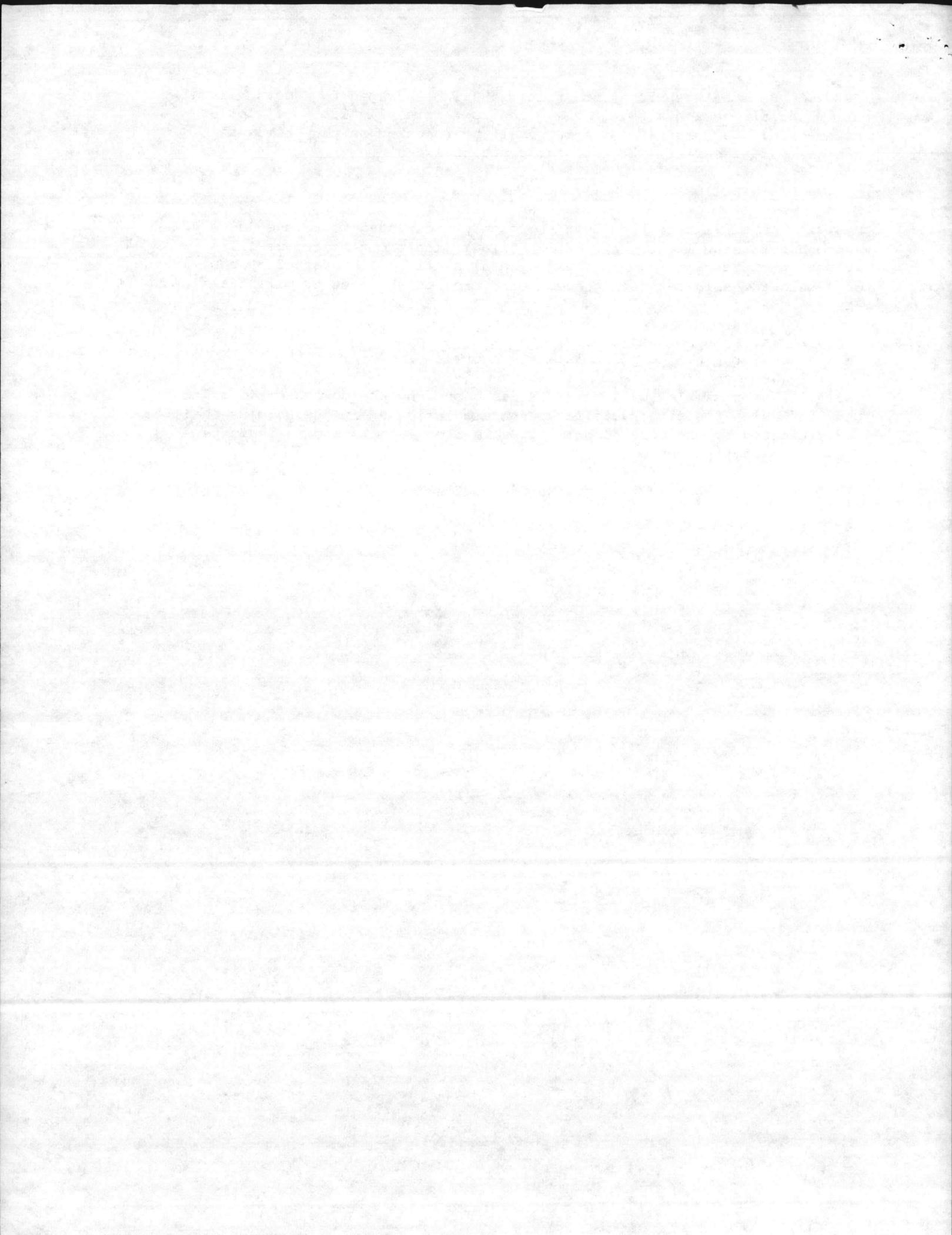
### 3.3 DISINFECTION:

3.3.1 After filters have been thoroughly backwashed to remove dust, silt and other foreign matter, the entire filter (including filter media, supporting material and underdrain system) shall be disinfected by application of a chlorine solution having a concentration of at least 50 milligrams per liter (or PPM).

3.3.2 The solution shall be dispersed throughout the filter bed and remain in contact for a period of at least 24 hours.

3.3.3 Water samples will be taken and tested by the Government. Filter beds for which positive bacteria counts are indicated in the samples shall be re-disinfected by the Contractor until such time as all samples indicate negative bacteria counts.

**\*\* END OF SECTION \*\***



U.S. Department of Labor



NC87-9

	Basic Hourly Rates	Fringe Benefits
<b>BOILERMAKERS:</b>		
Storage Tank Erection/Repair	12.96	4.105
All Other Work:	16.20	4.105
<b>BRICKLAYERS</b>	7.23	
<b>CARPENTERS</b>	6.63	
<b>CEMENT MASONS/FINISHERS</b>	6.11	
<b>ELECTRICIANS</b>	8.56	
<b>FENCE ERECTORS</b>	4.64	
<b>IRONWORKERS</b>	8.20	
<b>LABORERS:</b>		
Unskilled	4.41	
Air Drill Operator	5.92	
Asphalt Rakers	4.93	
Pipelayers	5.17	
<b>MANHOLE BUILDERS</b>	5.81	
<b>MILLWRIGHTS</b>	5.27	
<b>PAINTERS</b>	7.12	
<b>PLUMBERS &amp; PIPEFITTERS</b>	7.42	
<b>TRUCK DRIVERS</b>	4.67	
<b>TV &amp; GROUTING TECHNICIANS</b>	9.21	
<b>POWER EQUIPMENT OPERATORS:</b>		
Asphalt Distributor	5.77	
Asphalt Finisher	5.69	
Asphalt Paver	5.69	
Asphalt Screed	5.69	
Backhoe	6.40	
Boring Machine	5.65	
Bulldozer	5.96	
Crane	7.60	
Dragline	6.34	
Drill	7.23	
Loader	5.79	
Mechanic	7.16	
Motor Grader	6.24	
Roller	4.98	
Scraper, Pan	5.42	
Tractor	5.49	
Trenching Machine	6.58	
<b>WELL DRILLERS</b>	6.50	

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

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29 CFR, 5.5 (a) (1) (11)).

05 88 3685



GENERAL WAGE DECISION NO. NC87-9

Supersedes General Wage Decision No. NC86-9

State: NORTH CAROLINA

County(ies): Statewide

Construction Type: HEAVY (including Sewer and Water Lines)

Construction Description: Sewer and Water Construction Projects and Heavy Construction Projects (excluding Dam construction projects).

Modification Record: No.	Publication Date	Page No.(s)
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