OPERATIONS DIVISION
Base Maintenance Department
Marine Corps Base
Camp Lejeune, North Carolina 28542

JLS
MAIN/~~FEC~~/clm
4330
27 MAY 1981

From: Supervisory Engineering Technician, Inspection Branch
To: UTILITIES DIRECTOR

Subj: REVIEW OF PLANS AND SPECS

1. Plans and specifications for contract number 81-3562, for the following work REPAIR SAND BLAST & PAINT WATER TANKS.

are attached for review.

2. Please review and provide comments to the Operations Division by ASAP.

Jesse Sellers

IMPORTANT

THIS AMENDMENT MUST BE ACKNOWLEDGED WHEN YOUR BID IS SUBMITTED. FAILURE TO ACKNOWLEDGE THE AMENDMENT MAY CONSTITUTE GROUNDS FOR REJECTION OF THE BID. IF YOUR BID HAS BEEN SUBMITTED PRIOR TO THE RECEIPT OF THIS AMENDMENT, ACKNOWLEDGEMENT MAY BE MADE BY TELEGRAM, WHICH SHOULD STATE WHETHER THE PRICE CONTAINED IN YOUR SEALED BID IS TO REMAIN UNCHANGED, IS TO BE DECREASED BY AN AMOUNT, OR IS TO BE INCREASED BY AN AMOUNT. THE ACKNOWLEDGEMENT MUST BE RECEIVED PRIOR TO BID OPENING TIME UNLESS THERE IS EVIDENCE THAT IT MAY BE ACCEPTED PURSUANT TO THE PROVISIONS OF THE DEFENSE ACQUISITION REGULATIONS.

NOTE: TELEGRAMS WILL NOT BE DELIVERED TO CAMP LEJEUNE UNLESS PHYSICAL DELIVERY IS SPECIFIED AT TIME OF FILING AND SHOWING THAT DELIVERY CHARGES HAVE BEEN PAID IN ADVANCE.

BID OPEN

18 JUNE 1981

2:00 PM

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION

1. AMENDMENT	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
No. 1	21 May 81		Spec. No. 05-81-3561

5. ISSUED BY — CODE
Officer in Charge of Construction
Jacksonville, North Carolina Area
Building 1005, Marine Corps Base
Camp Lejeune, North Carolina 28542

6. ADMINISTERED BY (If other than block 5) — CODE

7. CONTRACTOR NAME AND ADDRESS — CODE — FACILITY CODE
(Street, city, county, state, and ZIP Code)

8. [XX] AMENDMENT OF SOLICITATION NO. N62470-81-B-3561
DATED NOT YET ISSUED (See block 9)
[ ] MODIFICATION OF CONTRACT/ORDER NO. _____
DATED _____ (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

[XX] The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers [ ] is extended, [XX] is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10. ACCOUNTING AND APPROPRIATION DATA (If required)

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) [ ] This Change Order is issued pursuant to _____
The Changes set forth in block 12 are made to the above numbered contract/order.

(b) [ ] The above numbered contract/order is modified to reflect the administrative changes (such as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) [ ] This Supplemental Agreement is entered into pursuant to authority of _____
It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

REPAIR AND PAINT ELEVATED WATER TANKS AND TOWER
at the
Marine Corps Air Station (Helicopter), New River
and
Marine Corps Base, Camp Lejeune, North Carolina

CONTENTS. At the bottom of the list add: "09930 Sandblasting & Painting in Valve Pits".

GENERAL. All instructions of which tank is to receive which types of work are deleted throughout the Specification and superseded by the following new paragraph which shall be inserted in Section 01011, General Paragraphs.

"19. Tanks shall receive the following work:

(Continued on next page)

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. [ ] CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT [ ] CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN _____ COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR
BY _____ (Signature of person authorized to sign)

17. UNITED STATES OF AMERICA
M. L. Ennett
BY M. L. ENNETT (Signature of Contracting Officer)
By direction

15. NAME AND TITLE OF SIGNER (Type or print)

16. DATE SIGNED

18. NAME OF CONTRACTING OFFICER (Type or print)
R. E. CARLSON, CDR,CEC,USN
for COMNAVFACENGCOM

19. DATE SIGNED
21 May 81

U.S. GOVERNMENT PRINTING OFFICE: 1974 O—554-534

NUMBER	INTERIOR REPAIR SANDBLAST AND PAINT	SANDBLAST AND PAINT EXTERIOR	SANDBLAST AND PAINT VALVE PITS	REPLACE VALVES
S-BB-25	X	X		X
AS-310	X		X	
AS-4130	X		X	
S-RR-44	X	X		X
S-TC-1070	X			X
S-TC-606	X			X
S-FC-314	X		X	
S-29	X		X	X
S-1000	X		X	X
S-5	X		X	X
S-2323	X		X	X
S-LCH-4004	X		X	X
S-M-624	X			
S-TT-40	X			X
S-830	X		X	

The above table will not alter the work on the Training Tower S-M-262."

SECTION 01011. GENERAL REQUIREMENTS

2. GENERAL DESCRIPTION: First line, change to read, "The work includes interior and exterior cleaning and..."

Line 9, delete the word "exterior".

6.2 PLATES ACCOMPANYING SPECIFICATION.

Change PLATE NO. 1 to the FACILITY NO. list and to the list of facilities on Plate No. 1 itself, add "BB-25".

Add: "PLATE NO. 9 - S-M-624 - 150,000 Gal - Montford Point" to the list of plates. The new plate is enclosed herewith.

SECTION 05530. TANK REPAIR AND VALVE REPLACEMENT

Page 05530-2. Change "Blow-off Valve" to "Drain Valve" in the plate title. Delete "New blow-off valves..." including the list of tank numbers as Section 01011, paragraph 19, provides the amended list.

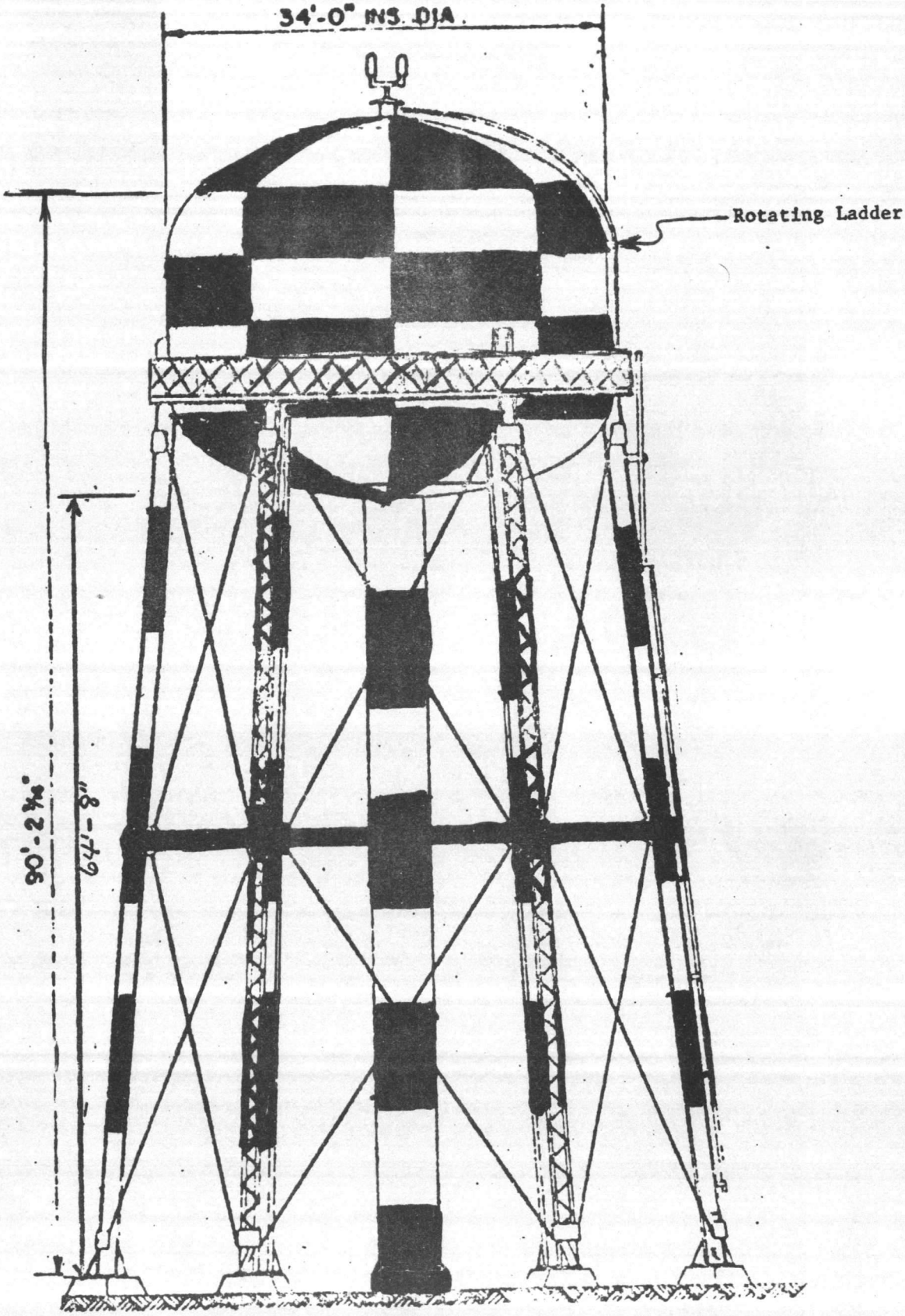
SECTION 09910. EXTERIOR PAINTING

2. GENERAL REQUIREMENTS: Line 2, after "SM-262" insert "and the specified water tanks".

4. PREPARATION OF SURFACES: Line 4, delete "tower".

6.1 Prime Coating: Line 3, change "tank" to read "structure".

6.2 Finish Coats: At the end of the paragraph delete "on drawing".



150,000 gallon water tank
S-M-624 Camp Johnson, Montford Point

Ammendment #3-Page 3
05-81-3561
PLATE NO. 9

NOTICE:

Bids to be opened at 2:00 P.M.
18 JUN 1981 in the office of
Officer in Charge of Construction
Jacksonville, North Carolina Area
Building 1005, Marine Corps Base
Camp Lejeune, North Carolina 28542

NAVFAC
SPECIFICATION
NO. 05-81-3562

REPAIR AND PAINT ELEVATED WATER TANKS AND TOWER

at the

Marine Corps Air Station (Helicopter), New River
Jacksonville, North Carolina

and

Marine Corps Base, Camp Lejeune, North Carolina

DESIGN BY: Design Division, Public Works
Marine Corps Base, Camp Lejeune, North Carolina

SPECIFICATION
PREPARED BY: D. D. Weaver, Engineering Technician

APPROVED BY: J. H. Fitch, P.E., Manager
Specifications and Estimates Branch
Design Division, Public Works
Marine Corps Base, Camp Lejeune, North Carolina

G. N. Sniffin, Lieutenant Commander, CEC, U. S. Navy
Acting Director, Design Division, Public Works
Marine Corps Base, Camp Lejeune, North Carolina

R. E. Carlson, Commander, CEC, U. S. Navy
for Commander, Naval Facilities Engineering Command

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SECTION 00101. BIDDING INFORMATION

1. CONTENTS: This Invitation for Bids, IFB NO. N62470-81-B-3562, consists of the following documents:

(a) Bid Instruction Documents

(i) Invitation for Bids (Standard Form 20, Jan 1961 Ed.)
(ii) Bidding Information
(iii) Instructions to Bidders, dated March 1979

(b) Bid Submittal Documents

(i) Bid Form (Standard Form 21, December 1965 Ed.)
(ii) Representations and Certifications, Standard Form 19-B, June 1976 Ed. (REV 1980 AUG), including Appendix "A", dated August 1980
(iii) Bid Guaranty (Standard Form 24, June 1964 Ed.) (See Instructions to Bidders)

(c) Contract Documents

(i) Construction Contract (Standard Form 23, Jan 1961 Ed.)
(ii) Performance Bond (Standard Form 25, June 1967 Ed.)
(iii) Payment Bond (Standard Form 25A, June 1964 Ed.)
(iv) Labor Standards Provisions, dated November 1979
(v) General Provisions dated Nov 1979 (REV. 8-80)
(vi) NAVFAC Specification No. 05-81-3562
(vii) Drawings and Plates identified in Section 01011, Division 1 of the specifications
(viii) Wage Determination Decision for Building Construction, No. NC81-1181

2. BIDS:

2.1 Instruction to Bidders: Instructions to Bidders and Invitation for Bids, Standard Form 20, January 1961 edition, shall be observed in the preparation of bids. Bidders shall affix their names and return addresses in the upper left corner of bid envelope. Envelopes containing bids must be sealed.

2.2 Bid Guaranty: A bid guaranty will be required as stipulated in the Instructions to Bidders.

2.3 Items of Bids: Bids shall be submitted, in duplicate, on Standard Form 21, Bid Form, and shall be accompanied by Standard Form 19B, Representations and Certifications, with Appendix "A" and by Bid Guaranty, all in accordance with the Bid Instruction Documents listed in paragraph 1(a) hereinbefore upon the following item(s):

BASE BID: Price for the entire work, complete in accordance with the drawings and specifications.

2.4 TELEGRAPHIC MODIFICATIONS OF BIDS in accordance with the instructions to Bidders may be made. Two signed copies of the telegram in a sealed envelope marked "Copies of telegraphic modification of bid for "REPAIR AND PAINT ELEVATED WATER TANKS AND TOWER, Specification No. 05-81-3562," should be forwarded immediately to the office to which the written bids were submitted.

2.5 TELEGRAPHIC MODIFICATIONS OR WITHDRAWAL OF BIDS will be considered as specified herein. TELEPHONIC RECEIPT OF TELEGRAPHIC MODIFICATIONS OR WITHDRAWAL OF BIDS WILL NOT QUALIFY THE TELEGRAM AS TIMELY. The telegram must be received at the place specified for receipt of bids prior to the exact time set for receipt of bids.

2.6 HAND DELIVERED BIDS: All hand delivered bids must be deposited with personnel in the Contract Division, Room No. 26, Building 1005, Marine Corps Base, Camp Lejeune, North Carolina 28542, prior to the time and date set for bid opening. Any bids submitted by hand after the time set for receipt will not be accepted.

3. PRE-BID SITE VISITATION: To inspect the site of the work prior to bid opening, prior appointment must be made with the Officer in Charge of Construction, Jacksonville, North Carolina Area, telephone 919-451-2581. Bidders are urged and expected to inspect the site where services are to be performed and to satisfy themselves as to all general and local conditions that may affect the cost of performance of the contract to the extent such information is reasonably obtainable. In no event will a failure to inspect the site constitute grounds for withdrawal of a bid after opening or for a claim after award of the contract.

4. CONTROLLED MATERIALS DATA: The Contracting Officer will issue a DO-C2 priority rating for procurement of critical materials. See General Provision 46, "PRIORITIES, ALLOCATIONS AND ALLOTMENTS".

5. INQUIRIES: Questions regarding the plans and specifications occurring prior to bid opening shall be presented to the Public Works Design Division, Building 1005, Marine Corps Base, Camp Lejeune, North Carolina, 28542, telephone 919-451-5507. Questions requiring interpretation of drawings and specifications must be submitted at least 10 days before bid opening. Interpretations or modifications to specifications made as a result of questions will be made by amendment only, and unless so done, all bidders should base their bids on the plans and specifications as issued. All questions concerning the bidding procedures shall be presented to OICC-ROICC Contract Division, Building 1005, Marine Corps Base, Camp Lejeune, North Carolina, telephone 919-451-2581.

6. AVAILABILITY OF SPECIFICATIONS, STANDARDS AND DESCRIPTIONS (1977 JUN): Specifications, standards and descriptions cited in this solicitation are available as indicated below:

a. Unclassified Federal, Military and Other Specifications and Standards (Excluding Commercial), and Data Item Descriptions: Submit request on DD Form 1425 (Specifications and Standards Requisition) to:

Commanding Officer
U. S. Naval Publications and Forms Center
5801 Tabor Avenue, Philadelphia, Pennsylvania 19120

The Acquisition Management Systems and Data Requirements Control List: DOD Directive 5000.19L, Volume II, may be ordered on the DD Form 1425. The Department of Defense Index of Specifications and Standards (DODISS) may be purchased from the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C. 20402. When requesting a specification or standard, the request shall indicate the title, number, date and any applicable amendment thereto by number and date. When requesting a data item description, the request shall cite the solicitation. When DD Form 1425 is not available, the request may be submitted in letter form, giving the same information as listed above, and the solicitation or contract number involved. Such request may also be made to the activity by TELEX No. 834295, Western Union No. 710-670-1685, or telephone 215-697-3321 in case of urgency.

b. Commercial Specifications, Standards and Descriptions: These specifications, standards and descriptions are not available from Government sources. They may be obtained from the publishers.

c. Availability for Examination of Specifications, Standards, Plans, Drawings, and Other Pertinent Documents: The specifications, standards, plans, drawings, and other pertinent documents cited in this solicitation may be examined at the following location:

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

7. RECOVERED MATERIAL: The Contractor certifies by signing this bid/proposal/quotation that recovered materials as defined in DAR 1-2500.4 will be used as required by the applicable specifications.

8. REFERENCE TO AMENDMENTS: Each bidder shall refer in his bid to all amendments to this specification; failure to do so may constitute an informality in the bid.

9. CERTIFICATE OF CURRENT COST OR PRICING DATA: (This paragraph applies to negotiated contracts of $100,000 or more, except where the price is based on adequate competition, and to change orders of $100,000 or more, to any contract.) The Contractor shall submit to the Contracting Officer a certificate in the form set forth below as soon as practicable after agreement is reached on the contract price:

This is to certify that, to the best of my knowledge and belief, cost or pricing data as defined in DAR 3-807.1(a)(1) submitted, either actually or by specific identification in writing (see DAR 3-807.3(a)) to the Contracting Officer or his representative in support of _____* are accurate, complete, and current as of _____**
day month year

This certification includes the cost or pricing data supporting any advance agreement(s) and forward pricing rate agreements between the offeror and the Government which are part of the proposal.

Firm _____
Name _____
Title _____

_____***
Date of Execution

*Describe the proposal, quotation, request for price adjustment or other submission involved, giving appropriate identifying number (e.g. RFP No. _____).

**The effective date shall be the date when price negotiations were concluded and the contract price was agreed to. The responsibility of the Contractor is not limited by the personal knowledge of the Contractor's negotiator if the Contractor had information reasonably available at the time of agreement, showing that the negotiated price is not based on accurate, complete and current data.

***This date should be as close as practicable to the date when the price negotiations were concluded and the contract price was agreed to.

DIVISION 1. GENERAL REQUIREMENTS

SECTION 01011. GENERAL PARAGRAPHS

1. GENERAL INTENTION: It is the declared and acknowledged intention and meaning to provide and secure the painting and repairing of water storage tanks and a training tower, complete and ready for use.

2. GENERAL DESCRIPTION: The work includes interior cleaning and repainting of elevated water storage tanks, exterior painting of a training tower, minor repairs, sandblasting and painting in valve pits, and other incidental related work.

3. LOCATION: The work shall be located at the Marine Corps Air Station (Helicopter), New River, Jacksonville, North Carolina and at the Marine Corps Base, Camp Lejeune, North Carolina, approximately as shown. The exact location will be indicated by the Contracting Officer. "Officer in Charge of Construction (OICC)" and "Contracting Officer" are used interchangeably in this specification and have the same meaning.

4. COMMENCEMENT, PROSECUTION AND COMPLETION OF WORK: The Contractor will be required to commence work under the contract 15 calendar days after the date of receipt of Notice of Award, to prosecute said work diligently, and to complete the entire work ready for use within 180 calendar days. The time stated for completion shall include final cleanup of the premises. The contract completion date will be computed starting 15 calendar days after the date of the Notice of Award. This 15-day period is to allow for mailing of the Notice of Award and the Contractor's submission of required bonds. The exterior painting work will not be allowed 15 December through 15 March. Periods of time when work is prohibited by this document will not be included in calculating the completion date.

5. LIQUIDATED DAMAGES: In case of failure on the part of the Contractor to complete the work within the time fixed in the contract or any extensions thereof, the Contractor shall pay to the Government as liquidated damages pursuant to Clause 5, "Termination for Default - Damages for Delay - Time Extensions", and Clause 77 "Damages for Delay - Defense Materials System and Priorities" of the General Provisions the sum of $35 for each day of delay.

6. DRAWINGS:

6.1 DRAWINGS ACCOMPANYING SPECIFICATION: The following drawings accompany this specification and are a part thereof. Drawings are the property of the Government and shall not be used for any purpose other than that contemplated by the specification:

NAVFAC DWG. NO.	SHEET NO.	TITLE
4049437	1	Location and Vicinity
4049438	2	Training Tower Details

6.2 PLATES ACCOMPANYING SPECIFICATION: The following plates accompany this specification and are a part thereof. The plates are the property of the Government and shall not be used for any purpose other than that contemplated by the specification.

PLATE NO.	FACILITY NO.	SIZE IN GALLONS	LOCATION
1	S-RR-44	100,000	Rifle Range Area
2	S-5, S-29, S-1000	300,000	Hadnot Point Area
3	S-FC-314	300,000	French Creek Area
4	S-2323, LCH-4004	200,000	Paradise Point/Midway Park Areas
5	S-TT-40	250,000	Tarawa Terrace II Area
6	S-830	300,000	Berkeley Manor Area
7	S-AS-310, S-AS-4130	350,000	MCAS(H), New River Area
8	Typical Obstruction Painting		
Page 05530 - 2	S-5, S-1000, S-29, S-2323, S-830, SLCH-4004, STT-40		Elevation; Blow-Off Valve; Detail No. 1

7. FACTORY INSPECTION: (See Clause 10 of General Provisions) Factory inspection of material and equipment for which tests at the place of manufacture are required in referenced specifications will be waived if notarized copies of factory reports are furnished that show compliance with the specification requirements. Factory inspection will be required only where specified herein or in the technical sections of this specification. The Government reserves the right to charge to the Contractor any additional cost of Government inspection and tests when materials and equipment are not ready at the time inspection and tests are requested by the Contractor.

8. DATA REQUIRED OF THE CONTRACTOR: In accordance with the General Provisions, the Contractor shall submit for approval of the Contracting Officer manufacturer's data, including instructions for application, as may be required for valves, paint and painting materials. Approval must be received prior to fabrication or installation of any of this work.

9. CERTIFICATE OF COMPLIANCE: The Contractor shall furnish manufacturer's Certificate of Compliance for paint and painting materials which are required to be tested or conform to Federal, Military or other nationally recognized specifications.

10. NORTH CAROLINA SALES AND USE TAX IS REQUIRED. (See also section entitled "Additional General Paragraphs").

11. SCHEDULING THE WORK: Notwithstanding the requirements of Clause 81 of the General Provisions, immediately after award, the Contractor shall meet with the Contracting Officer and present a schedule of work, prepared in accordance with Clauses 59 and 81 for review by the Contracting Officer. The schedule will be reviewed at this meeting and will be retained by the Contracting Officer for final review and approval.

The buildings near the construction sites will be occupied. The Contractor shall take all necessary precautions for protection of occupants and private and public property. Materials and equipment shall be stored in an orderly manner when not in use. One tank in each area, not to exceed two tanks total, will be made available to the Contractor. Work on the training tower will not count in the total allotment. The Government will drain the tank just before the Contractor begins work. The hours of Contracting Officer personnel are 7:45 A.M. to 4:15 P.M., Monday through Friday.

12. GOVERNMENT WORK AND MATERIALS:

12.1 The Government will furnish water and electricity from the nearest standard outlets at no cost to the Contractor for pursuance of the work under this contract.

12.2 If spray painting is desired, written notification shall be delivered to the Contracting Officer at least two days prior to painting the tank(s), and no painting shall be started until written approval is received. If removal of traffic and/or parking is desired, this shall be included in the notification. The Government will remove traffic from nearby streets and parking lots while spraying is in progress.

13. 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 examined at the office of the Contracting Officer or be ordered from the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C. 20402.

b. Department of the Army, Corps of Engineers, "General Safety Requirements", which may be examined at the office where bids are being received or may be purchased from the Superintendent of Documents, U. S. Government Printing Office, Stock No. 008-022-00106-9.

c. General Provisions, Clause 43.

14. SPECIAL CONDITIONS: All tanks have obstruction lights at the catwalk and top level and have switch boxes and wiring for cathodic protection system. The Contractor shall take all necessary precautions while accomplishing the work to prevent damage to or interference with the operation of these facilities and shall be responsible for the re-establishment of the system as specified in Section 09920.

15. WRITTEN GUARANTEES AND GUARANTOR'S LOCAL REPRESENTATIVE: Prior to completion of the contract, the Contractor shall obtain and furnish to the Contracting Officer's designated representative, written guarantees for all equipment and/or appliances furnished under the contract. The Contractor shall furnish with each guarantee the name, address, and telephone number of the guarantor's representative nearest to the location where the equipment and/or appliances are installed, who, upon request of the using service's representative, will honor the guarantee during the guaranty period and will provide the services prescribed by the terms of the guarantee.

16. TRAILER OR STORAGE BUILDINGS will be permitted on the job site, 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 from the job site.

17. SCHEDULE OF PRICES: The original and seven copies of the schedule of prices shall be submitted to the Contracting Officer for approval in accordance with Clause 82 of the General Provisions. Pursuant to Clause 7 of the General Provisions, payments will not be made until the schedule of prices has been submitted and approved.

18. CONTRACTOR'S INVOICE AND CONTRACT PERFORMANCE STATEMENT: Requests for payment in accordance with the terms of the contract shall consist of:

a. Contractor's Invoice on Form NAVFAC 10-7300/30 (4-68), which shall show, in summary form, the basis for arriving at the amount of the invoice

b. Contractor's Monthly Estimate for Voucher (5ND GEN 5265/1)

c. Affidavit to Accompany Invoice (5ND LANTDIV 4-4235/4) (Rev 1/68)

Forms will be furnished by the Contracting Officer. Monthly invoices and supporting forms for work performed through the 15th of the month shall be submitted to the Officer in Charge of Construction by the 20th of the month in the following quantities:

a. Contractor's Invoice - Original and five copies

b. Contractor's Monthly Estimate for Voucher - Original and two copies

c. Affidavit - Original

SECTION 01012. ADDITIONAL GENERAL PARAGRAPHS

1. 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.

2. OPERATION OF STATION UTILITIES: The Contractor shall not operate nor disturb the setting of any control devices in the station utilities system, including water, sewer, electrical and steam services. The Government will operate the control devices as required for normal conduct of the work. The Contractor shall notify the Contracting Officer giving reasonable advance notice when such operation is required.

3. CHANGED CONDITIONS: Wherever changed conditions as defined in Clause 4 of the General Provisions are encountered, and whenever conditions exposed during the course of the work necessitate a change from quantities indicated or specified as either estimated quantities or as a basis for bids, whether or not provision for a change in price for such variation is specified, the Contracting Officer must be notified in writing and written directions to do so must be obtained before quantities stated in the contract documents are exceeded.

4. SUBCONTRACTORS AND PERSONNEL: Promptly after the award of the contract, the Contractor shall submit to the Contracting Officer in triplicate, a list of his subcontractors and the work each is to perform. On this form shall appear the names of the key personnel of the Contractor and subcontractors, together with their home addresses and telephone numbers, for use in event of any emergency. From time to time as changes occur and additional information becomes available, the Contractor shall amplify, correct, and change the information contained in previous lists.

5. AS-BUILT DRAWINGS: During the progress of the work, one full-size print of each of the drawings accompanying this specification shall be neatly and clearly marked in red to show all variations between the construction actually provided and that indicated or specified in the contract documents. The as-built drawings shall be kept up-to-date at the work site at all times during the contract, and shall be available for inspection by the Contracting Officer upon request. The Contractor shall also mark th [illegible] of any underground utilit [illegible] ork. Where a choice of material [illegible] where variations in the scope or ch [illegible] l are permitted either by award or [illegible] or by subsequent change to the cont [illegible] the construction actually provided. The representation of such variations shall conform to standard drafting practice and shall include such supplementary notes, legends, and details as may be necessary for legibility and clear portrayal of the as-built construction; the marked prints shall be subject to approval of the Contracting Officer before acceptance. Upon completion of the work, the completed as-built drawings shall be presented to the Contracting Officer.

THIS PARAGRAPH NOT USED

6. PRINTS FURNISHED TO CONTRACTOR: Six copies of the project specification, and six sets of the drawings accompanying the specification, will be furnished the Contractor. Additional sets of the specifications and drawings can be obtained, if required, by application to the Contracting Officer, providing that the need therefor is justified to the satisfaction of the Contracting Officer.

7. 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 Clause 4 of the General Provisions. The Base Telephone Officer, phone 451-2531, will show the Contractor approximate locations of all buried telephone cables after receiving 10 days' notice. The locations of underground utilities shown is only approximate and the information is incomplete.

8. QUARANTINE FOR IMPORTED FIRE ANT (7/76). All of Onslow, Jones and Carteret 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. Pertinent requirements of the quarantine for materials, originating on the Camp Lejeune reservation and the Marine Corps Air Station (Helicopter), New River, which are to be

transported outside the Onslow County or adjacent suppression areas include the following:

(a) 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 issured by an authorized imported fire ant inspector:

(1) Bulk soil,

(2) Used mechanized soil-moving equipment.

(3) Any other products, articles, or means of conveyance 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.

(b) Authorization for movement of equipment shall be obtained from the Officer in Charge of Construction (OICC), 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 directed.

9. EMERGENCY MEDICAL CARE. Only emergency medical care is available by Government facilities at Marine Corps Base, Camp Lejeune to 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 will be made by the Contractor to the Naval Regional Medical Center Collection Agent upon receipt of a monthly statement.

10. NORTH CAROLINA SALES AND USE TAX.

(a) As used throughtout this clause, the term "materials" means building materials, supplies, fixtures and equipment which become a part of or are annexed to any building or structure erected, altered, or repaired under this contract.

(b) If this is a fixed-price type contract as defined in the Armed Services Procurement Regulation, the contract price includes North Carolina sales and use taxes to be paid with respect to materials, notwithstanding any other provision of this contract. If this is a cost-reimbursement type contract as defined in such regulation, any North Carolina sales and use taxes paid by the Contractor with respect to materials shall constitute an allowable cost under this contract.

(c) At the time specified in paragraph (d) below:

(i) The Contractor shall furnish the Contracting Officer a certified statement setting forth the cost of the materials purchased from each vendor and the amount of North Carolian sales and use taxes

paid thereon. In the event the Contractor makes several purchases from the same vendor, such certified statement shall indicate the invoice numbers, the inclusive dates of the invoices, the total amount of the invoices, and the North Carolina sales and use taxes paid thereon. Such statement shall also include the cost of any tangible personal property withdrawn from the Contractor's warehouse stock and the amount of North Carolina sales or use tax paid thereon by the Contractor. The Contractor shall furnish such additional information as the Commissioner of Revenue of the State of North Carolina may require to substantiate a refund claim for sales or use taxes.

(ii) The Contractor shall obtain and furnish to the Contracting Officer similar certified statements by its subcontractors.

(d) If this contract is completed before the next October 1, the certified statements to be furnished pursuant to paragraph (c) above shall be submitted within 60 days after completion. If this contract is not completed before the next October 1, such certified statements shall be submitted on or before the 30th day of November of each year and shall cover taxes paid during the twelve-month period which ended the preceding September 30.

(e) The certified statement to be furnished pursuant to paragraph (c) above shall be in the following form:

I hereby certify that during the period _____ to _____, (name of Contractor or subcontractor) paid North Carolina sales and use taxes aggregating $_____ with respect to building materials, supplies, fixtures and equipment which have become a part of or annexed to a building or structure erected, altered or repaired by (name of Contractor) for the United States of America, and that the vendors from whom the property was purchased, the dates and numbers of invoices covering the purchases, the total amount of the invoices of each vendor, the North Carolina sales and use taxes paid thereon, and the cost of property withdrawn from warehouse stock and North Carolina sales or use taxes paid thereon are as set forth in the attachments hereto.

SECTION 01401. QUALITY CONTROL

1. APPLICABLE PUBLICATION: The following publication of the issue listed below, but referred to thereafter by basic designation only, forms a part of this specification to the extent indicated by the references thereto:

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM):

ASTM E329-72 Inspection and Testing Agencies for Concrete, Steel, and Bituminous Materials as Used in Construction

2. QUALITY CONTROL of this contract will be administered under the General Provisions Clause entitled "Contractor Inspection System".

3. DEFINITIONS:

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.

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

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

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.

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.

3.6 Certified Test Reports: Reports of tests signed by a qualified professional attesting that the test 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.

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

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

4. SUBMITTALS shall be prepared in accordance with this specification and the General Provisions and submitted to the Contracting Officer for approval. Each submittal shall be accompanied with a cover letter signed by the Contractor. Each item proposed to be incorporated into the contract shall be clearly marked and identified in the submittals, and shall be cross-referenced to the contract drawings and specifications so as to identify clearly the use for which it is intended. Each sheet of submittal shall be stamped 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)(materials) 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.

4.1 Submittal Status Logs: The Contractor shall maintain at the job site an up-to-date submittal status log showing the status of all submittals required by the contract. 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.

4.2 Samples, shop drawings, manufacturer's data, certifications and data required of the Contractor: Specification MIL-D-1000 shall be used as a guide and its use is encouraged, for all drawings and data submitted by the Contractor. Conformance to the provisions of Specification MIL-D-1000 is not mandatory for maps, sketches, presentation drawings, perspectives, renderings, and all other drawings not requiring Naval Facilities Engineering Command drawing numbers. Before starting the fabrication or installation of any of this work, the Contractor shall submit to the Contracting Officer for, and receive approval of, in accordance with the General Provisions, such drawings as may be required, including all items specified in the applicable paragraphs of the technical sections of this specification. Seven copies of all submittals to be approved by the Contracting Officer shall be forwarded.

4.3 Identification: All catalog cuts, shop drawings, samples and other data submitted for approval shall specifically identify the specification paragraph or contract drawing by number where each item submitted is required to be provided. All submittals shall be clearly marked in

ink to indicate the specific item(s) submitted for approval. Samples shall be clearly labeled with strong tags, firmly affixed, or indelible markings to identify the contract number, contractor, manufacturer, and item name.

4.4 Certified Test Reports: Before delivery of materials and equipment, four certified copies of the reports of all tests listed in the technical sections and referenced publications 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 three years of submittal of the reports for approval. Test reports shall be accompanied by 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.

4.5 Manufacturer's Certificates of Conformance or Compliance: Manufacturer's certification furnished by the Contractor on items of materials and equipment incorporated into the work will be accepted only when this method will assure full compliance with the provisions of the contract, as determined by the Contracting Officer. Preprinted 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 reports upon which the certifications are based. All certificates shall be signed by the manufacturer's official authorized to sign certificates of conformance or compliance.

4.6 Laboratory 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 the 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.

4.7 Tabulation of Tests: In addition to the General Provisions requiremtns for CQC test reports, 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, including conforming or nonconforming, and repeated test results. 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.

5. QUALITY CONTROL REQUIREMENTS: In accordance with the General Provisions Clause entitled "Contractor Inspection System", the Contractor shall inspect and test all work under the contract and maintain records of the inspections and tests. 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.

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

5.2 Factory Inspection: Unless otherwise specified, the Contractor will arrange for factory inspection when required under the contract.

5.3 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.

5.5 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:

a. Testing laboratories performing work in connection with concrete, steel, and bituminous materials shall comply with ASTM E329, except that the Contracting Officer will perform the function of paragraphs 3.4 and 3.5 therein in the absence of other Government approval.

b. Testing laboratories performing work not in connection with concrete, steel, or bituminous materials shall comply with sections 3 and 4 of ASTM E329, except that the Contracting Officer will perform the functions of paragraphs 3.4 and 3.5 therein in the absence of other Government approval.

5.6 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.

5.7 Daily Report to Inspector: The Daily Report to the Inspector Form NAVFAC 4330/34 shall be submitted to the Contracting Officer by 10:00 A.M. on the working day following the day the work was performed.

SUBMITTAL STATUS LOG

"SEE INSTRUCTIONS ON REVERSE BEFORE FILLING IN"

PAGE _____ OF _____

CONTRACT NUMBER

SHORT TITLE

LOCATION

CONTRACTOR

SUBMITT'L/ TRANSMITT'L NO.	DESCRIPTION OF ITEMS	SPECIFICATION SECTION REQUIRING SUBMITTAL	SUBMITTAL REQUIRES					CONTRACTOR APPV'D	GOV'T APPROVED	CONTRACTOR ACTION		DATE FORWARDED FROM ROICC	ROICC ACTION		DATE			REMARKS
			SHOP DWGS.	CATALOG DATA	SAMPLE	CERTIFI-CATION	TEST DATA			INSERT ACTION CODE	DATE OF ACTION		INSERT ACTION CODE	DATE OF ACTION	RECEIVED FROM ROICC	MAT'L/EQUIP RECEIVED ON SITE	APPROVED BY CONTRACTOR	
(a)	(b)	(c)	(d)					(e)		(f)		(g)	(h)		(i)	(j)	(k)	

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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. Colums (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 those instances where the contractor has approved the submittal under his contract responsibility, there may be a dual Action Code under column (f); e.g., "A/E", indicating approved as submitted and forwarded to the ROICC for record purposes.

5. 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., gov't approval required; waiver requested because of variance, substitution, etc.

6. Where no government action is required, (for contractor review/approval items), there need be no entry in columns (h) and (i).

7. 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

B - Approved as noted

C - Disapproved

D - Forwarded to ROICC for action

E - Forwarded to ROICC for record purposes

SECTION 01501. ENVIRONMENTAL PROTECTION

1. ENVIRONMENTAL PROTECTION PLAN: The Contractor may be responsible for the preparation and submission of an Environmental Protection Plan. If requested, 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 Enviornmental Protection Plan.

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.

3. CONTROL AND DISPOSAL OF WASTES: All waste, 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 any other areas. The Contractor shall transport all such waste and dispose of it in the Base Sanitary Landfill, unless otherwise approved. 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. Rubble such as masonry, stone, concrete without reinforcing steel, and brick shall be deposited as directed. Upon completion, the work and disposal areas shall be left clean and natural looking. All signs of temporary construction and activities incidental to the construction of the required permanent work in place shall be obliterated.

DIVISION 2. DETAILED REQUIREMENTS

SECTION 02100. Removal, Cutting and Patching

1. GENERAL REQUIREMENTS: The work includes the removal of all construction necessary to accomplish the work under this contract.

2. REMOVAL: All debris shall be removed from the site upon completion of the work at each site. Trash and rubbish shall not be allowed to accumulate at the site.

3. PROTECTION OF MATERIALS AND WORK: Before beginning any cutting, the Contractor shall carefully survey the existing work and examine the plates and specification to determine the extent of the work. The Contractor shall take all necessary precautions to insure against damage to existing work to remain in place or to be reused. Any damage to such work shall be repaird or replaced, as approved, at no additional cost to the Government.

4. CUTTING shall be along straight lines. The amount cut out shall be the minimum necessary to accommodate the new work. Flame cutting will be permitted. Extreme care shall be exercised to avoid damage to the existing structural members.

5. THE CONTRACTOR shall provide any temporary bracing, shoring, or ties required to maintain structural integrity while the work is in progress.

SECTION 05520. TOWER REPAIRS - PIPE RAILS AND MISCELLANEOUS METALS

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 basic designation only.

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM):

A6-79b	Rolled Steel Plates, Shapes, Sheet Piling, and Bars for Structural Use
A36-77a	Structural Steel
A120-79	Pipe, Steel, Black and Hot-Dipped Zinc-Coated (Galvanized) Welded and Seamless, for Ordinary Use

AMERICAN WELDING SOCIETY (AWS):

D1.1-80	Structural Welding Code

2. GENERAL: Existing railings, tie rods and snubbing tower shall be removed in accordance with Section 02100. New railings, tie rods and snubbing tower will be provided along with incidental related work.

3. SHOP DRAWINGS of the railings, tie rods and snubbing tower shall be submitted and approved before any materials are delivered to the job.

4. MATERIALS:

4.1 Pipe shall be ASTM A120 black steel.

4.2 Tie Rods shall conform to ASTM A6.

4.3 Steel Plate shall conform to ASTM A36.

5. INSTALLATION: All welding shall be done by qualified personnel. Welding shall be in accordance with AWS D1.1. Bearing plates or other modifications required to assure structural stability and anchorage of rails and snubbing tower shall be provided as required or as directed by the Contracting Officer.

6. PAINTING: Following installation of work, all steel members shall be cleaned and painted as specified in Section 09910.

SECTION 05530. TANK REPAIR AND VALVE REPLACEMENT

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 basic designation only. Where a number in parenthesis is suffixed to the specification number, it denotes the effective amendment thereto.

FEDERAL SPECIFICATIONS

WW-V-54D(3) Valve Gate, Bronze, 125, 150 and 200 Pound, Threaded Ends, Flange Ends, Solder Ends, and Brazed Ends, For Land Use

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM):

A129-78 Pipe, Steel, Black and Hot-Dipped Zinc-Coated (Galvanized), Welded and Seamless, for Ordinary Uses

AMERICAN WELDING SOCIETY (AWS):

D1.1-80 Structural Steel Welding Code

2. GENERAL REQUIREMENTS: The work includes making repairs to ladders, access hatches, grilles over risers, welding up of pitted places and providing drain valves on indicated tanks. Any unscheduled repairs shall be compensated under the changed conditions clause of the General Provisions.

3. MATERIALS:

3.1 Gate Valve shall be bronze 150 psi conforming to WW-V-54, with removable handle.

3.2 Pipe shall be A120, Schedule 40.

3.3 Fire Hose coupling shall be cast brass.

4. WORKMANSHIP:

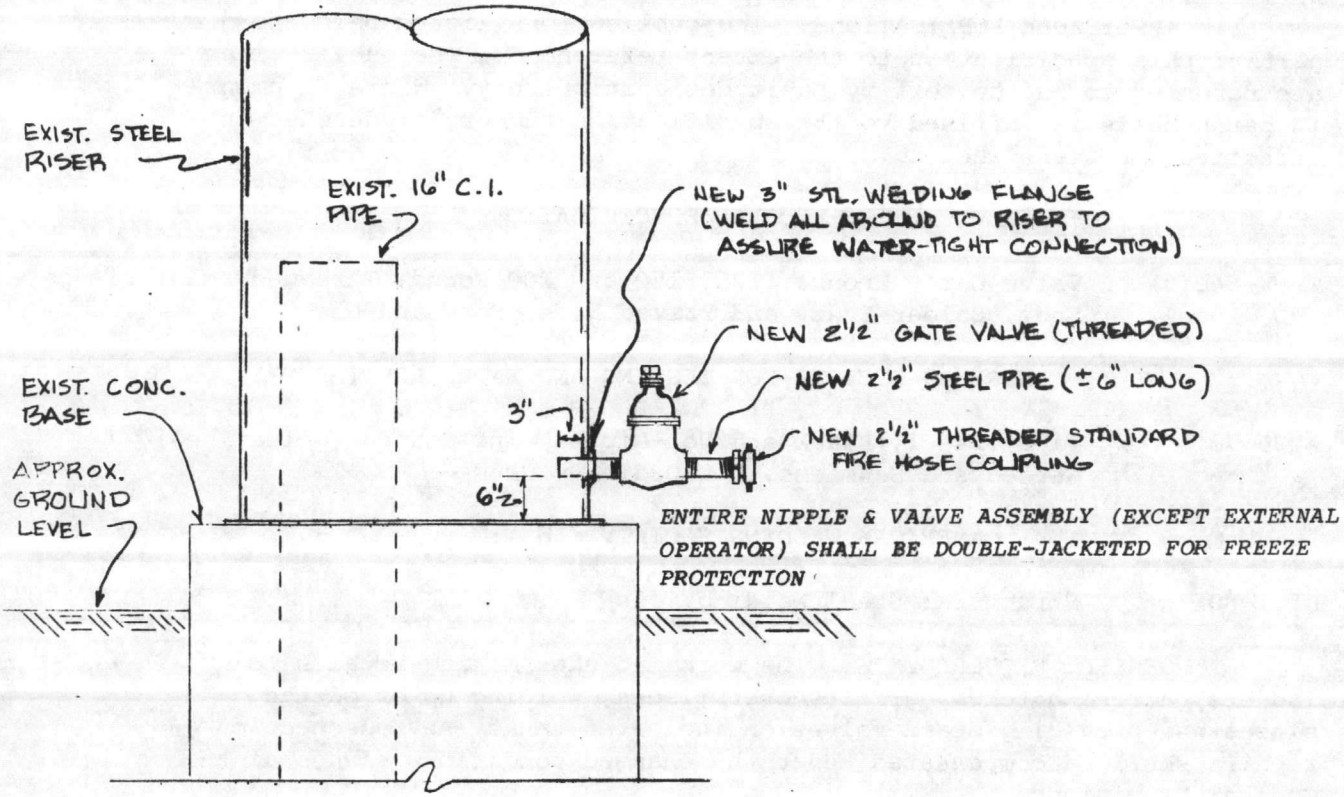
4.1 Following sandblasting of interior surfaces, the Contractor shall inspect all surfaces and repair all pitted area 1/8 to 3/16-inch in depth by fillet welding and grinding smooth. Pits exceeding 3/16-inch shall be covered by a plate, welded and ground smooth.

4.2 Interior Ladders, grates, manhole covers and related items shall be restored to a like-new condition.

4.3 Drain Valves shall be installed where scheduled in accordance with the attached Detail No. 1.

4.4 All welding shall be in accordance with AWS D1.1 and all welders shall be certified.

5. FINISHES: All welds shall be ground smooth and painted as specified in Section 09920.



ELEVATION
BLOW-OFF VALVE

SCALE ½" = 1'-0"

NEW BLOW OFF VALVES (2½" GATE VALVES) + APPURTENANCES SHALL BE INSTALLED ON THE FOLLOWING ELEVATED WATER TANKS –

S5
S1000
S29
S2323 — S-BB-25
S830 — S-BB-25
SLCH 4004
STT 40

ASK FOR CHANGE SHOWN ABOVE AT PRE. CON. MEETING

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SECTION 09910. EXTERIOR PAINTING

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 basic designation only. Where a number in parenthesis is suffixed to the specification number, it denotes the effective amendment thereto.

FEDERAL SPECIICATIONS AND STANDARDS:

TT-489F(1)	Enamel, Alkyd, Gloss (for Exterior and Interior Surfaces)
TT-P-86G	Paint, Red-Lead-Base, Ready-Mixed
TT-P-645A	Primer, Paint, Zinc-Chromate, Alkyd Type
FED-STD-595A(1)	Colors

STEEL STRUCTURES PAINTING COUNCIL (SSPC):

SSPC-SP6-63	No. 6 Commercial Blast Cleaning

2. GENEPAL REQUIREMENTS: The work shall include sandblasting, cleaning, touching up, and the application of paint to all exterior surfaces of SM-262, including supporting structures, ladders, and all metal appurtenances. The complete structure shall be "obstruction painted" to match the existing checkerboard pattern of orange and white. The painting shall be performed in a manner recommended by the manufacturer of the materials. Sufficient time shall be allowed for each coat to dry thoroughly before the following coat is applied. Where two coats of paint are specifed, the first coat of primer or paint shall be inspected and approved by the Contracting Officer before a succeeding coat may be applied. If the Contractor proceeds in violation of this inspection requirement, he shall be obligated to take corrective action, as directed by the Contracting Officer, at his own expense. Finished surfaces shall be smooth, even, and free of defects. Damaged paint shall be retouched before applying succeeding coats of paint. Paints and paint materials shall be delivered in unbroken original packages bearing the manufacturer's name and brand designation. Storage of paints and paint materials and the mixing of paint shall be restricted to the locations directed.

3. MATERIALS:

3.1 Primer: Red-lead primer shall be Type I in accordance with TT-P-86 for all except zinc-coated materials. Zinc-coated materials shall be coated with TT-P-645. The paint shall be dry thoroughly in not more than 36 hours. The paint shall be dry to a smooth, uniform finish, free from roughness, grit, uneveness, and other imperfections.

3.2 Obstruction Paint:

a. The international orange paint indicated on Plate No. 8 shall conform to TT-E-489, Class A, color spot number 12197 of FED-STD-595.

b. The white paint indicated by white area in pattern for use in the checkerboard pattern shall conform to TT-E-489, Class A, color spot number 17875 of FED-STD-595.

4. PREPARATION OF SURFACES: Surfaces to be painted shall be thoroughly clean and dry. All dirt, rust, scale, splinters, loose particles, disintegrated paint, grease, oil and other deleterious substances shall be removed. The tower structure will be 100 percent sandblasted in strict accordance with SSPC SP6 and will receive one primer coat and two finish coats of paint.

5. PAINTING: Application of the final coats of paint shall not proceed until all surface defects have been corrected and the surfaces are in satisfactory condition for the final coats of paint. Paints shall be applied carefully to flat surfaces with good clean brushes, rollers, or approved electrostatic spraying equipment, except that diagonal tension members shall be painted by brush or mitt. All turnbuckles and irregular surfaces shall be painted by brush. The work shall be so conducted as to avoid contamination of, or damage to, other surfaces and public and private property in the area. Any damage thereto shall be made good by the Contractor at his expense. Sufficient time shall be allowed between coats to permit thorough drying and each coat shall be not less than 1.5 mil thick. Primer and paint shall not be applied during damp, foggy, or rainy weather, or when the temperature is below 55 degrees Fahrenheit, or when, in the opinion of the Contracting Officer, the surfaces are not in proper condition for painting. Each coat of paint shall be well brushed, sprayed, or wiped on, worked out evenly, and allowed to dry before any subsequent coat is applied. Finish work shall be uniform, of an approved color, and smooth and free from runs, sags, brush marks, skipped areas, and drips. The edges of paint colors adjoining other color painted surfaces shall be clear, sharp, and clean without any overlapping.

6. COATS OF PAINT:

6.1 Prime Coating: All bare metal surfaces shall receive one coat of red-lead-primer. All surfaces sandblasted or scraped in one day shall be primed before the crew leaves that tank that day.

6.2 Finish Coats: All surfaces which have been prime coated shall receive two coats of orange or white paint as indicated on drawing.

7. PAINTS shall be thoroughly mixed before using and shall be stirred during use to prevent settlement of pigments. Paints containing skins, tags, or other deleterious matter accumualted with use shall be strained to remove the matter, or rejected for use in the work. Rejected materials shall be removed from the Base. Reduction of paints to proper brushing consistency shall be accomplished by adding fresh paint, except that when thinning is mandatory for the type of paint being used, written permission for using thinners shall be obtained from the Contracting Officer. The written permission shall include quantities and types of thinners to use. Thinners shall not be permitted upon the job site unless written permisson for thinning has been given by the Contracting Officer.

8. NOTIFICATION BEFORE PAINTING: The Contractor shall notify the Contracting Officer at least 48 hours prior to applying any paint to each structure.

9. CLEAN-UP: The premises shall be kept free at all times from accumulation of waste material and rubbish resulting from the work, and upon completion of the work, all tools, scaffolding, surplus material, and rubbish shall be removed and the premises left clean.

SECTION 09920. INTERIOR PAINTING OF TANKS

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 basic designation only.

MILITARY SPECIFICATIONS:

MIL-P-15328	Primer (Wash), Pretreatment (Formula No. 117 for Metals)

AMERICAN WATER WORKS ASSOCIATION (AWWA):

D102-78	Painting and Repainting Steel Tanks, Standpipes, Reservoirs, and Elevated Tanks for Water Storage

STEEL STRUCTURES PAINTING COUNCIL (SSPC):

SP6-63	No. 6 Commercial Blast Cleaning
SP8-64	Aluminum Vinyl Paint
SP10-63	No. 10 Near-White Blast Cleaning

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA):

NFPA 70-81	National Electric Code

2. GENERAL REQUIREMENTS: The work shall include sandblasting, cleaning and painting of tank interiors, risers, access hatches, grilles and miscellaneous appurtenances. The painting shall be performed in a manner recommended by the manufacturer of the materials. Sufficient time shall be allowed for each coat to dry thoroughly before the following coat is applied. Where multiple coats of paint are specified, each coat of primer or paint shall be inspected and approved by he Contracting Officer before a succeeding coat may be applied. If the Contractor proceeds in violation of this inspection requirement, he shall be obligated to take corrective action, as directed by the Contracting Officer, at his own expense. Finish surfaces shall be smooth, even, and free of defects. Damaged paint shall be retouched before applying succeeding coats of paint. Paints and paint materials shall be delivered in unbroken original packages bearing the manufacturer's name and brand designation. Storage of paints and paint materials and the mixing of paint shall be restricted to the locations directed.

3. SPECIAL CONDITIONS:

3.1 Cathodic Protection: The interior of tanks and risers have existing cathodic protection systems. The Contractor shall remove wires and electrodes as needed to accomplish the work. The services of a qualified cathodic protection contractor shall be employed to restore cathodic protection system to its original condition after completion of painting. The painting Contractor shall pay all charges for restoring cathodic protection.

3.2 Government Work and Material: The Government will drain the water tanks and provide the service of a Fire Department pumper, operator, hose and nozzle for a period of approximately 1/2 day at each tank for use of the Contractor in washing out and flushing down the interior of each tank. The Contractor shall notify the Contracting Officer 10 days prior to the time the services of the pumper are required.

3.3 Protection of Workers: The Contractor shall provide all workers inside tanks or risers with forced air respirators and protective clothing as required by OSHA standards.

4. PREPARATION OF SURFACES: The interior of surfaces of the tank, riser, suporting column and all appurtenances shall be cleaned by sandblasting 100 percent in accordance with SSPC SP10. All dirt, rust, scale, loose particles or other deleterious substances shall be removed. Surfaces to be painted shall be wiped clean and be thoroughly dry before application of paint.

5. PAINTING: All surface defects shall be corrected prior to application of paint. Paints shall be applied carefully with good clean brushes or approved spraying equipment. The work shall be so conducted as to avoid contamination of, or damage to, other surfaces and public and private property in the area. Any damage thereto shall be made good by the Contractor at his expense. Sufficient time shall be allowed between coats to permit thorough drying and each coat shall be applied to the specified thickness. Primer and paint shall not be applied during damp, foggy, or rainy weather, or when the temperature is below 55 degrees Fahrenheit. Finish work shall be uniform, of an approved color, and smooth and free from runs, sags, brush marks, skipped areas, and drips.

5.1 Painting System: The painting of interior tanks shall conform to AWWA 102, Inside Paint System No. 4, a four-coat vinyl system.

5.1.1 Sandblast surfaces to SSPC 10 specifications.

5.1.2 Brush paint surfaces with primer-pretreatment MIL-P-15328, 1.5 mil minimum.

5.1.3 Brush or spray two coats of vinyl intermediate paint conforming to SSPC SP8, minimum of 1.5 mil per coat. Lamp black shall be used to tint the first coat to assure complete and thorough coverage.

5.1.4 Brush or spray one coat of vinyl aluminum finish coat conforming to SSPC SP8, minimum of 1.5 mil.

5.2 Paint Application shall be in accordance with the latest revision of SSPC Paint Application Specification No. 1 or as recommended by the paint manufacturer.

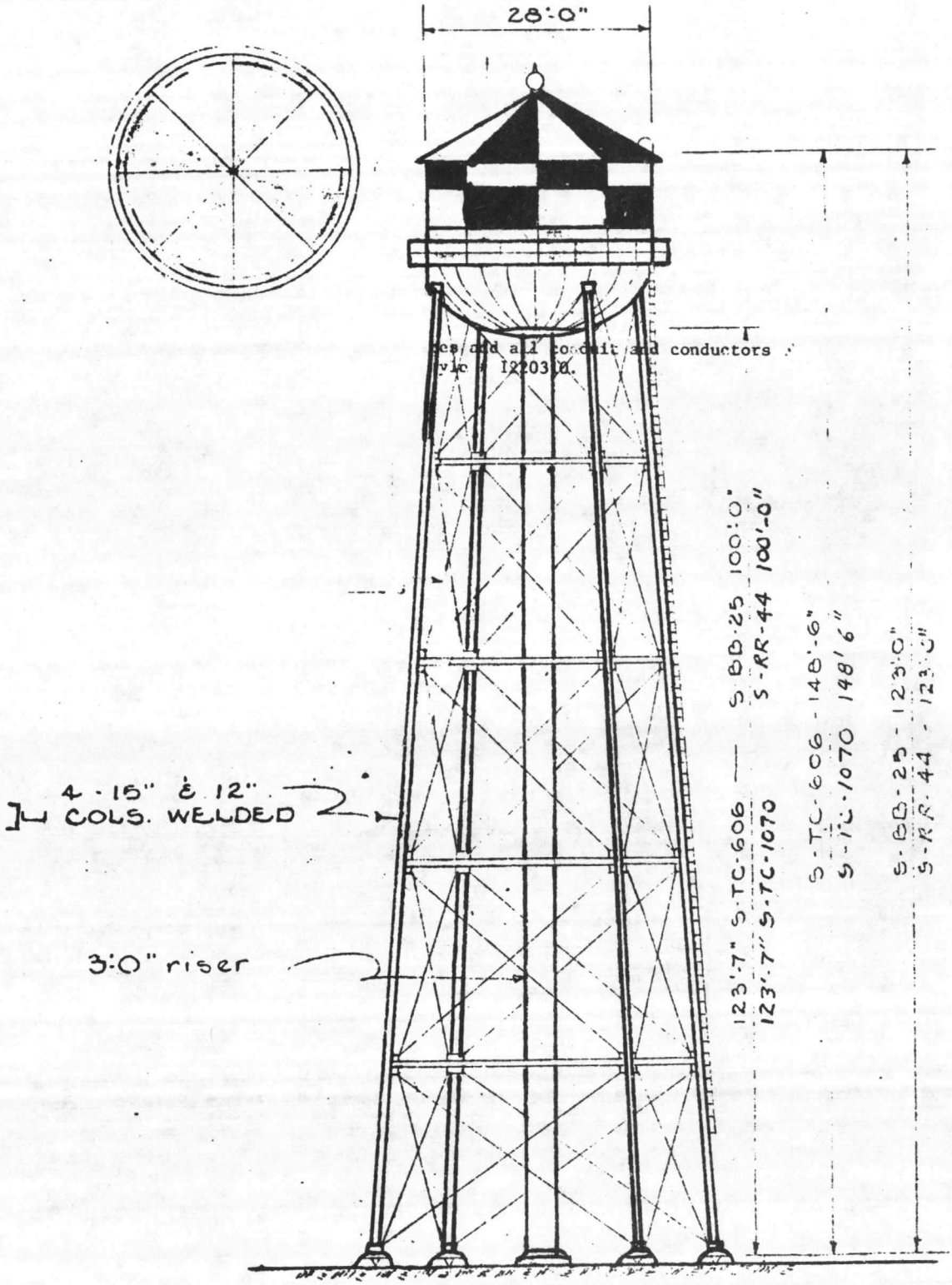
6. VENTILATION OF PAINTED AREAS: During painting operations a forced ventilation system shall be employed with a minimum capacity of 300 CFM per gallon of coating applied per hour. Following the completion of paint application, continuous forced ventilation shall be maintained for at least 2 days at the rate of one complete air change every 4 hours or as recommended by the paint manufacturer.

7. LIGHTING: Sparkproof artificial lighting shall be provided for all work inside the tank and riser. Light bulbs shall be guarded to prevent breakage. Light fixtures and flexible cords shall comply with the requirements of NFPA 70 for the atmosphere in which they will be used.

8. NOTIFICATION BEFORE PAINTING: The Contractor shall notify the Contracting Officer regarding each structure at least two working days prior to applying any paint to that structure.

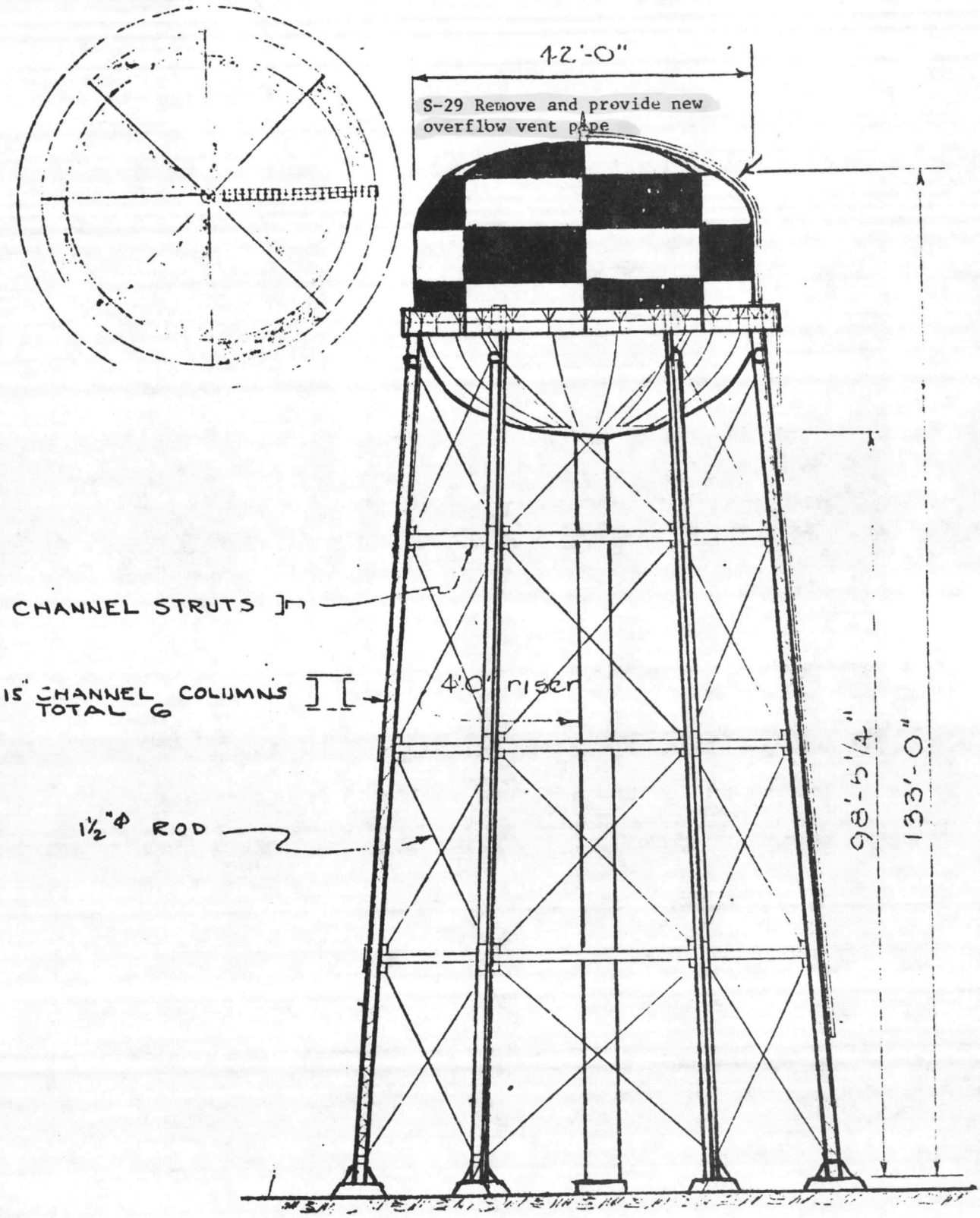
9. CLEANUP: The premises shall be kept free at all times from accumulation of waste material and rubbish resulting from the work, and upon completion of the work, all tools, scaffolding, surplus material, and rubbish shall be removed and the premises left clean.

10. TANK DISINFECTION: Following painting operations, the tank shall be cleaned thoroughly and disinfected by spraying or brushing a hypochlorite mixture containing 300 parts per million of available chlorine on all interior tank and riser surfaces. Tank shall be allowed to stand 2 to 4 hours and then flushed. Personnel shall be protected by use of respiratory equipment and protective clothing in accordance with OSHA regulations.



100,000 Gallon Size
S-TC-606 and S-TC-1070, Camp Geiger
S-RR-44, Rifle Range

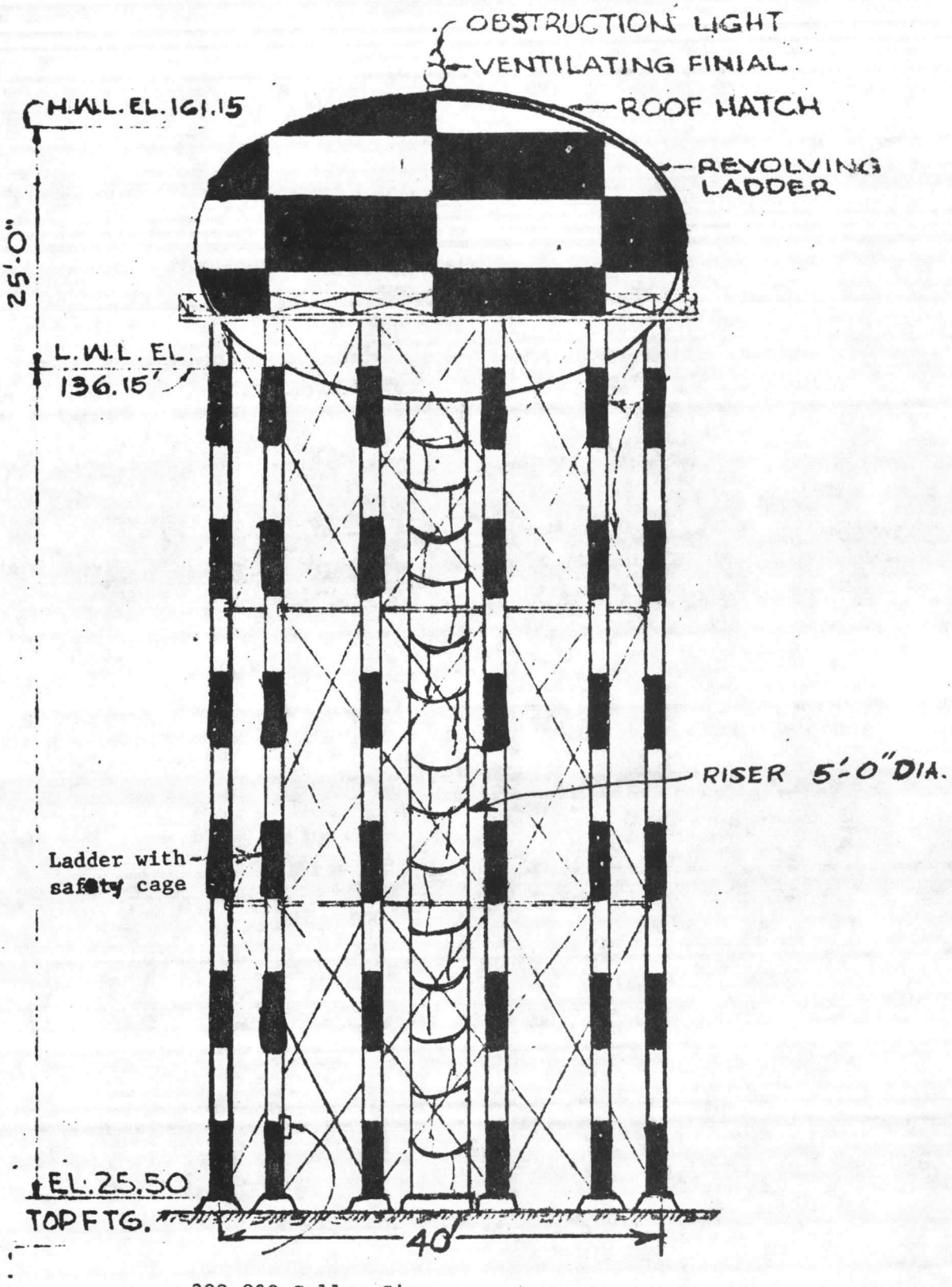
05-81-3562
PLATE NO. 1



300,000 Gallon Water Tank
S-5, S-29 and S-1000, Hadnot Point

05-81-3562

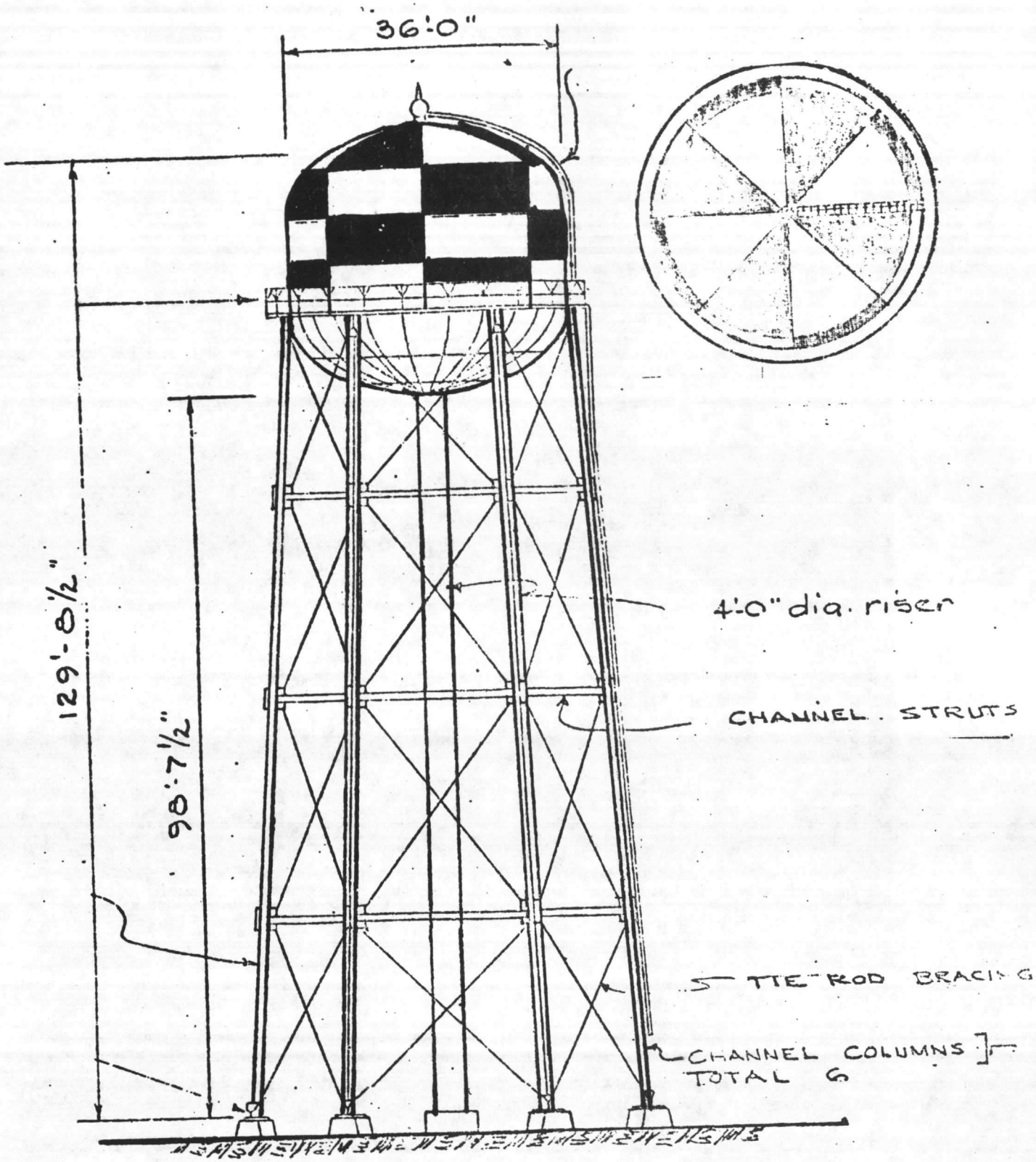
PLATE NO. 2



300,000 Gallon Size

S-FC-314, French Creek Area

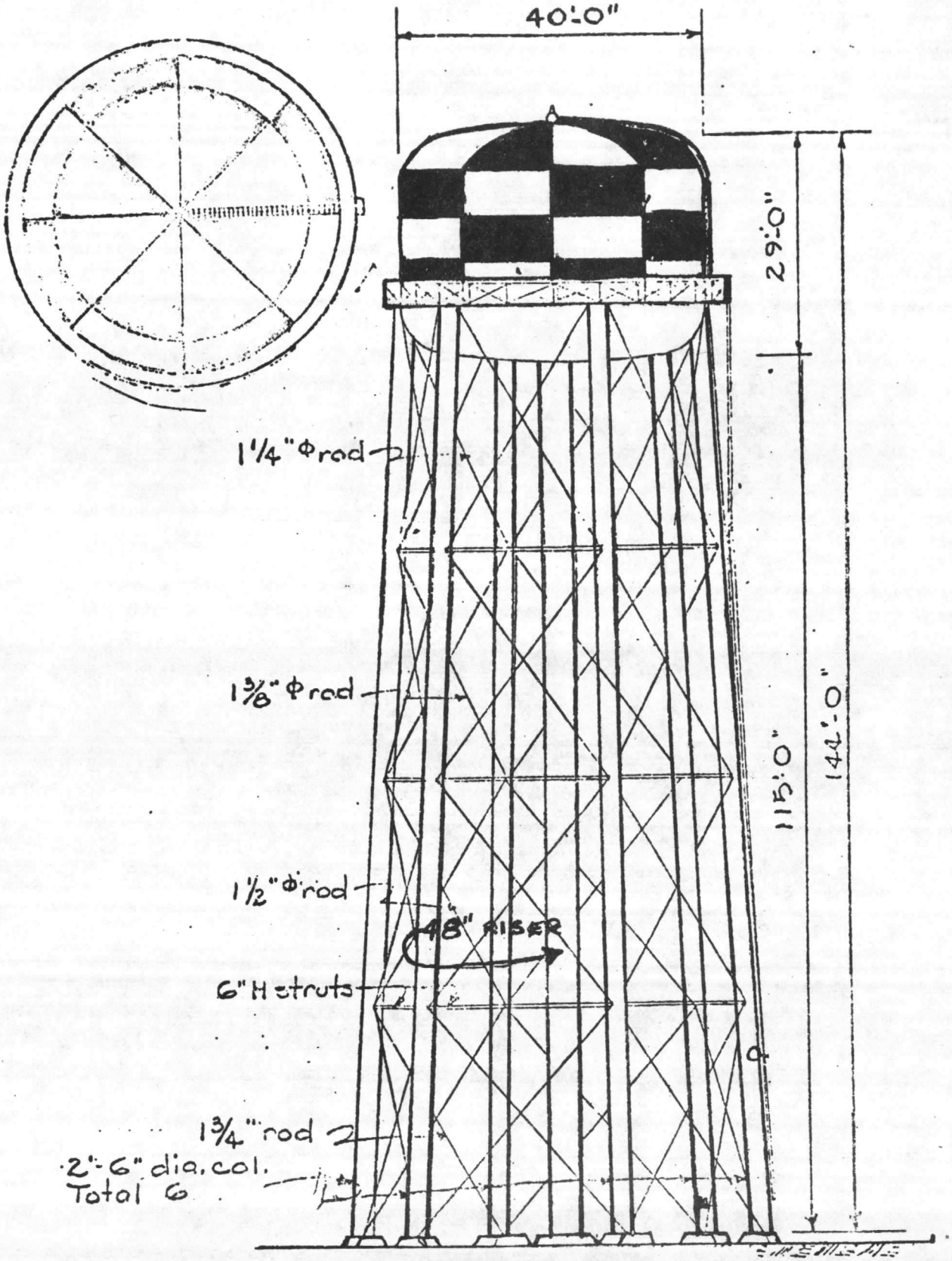
05-81-3562
PLATE NO. 3



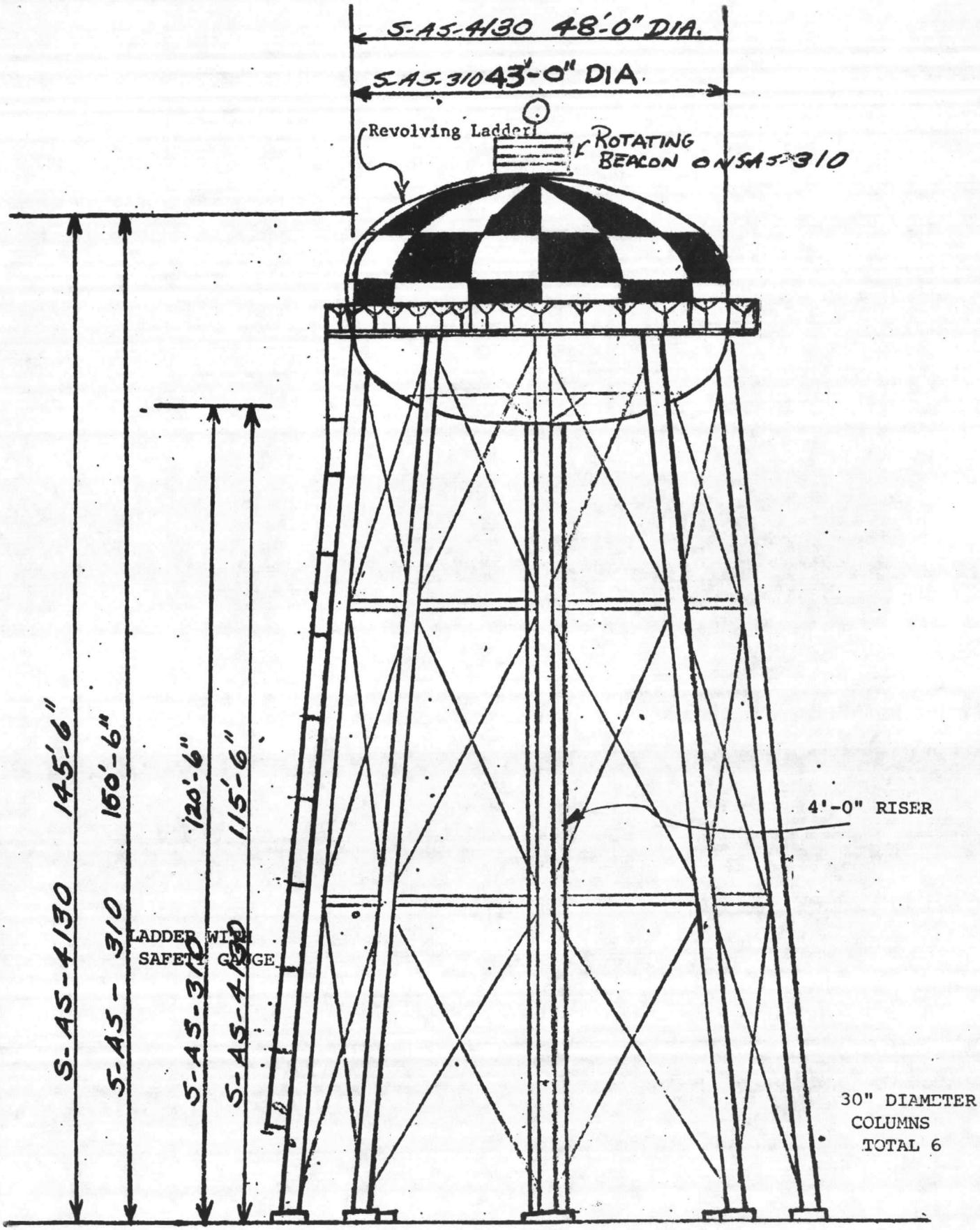
200,000 Gallon Water Tank

S-2323, Paradise Point
LCH-4004, Midway Park

05-81-3562
PLATE NO. 4



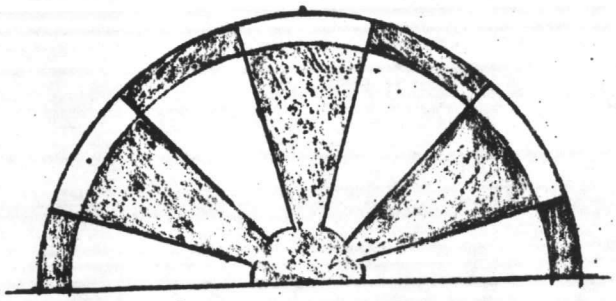
250,000 Gallon Water Tank
S-TT-40, Tarawa Terrace 2
05-81-3562
PLATE NO. 5

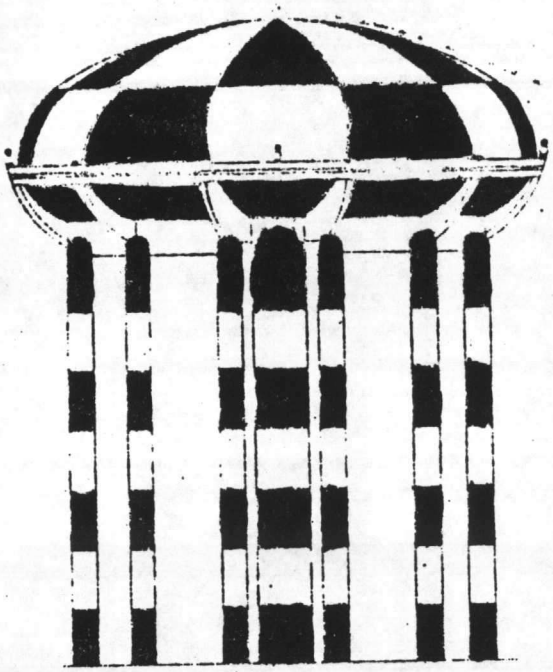


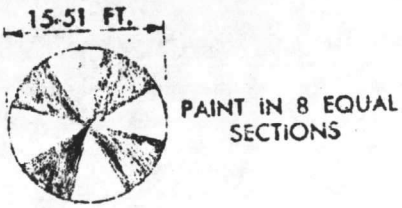
300,000 Gallon Water Tank
S-AS-310, Marine Corps Air Station (Helicopter)

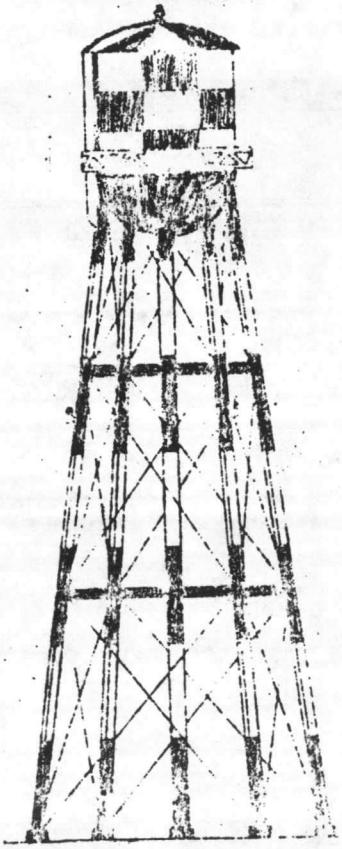
350,000 Gallon Water Tank
S-AS-4130, Marine Corps Air Station (Helicopter)

05-81-3562
PLATE NO. 7









LEGEND

INTERNATIONAL ORANGE PAINT

WHITE PAINT

TYPICAL OBSTRUCTION PAINTING PLANS

05-81-3562
PLATE NO. 8

SECTION 09930. SANDBLASTING AND PAINTING IN VALVE PITS

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 basic designation. Where a number is suffixed to the specification number, it denotes the effective amendment to the specification.

FEDERAL SPECIFICATIONS:

TT-E-489F Enamel, Alkyd, Gloss (for Exterior and Interior Surfaces)
TT-P-645 Primer, Paint, Zinc-Chromate, Alkyd Type

MILITARY SPECIFICATION:

MIL-P-15328C(1) Primer (Wash), Pretreatment Blue (Formula No. 117-B for Metals)

STEEL STRUCTURES PAINTING COUNCIL (SSPC):

SSPC-SP6 Commercial Blast Cleaning

2. EXISTING METAL including piping and valves shall be given an SSPC SP6 abrasive blasting sufficient for removal of all rust, paint and deleterious materials. The Government will depressurize the piping wherever possible for the sandblasting and painting operations.

3. WORKMANSHIP AND APPLICATION: Paint shall be applied carefully with good clean brushes, approved rollers, or approved spraying equipment. The work shall be so conducted as to avoid damage of other surfaces and public and private property in the area. Any damage thereto shall be made good by the Contractor at his own expense. Sufficient time shall be allowed between coats to assure drying. The finished surfaces shall be free from runs, drops, ridges, waves, sags, laps, brush marks, and variations in colors. Paint may be applied at any time provided the surfaces to be painted are dry and the temperature can be kept above 45 degrees Fahrenheit.

4. PAINTING:

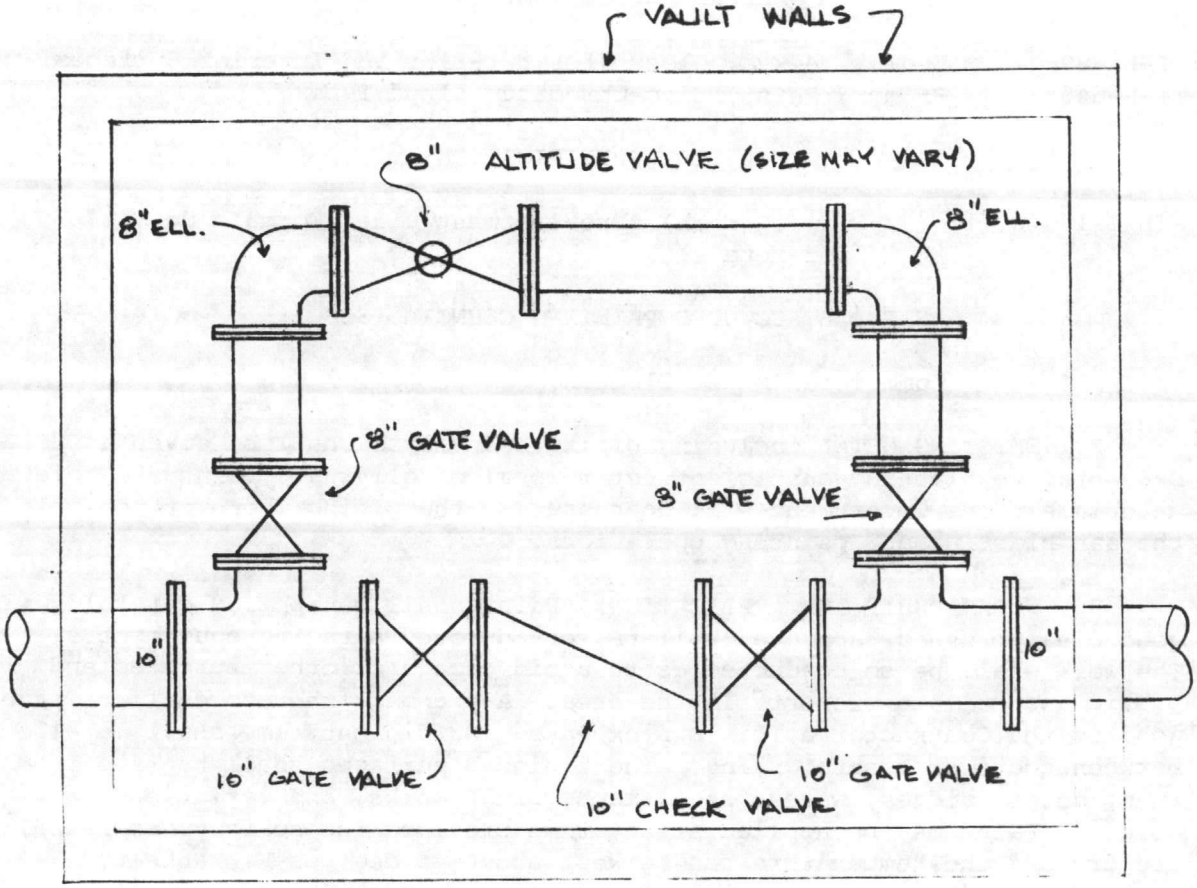
4.1 The pits to receive sandblasting and painting are:

S-5	SFC-314	S-830
S-29	S-2323	S-AS-310
S-1000	LCH-S-4004	S-AS-4130

4.2 Painting Schedule:

Surface	Pretreatment	Primer	First Coat	Second Coat
Sandblasted Metal	MIL-P-15328 (0.3 mil to 0.5 mil) (apply after cleaning to bare metal)	TT-P-645 (1.0 mil)	TT-E-489 (1.5 mil)	TT-E-489 (1.5 mil)

5. Surface preparation and application procedures will be examined by the Contracting Officer to determine conformance with the requirements specified. Each separate operation shall be approved prior to initiation of subsequent operations.



TYPICAL VAULT PIPING PLAN

SCALE : 1/2" = 1'-0"

NOTES

1) VAULT PIPING MAY VARY FROM VAULT TO VAULT.

2) VAULT LOCATED NEAR BASE OF ELEVATED TANKS.

3) CONTRACTOR SHALL CLEAN & PAINT ALL PIPES, VALVES, & FITTINGS LOCATED WITHIN VAULTS.

05-81-3562
09930 - 2

SUPERSEDEAS DECISION

STATE: NORTH CAROLINA COUNTIES: Carteret, Craven, Jones, Lenior, Onslow, and Pamlico

DECISION NUMBER: NC81-1181 DATE: Date of publication

Supersedes Decision No. NC81-1145, December 30, 1980, 45 FR 86198

DESCRIPTION OF WORK: Building Construction (excluding single family homes and apartments up to and including four stories)

	Basic Hourly Rates	Fringe Benefits Payments			
		H & W	Pensions	Vacation	Education and/or Appr. Tr.
Asbestos workers	$7.26				
Brickalyers	7.10				
Carpenters	6.02				
Cement masons	5.68				
Drywall mechanics	7.00				
Electricians	5.94				
Electronic technicians	4.50				
Glaziers	5.38				
Insulation mechanics	6.50				
Ironworkers	6.66				
Laborers:					
mason tenders	3.78				
pipelayers	4.94				
unskilled	3.78				
Painters	5.00				
Plasterers	6.00				
Plumbers	6.07				
Power Equipment Operators:					
asphalt raker	4.27				
backhoe	5.32				
bulldozer	5.25				
crane	6.80				
distributor	4.70				
forklift	6.50				
loader	4.50				
motor grader	5.36				
pans - scraper	4.60				
paver - screed	4.25				
roller	5.00				
tractor	5.00				
Roofers	5.91				
Sheet metal workers	5.77				
Soft floor layers	7.00				
Sprinkler fitters	7.95				
Tile setters	6.00				
Truck drivers	3.85				

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

Date: 28 SEP 81

PRECONSTRUCTION CONFERENCE

Contract Number N62470-81-C-3562, REPAIR AND PAINT ELEVATED WATER TANKS AND TOWERS

LIST OF ATTENDEES

NAME	RANK	TITLE	ORGANIZATION	TELEPHONE NO
K. R. SHANKLE *	LT.	AROICC	OICC	451-4322
Angelo Voutsos *		PRES	A.V. CONTINENTAL ENT. INC	313-386-0223
Connie Voutsos		Sec	" "	" " "
Bill McGowen *	CIV	Insp.	OICC	451-2581
E.L. Martin *	CIV	Fire Prev.	BASE Fire Dept	451-5037
JACK McMurtrey	CIV	FCSLR	DEPT LABOR-ESC	347-2121
MACK FRAZELLE *	CIV.	FOREMAN	WATER TREATMENT	451-5988
Gregory L. Shoemaker *	CIV.	INSP.	BASE MAINT	451-5202
JUNIOR JOHNSON	CIV.	PUBLIC WORKS	———	451-3238

CONFERENCE CHECKLIST

____ (1) The subject contract was awarded to A.V. CONTINENTAL ENTERPRISES, INC. on 26 JUNE 1981 in the amount of $ 139,555 with a contract completion date of 9 APRIL 1982. Liquidated damages in the amount of $ 35 per day have been established for failure to meet the stated completion date.

____ (2) The Officer in Charge of Construction (OICC) for this project is CDR CARLSON. ~~The Resident Officer in Charge of Construction (ROICC) is~~ _____. The Assistant Resident Officer in Charge of Construction (AROICC) for this project is LT. SHANKLE. The government Construction Representative is BILL McGOWAN.

____ (3) The OICC is solely responsible for administering the contract through his authorized representatives and only he may authorize changes in contract plans or specifications. The Government Construction Representative has all the necessary authority to see that the work is completed according to the plans and specifications, but he has no authority in change order matters affecting time, price, or the contractor's methods so long as they conform to the plans and specifications and safe practice. Any changes in the contract involving these items must be made by the OICC in writing.

____ (4) The contractor will be required to implement a safety program which will conform to all applicable federal, state

and local laws and regulations. The safety program shall include the provisions of the following publications: "Occupational Safety and Health Standards" and "General Safety Requirements" by the Army Corps of Engineers. A written Safety Program must be submitted and approved prior to commencement of work on this contract. Any accidents resulting in lost time for personnel must be promptly reported in writing to this office.

____ (5) _____, representing the Base Safety Office provided additional information on safety requirements. _____

____ (6) E.L. MARTIN, representing the Base Fire Department, provided information on procedures involving "HOT" work and fire prevention.

NEED 10 days NOTICE TO USE EQUIPMENT.

____ (7) Federal Regulations require that all job vacancies be listed with the state employment office.

____ (8) MR. McMURTREY, from the North Carolina Employment Security Commission, provided information concerning local employment. _____

(9) Mrs. Endett (NOT PRESENT), representing the OICC/ROICC Contract Branch, discussed various administrative items concerning the contract.

Performance/Payment Bonds _____

Certificate of Insurance _____

Payrolls _____

Sales and Use Tax Records _____

_____

(10) Mr. Shoemaker, representing Base _____ (prospective user of the facility) provided specific information concerning the project.

(11) Key Personnel Listing furnished with your award package must be completed and returned as soon as possible. Telephone numbers and local addressess of key personnel will be for emergency use.

(12) Clause 63 of the General Provisions specify the Prime Contractor shall perform on the site, and with his own organization, work equivalent to at least 20% of the total amount of the work to be performed under the contract. That amount can only be reduced, provided written approval of such reduction is obtained from the Officer in Charge of Construction. All negotiated subcontracts greater than $10,000 shall include a provision authorizing the Comptroller General of the United States, or any authorized representative, access to the right to examine directly, pertinent books, papers and records

of the subcontractor for a period of three years after final payment of the contract. All subcontracts issued must contain all provisions of the prime contract. If any subcontractors will be working on this contract, a written report must be made listing the names, addresses and what work they will be doing. Use of subcontractors does not relieve the prime contractor from having a qualified representative on the job at all times.

___ (13) A DO-C2 priority rating will apply to this contract ~~(except for insulation materials)~~. All materials and equipment purchased under this contract must have this priority rating indicated on the ordering information if any assistance is to be obtained in material expediting. In the event that the contractor experiences delay in contract completion due to material procurement delay, he must be able to show that he used the DO-C2 rating on the order as substantiation for a time extension. Subcontractors are also required to utilize this priority system in procurement of their materials and equipment.

✓ (14) A Schedule of Prices must be submitted and approved prior to processing first payment.

___ (15) Requests for payments must be in accordance with the specifications. In order to expedite payments, close coordination with the inspector is suggested.

___ ~~(16) Power and telephone hook-ups when available will require a deposit and application at the appropriate office on base.~~

(17) If a trailer or storage area is required, approval of such a site must be obtained from the AROICC.

(18) The construction site must be maintained properly at all times. Persons who litter aboard Marine Corps Base can now be prosecuted in Federal Court. No person will operate any vehicle upon any highway, road, waterway, recreation or training area within the Camp Lejeune Complex unless the cargo is in containers or covered by a tarpaulin in such a manner as to prevent any part of its contents from falling or being scattered upon any such highway, road, waterway, recreation or training area. Trash and debris should be disposed of in a proper manner on a daily or other approved periodic basis.

(19) (A Contractor Quality Control System is not specified for this contract.) ~~(A Contractor Quality Control System is specified for this contract. A qualified CQC representative must be designated and on site. A written CQC program must be submitted and approved prior to commencement of work. The CQC representative cannot be subordinate to the superintendent, i. e., he must report separately to an officer of the firm).~~

(20) (Since this contract is for less than $500,000, Paragraphs 96 and 97 of the General Provisions do not apply.) ~~(Since this contract is for $500,000 or more, Paragraphs 96 and 97 of the General Provisions require quarterly reports concerning small business subcontracting and minority business~~

subcontracting. Please note these requirements and provide the required reports in a timely manner).

(21) As-built drawings are required from the contractor at the end of the project. This requirement is best handled by keeping a set of drawings current with all changes.

(22) A written Environmental Protection Plan must be submitted and approved prior to commencement of work.

(23) A written schedule of work will be required prior to commencement of work. The following restrictions or conflicts can be expected in the scheduling process. CONTRACTOR WANTS TO START AT R.R. 9/29. BASE MAINTENANCE NEEDS NOTICE (2 days) TO ARRANGE TO DRAIN TANKS.

(24) The following samples of materials and/or equipment must be submitted to the OICC for approval: AS PER SPECS

(25) The following drawings and/or data must be submitted to the OICC for approval: _____

(26) A Certificate of Compliance on the following items must be furnished to the OICC. AS PER SPECS

(27) Additional items of discussion CONTRACTOR REQUESTS TO BE ALLOWED TO PAINT BEYOND 15 DEC AS LONG AS WEATHER PERMITS. IF WORK IS ALMOST DONE ONLY A FEW MORE DAYS REQUIRED, IT WILL BE FLEXIBLE.