#### DRAWING AND SPECIFICATION TRANSMITTAL LOCKWOOD GREENE ENGINEERS. INC.

SPARTANBURG. SOUTH CAROLINA 29304 P.O. BOX 491 (803)582-2351

CODE

K

TO Naval Facilities Engineering Command Atlantic Division Norfolk, Va. 23511

QUAN.

DATE May 28, 1979 JOB NO. 77239.17 JOB NAME Naval Regional Medical Center

TRANSMITTAL NO. 1026 SHEET 1 OF 1 ORDER NO.

VENDOR

Charlotte Pipe & Foundry Co.

ATTN. Code 09A21A - Mr. L.F. Butts

DOCUMENT NO. REV. NO.

Catalog Data

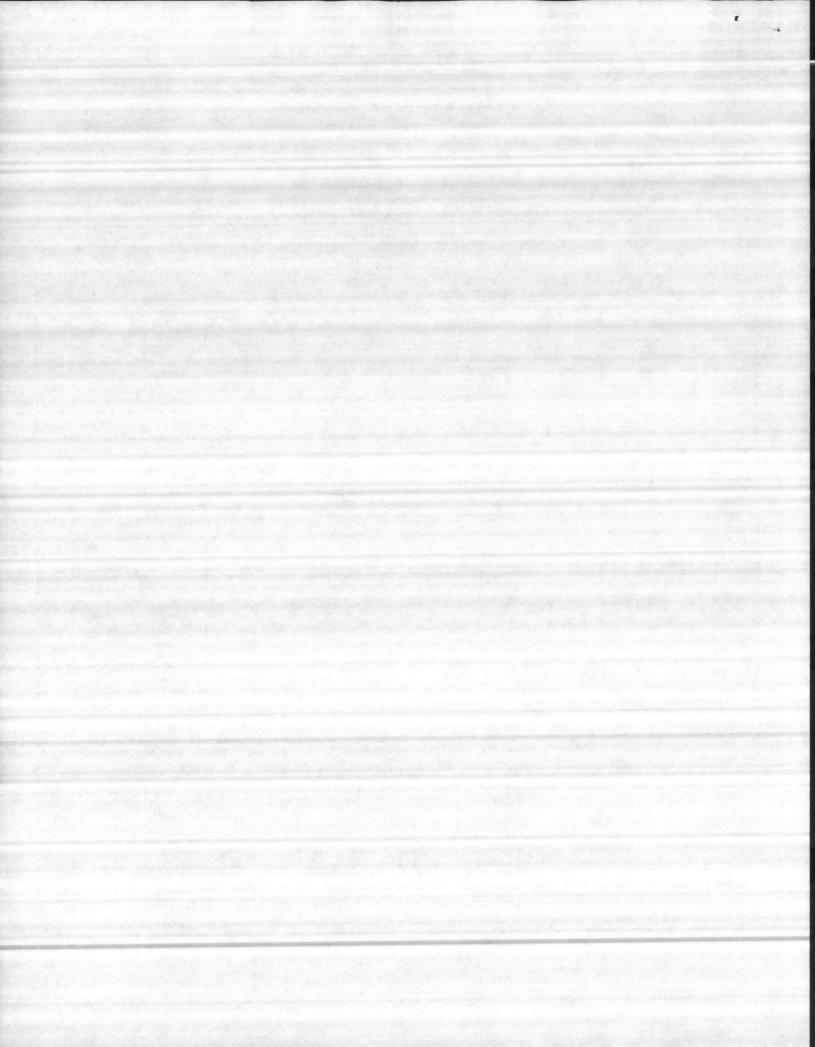
WE ARE SENDING YOU THE FOLLOWING DATA UNDER SEPARATE COVER HEREWITH

2 Piece Valve Box

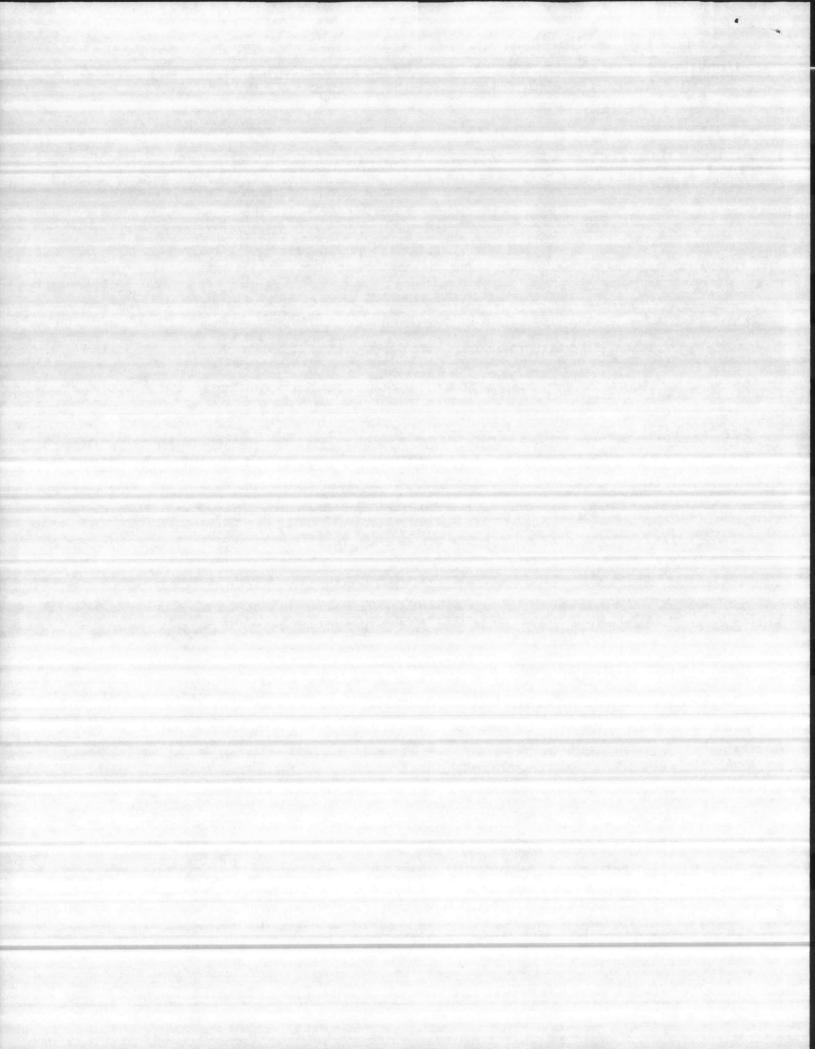
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PLEASE ACKNOWLEDGE RECEIPT BY IMMEDIATE RETURN OF SIGNED COPY OF THIS TRANSMITTAL TRANSMITTED BY Richard McKnight



ONTRACTOR'S S D LANTDIV #-4355/3 (Rev. 6/76)		01/1200	CONTRACT NO.	TRAN	SMITTAL NO.	DATE
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### CHARLOTTE PIPE AND FOUNDRY COMPAN

### **THREE PIECE VALVE BOXES**

For Gas or Water Mains, Diameter of Shaft, 5% Inches
For 24" and Smaller Values

		Con	nplete	Top and Cover				Botto	Base		
Size	Extension, Inches	Wt. Lbs.	List, Each	Lgth.,	Wt.	List, Each	Lgth Ins.	Wt. Lbs.	List, Each	Wt. Lbs.	List, Each
<b>AAA17</b> "	Stationary	55	\$41.20	) 6	19	\$20.00	/	5 .0		36	\$21.20
AA	26-30	79	60.25	10	25	23.45	12	_ 18	15.60	36	21.20
A	33-42	95	66.95	16	35	29.00	3180	24	16.75	36	21.20
8	36-48	100	69.15	16	35	29.00	24	29	18.95	36	21.20
C	45-54	109	71.40	16	35	29.00	30	- 38	-21.20	-36	21.20
CC	51-60	111	75.85	1.6	/35	29.00	36	1 140	25,65	36	21.20
D	45-66	132	80.35		58	37.95	30	38	21.20	36	21.20
E	63-72	128	84.80		35	29.00	J 48	57	34.60	T36	121.20
F	63-84	151	93.75	28	58	37.95	48	57	34.60	36	21.20
G	75-96	144	102.65		35	37 95	PR600	)VF3	43.50	36	21.20

NOTE: The above prices are with No. 6 Round Pase Which Will always be furnished unless otherwise specified.

Drop Covers marked "WATER" furnished unlessionerwise specified in for corrections

Subject to a reconstrate requirements

D. 1/2 Date: 5/14/79

Section 152

Valve Boxes MARINE CORPS BASE

CAMB LEVENT NORTH CAROLINA

1026

### TWO PIECE VALVE BOXES

For Gas or Water Mains, Diameter of Shaft, 51/4 Inches Screw Type or Slip Type for 10" and Smaller Valves

**Bottom** Complete Top and Cover Screw Each Lbs. Each Extension. Lbs. Each Ins. Ins. Type Inches Wt. List. Lgth., List. Lgth. List. 18-24 60 \$40.20 10 35 \$23.45 \$16.75 20.10 26.80 24-36 36-48 45 47 24 36 80 49.10 29.00 35 16 92 29.00 55.80 16 26.80 664-S 39-60 106 64.75 28 63 37.95

Drop Cover marked "WATER" furnished unless otherwise specified.

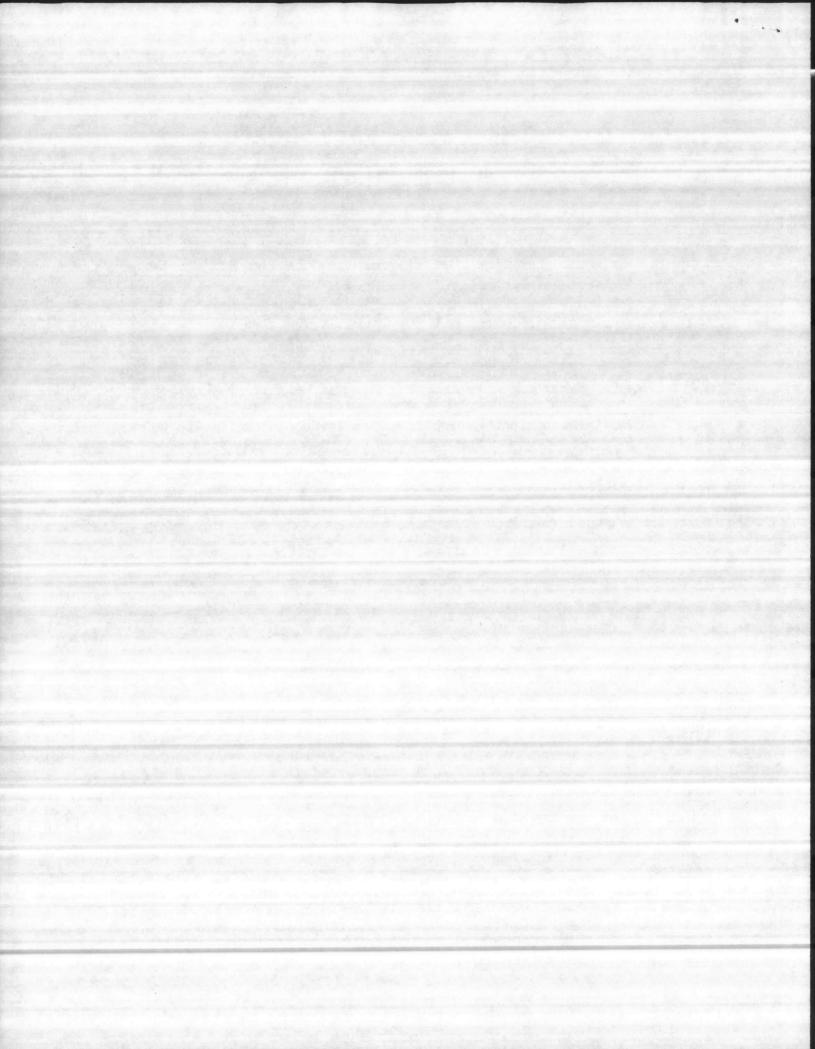
Each Box to have heavy coat of Bruminous

Weights are approximate and are for shipping purposes only.

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### DRAWING AND SPECIFICATION TRANSMITTAL LOCKWOOD GREENE ENGINEERS. INC.

SPARTANBURG.SOUTH CAROLINA 29304 P.O. BOX 491 (803)582-2351 P. De

CODE

TO\_NAVAL FACILITIES ENGINEERING

COMMAND ATLANTIC DIVI DATE May 28, 1979 JOB NO. 77239.16 TRANSMITTAL NO.1027 SHEET 1 OF 1

VENDOR

JOB NAME Naval Regional Medical Cen. ORDER NO.

ATLANTIC DIVISION NORFOLK VA 23511

ATTN. CODE 09A21A - Mr. L.F. Butts

QUAN. DOCUMENT NO. REV. NO.

WE ARE SENDING YOU THE FOLLOWING DATA \_\_\_\_\_\_ HEREWITH \_\_\_\_\_ UNDER SEPARATE COVER

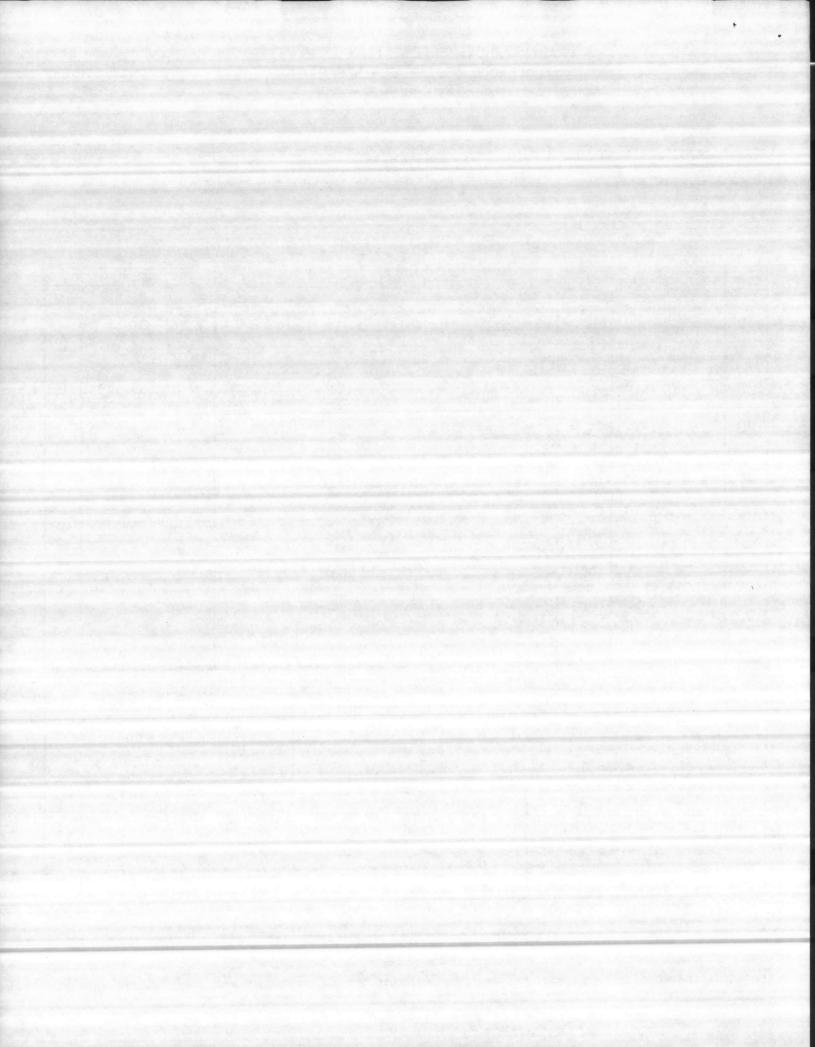
DESCRIPTION

Shts 2 Thru 5	B-62-B Fire Hydrant	American- Darling K
SHts. 17 & 18	Gate Valves	American- Darling K
Please Journal 7	make a note in Wat these are 703 and #709	your Submitted/ Transmitted/s#
	CODE FOR	
LOCKWOOD GREENE DOCUME		VENDOR DOCUMENTS
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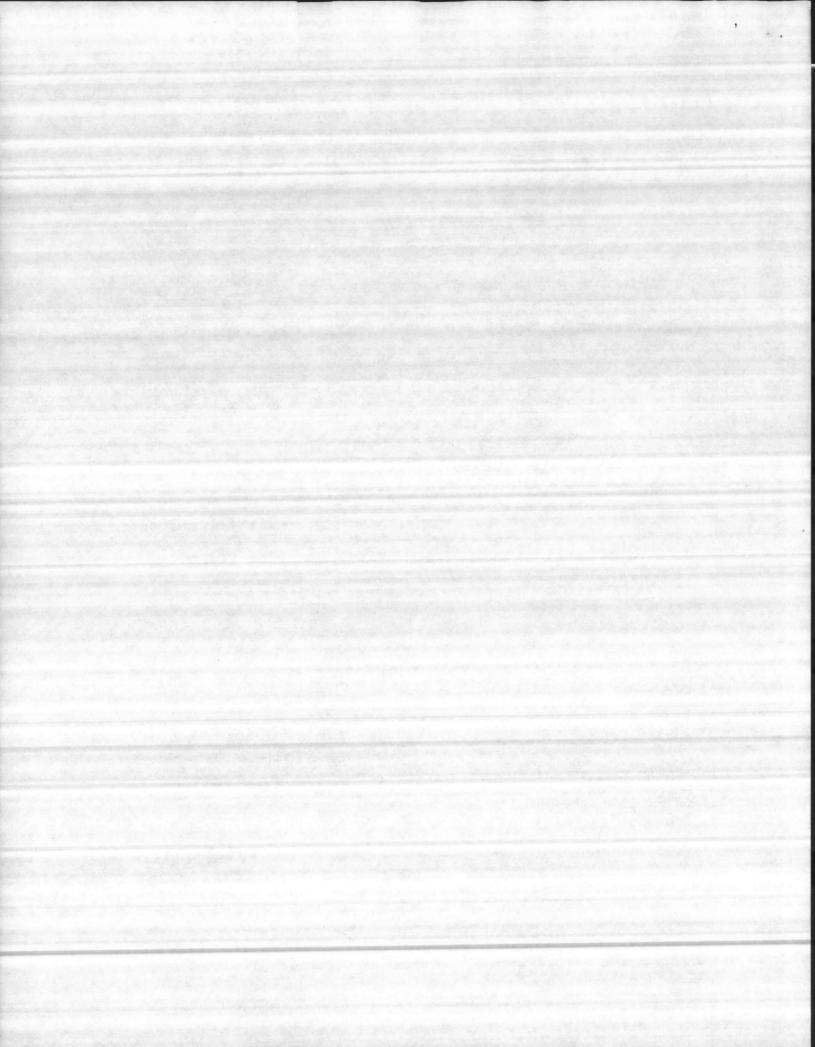
PLEASE ACKNOWLEDGE RECEIPT BY IMMEDIATE RETURN OF SIGNED COPY OF THIS TRANSMITTAL

RECEIVED BY COSON PARTY 6/11/79 TRANSMITTED BY RICHARD MCKNight

WM. J. Haymand



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	*List only one specification division per	orm.		A-Appl	CTION CODES
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	and indicate which is being submitte			RA-Re	ceipt acknowledged.
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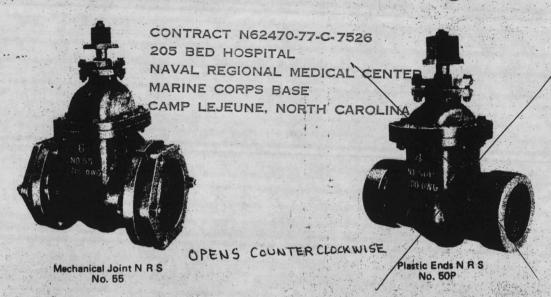


AMERICAN-DARLING

FOR 10" AND 8" Ring tite AC Pipe AND 6" AND 4" MJ 205 BED HOSPITAL Section 15272 Paragraph 4.4

# GATE VALVES A.W.W.A. type

C 500



#### PRESSURE RATINGS

Size	Non-Shock Service Pressure	Hydrostatic Test Pressure						
Inches	Water	Shell Test	Seat Test					
2 to 190 14-to 54	- 150 Z	400H 800	200 150					

American Darling A.W.W.A. Type Iron Body Double Disc Parallel Seat Gate Valves are made to the specifications adopted by the American Water Works Association and New England Water Works Association. Many of the requirements of these specifications, such as tensile strength of metals, test and service pressures, are greatly exceeded in their construction. These valves are in use in general water works service.

Where required, valves can be furnished with low zinc alloy bronze trim. Low zinc alloy bronze trim is recommended for valves to be used in waters that promote alloyanic corrosion. See page 7.

CONSTRUCTION DETAILS—The stems, seat rings stem nuts or wedge bushings on all sizes are made or bronze. All bolts and nuts are cadmium plated.

2 to 3 INCH Discs and wedges are bronze.

4 INCH—Discs are tast iron bronze mounted and wedges are bronze.

6 TO 16 INCH—Lower wedges are cast iron and inside screw upper wedges and discs are bronze mounted cast iron. Upper wedges are provided with non-corrodible wedging surfaces.

16 INCH AND LARGER—Discs and wedges are cast iron bronze mounted.

FLANGE DIMENSIONS—The drilling and dimensions of end flanges conform to ANSI B16.1, Class 125. Flanges are plain faced with smooth finish.

CONSTRUCTION DETAILS—See page 7.

STYLE OF ENDS—Valves can be furnished with various types of ends as shown on page 18.

BY-PASSES—Valves 16" and larger should have a by-pass to equalize pressure on both sides of the valve to facilitate opening. See page 47.

GEARING—Valves 24" and larger should be equipped with gearing to facilitate opening. See page 51.

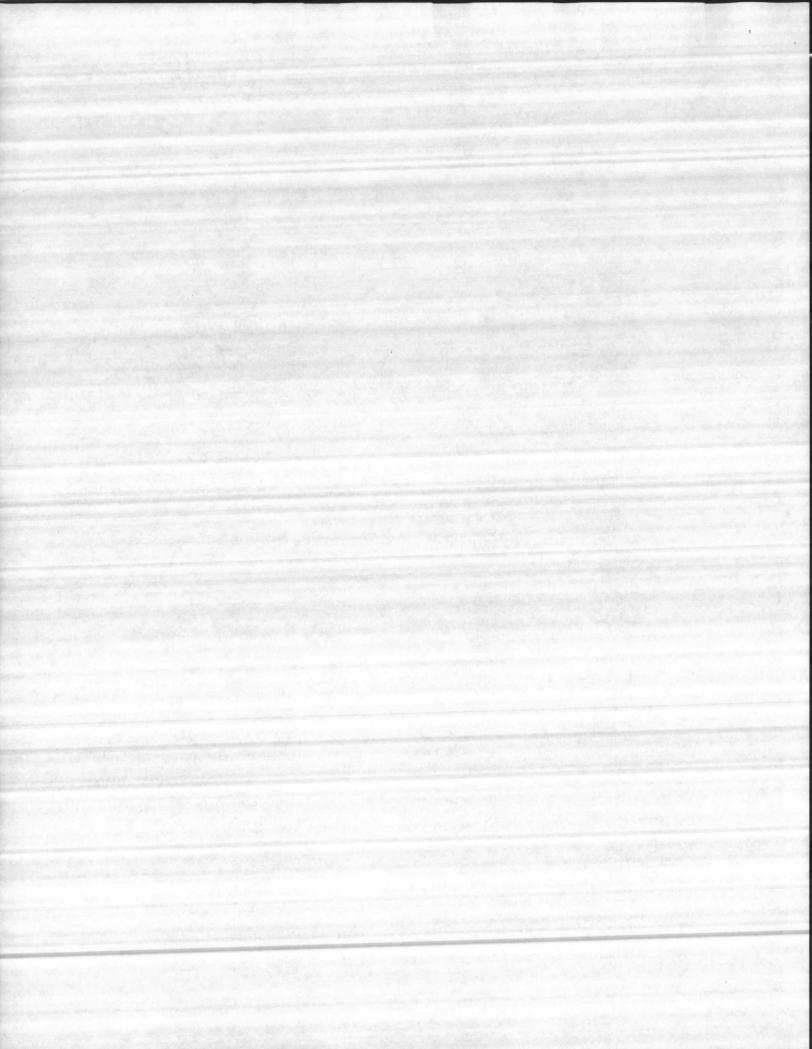
TRACKS AND SCRAPERS—Valves 16" and larger when placed in a horizontal line with main stem in horizontal position have bronze or alloy tracks placed in the lower side of the body and scrapers attached to the upper wedge. Auxiliary rollers are not required as the discs are free to rotate as the valve is opened or closed. See page 5.

STEM SEAL AND STUFFING BOX—Stem seals with double BUNA-N O-Rings are supplied as standard on NRS non-geared valves 2" to 24" size. Compression packing using asbestos is standard on NRS geared and O S & Y valves. O S & Y valves can be repacked under pressure when fully opened.

ACCESSORIES-See page 46.

FOR DIMENSIONS—See pages 19, 20, 21, 22.

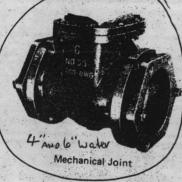
SQUARE BOTTOM CONSTRUCTION—Can be furnished. See page 29.



# valve ends available

on A.W.W.A. valves











Cement-Asbestos

Plastic End

Flange End







Victaulic End

Dresser End

MECHANICAL JUNT Mechanical Joint Gate Valves are used for Water scripe. This joint employs the stuffing box principle A thick triangular gasket is compressed between the pipe and bell of the gate valve by a beltador gland follower ring. It provides a tight jung some flexibility and allows for expansion and contraction. American-Darling Mechanical Joint laves are regularly furnished for pressures up to and anothering 500 lbs. O.W.G.

CEMENT-ASBESTOS Values with ends to receive Cement Asbestos pipe are made in accordance with the manufacturers specifications and are chiefly used in water or corrective service installations.

PVC PLASTIC American Darling push-on joint for PVC Plastic Process Rubber and joint gaskets are regularly furnished with each valve.

FLANGE—Flange End Valves are generally used on large lines in industrial piping, sewage disposal, filtration plants, pumping stations. The use of Flange End Valves is particularly advantageous since valves can be quickly removed from lines without disrupting piping installations. Flanged ends are regularly faced and drilled in accordance with ANSI B16.1 standard.

HUB—Hub End Valves are generally used in underground installations in water systems and on low pressure gas lines, and are regularly furnished with wrench nuts for valve key operation from above ground. Joints between valves and pipe are

caulked in the same manner as regular bell and spigot pipe joints. American-Darling Hub End Valves are regularly made in iron body patterns for pressures up to and including 250 lbs. O.W.G.

FASTITE JOINT — American-Darling's push-on joint for cast iron or ductile iron pipe (not illustrated).

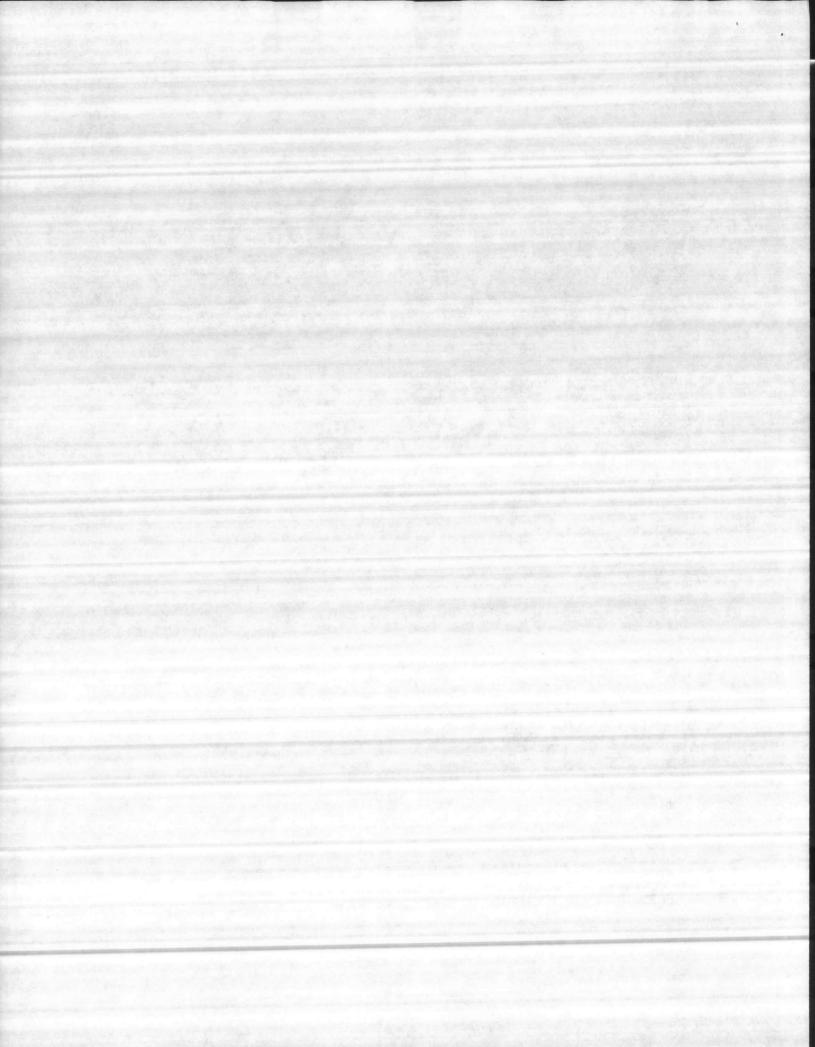
SCREW—Screw End Valves are regularly used on small lines on inside piping installations, and in general construction service. Screw ends are regularly threaded in accordance with ANSI B2.1 standard.

PRESTRESSED CONCRETE—(Not illustrated). Valves made with special ends machined for connecting concrete pipe with O-Ring gasket seals. Specify style and name of manufacturer.

VICTAULIC—Valves made with Victaulic Ends are regularly used on water lines, and made in accordance with specifications to fit standard Victaulic couplings. Specify whether iron or steel pipe is to be used with valve.

DRESSER — Dresser End Valves are used with Dresser pipe couplings on water lines. Valves are regularly furnished with ends to receive Dresser couplings, but without bolts, gaskets, or the necessary couplings. Valves can be furnished complete with couplings attached, when so specified.

COMBINATION—Valves can be supplied with any combination of the above ends.





See Reverse Side for Stamp.

### **B-62-B FIRE HYDRANT How to Order Parts**

#### FOR ORDERING PARTS B-62-B HYDRANT

Orders for hydrant parts should specify:

Number of pieces of each part desired.

Part numbers and names of parts. (See Parts List below)

Where barrel or rod is required, give depth of trench.

If extension section is required, give length of extension.

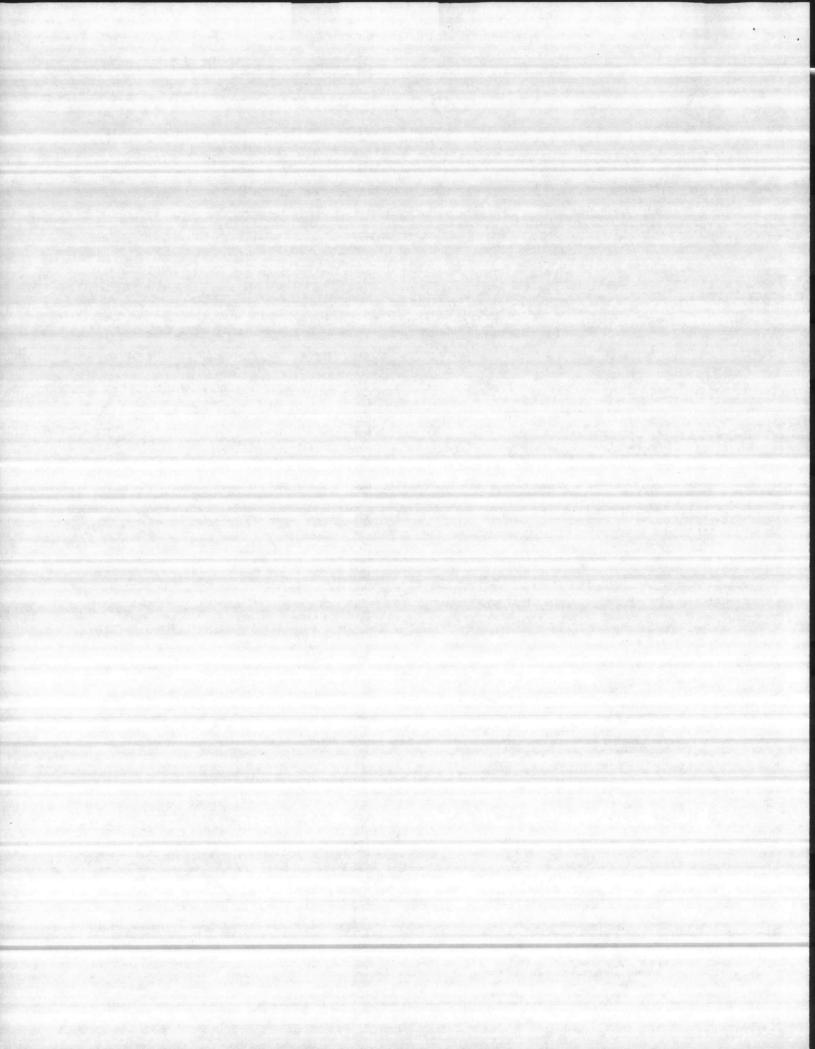
If barrel is ordered, state the number of hose and/or steamer nozzles.

If rod or operating nut is required, state direction hydrant turns to open: whether "open right" (clockwise) or "open left" (counter-clockwise).

If base is required, specify size and type of pipe and base connection.

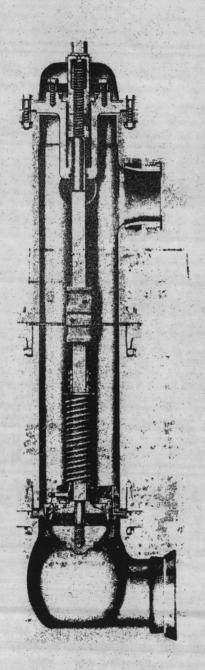
PART NO.	DESCRIPTION	MATERIAL
54-62-1	Operating Nut	Bronze
54-62-2-1	Housing Cover O-Ring	Buna N
54-62-2-2	Housing O-Rings	Buna N
54-62-4-2	Needle Thrust Bearings	Steel
54-62-4-3	Thrust Races	Steel
54-62-5-3	Socket Pipe Plug	Steel
54-62-7-2	Hydrant Cover	Cast Iron
54-62-9	Housing Cover	Cast Iron
54-62-11-2	Housing Cover Cap Screws	Cadmium
54-62-13	Housing Cover Gasket	Fibre
54-62-14	Housing Gasket	Asbestos
54-62-15	Housing	Cast Iron
54-62-16	Housing Bolts and Nuts	Cadmium
54-62-17	Chain Holder	Steel
54-62-18-9	Upper Hydrant Barrel	Cast Iron
54-62-19-9	Lower Hydrant Barrel	Cast Iron
54-62-20	Hose Nozzle	Bronze
54-62-21	Hose Nozzle Cap	Cast Iron
54-62-22	Hose Cap Gasket	Rubber 1
54-62-23	Hose Cap Chain	
	(specify single or double)	Steel
54-62-24	S Hook	Steel
54-62-25	Steamer Nozzle	Bronze
54-62-26	Steamer Nozzle Cap	Cast Iron
54-62-27	Steamer Cap Gasket	Rubber
54-62-28	Steamer Cap Chain	Steel
54-62-29-30	Breakable Rod Coupling	Cast Iron
54-62-29-31	Rod Coupling Pins	Bronze
54-62-30-01	Stop Plates	Steel
54-62-30-02	Stop Plate Rivets	Steel
54-62-30-03	Spring	Cadmium Plated Spring Steel
34-02-30-03		coated with Jan-P-450
54-62-30-04	Spring Plate	Steel
54-62-30-06	Travel Stop Nut	Bronze
54-62-30-11	Upper Hydrant Rod	Steel
54-62-30-12	Lower Hydrant Rod	Steel
54-62-31	Hydrant Drain Lever	Bronze
54-62-33	Drain Lever Washers	Leather
	Drain Lever Rivets	Bronze
54-62-34	Hydrant Seat	Bronze
54-62-35-OR	Seat O-Ring (outside)	Buna N
54-62-36-2	Seat O-Ring (outside)	Buna N
54-62-36-3	Hydrant Drain Ring	Bronze
54-62-37-OR	Drain Ring Gaskets	Asbestos
54-62-38	Barrel Gasket	Asbestos
54-62-38-1	Base Bolts and Nuts	Cadmium
54-62-39		Caumom
54-62-39-7	Frangible Bolts and Nuts	Steel
	(traffic model)	Sieei
54-62-39-9	Barrel Bolts and Nuts	C. darium
	(regular model)	Cadmium
54-62-40	Hydrant Valve Top	Cast Iron
54-62-41	Hydrant Valve	Rubber
54-62-42	Hydrant Valve Bottom	Cast Iron
54-62-43-5	Hydrant Rod and Valve O-Ring	Buna N
54-62-46	Hydrant Base	Cast Iron

CONTRACT N62470-77-C-7526 205 BED HOSPITAL NAVAL REGIONAL MEDICAL CENTER MARINE CORPS BASE CAMP LEJEUNE NORTH CAROLINA National Standard Threads



# B-62-B FIRE HYDRANT Operation





The American-Darling B-62-B compression type fire hydrant opens against the pressure and closes with the pressure. The operating mechanism at the top of the hydrant is subject to upward thrust, which is applied against a needle thrust bearing located at the top of the operating nut collar. The use of this thrust bearing reduces the required operating torque by more than 50%.

In opening, turning the operating nut lowers the hydrant rod and forces the hydrant valve away from its seat. The hydrant valve is unseated slightly before the drains are closed, making it possible to effectively flush the drain ports.

The drains close after approximately 1½ turns of the operating nut and are securely held in their closed position by the spring on the hydrant rod.

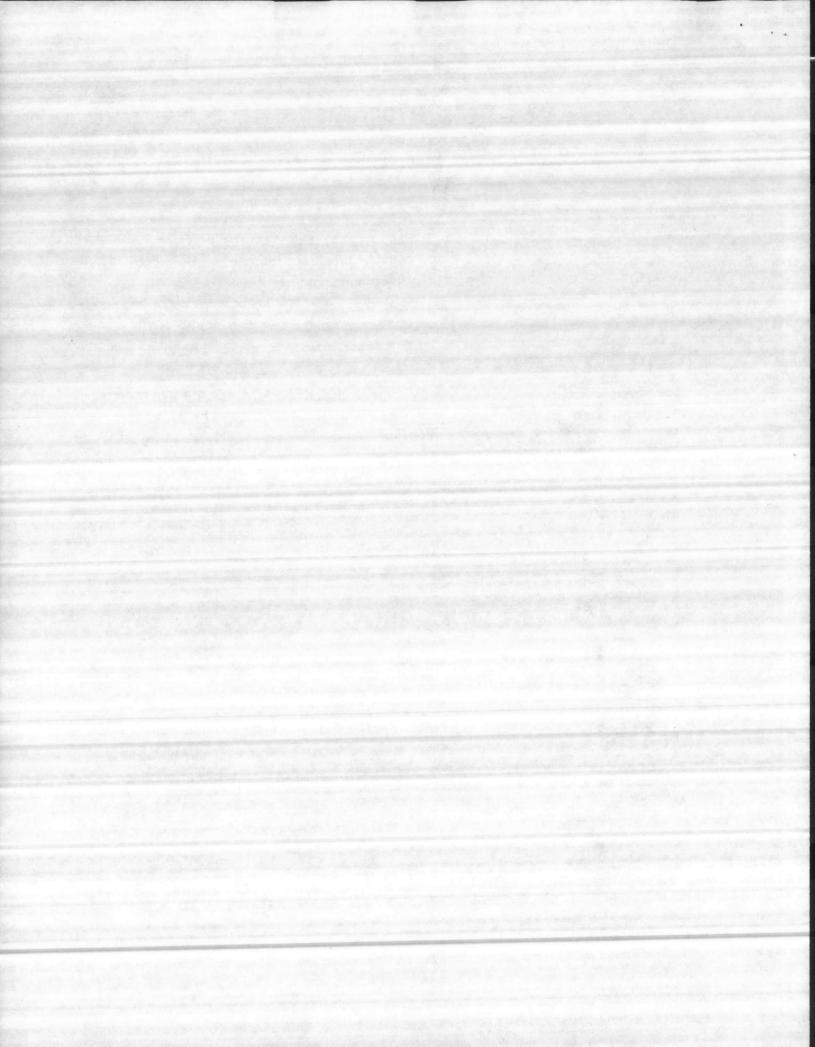
The use of O-ring seals provides a dry-top hydrant and eliminates friction normally found where conventional packing is used against the operating nut. The necessity for repacking and lubrication of packing is thus eliminated.

The sealed grease chamber feature of the operating nut assures thorough lubrication of the operating threads and the needle thrust bearing.

Complete removal of all internal working parts can be accomplished by taking out the hydrant rod, on which all working parts are assembled.

#### UNDERWRITERS' LABORATORIES HYDRANTS

The B-62-B hydrant has been tested and listed with Underwriters' Laboratories, Inc. and approved by Factory Mutual Laboratories.



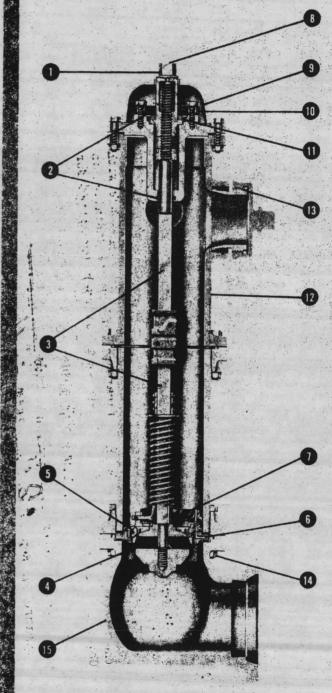


# B-62-B FIRE HYDRANT Construction

- OPERATING NUT-cast one-piece bronze operating nut directly actuates hydrant rod. Extra-long, close tolerance threads assure long life and easy operation. Grease groove insures complete lubrication of threads and needle thrust bearing. Lead of the operating thread permits slow closing of the hydrant valve, eliminating water hammer.
- O-RINGS—seal lubrication chamber, eliminate stuffing box, assure dry top hydrant, reduce friction, prevent water from reaching the operating mechanism—no need for repacking or packing lubrication.
- 3 HYDRANT ROD—furnished in two sections of high tensile steel. Upper section has bronze sleeve where it passes through O-ring and has bronze stop nut to limit travel of rod. Lower section has a cadmium-plated spring with heavy bituminous coating to insure positive drain closure. Both sections are connected by cast iron coupling and bronze pins. Rod directly operates hydrant valve and drains without need for auxiliary connections.
- HYDRANT VALVE—consists of a hydrant valve top, hydrant valve bottom and special hydrant valve rubber of conical shape. Hydrant valve bottom is threaded and screwed to valve rod, protecting rod threads from corresion. Thread locking compound prevents loosening in service. Hydrant valve seats against the bronze hydrant seat.
- 6 HYDRANT SEAT-made of special bronze, with accurately machined seat for hydrant valve and tapered drain ports.
- 6 HYDRANT SEAT DRAIN RING—securely held between barrel and base flanges, provides bronze-to-beonze threaded connection for hydrant seat. Serves as non-corrosive multiport drain channel.
- DRAIN LEVER-rugged special promise three-port drain performs dual function as carrier for drain lever washers and as wrench to remove working parts.
- 8 SOCKET HEAD PIPE, PLUG—sealed grease chamber. No greasing required as long as rod is intact. Grease fifting can replace plug for greasing.
- GOVER—cast iron cover is guickly removed by unbolting two bolts. The word "open" and an arrow show direction to turn the operating nut.
- HOUSING AND HOUSING COVER retains operating nut and needle thrust bearing. Rugged construction supports pressure and operating forces.
- NEEDLE THRUST BEARING—takes upward, thrust, when opening and closing hydrant valve and reduces operating torque by more than 50%. Bearing is lubricated through top of operating hour.
- BARREL—large, high-strength cast from being 3 flanged at ground line with 8 bolts, permitting installation in eight different positions. Large barrel delivers water to nowless with no perceptible pressure loss.
- NOZZLES-Bronze mozzles are streamlined and have micrometer checked threads.
- 14 BOLTS AND NUTS-all bolts and nuts are cadmium plated.
- BASE-large, spherical-shaped base has no projections or cavities to obstruct flow or collect sediment.

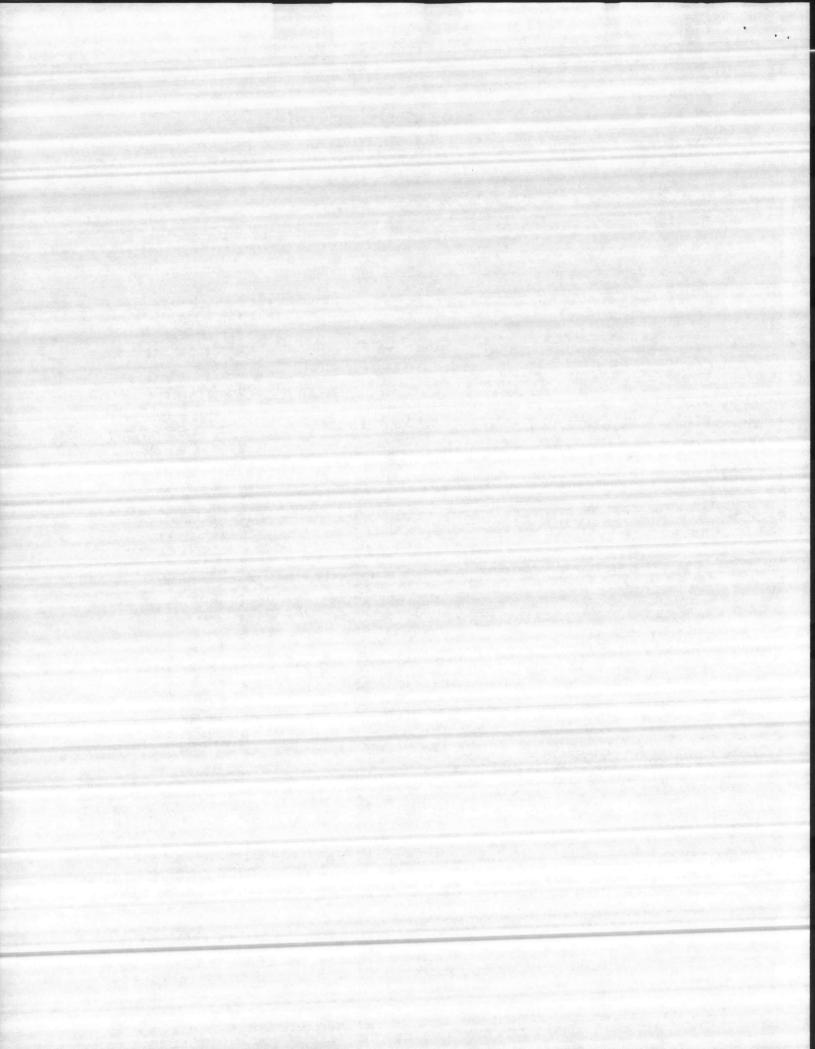
All American-Darling 8-62-8 barrel castings are painted inside and outside with a special primer. Section below ground level is given two coats of special black aspheltum paint which resists corrosion from moisture and soil. Exterior surface above ground is painted with special primer and high-grade enamel to customer's color requirement.

American-Darling B-62-B hydrants can be furnished as a TRAFFIC type by the use of frangible bolts at the flange joint above the ground line. Should the hydrant be damaged by traffic, new bolts, rod coupling and gasket would be the only parts necessary to place the hydrant back into service.



5¼" Main Valve Opening.
Fully complies with AWWA C-502
UL listed and FM approved.

1027



### B-62-B FIRE HYDRANT Features



The design and construction of every American-Darling B-62-B fire hydrant provides for maximum water delivery to nozzles with minimum pressure drop. Features which assure years of uninterrupted service include: positive mechanical drain operation; ability to remove complete working part assembly, including hydrant valve, drain lever and hydrant seat; simple barrel extensions to accommodate grade changes.

COMPRESSION TYPE DESIGN GUARDS AGAINST STREET FLOODING—hydrant valve closes with line pressure, preventing loss of water and consequent flooding in the event of traffic damage.

POSITIVE AUTOMATIC DRAIN PREVENTS FREEZING AND CLOGGED DRAINS—simple multiple port drain is automatically operated as hydrant valve is opened or closed. The 15-coil coated and plated spring closes the drain valve completely after 1½ turns of opening, thus maintaining a constant positive seal throughout the entire opening and closing operations.

When hydrant valve is closed, drain lever is held

away from drain ports for positive drainage through drain ring.

The drains remain open on the first 1½ turns of opening the hydrant valve to allow drains to be flushed under pressure . . . thus removing any foreign matter or sediment.

Operating threads on rod and in operating nut can be readily lubricated through grease fitting. Grease is carried throughout the length of the thread by grooves in the operating nut.

EASY INSPECTION AND MAINTENANCE—removal and inspection of all parts for any length of hydrant is accomplished quickly and easily through the top of the barrel, by one man. A lightweight, short-sectioned wrench engages the square hydrant rod for disassembly.

The bronze hydrant seat threads into the bronze hydrant drain ring, making a bronze-to-bronze contact with an O-ring seal. This design eliminates any possibility of blow-out or leakage.

Unrestricted flow of water assures maximum water delivery at the nozzles and is accomplished through streamlined design which eliminates projections and cavities.

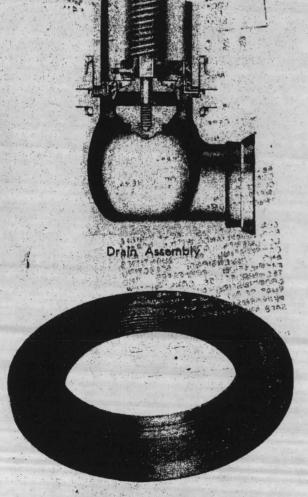
American-Darling's manufacturing quality control means that all parts are rigidly inspected before assembly. All replacement parts are interchangeable because they are made to templates and gauges. This assures easy operation and eliminates excessive service problems. Look closely at the following features:

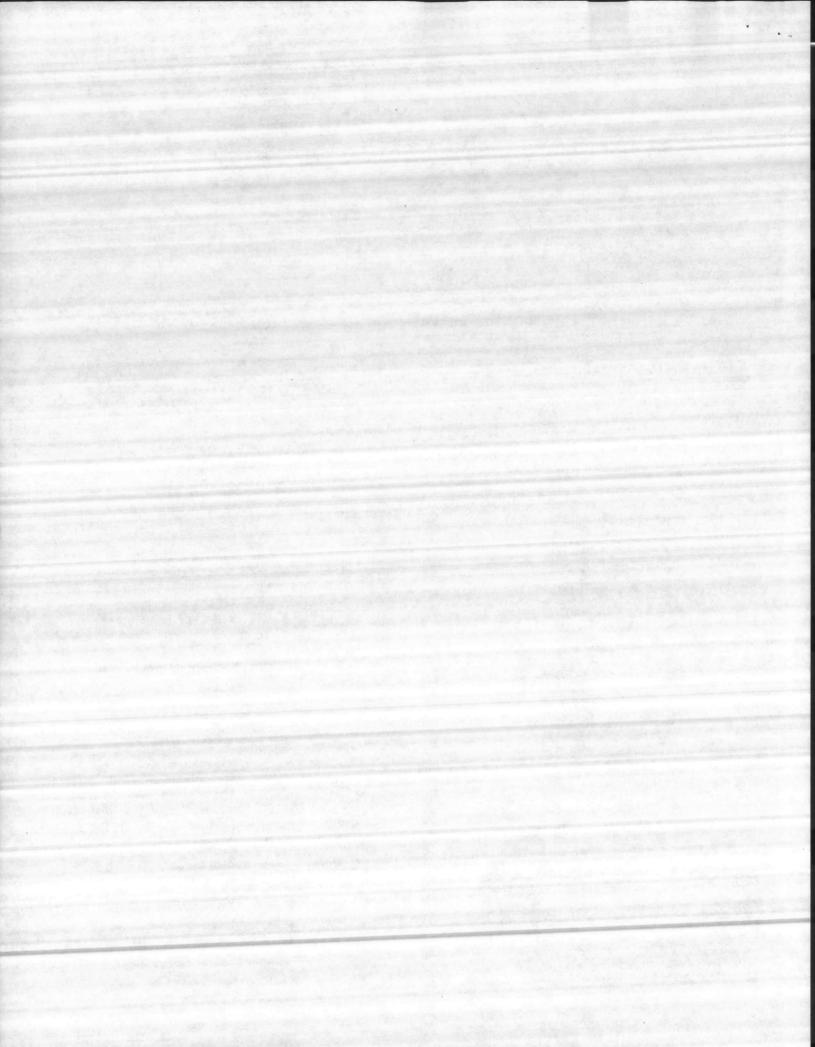
- 1 Extra large barrel for full-flow.
- 2 Streamlined nozzles minimize friction loss.
- 3 Venturi-type waterway through hydrant seat opening minimizes cavitation.
- 4 When open, hydrant valve is well below hydrant seat in the large spherical base, offering minimum restriction to flow of water.

Large spherical base with area larger than that of pipe connection eliminates all obstructions which impede flow of water and has no pockets to collect sediment.

#### 514-INCH B-62-B HYDRANT DIMENSIONS IN INCHES

Combined Area of Nozzies:	
One 2½-inch Hose	5.033
Two 2½-inch Hose	10.066
Two 21/2-inch Hose and one 41/2-inch Steamer	25.966
Ground Line to Center of Steamer Nozzle	14%
Ground Line to Center of Hose Nozzle	15%
Ground Line to Top of Hydrant	28¾





10211

### DRAWING AND SPECIFICATION TRANSMITTAL LOCKWOOD GREENE ENGINEERS. INC.

SPARTANBURG. SOUTH CAROLINA 29304 P.O. BOX 491 (803)582-2351 705-707

TO LANTDIV
Atlantic Division
Nav. Fac. Engr. Command
Norfolk, Va. 23511

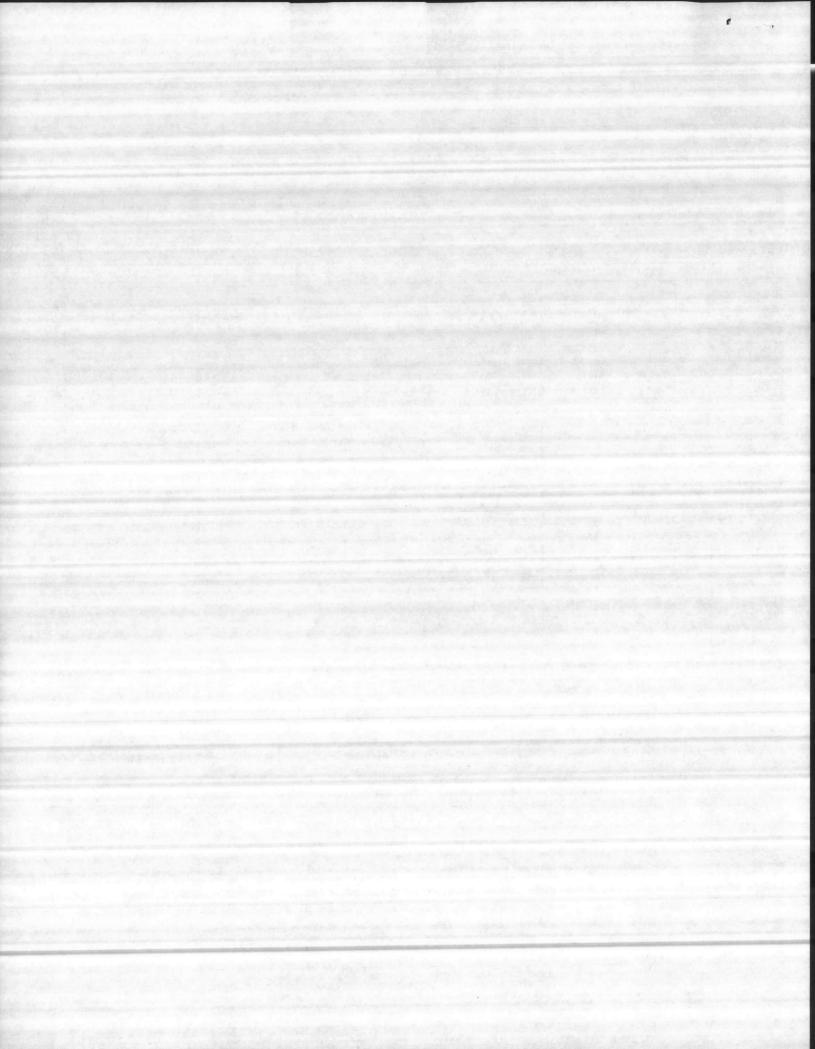
DATE July 17, 1979 JOB NO. 77239.16 JOB NAME Lantdiv TRANSMITTAL NO. 1270
SHEET 1 OF 1
ORDER NO.
Contract #
N-62470-77-C-7562

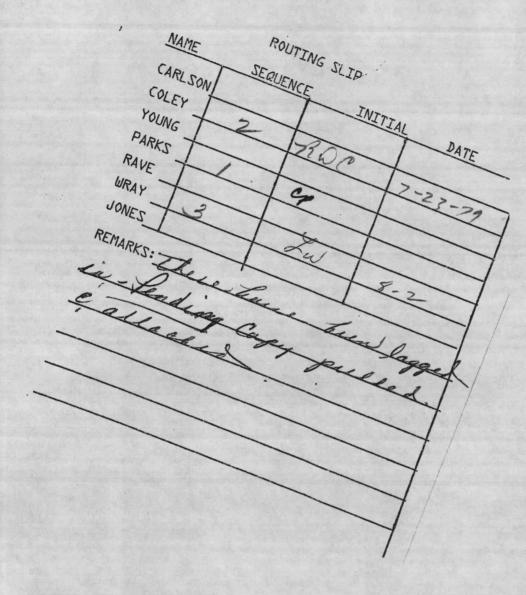
ATTN. Mr. John Grubbs - Code 05

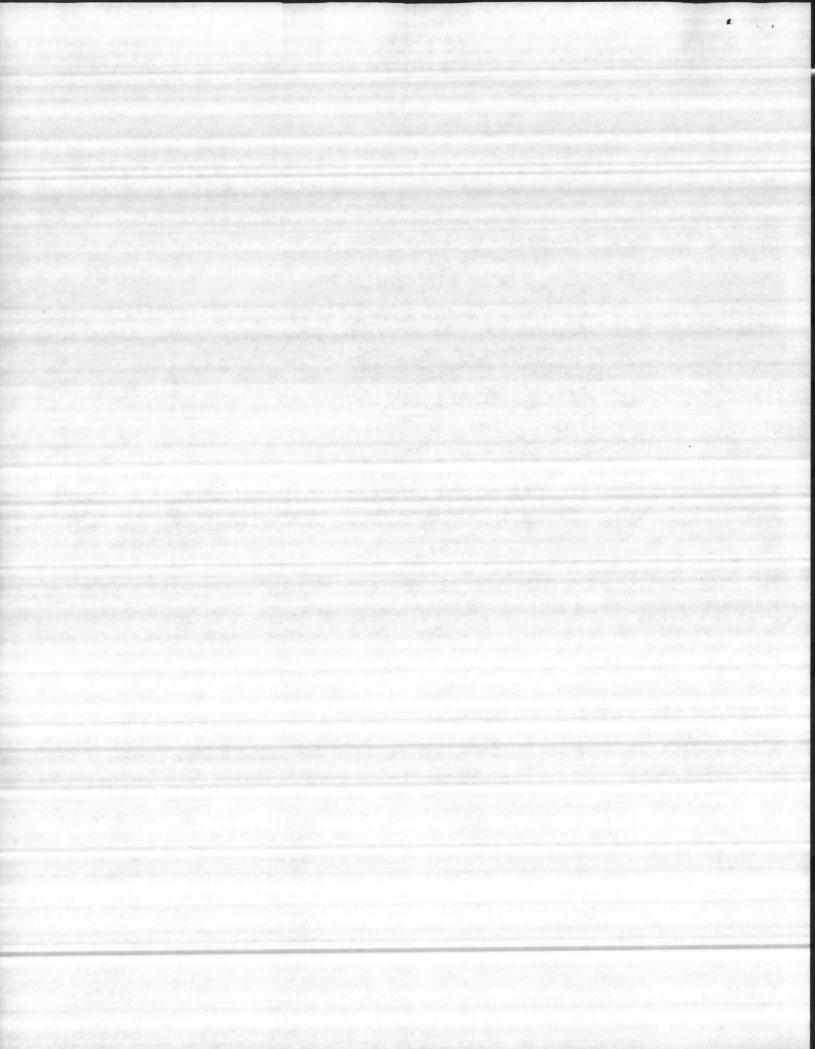
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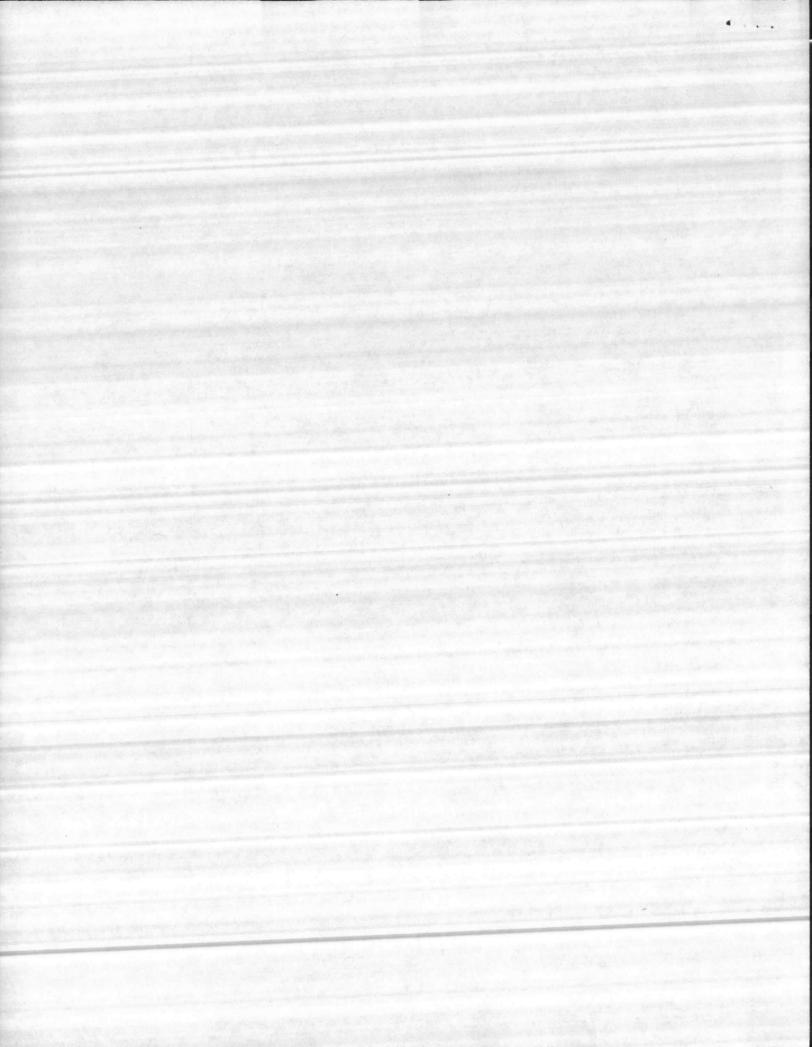
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## DRAWING AND SPECIFICATION TRANSMITTAL LOCKWOOD GREENE ENGINEERS. INC.

SPARTANBURG. SOUTH CAROLINA 29304 P.O. BOX 491 (803)582-2351 K

TO LANTDIV

Atlantic Division
Nav. Fac. Engr. Command
Norfolk, Va. 23511

DATE July 17, 1979 JOB NO. 77239.16 JOB NAME Lantdiv

TRANSMITTAL NO. 1277
SHEET | OF |
ORDER NO.

Contract # -N-62470-77-C-7526

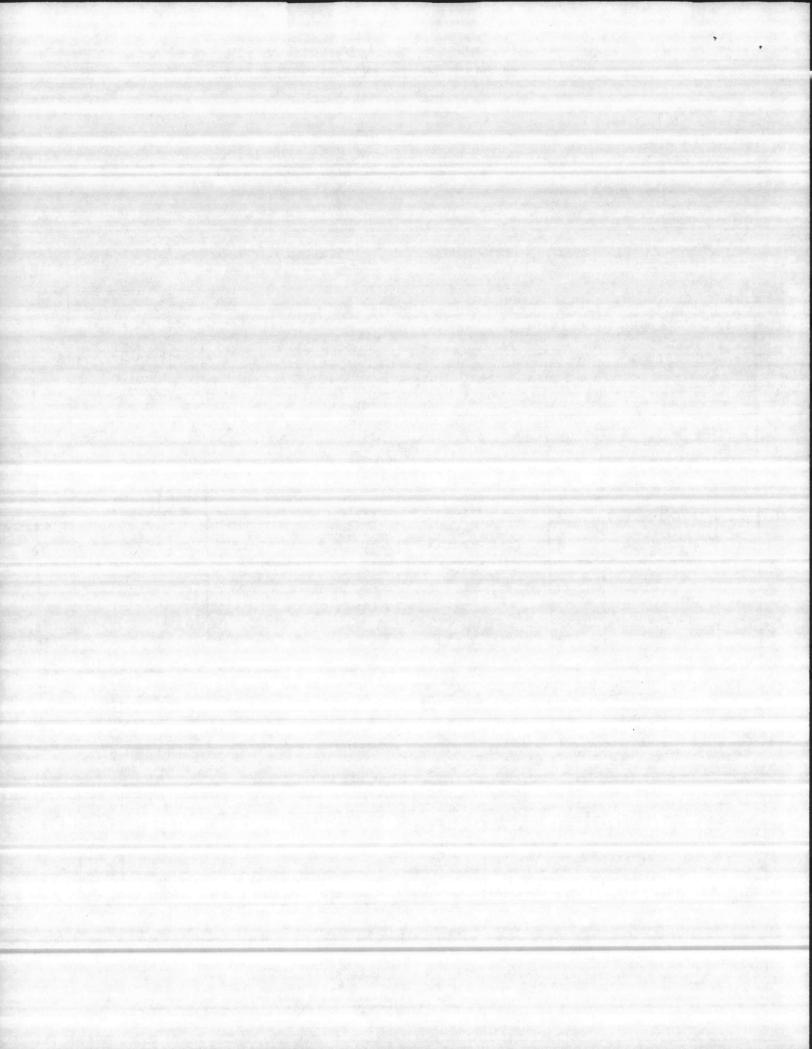
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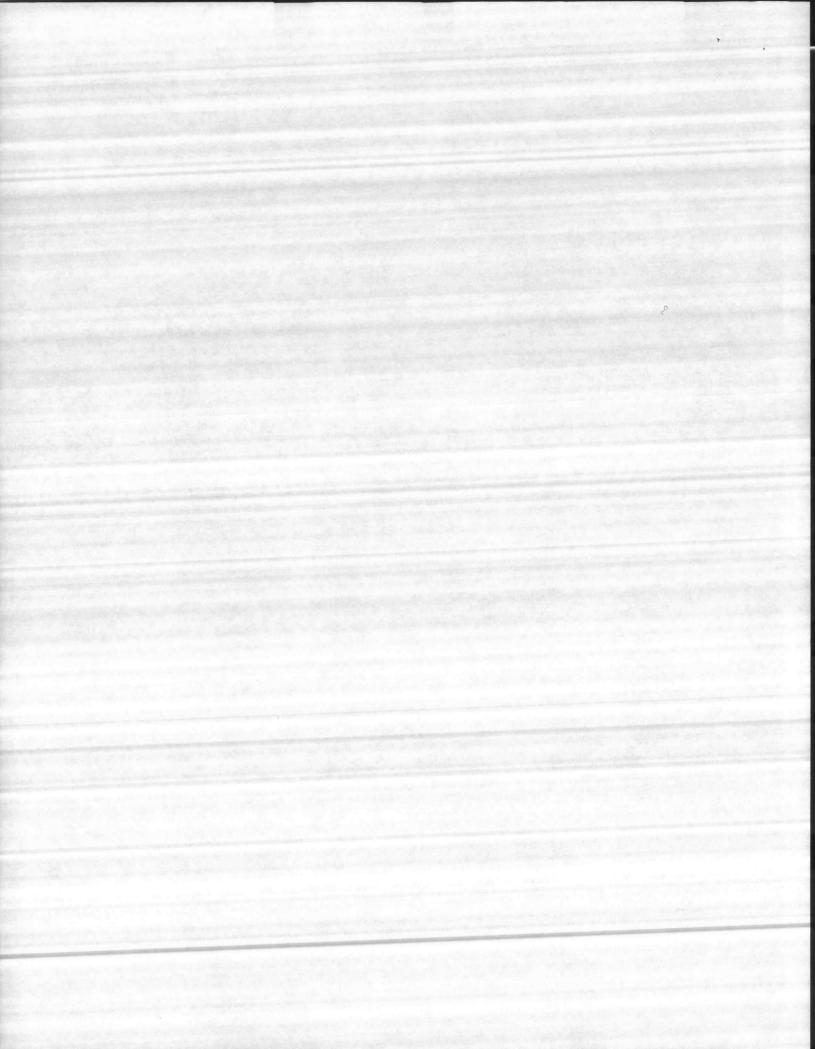
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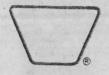


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A-E (1)
DATE
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### WOODFORD MANUFACTURING COMPANY

1626 DELAWARE AVE. - P.O. BOX 3369 - DES MOINES, IOWA 50316 - PH. 515 265-3401

June 22, 1979

Mr. Bill Corbin, Jr.
East Coast Construction Company
P 0 Box 5004
Jacksonville, N C 28540

Gentlemen:

Section 15272 Paragraph 4.7

CONTRACT N62470-77-C-7526 205 BED HOSPITAL NAVAL REGIONAL MEDICAL CENTER MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA

REFERENCE: YARD HYDRANTS FOR CONTRACT N6247077C 7526 NAVAL REGIONAL MEDICAL CENTER

This is to certify that the Model Y70 freezeless yard hydrant meets the specifications on Contract N6247077C 7.526 Section 15272, paragraph 4.7

Sincerely,

Vernon L. Kelly

Vice President-Sales

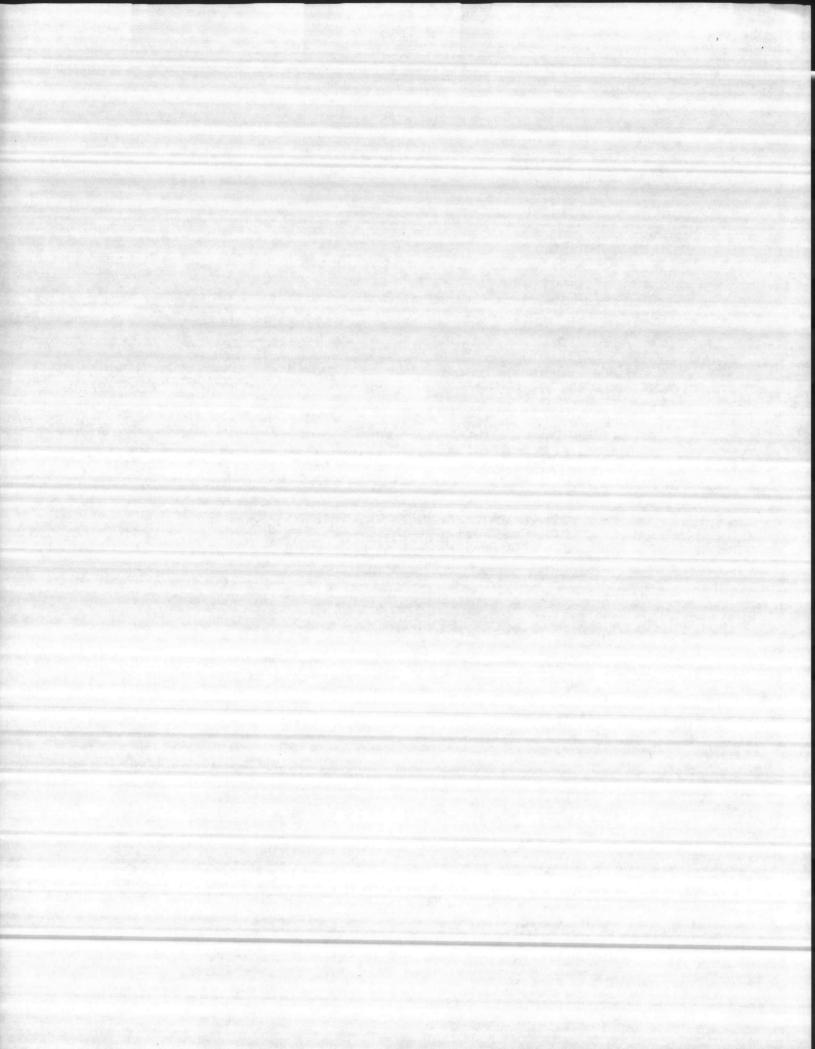
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Section 15272 Paragraph 4,7



CONTRACT N62470-77-C-7526 205 BED HOSPITAL Freezeless Yard Hydrants NAVAL REGIONAL MEDICAL CENTER MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLIN Lawn Hydrant Models Y70 and Y95

Lawn hydrants install flush with surrounding surfaces, and are intended for use on golf courses, in parks and recreation areas, shopping center malls, and landscaped areas around buildings.

TAMPER PROOF — Hinged cover locks with same tee key that operates hydrant, prevents unauthorized use.

ONE PIECE VARIABLE FLOW PLUNGER - Large cushion type seal for longer life - is not easily damaged and assures positive shut-off even when foreign particles are present. Automatic drain feature - plunger positively opens drain to prevent freezing - positively closes at any flow to prevent wasting water.

PARTS REPLACEMENT — Head nut assembly can be removed for ready access to internal parts.

SPECIFICATIONS: - Y70

BOX — Brass casting. Dimensions same as B71. PACKING NUT ASSEMBLY — Adjustable packing nut. Lock nut prevents packing nut from loosening. Teflon impregnated packing.

FINISH - Brass box, door, and head casting.

INLET - 3/4" N.P.T.

DRAIN HOLE — Tapped for 1/8" N.P.T.

CASING — 1" galvanized steel pipe

OPTIONAL — 1" brass pipe outer casing, 3/8" brass pipe operating rod.

BRASS NOZZLE — 3/4" Male hose thread **BURY DEPTH (feet)** 

2 SHIPPING WEIGHT (lbs.) 12 15 17/19

SPECIFICATIONS: - Y95

VACUUM BREAKER - Nidel Model 34HW with 3/4"/Male hose thread

BOX — Deep box, cast brass. Dimensions same as 95. PACKING NOT ASSEMBLY — Adjustable packing nut. Lock nut prevents packing nut from loosening. Teflon impregnated packing.

FINISH - Brass box, door, and head casting.

INLET - 3/4" N.P.T.

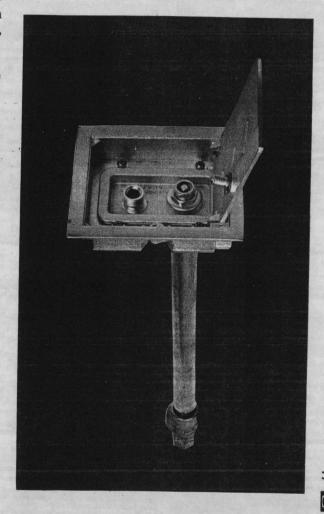
DRAIN HOLE — Tapped for V." N.P.T. CASING — 1" galvanized steel pipe

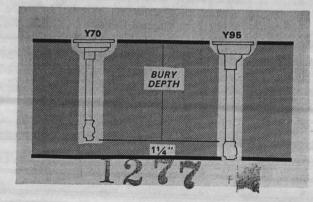
OPTIONAL — 1" brass pipe outer casing

3/8" brass pipe operating rod.

BRASS NOZZLE -Male hose thread BURY DEPTH (feet)

SHIPPING WEIGHT (lbs.) 14 16 18

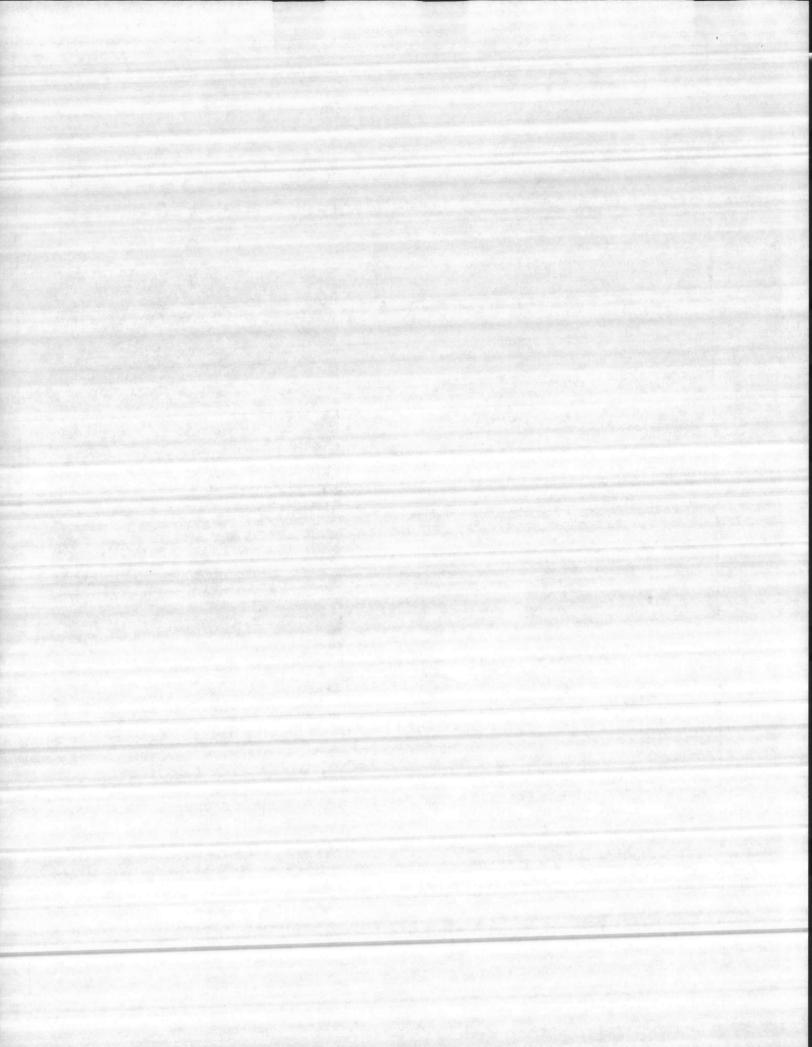




WHEN ORDERING, SPECIFY MODEL AND BURY DEPTH.

9/77 FORM NO. 67.104

@ 1975 WOODFORD MFG. CO.



#### LUCKWUUU GREENE

ARCHITECTS . ENGINEERS

JOB NO.

SHEET NO.

DATE

COMPUTED BY

		DATE
JOB NAME	BLDG	COMPUTED BY
SUBJECT		CHECKED BY

ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VIRGINIA 23511

APPROVED AS NOTED DISAPPROVED

SUBJECT TO THE REQUIREMENTS OF CONTRACT NO. N62470-77-C-7526

APPROVAL OF A SUBMITTAL DOES NOT INCLUDE APPROVAL OF ANY DEVIATION FROM THE CONTRACT REQUIREMENTS UNLESS THE CONTRACTOR CALLS ATTENTION TO AND SUPPORTS THE DEVIATION...THE CONTRACTOR SHALL BE RE-EPONSIBLE FOR PROVIDING PROPER PHYSICAL DIMENSIONS & WEIGHTS. COORDINATION OF TRADES, ETC. AS REQUIRED

REVIEWED Muncle

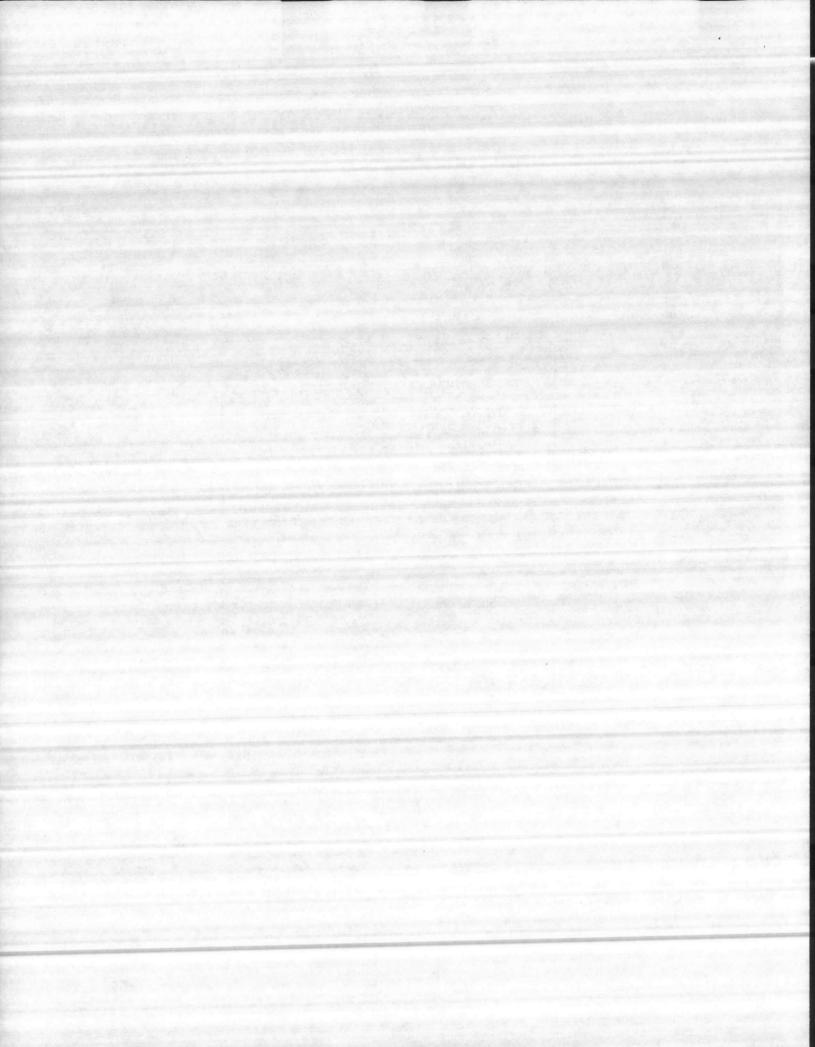
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FOR OFFICER IN CHARGE OF CONSTRUCTION

FILE NO.
Lockwood Greene Engineers, Inc.
RECEIVED

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# Certificate of Compliance

### AMERICAN-DARLING VALVE & MANUFACTURING DIV.

AMERICAN CAST IRON PIPE COMPANY BIRMINGHAM, ALABAMA, USA

CUSTOMER DAVIS METER & SUPPLY

DATE June 20, 1979

CUSTOMER ORDER D1-83-883-15

A-D ORDER 9-77872

The 15 5 1/4" B62B Hydrants on the subject order for Hospital Job N6247077C7526 were manufactured and factory tested in accordance with AWWA C502-74.

CONTRACT N62470-77-C-7526
205 BED HOSPITAL
NAVAL REGIONAL MEDICAL CENTER
MARINE CORPS BASE
CAMP LEJEUME, NORTH CAROLINA

Section 15272 Paragraph 4.5

1277

WE CERTIFY THE ABOVE INFORMATION TO BE CORRECT TO THE BEST OF OUR KNOWLEDGE AND BELIEF.

SUBSCRIBED AND SWORN BEFORE ME THIS

20

DAY OF Jun

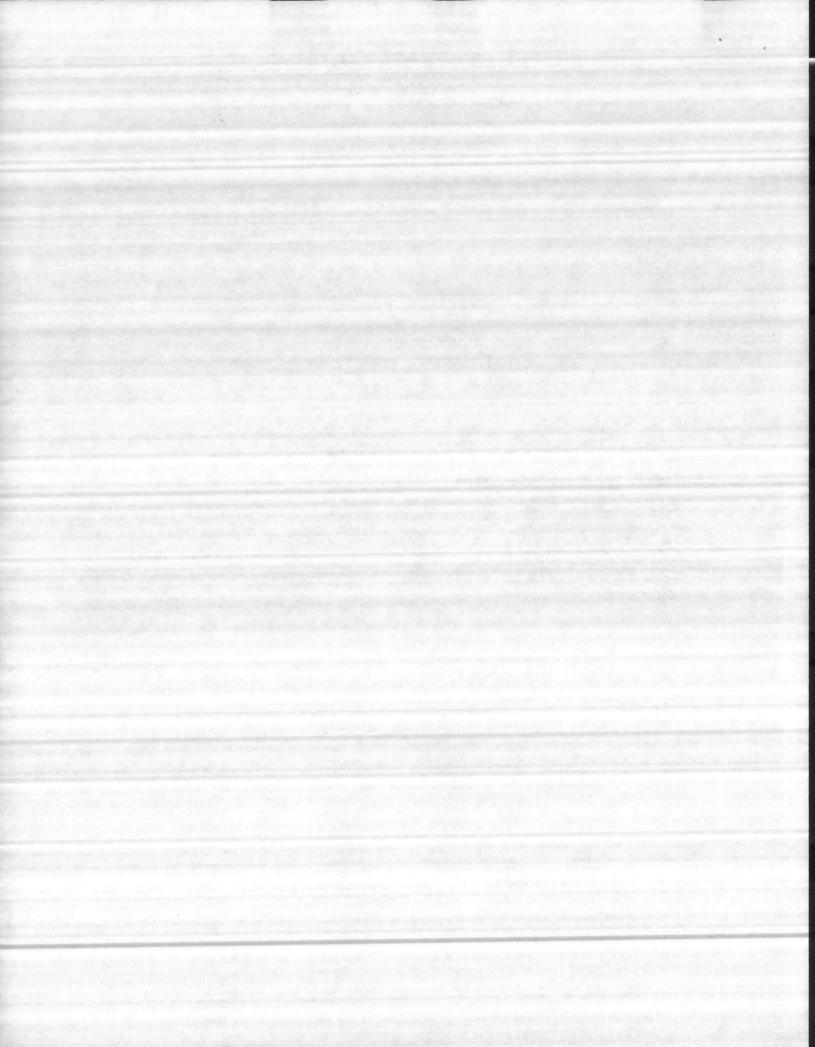
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NOTARY PUBLIC

Netary Public, State of Alabama at Large Mr. Commission Supires December 15, 1980 AMERICAN-DARKING VALVE & MANUFACTURING

Chief Engineer

M-566



## Certificate of Compliance

#### AMERICAN-DARLING VALVE & MANUFACTURING DIV.

AMERICAN CAST IRON PIPE COMPANY BIRMINGHAM, ALABAMA, USA

CUSTOMER DAVIS METER & SUPPLY

DATE June 20, 1979

CUSTOMER ORDER D1-83-883-15

A-D ORDER V2930, 9-77872

The 6", 8" and 10" No. 50 AC and 55 gate valves on the subject orders for Hospital Job N6247077C7526 were manufactured and factory tested in accordance with AWWA C500-71.

CONTRACT N62470-77-C-7526
205 BED HOSPITAL
NAVAL REGIONAL MEDICAL CENTER
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

Section 15272 Paragraph 4,4

1277

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SUBSCRIBED AND SWORN BEFORE ME THIS

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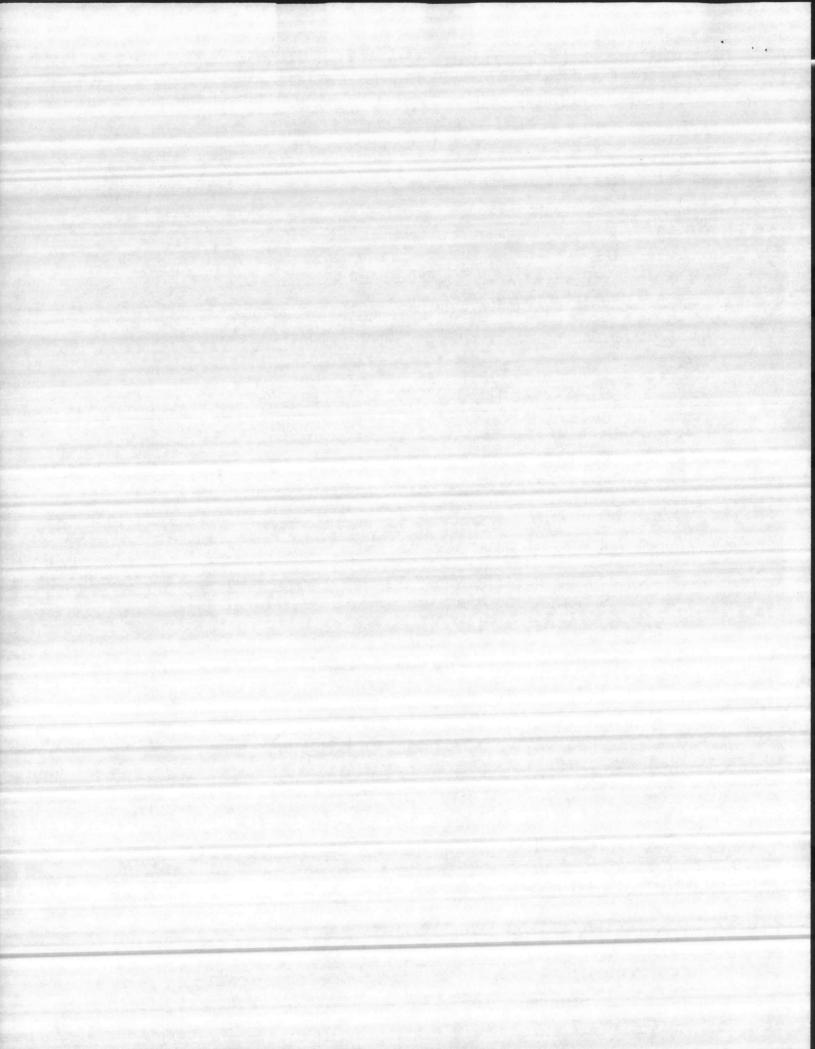
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Netwy Public, State of Alabama at Large My Commission Expires December 15, 1980 AMERICAN-DARLING VALVE & MANUFACTURING Chief Engineer

M-566



# Gate Valve NAVAL REGIONAL MEDICAL CENTER Switches

CONTRACT N62470-77-C-7526 205 BED HOSPITAL

MARINE CORPS BASE

CAMP LEJEUNE, NORTH CAROLINA

Section 15272 Paragraph 4.4.1

The Model OSYS-B and OSYS-U are gate valve switches designed to monitor OS&Y (outside screw & yoke) type gate valves.

One or more of these devices may be used with supervisory-type transmitters for Central Station operation or may be utilized in local systems, annunciators, bells, horns, etc.

The OSYS-B has one single pole, double throw microswitch for either normally open or normally closed circuits. This device will fit most OS&Y valves from 4" through 12" sizes.

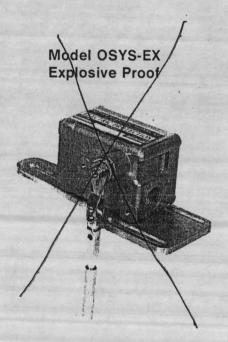
The OSYS-U has two single pole, double throw microswitches and is designed to fit most OS&Y valves from 1/2" through 12" sizes.

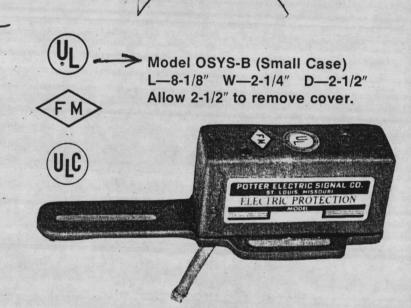
Both units incorporate cover tampers and are supplied with "J" bolts for mounting.

Installation is accomplished by filing a small notch in the side of the valve stem to receive the actuating roller rod on the gate valve switch and securing the device with the "J" bolts.

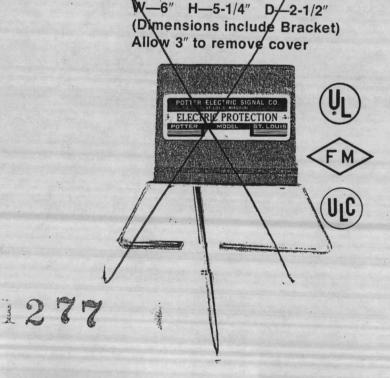
An explosion proof model is available with one single pole, double throw microswitch-Model OSYS-EX.

NOTE: For Demco (Grinnell) butterfly valves, see Models PIVS-B. PIVS-C & PIVS-U.

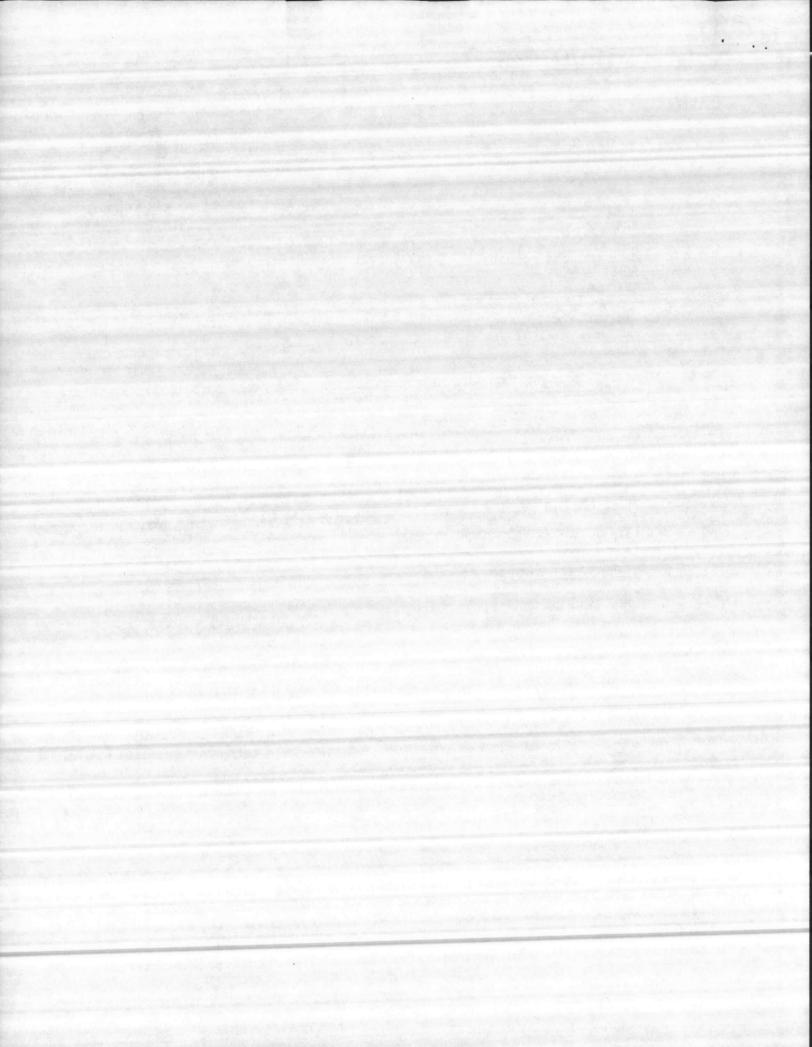




Model OSYS-B Without Cover



Model OSYS-U



#### DRAWING AND SPECIFICATION TRANSMITTAL LOCKWOOD GREENE ENGINEERS. INC.

SPARTANBURG. SOUTH CAROLINA 29304 (803)582-2351

TO Naval Facilities Engineering DATE Nov. 28, 1979

Command

Atlantic Division Norfolk, Va. 23511

JOB NO.77239.16 JOB NAMENaval Regional Medical Center ORDER NO.

TRANSMITTAL NO. 1904 SHEET 1 OF 1

716

710

719

Contract Number N-62470-77-C-7526

ATTN: Mr. John Grubbs Code 05

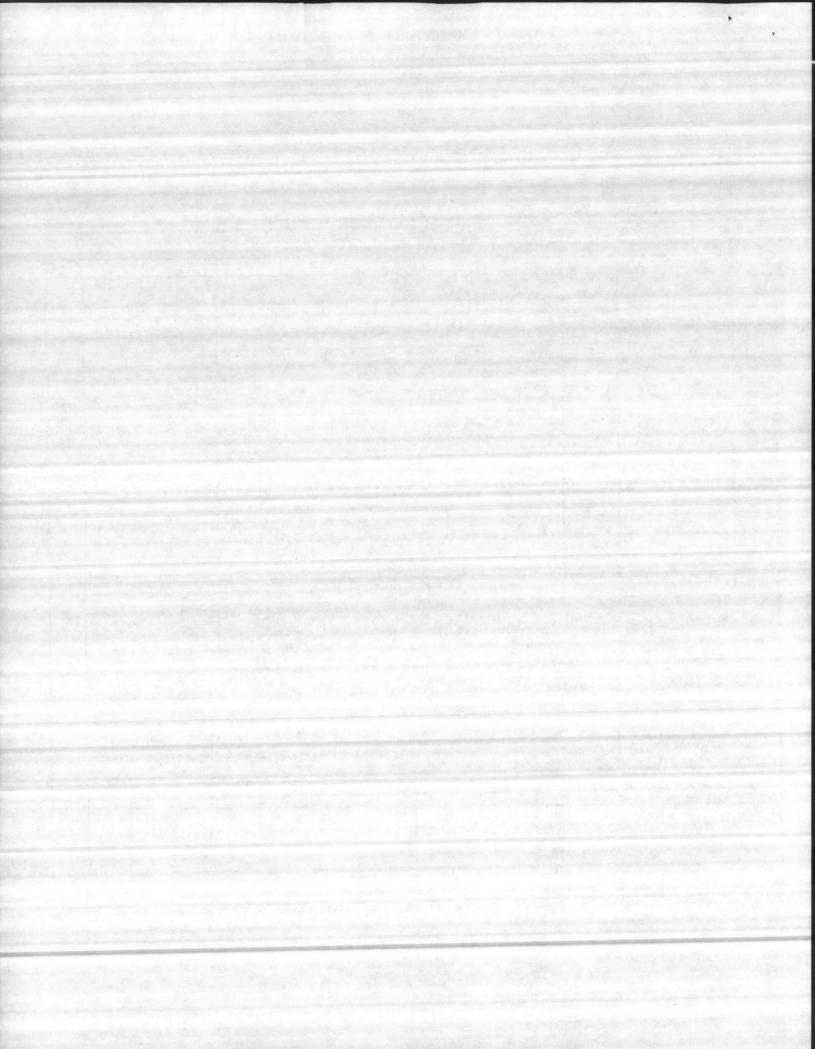
WE ARE SENDING YOU THE FOLLOWING DATA \_\_\_\_\_XX HEREWITH

UNDER SEPARATE COVER

QUAN.	DOCUMENT NO.	REV.NO.	A		DESC	CRIPTION			VENDOR	CODE
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REMARKS

PLEASE	ACKNOWLEDGE	RECEIPT	BY	IMMEDIATE	RETURN	OF	SIGNED	COPY	OF	THIS	TRA	NSMITTAL		
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# Recording the residence of the state of the

THE LAYING LENGTH



RECORDALL 15 (PLUS S SPUDS . 20 GPM CAPACITY





BED HOSPITAL

RACT N62470-77-000

WAVAL REGIONAL MEDICAL CENTER





MARINE CORPS BASE

CAMP LEJEUNE, NORTH CAROLINA



HOUND FLANGES & 180 GPM

20 GPM CAPACITY

CORDALL 25 (PLUS III DS - 30 GPM CAPACITY



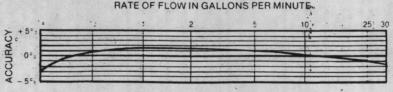
Olsc metere Intal these sizes and configurations are available from Badger Meter, Inc., Flow Products Division Recordalls are shown in black slinodettes, conventional disc meters in write. For a detailed description of plastic Recordalis, Models 15, 25 and 40, preuse refer to Bulletin AD.

SPEC. Section 15272 PARAGRAPH 4.8
YARD HYDRANT VALVE VALLES

#### WARRANTY

Badger warrants meters and parts manufactured by it and supplied hereunder to be free from defects in materials and workmanship for a period of 18 months from date of shipment or 12 months from date of installation, whichever period shall be shorter; except that for the sealed register unit, the warranty period shall be fifteen (15) years from date of shipment. If within such period any meters or parts shall be proved to Seller's satisfaction to be defective, such meters or parts shall be repaired or replaced at Seller's option. Seller's obligation hereunder shall be limited to such repair and replacement and shall be conditioned upon Seller's receiving written notice of any alleged defect within 10 days after its discovery and, at Seller's option, return of such meters or parts to Seller f.o.b. its factory. THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS OR IMPLIED WARRANTIES WHAT-SOEVER INCLUDING BUT NOT LIMITED TO IMPLIED WARRAN-TIES (EXCEPT OF TITLE) OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Badger shall not be liable for any defects attributable to acts or omissions of others after shipment.

MODEL 25



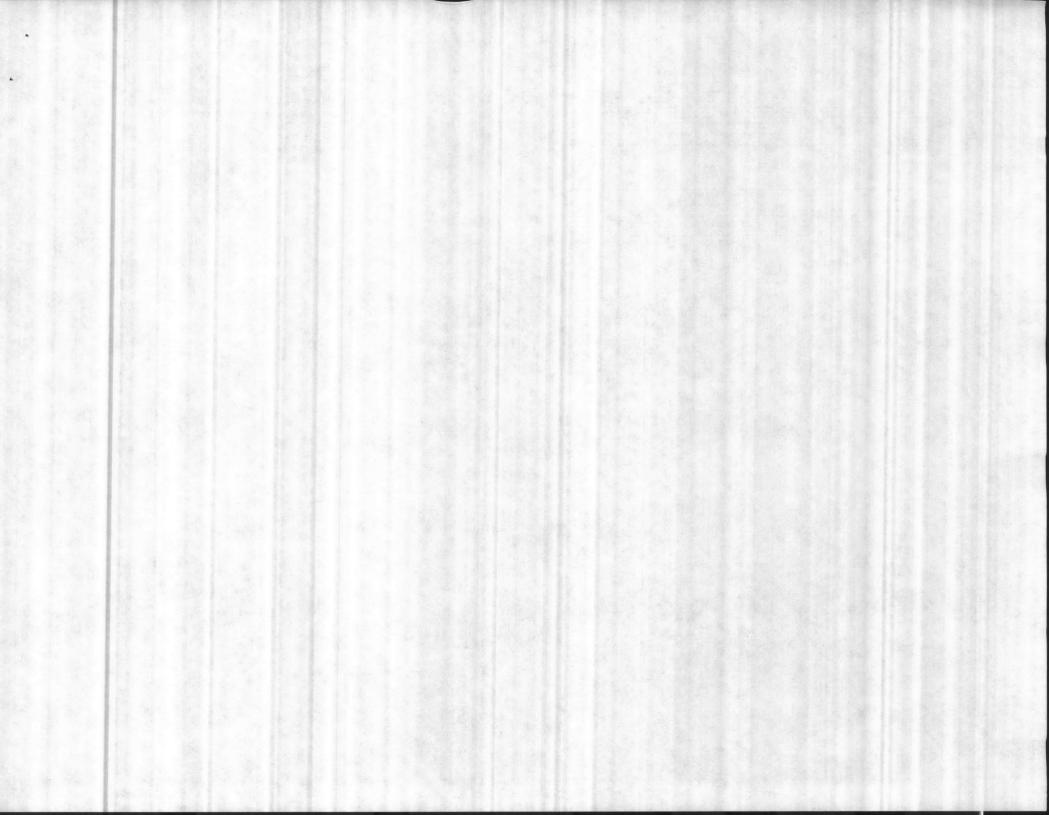
RATE OF FLOW IN GALLONS PER MINUTE

MODEL 70



RATE OF FLOW IN GALLONS PER MINUTE

80 100 MODEL 120



# t To Deliver More Water Revenue

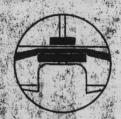
205 BED HOSPITAL NAVAL REGIONAL MEDICAL CENTER MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA

CONTRACT N62470-77-C-7526

RECORDALL FEATURES

#### SHETIC DRIVE

rates through top wall seter housing. No gears ater No packing glands



#### CORROSION RESISTANCE

Gears, chambers and many other parts molded of durable thermoplastic.



#### DREGISTER

igains i moisture lati Lecks anta



#### EASY SERVICING

Chambers and disc assemblies can be replaced with-out removing meter from line Mater components can be readily steamed with detergent and brush.



Histickles of water to Plow Finder to spin. signal plumbing



#### REMOTE REGISTER

Badger Read-o-Matic available as optional register for installations where access is difficult.



#### SPECIFICATIONS

MODEL 25 (PLUS 5) FLOW RANGE Minimum test flow: 1/4 gpm, accuracy 97% or better Normal test flow limits: 1/2 to 30 gpm, accuracy of 98.5 to 101.5%.

Normal operation capacity: 25 gpm. Safe maximum capacity: 30 gpm. Totalizer capacities. Up to 10 million gallons, 1 million cu. ft., 10,000 or 100,000 cu. meters.

#### **MODEL 70 (PLUS 30) FLOW RANGE**

Minimum test flow: % gpm, 97% accuracy. Normal test flow limits: 11/4 to 100 gpm, 98.5 to 101.5%

Normal operating capacity: 70 gpm. Safe maximum capacity: 100 gpm. Totalizer capacities: Up to 100 million gallons, 10 million cu.ft., 100,000 or 1 million cu. meters

MODEL 120 (PLUS 40) FLOW RANGE Minimum test flow. 11/4 gpm 97% accuracy.

Normal tes flow limits: 21/2 to 160 gpm, 98.5 to 101.5% accuracy.

Normal operating capacity: 120 gpm. Safe maximum capacity: 160 gpm.

Totalize capacities: Same as Model 70.

#### **MATERIALS**

Housings: bronze.

Bottom plates: cast iron standard, bronze optional on Model 25; bronze only on Models 70 and 120.

Chamber, partition plate, thrust roller, gear train, screen, register lid and clamp ring: all molded of thermo-

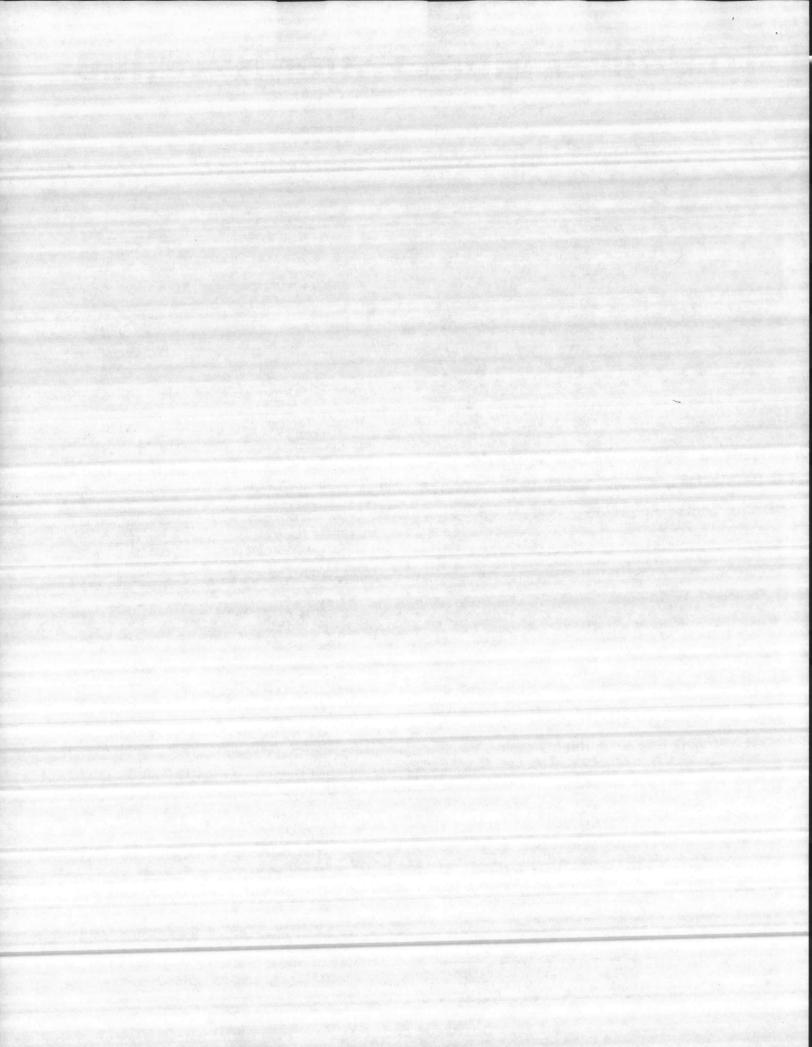
Nutating disc: thermoplastic on Model 25, hard rubber on Models 70 and 120.

Chamber O Ring: Buna N.

Thrust roller insert, disc and magnet spindles: 316 stainless steel.

Magnets: Barium ferrite.

OPERATING PRESSURES: 150 psi maximum. OPERATING TEMPERATURES: 38°F to 80°F.



# Badger Recordall . . . Sized Righ

Recordall disc meters quickly pay for themselves by increasing water revenue. The reason for this is a totally new approach to meter, sizing.

In developing Recordall, Badger took into account evidence that water meters generally have been oversized and that a substantial amount of water has not been adequately measured at low flows.

Recordall was designed, therefore, to improve accuracy and revenue in a "practical" flow range that closely matches typical usage.

The new sizing concept has become so firmly established that Badger now offers Recordall disc meters with bronze housings for certain specialized applications in addition to its thermoplastic Recordalls for residential and small commercial installations. The bronze meters are designated as Model 25 (plus 5), Model 70 (plus 30) and Model 120 (plus 40).

With Recordall disc meters, the model number corresponds to the upper limit of the "practical" flow range. The plus factor designates reserve capacity for intermittent use. Thus, the Model 25 (plus 5) is intended primarily for applications up to 25 gpm, but will function satisfactorily up to 30 gpm.

Bronze Model 25 meets or exceeds Standard C-700 of the American Water Works Association for materials and disc nutations in a %" meter. It is designed for water utilities that prefer bronze for pit settings and certain other applications, even though it does not offer the initial economy, corrosion resistance and long-term maintenance savings of Recordall plastic meters.

Except for housings and bottom plates, the bronze and plastic versions of Recordall Model 25 use

the same major components, including registers, hoods and measuring chambers. With a 7½" laying length, bronze Model 25 is interchangeable with a conventional %" meter, a plastic Model 15 Recordall or a plastic Model 25S.

Models 70 and 120 are for applications which require larger capacities than the plastic meters presently available. They are offered in a wide selection of laying lengths and end connections (see chart on back page).

As shown on this same chart, the Recordall product line generally gives your water utility a choice of two or more disc meters in the same laying length, but with different capacities. That way, you pay only for the capacity you need—not more than you need. And you don't sacrifice accuracy and revenue at low flows.

#### **Recordall Design Improves Accuracy**

Recordall's innovative sizing concept and certain design features help to improve meter accuracy, especially in the low flow range where other meters are least efficient. Here are three major reasons for the high accuracy performance:

Gears and many other components are molded of lightweight, but durable plastics which "run smooth" and impose very little load on the measuring elements.

—An O ring on the chamber's outlet port effectively seals the area between chamber and meter housing.

GPM 11/2

—A powerful magnetic coupling is used to drive the meter's register, thus eliminating the friction load and drag associated with stuffing box meters.

As shown in the accompanying graph, AWWA standards for a 1½" meter call for 95% accuracy at minimum test flow of 1½ gpm and 98.5 to 101.5% accuracy above 5 gpm. Recordall Model 70 beats that hands down with 97% accuracy at % gpm and 98.5 to 101.5% starting as low as 1¼ gpm.

CONTRACT N62470-77-C-7526

205 BED HOSPITAL NAVAL REGIONAL MEDICAL CENTER

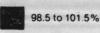
MARINE CORPS BASE

CAMP LEJEUNE, NORTH CAROLINA

GPM % 11/4 RECORDALL 70 (PLUS 30)

100

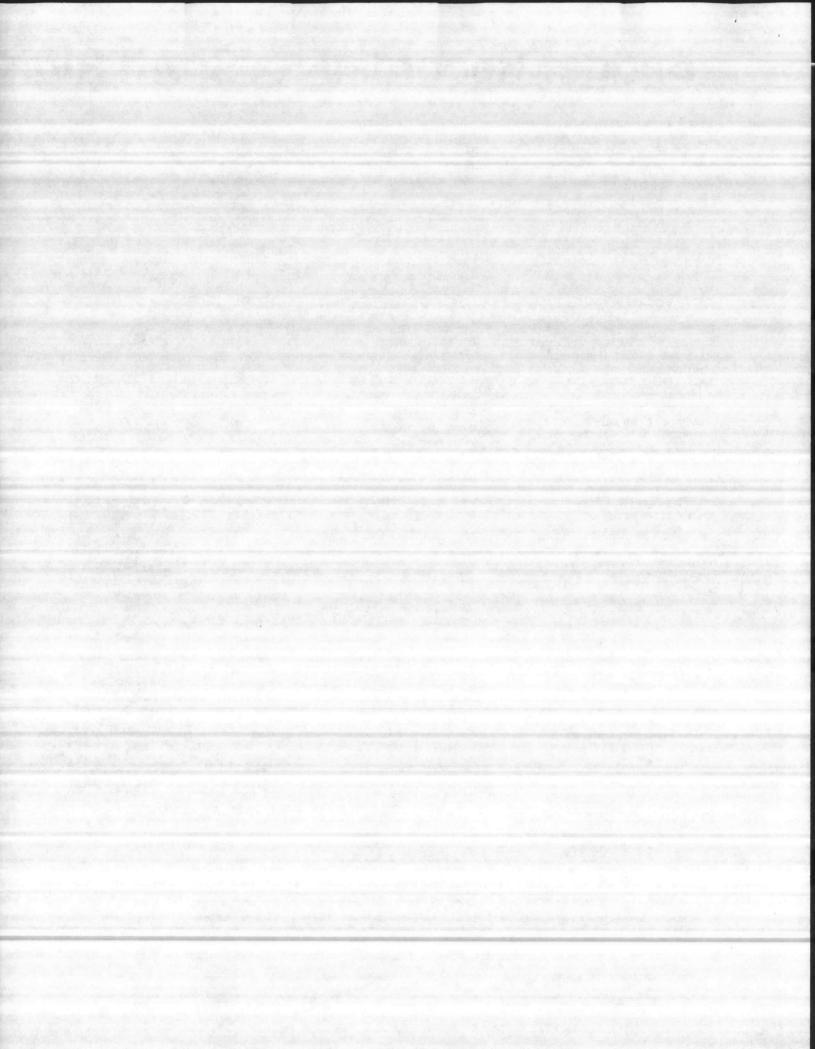
97% Recordall 95% AWWA



Model 25 Recordall with Optional

Read-o-Matic for Remote Reading

Practical Use Range Extra Capacity AWWA STANDARD 1 1/2 " MEYER 100



FRODUCTS INC. Water Meter & Controls Departure 1874 Piedmont Road, N.E., Suite 210B. Atlanta. Georgia 303. 1, 1011.874.5

June 8, 1979

RECEIVED

NOV 21 1979

REF, TO

ACK

Mr. Bill Corbin, Jr.
East Coast Construction Company
P. O. Box 5004
Jacksonville, North Carolina 28540

Dear Mr. Corbin:

Reference is made to #205 DED Naval Hospital Job, Contract Number N6247077C7526 on 1 - 6" MCT Compound Water Meter.

This letter is to certify the Model MCT meets or exceeds  $\mbox{\em AWWA}$  Standard C702-70.

Very truly yours,

HERSEY PRODUCTS INC.

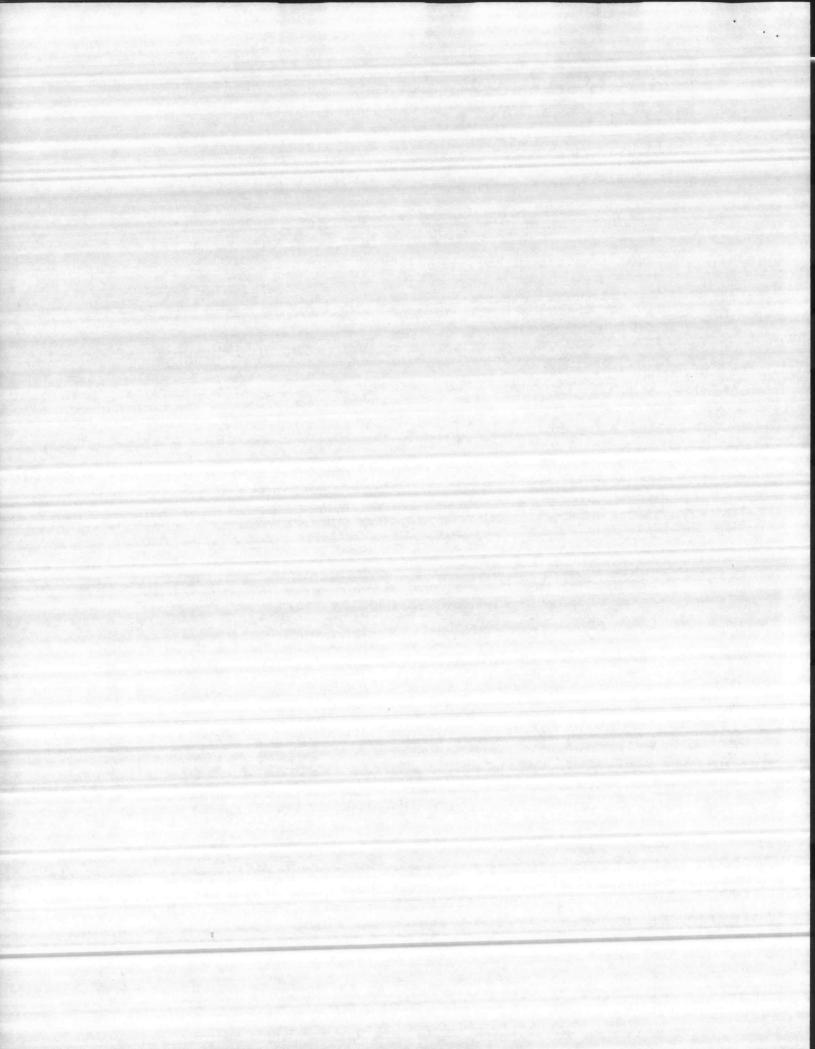
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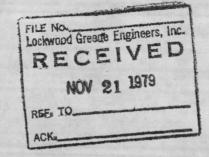
Administrative Assistant

rlm

cc: Mr. Robert Stokely, Davis Meter & Supply, Raleigh, N. C.

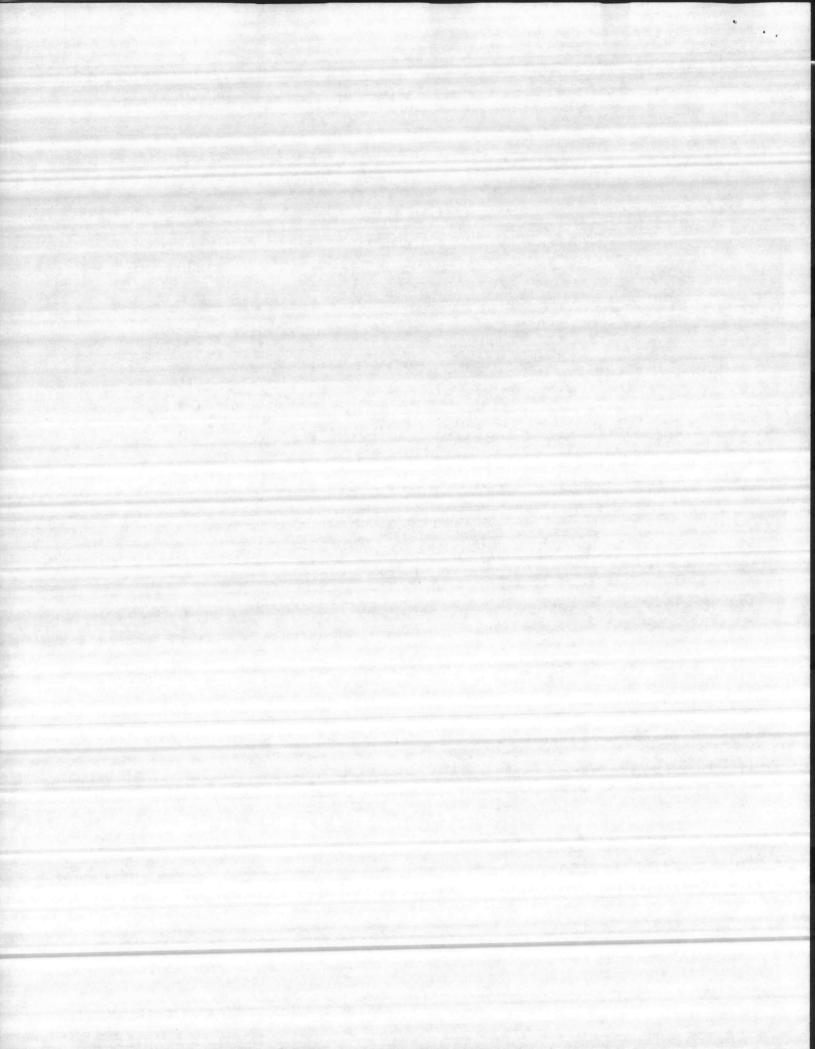
Jan 8, 1979



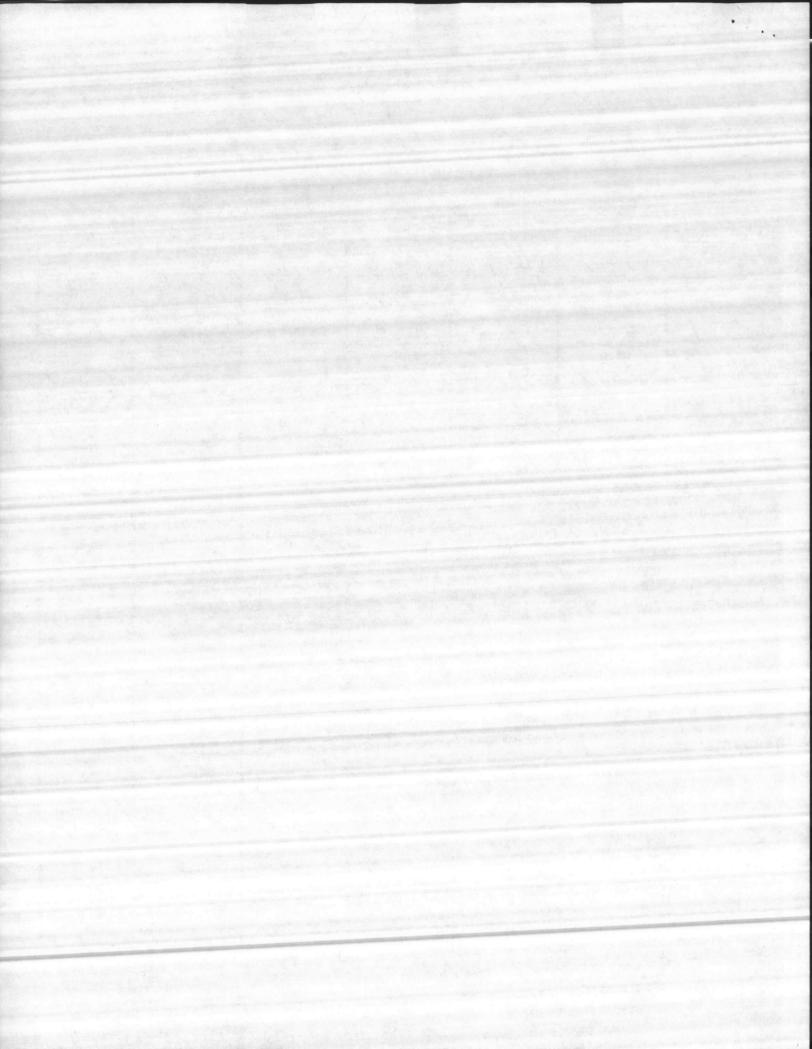


### NAVAL FACILITIES ENGINEERING COMMAND NORFOLK, VIRGINIA 23511

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FOR OFFICER IN CHARGE OF CONSTRUCTION



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# DRAWING AND SPECIFICATION TRANSMITTAL LOCKWOOD GREENE ENGINEERS.INC.

SPARTANBURG. SOUTH CAROLINA 29304 P.O. BOX 491 (803)582-2351

To Naval Facilities Engineering
Command
Atlantic Division
DATE Jan. 16, 1980
JOB NO. 77239.16

Atlantic Division Norfolk, Va. 23511 JOB NO. 77239.16

JOB NAME Naval Regional Medical
Center

TRANSMITTAL NO. 77
SHEET 1 OF 1
ORDER NO.
Contract No.

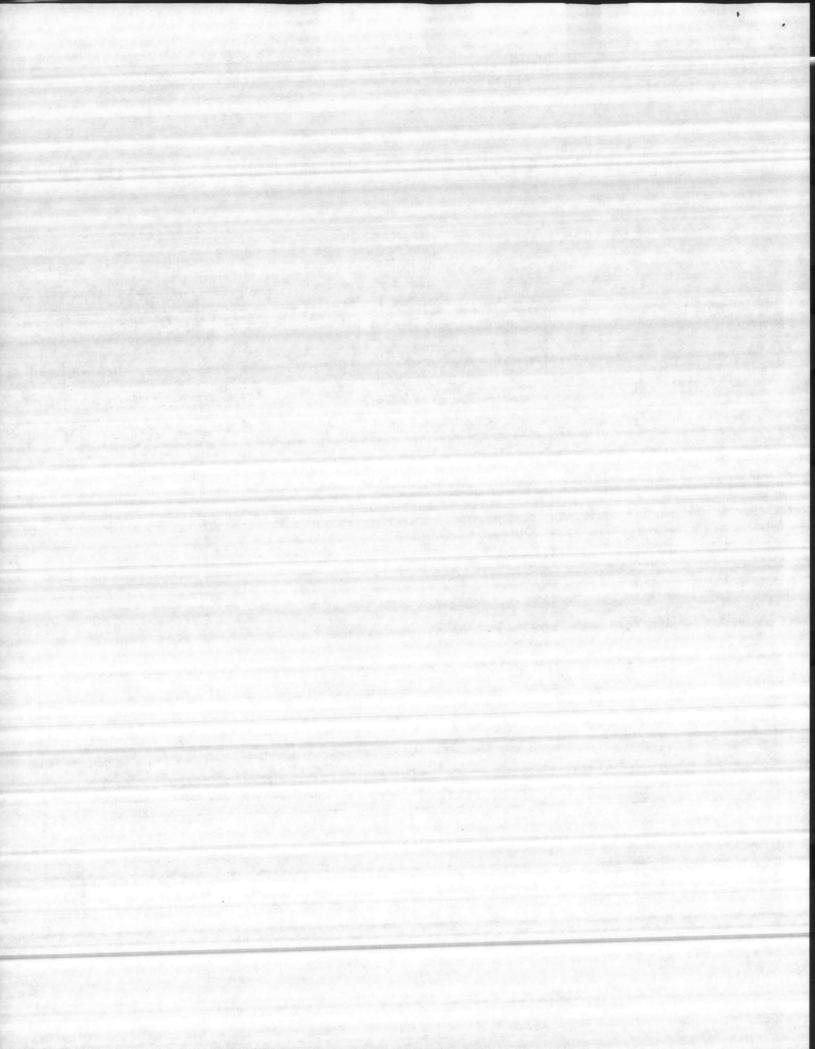
ATTN: Mr. John Grubbs Code 05

N-62470-77-C-7526

WE ARE SENDING YOU THE FOLLOWING DATA XX HEREWITH UNDER SEPARATE COVER QUAN. DOCUMENT NO. REV. NO. DESCRIPTION VENDOR CODE 1 Cat. Data Backflow Preventer BEECO A 1 Antifreeze Device Ogontz Control AN 1 353½ 2" Y Straingers Mueller A 1 Backflow Preventer Letter of Certification Beeco A 1 Letter of Certification Strainer Mueller A CODE FOR LOCKWOOD GREENE DOCUMENTS VENDOR DOCUMENTS A - INFORMATION E - BID K - NO CORRECTIONS NOTED B - REVIEW F - CONSTRUCTION L - MAKE CORRECTIONS NOTED C - APPROVAL G - PURCHASING M - REVISE AND RESUBMIT D - REVISED DWG. (SEE REVISION) N - REJECTED (SEE REMARKS) COPIES TO TRANS QUAN CODE TRANS COPIES TO ONLY QUAN CODE ROICC ONLY 2 Cardinal Contracting 3 REMARKS

PLEASE ACKNOWLEDGE RECEIPT BY IMMEDIATE RETURN OF SIGNED COPY OF THIS TRANSMITTAL

RECEIVED BY \_\_\_\_\_ DATE \_\_\_\_\_ TRANSMITTED BY Richard McKnight



ROUTING SLIP
NRMC, CLNC

INT. DATE REMARKS

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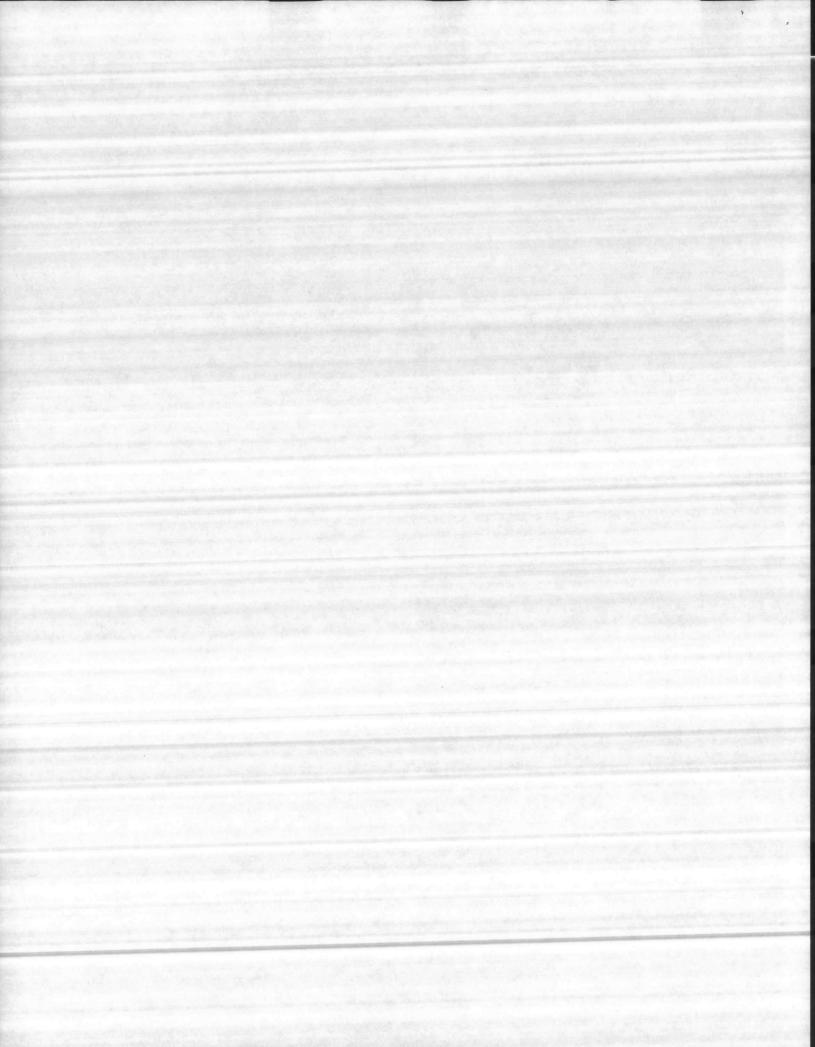
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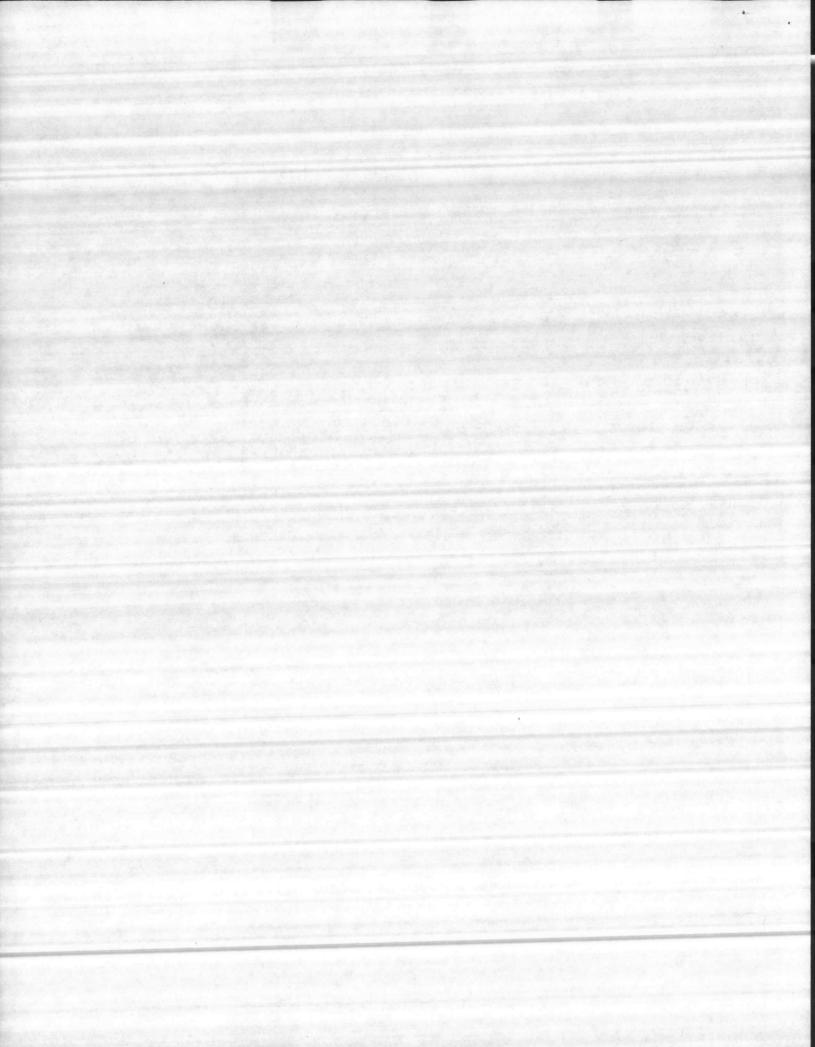
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SEC'Y TO FILE

ACTION:



CONTRACTOR USE ONLY  **List only one of the following categories on each transmittel form.  **List only one of the following categories on each transmittel form.  **CTON CODES  **ACTON CODES  **ACTON CODES  **ACTON CODES  **ACTON CODES  **ACTON CODES  **ASproved as noted RA. Receive accommendation indicated in REVIEWER USE ONLY Section and in comments below on ONE COPY.  **REVIEWER'S COMMENTS  **REVIEWER'S COM	5ND LANTDIV 4-4355/3 (Rev. 6/7	SECTION 15272 SECTION 15272	PROJECT TITLE AND LOCATION	TRANSM 71	TTAL NO.	7 1-3-80
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List only one of the following categories on each transmitted form, and indicate which is being submitted    Contractor Approved			orm.			
COPY OF TRANSMITTAL AND SUBMITTALS TO ROICC  COPY OF TRANSMITTAL AND SUBMITTALS TO ROICC  Deviation/Substitution  Code approval From (Reviewer)  COPY of Transmittal are returned with action indicated. Approval of an item does not include approval of any deviation from the contract requirements unless the tractor calls attention to and supports the deviation.  Code and Data for the contract requirements unless the tractor calls attention to and supports the deviation.  Code and Data for the contract requirements unless the tractor calls attention to and supports the deviation.  Code and Data for Code		List only one of the following categories on each tra	ansmittal form,	Age.	D-Disa AN-Ap	pproved proved as noted
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COPY OF TRANSMITTAL AND SUBMITTALS TO ROICC  CONTRACTOR REPRESENTATIVE (Signature))  DATE RECEIVED BY REVIEWER  FROM (Reviewer)  Submittals are returned with action indicated. Approval of an item does not include approval of any deviation from the contract requirements unless the tractor calls attention to and supports the deviation.  Submittals are forwarded to LANTDIV with A-E recommendations indicated in REVIEWER USE ONLY Section and in comments below on ONE COPY transmittal form.	7 3.2	BEECO BACKFLOW	PREVENTER	7	A	BT 1/14/
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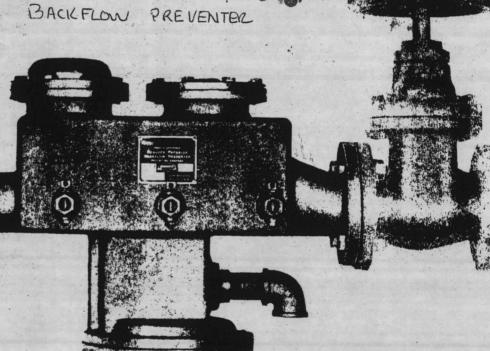


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Cater Meter & Controls Division
Cater Mass 02026 GLAIS25 9400

MODEL 6-C 1" 1\%" 2" 2\%" 3" 4" 6" 8" 10"

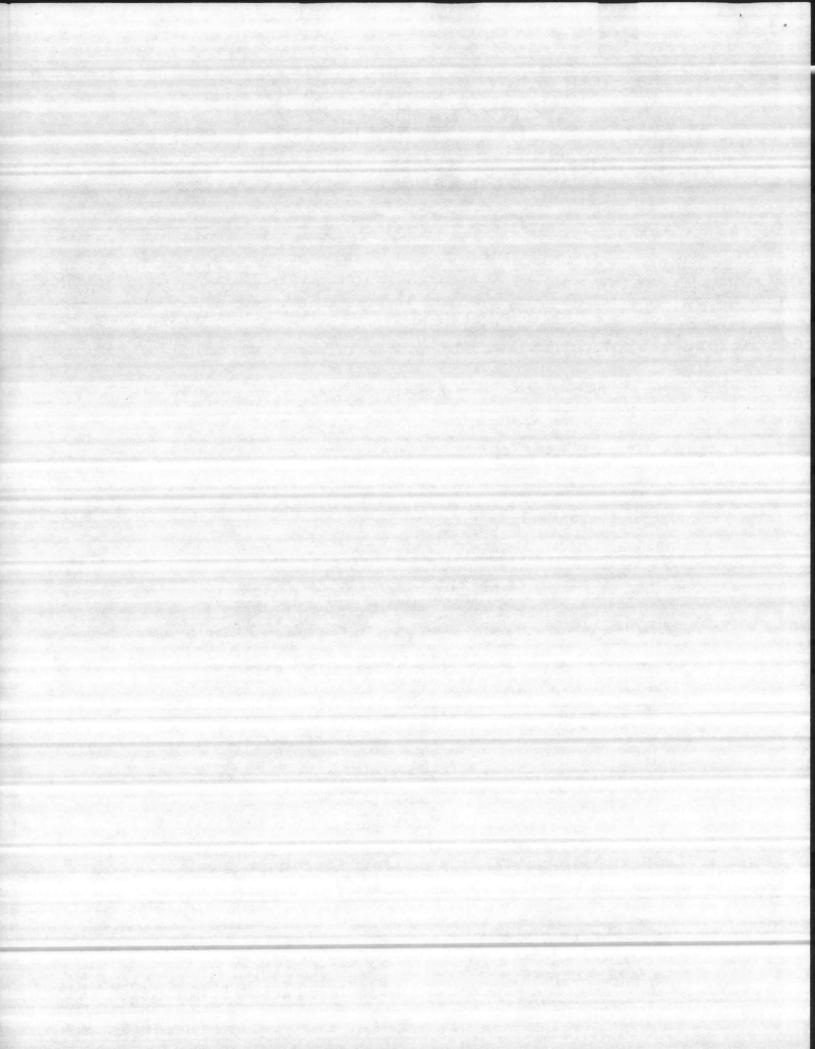
SELTION 15272 PARAGRAPH 8. BACKFLOW PREVENT



3" MODEL 6-C



REDUCED PRESSURE backflow/preventer



DESCRIPTION

The BEECO Reduced Pressure Backflow Preventer operates on the principle that water will not flow from a zone of lower pressure to one of higher pressure.

The device consists of two spring-loaded check valves and a spring-loaded, diaphragm actuated, differential pressure relief valve located in the zone between the check valves.

#### OPERATION NORMAL:

The check valves remain closed until there is a demand for water. In opening and crossing the first check valve, water is reduced in pressure by a predetermined amount. The differential pressure relief valve remains in a closed position because of the differential between the supply pressure and the reduced pressure within the zone. The second check valve is lightly loaded and remains open as water flows through the device in the normal direction.

#### BACKPRESSURE:

In the event pressure increases downstream of the device, tending to reverse the direction of flow, both check valves are closed and operating to prevent backflow.

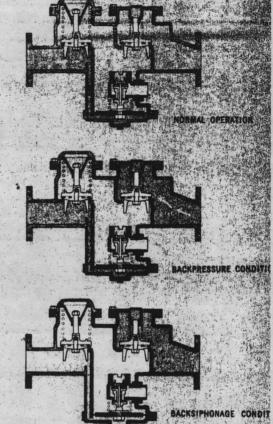
Because any check valve may leak as a result of wear or obstruction, the protection provided by check valves alone is not sufficient where there is a health hazard. If the second check valve is prevented from closing tightly, leakage back into the zone increases the zone pressure to within a few pounds of the supply pressure, the relief valve opens, and water is discharged to atmosphere. The relief valve operates automatically to maintain pressure within the zone lower than the supply pressure.

When supply pressure drops, the relief valve opens automatically and drains enough water to atmosphere to maintain pressure in the zone lower than the supply pressure.

#### BACKSIPHONAGE:

When the supply pressure drops below atmospheric, the pressure in the zone will be atmospheric and the relief valve will remain fully open, providing, in effect, an air gap between the two check valves.

BEECO BACKFLOW PREVENTERS MEET THE REQUIREMENTS OF
Research Foundation for Cross-Connection Control, University of Southern California/U.S. Army Corps of Engineers/
U.S. Navy/IAMPO/Southern Building Code Congress/AWWA/ASSE.



	MODEL 6-C	8" SIZE	
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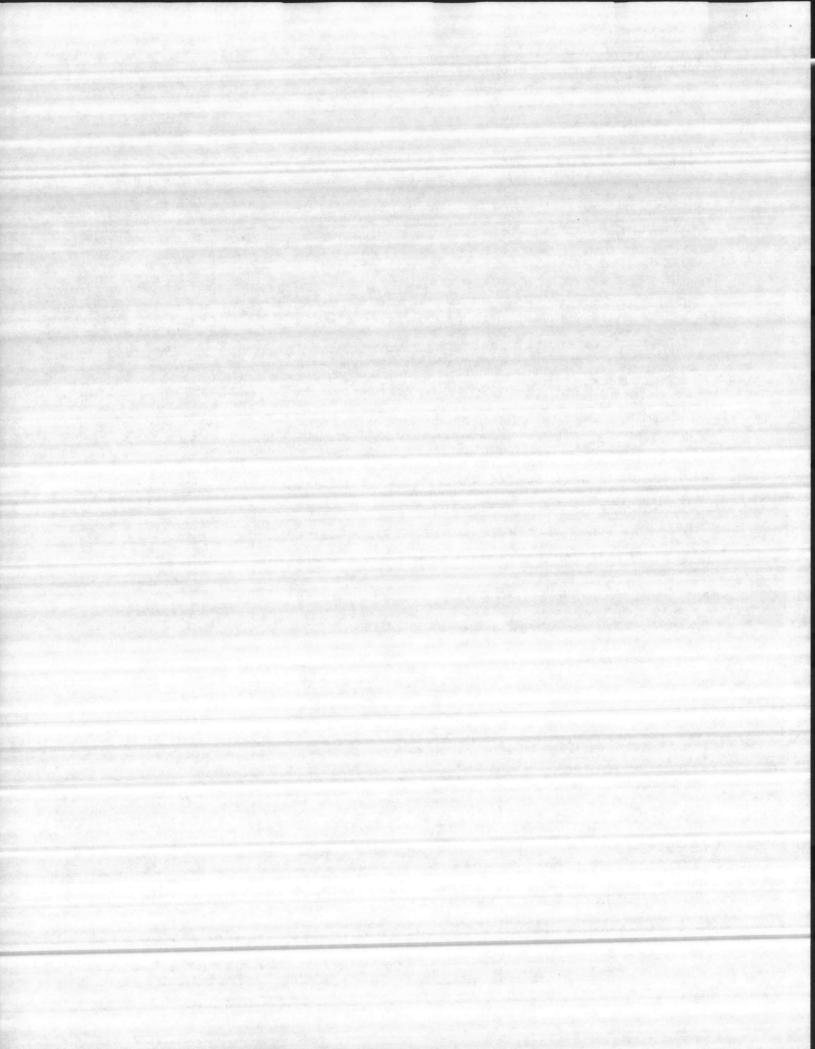
# DIMENSIONS

Size	* 1	*1 1/2	* 2	2 1/2	3	4	6	1	. 10	1	1 1/2	2	6 81
End Detail	SCR	SCR	SCR	FLG	FLG	FLG	FLG	FLG	FLG	FLG	FLG	FLG	FL
GPM*	50	100	160	226	320	500	1000	1680	2300	50	100	160	100
A	25	33	34	35 1/8	40 1/8	46 5/8	62 1/8	90 3/4	100 1/4	18 1/4	25 1/2	31	50.5/
В В	8 1/4	12 1/4	12	20	24	28 1/2	41	67 3/4	74 1/4	11 1/8	16 3/8	16 7/8	38 1/
. с	8 1/4	8 1/2	11	11	11	12	14 1/2	21	22	8 1/4	8 1/2	.11	133
D.	5	6 1/4	10	7 1/4	8 1/2	10	15 1/2	21	22	5	6:1/4	10	13 13/1
E	5 1/4	6 1/2	7 1/2	13 3/4	15 1/2	18 3/4	23 1/4	27 1/2	33	5 3/4	7 1/4	13	
F.	4 1/2	4 1/2	5 1/4	5 1/4	5 1/4	5 1/2	10	13	13	41/2	4 1/2	5 1/4	10 1/1
Relief Valve Opening	3/4	3/4	1 1/4	1 1/4	1 1/4	2	2	3	3	3/4	3/4	1 1/4	
Size of Test Cocks	1/4	1/4	1/4	1/2	1/2	1/2	3/4	3/4	3/4	1/4	1/4	1/4	. 3
NET WT No valves	47	70	105	130	170	260	730	1750	2450	50	80	115	
With valves	55	85	130	235	315	480	1100	2350	3400	88	95	200	82
ROSS WT. No valves	50	80	130	160	200	300	840	2000	2800	60	90	140	57
With valves	60	110	160	280	360	540	1230	2700	3800	96	120	230	92

Performance Charts available on request

Maximum Rated Flows: AWWA Standard C506-69 — Backflow Praventers

\*May be shorter depending on type and model gate valves available.



## CROSS CONNECTION CONTROL EQUIPMENT of PROVEN DEPENDABILITY

Maximum Protection against backflow due to backpressure and backsiphonage. Contamination of drinking water supplies is prevented by maintaining a zone of reduced pressure which is less than the supply pressure.

Visual Indication of need for repair is provided by continuous discharge from the relief

valve opening.

Ease of Repair: All internal working parts are accessible without removing the backflow preventer from the line.

Corrosion Resistant: All parts are made from materials that withstand corrosion.

Economical: BEECO Reduced Pressure Backflow Preventers provide an effective alternative to costly air gap separation systems and can be installed subject to full line pressure.

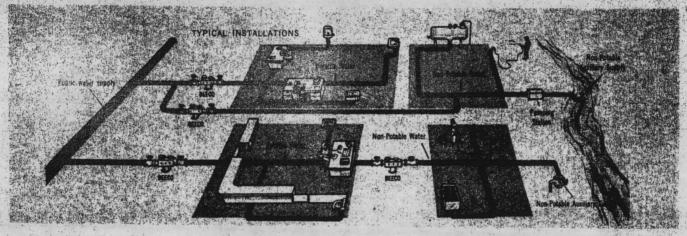
Durable: Simple, rugged design allows BEECO devices to give trouble-free performance with a minimum of attention.

Automatic Control: The double-ported balanced relief valve operates automatically with no adjustments necessary, regardless of line pressure.

#### CROSS-CONNECTION CONTROL BY "CONTAINMENT"

Install BEECO Reduced Pressure Backflow Preventers at the water service connection to a premises or use them for in-plant protection of drinking water supplies.

BEECO Reduced Pressure Backflow Preventers allow practical and economical backflow protection from dangerous contamination of drinking water supplies due to cross-connections.



BEECO equipment has for many years provided dependable and reliable protection for cross-connections when installed within, or at the service connection to:

Atomic energy plants / Plating plants / Chemical plants / Sewage treatment and pumping plants / Hospitals and Medical buildings / Canneries and Food processing plants / Auxiliary water supplies / Waterfront facilities / Industrial plants / Farms and dairies.

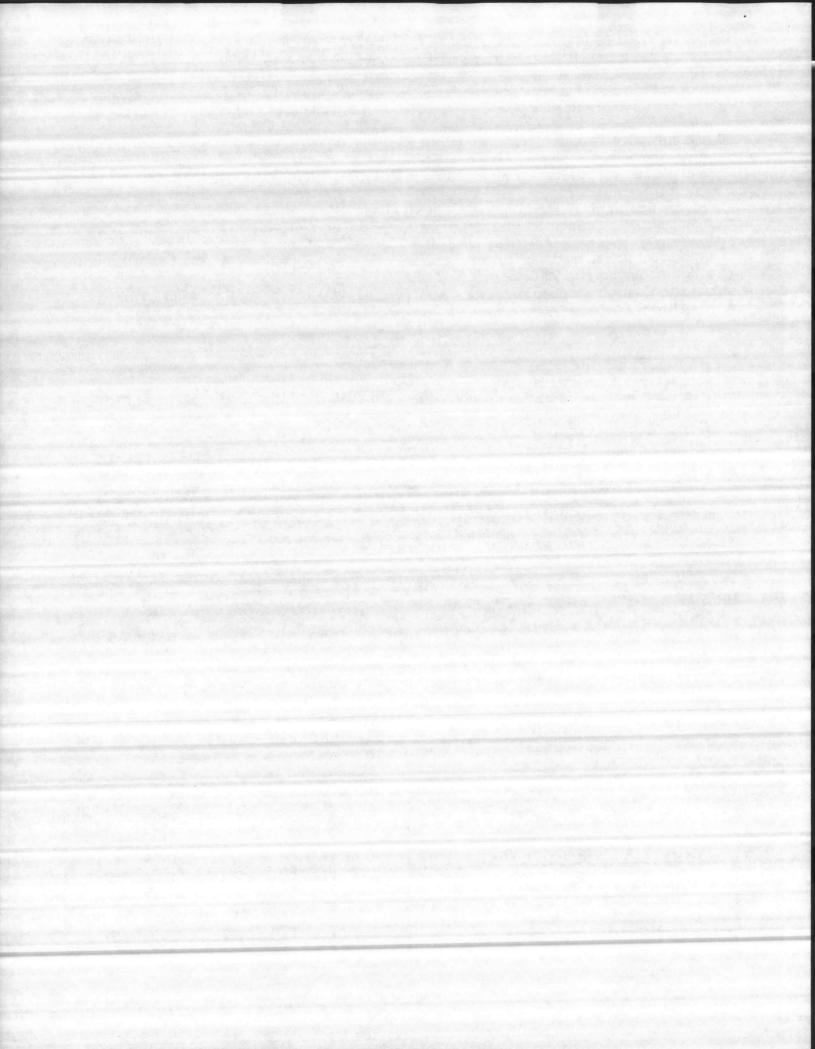
#### SPECIFICATIONS

Body:	1" . 4" Bronze (6" 6" - 10" Galvanized	optional) cast iron
Working Parts:	Bronze	
Springs:	Stainless Steel	Plastic-Coated Carbon Steel
<b>"</b> "	Second check valve Relief valve	First check valve
6"	Second check valve fallef valve	First check valve
8"-10"		All

Valve Discs:	Neoprene
Diaphragm:	Neoprene coated cotton
	duck
Maximum working pressure:	175 psi
Hydrostatic test pressure:	350 psi
Temperature Range:	32° F 145° F.

#### ORDERING INFORMATION

Specify End Detail & Backflow Preventer with or without gate valves. (If Backflow Preventer is ordered complete with gate valves, the inlet side of the inlet gate valve will be fitted with the necessary test cock and fittings.)



PRODUCTS INC. Water Meter & Controls Division
1874 Piedmont Road, N.E., Suite 210B, Atlanta. Georgia 30324 (404) 874-5726

June 8, 1979

Mr. Bill Corbin, Jr.
East Coast Construction Company
P. 0. Box 5004
Jacksonville, North Carolina 28540

Dear Mr. Corbin:

Reference is made to #205 DED Naval Hospital Job, Contract Number N6247077C7526 on 3 - 2" Model 6-C Beeco Reduced Pressure Backflow Preventers.

This letter is to certify that the Model 6-C device meets or exceeds AWWA Standard C506-78.

Also, this device is fully approved by University of Southern California, Foundation for Cross Connection Control & Hydraulic Research, ASSE, U. S. Army Corps of Engineers, U.S. Navy, IAMPO, (see copy of USC approval list attached).

We trust this is the information you desire.

Very truly yours,

HERSEY PRODUCTS INC.

Beckye Mosely

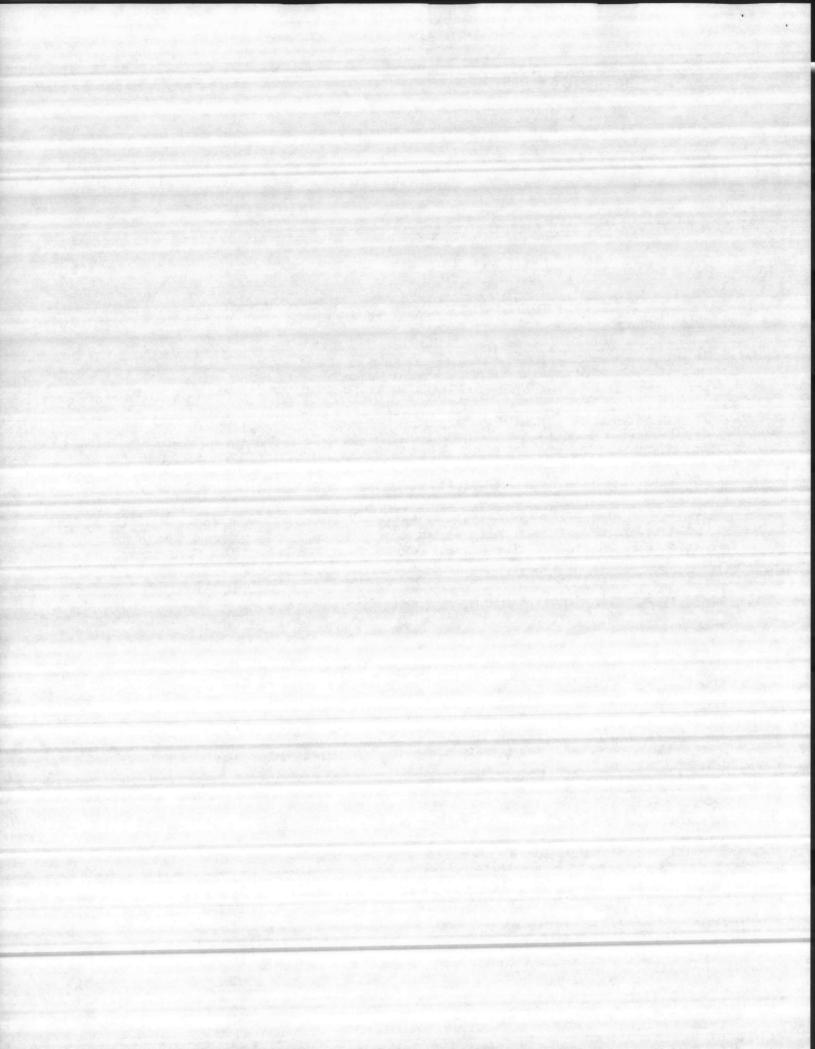
Administrative Assistant

rlm

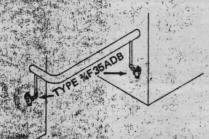
attachment

cc: Mr. Robert Stokely, Davis Meter & Supply, Raleigh, N. C.

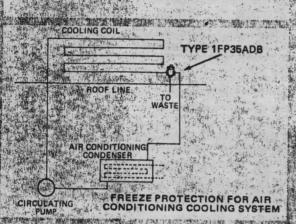
Notary Public, Georgia, State At Large My Commission Expires Oct 23, 1982

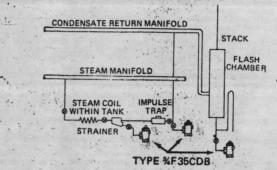


#### CAL PIPING APPLICATIONS

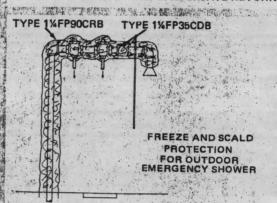


WINTERIZATION OF EXPOSED OVERHEAD PIPE BETWEEN BUILDINGS





FREEZE PROTECTION FOR CONDENSATE RETURNS



## OTHER APPLICATIONS INCLUDE

- Anti-Freeze Protection for Washroom on Elevated Train Platform Temperature Control on Water Cooled Air Compressor
   Winterization of Exposed Pipe under Bridge
- Process Protection on Engine Water Cooling System
- - Anti-Freeze Protection of Ship Supply Line

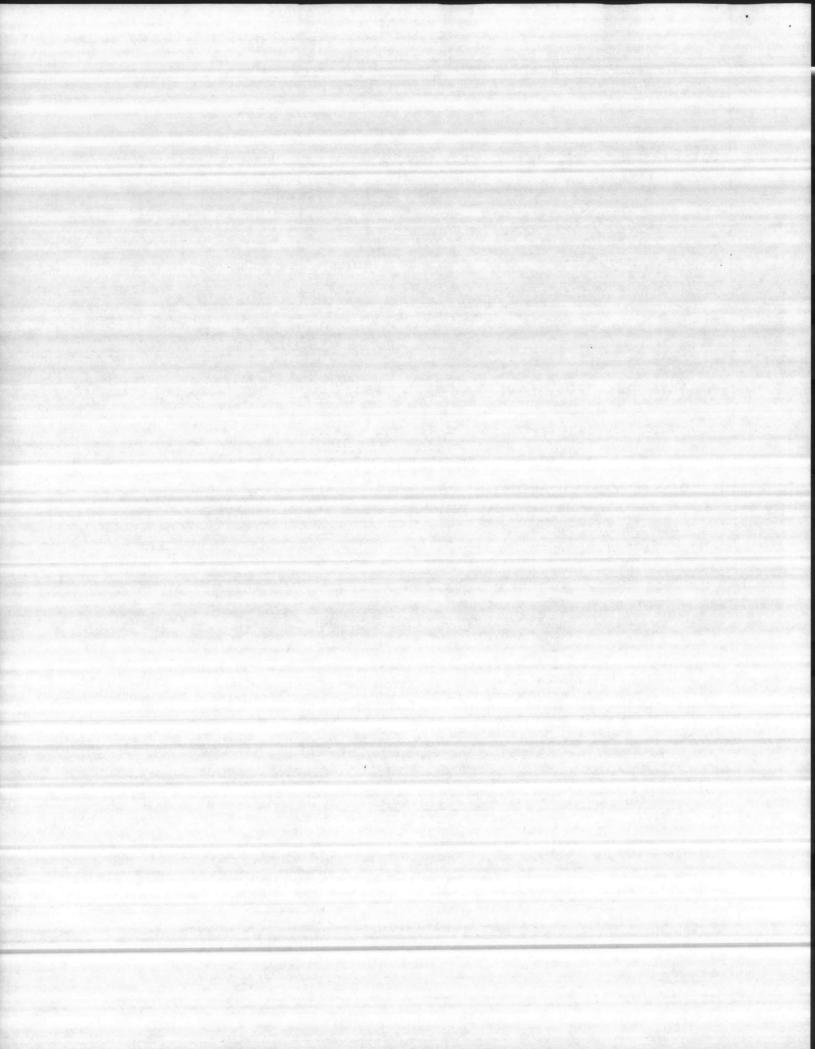


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TYPE F	TYPE AF
a数与数1700元 1500元 1500元 1500万 1500元 1500元 1500元 1500万 1500 1500	A B WGT. TYPE
	3-1/4" 3-1/8" 2-3/4 lbs., ANGLE
	actions to the state of the sta
1" 5" 3-3/4"	5% 4-3/8" 3-3/4 lbs. GLOBE

MAX. GPM FLOW @ TEMP. TO DIFF	TEMP. TYPE "AF" AIR-FLUID
	OCLOSE MATERIAL MODEL NO. MODEL NO.
35°F 35°F	7°F BRONZE 3/4F35ADB 3/4AF35ADB 3/4F35ADS
3/4" 200 0.73" 5.2 35°F Z9°F	7°F BRONZE 3/4F35BDB 3/4AF35BDB 3/4AF35BDS
3/4% - 150 1.18 8.2	7°F BRONZE 3/4F35CDB 3/4AF35CDS 3/4AF35CDS
	7°F BRONZE 1F35ADB 1AF35ADB 7°F BRONZE 1F35BDB 1AF35BDB
CHOOSE ANY TEMPERATURE TO FULLY OPEN TEXT	AMPLE: IF 50°F, NEEDED, SPECIFY MODEL #3/4F50ADB.





#### TYPE AMBIENT-AIR SENSING VALVE (See Bulletin 71.200) For: Winterizing Steam Tracer Lines freeze protection of water lines freeze protection of process lines Mulfuric acid, phenol, borax, instrumentation freeze protection Steam & Hot Water Unit Heaters Vessel Surface Cooling 177 THERMAL 14-1/2 Lbs 5 Lbs TYPE TL T To AIR I TYPE F FLUID SENSING VALVE (See Bulletin F100) THERMAL For! Bleader Type Fraeze Protection exposed Water lines challenged buildings sprincier system spip supply lines safety showers Drain Type Freeze Protection condensate returns cooling towers an verubbers Thermal Traps meintaining process temp. 3-3/4 Lhs. 2-3/4 Lbs. conserving energy 1" NPT Cooling Water Controls OUHEFT air compressors TYPE F heat exchangers TYPE AF AIR FLUID SENSING VALVE (See Bulletin F100) THERMAL AGEUATOR Bleeder Type Freeze Protection exposed water lines unheated buildings fire lines sprinklet systems -ship supply lines Drain Type Freeze Protection condensate returns cooling towers built 3-3/4 Lbs air scrubbers TYPE AF VALVE CHART FOR TYPES TL, F, AF, AND ST TEMP TO FULLY PORT MAX. TYPE **OPEN** SIZE (in.) PRESS. (psi) Cv\* ACTION MARILE A - 3/16 0.53 B-1/4 200 0.73 C - 3/8 150 1.16 A - 1/2 200 6.5 6 B - 5/8 200 (F. AF - See Note) 9.5 C - 3/4 200 125 TL only A - 3/4 200 13.0

150

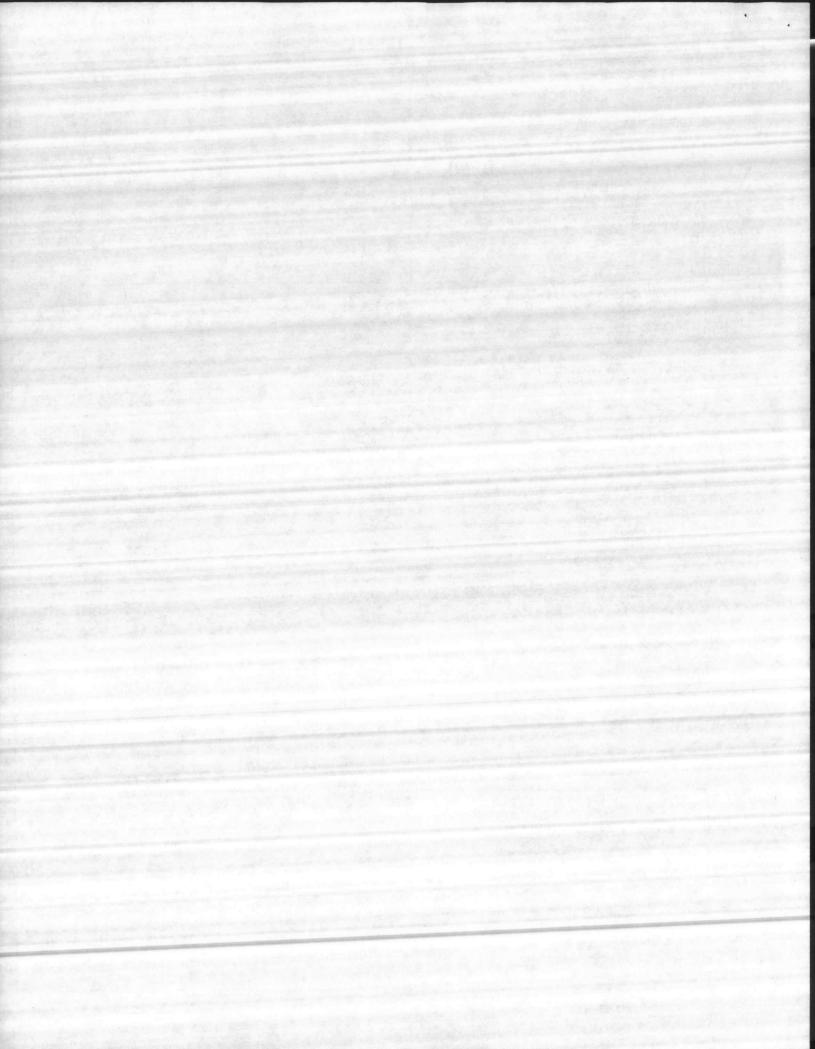
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E

B - 1

C - 1-1/2



## MUELLER Steam Specialty

DIVISION OF CORE INDUSTRIES, INC.

Speci Section 15272 Paragraph 8.2

**BOX 1569** LUMBERTON, N.C. 28358 (919) 738-8241

December 5, 1979

East Coast Construction Co., Inc. Post Office Box 5004 Jacksonville, North Carolina 28540

Attn: Mr. Bill Corbin., Jr.

Ref: 205-Bed Hospital

> Naval Regional Medical Center Camps Lejeune, North Carolina Contract - N6247077C7526

Gentlemen,

We hereby certify that the three (3) Mueller #353-1/2 M-Metal Body 250# Solder Joint Self Cleaning Y Strainers Purchased on P.O. 0227 are manufactured to meet ANSI B16.18 and B16.22 Solder Joint for water service.

Sincerely,

MUELLER STEAM SPECIALTY

Tim Sholar

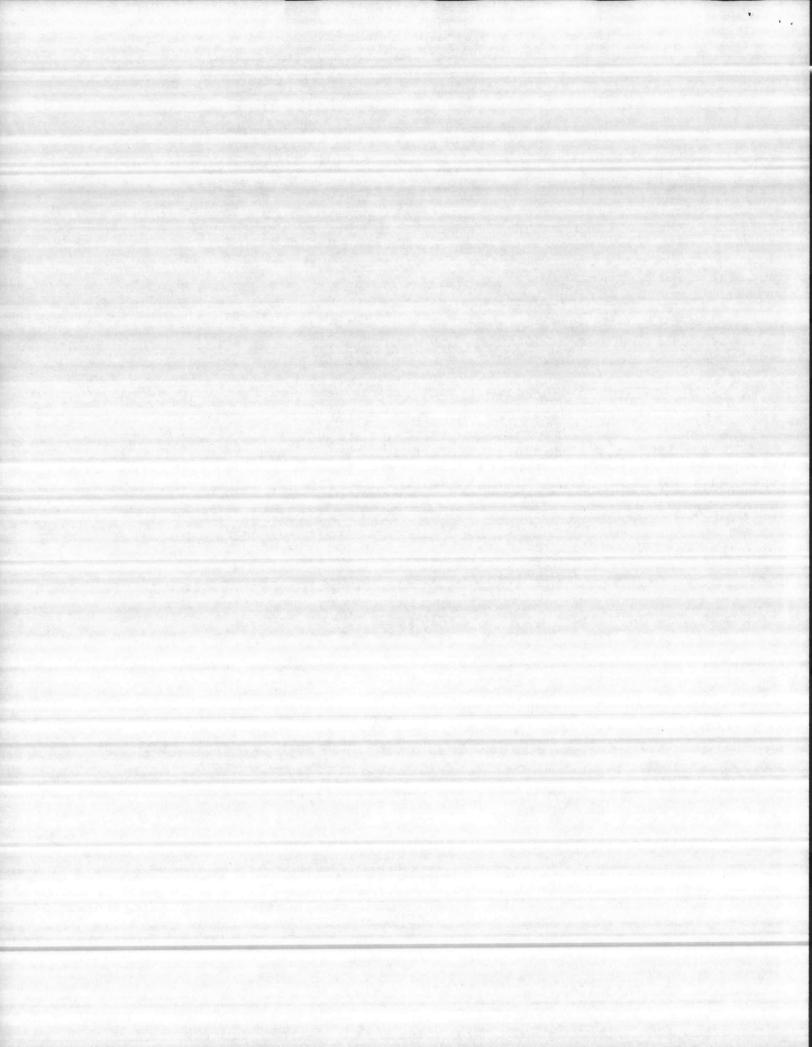
Tim Shola

Sales Engineer

TS/anr

ENC:







## BRONZE SIL-BRAZE OR SOLDER JOINT "Y" STRAINER

# #3521/2 250 lb. SILVER BRAZING

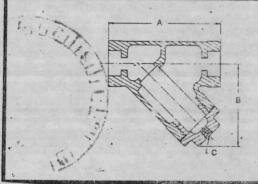
(With or without Pre-inserted Silver Solder Rings)

#353½ 250 lb. solder Joint



#### IMPORTANT:

Unless otherwise specified #353-1/2 strainers are furnished with bore for copper tube.



# COMMERCIAL AND/OR MILITARY SPECIFICATION

WORKING PRESSURE: 250 SWP @ 425°F.

SERVICE RECOMMENDATIONS: These strainers offer complete protection to pumps, meters, traps, valves and similar expensive automatic equipment. Installation of a strainer before any automatic equipment will insure trouble free service and avoid the costly repairs of replacement so often caused by the introduction of foreign matter in pipe lines.

FEATURES: In addition to all of the usual commercial applications these strainers are in complete accordance with Military specifications. #352-1/2 strainers conform to latest revision of BuShip dwg. #5000-S4823-841499. Unless otherwise specified all sizes of #352-1/2 are furnished grooved, less rings.

construction: All sizes, in both types feature a machined seat in the body, which, combined with the machined seat in the cap assures perfect screen alignment and easy dis-assembly. All sizes assembled with copper gaskets. ASTM B-61 bronze for military strainers and B-62 for commerical strainers.

**BLOWOFFS:** For commercial use both types are furnished with FIPT blowoff connections, unplugged. Bureau of Ships dwg. #5000-S4823-841499 strainers are supplied with plugged blowoff connections. See chart below for blowoff sizes.

**SCREENS:** #352-1/2 Strainers furnished with perforated monel screens — .062 dia. holes through 2" size and .093 holes for larger sizes. #353-1/2 strainers furnished with perforated brass screens — 3/64" holes for steam and 1/16" for liquid. For other perforations or mesh see page 4.

PRESSURE DROP: See page 13.

TESTING: 500 PSI. Individual hydrostatic test.

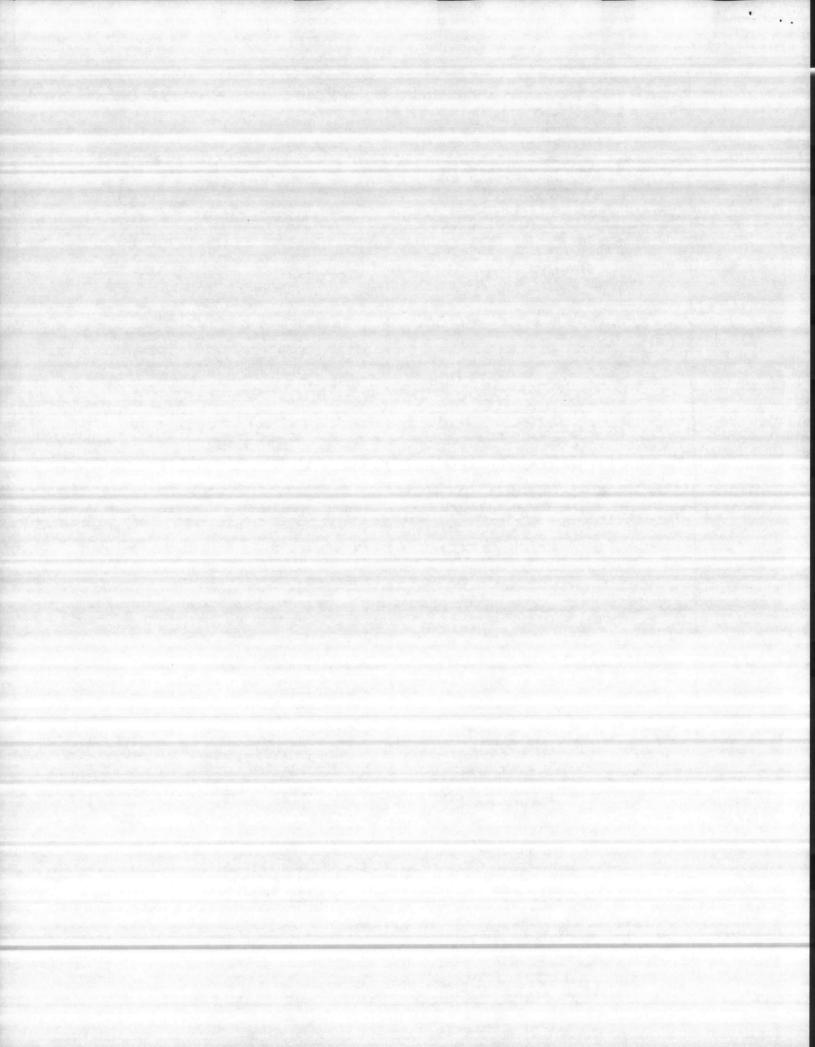
JOB: P.O. No: 0227 Contract N6247077C7526

SPECIAL FEATURES:

M-Metal Body with 1/32" Perf. Stainless Steel Screen

DIMENSIONS AND WEIGHTS - APPROXIMATE

	Size	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
	"A"	2-9/16	2-9/16	2-15/16	3-3/8	4-1/8	4-13/16	5-3/8	6-5/8	7-7/8	11-3/4
7000	"B"	1-7/8	1-7/8	2-1/8	2-9/16	3	3-9/16	4-3/16	5-5/16	5-3/16	7-1/2
"	#352-1/2	1/8	1/8	1/8	1/4	1/4	3/8	1/2	3/4	1	1
"C"	#353-1/2	1/4	1/4	1/4	1/4	1/2	1/2	3/4	1	1-1/4	1-1/2
. W	/eight	3/4	3/4	1	1-1/4	2-1/2	4-1/4	5-1/2	8-1/4	15-1/2	- 36



7/3

# DRAWING AND SPECIFICATION TRANSMITTAL LOCKWOOD GREENE ENGINEERS.INC.

SPARTANBURG. SOUTH CAROLINA 29304 P.O. BOX 491 (803)582-2351

TO Naval Facilities
Engineering Command
Atlanta Division
Norfolk, VA 25311

DATE 1-22-80 JOB NO. 77239.16 JOB NAME NRMC

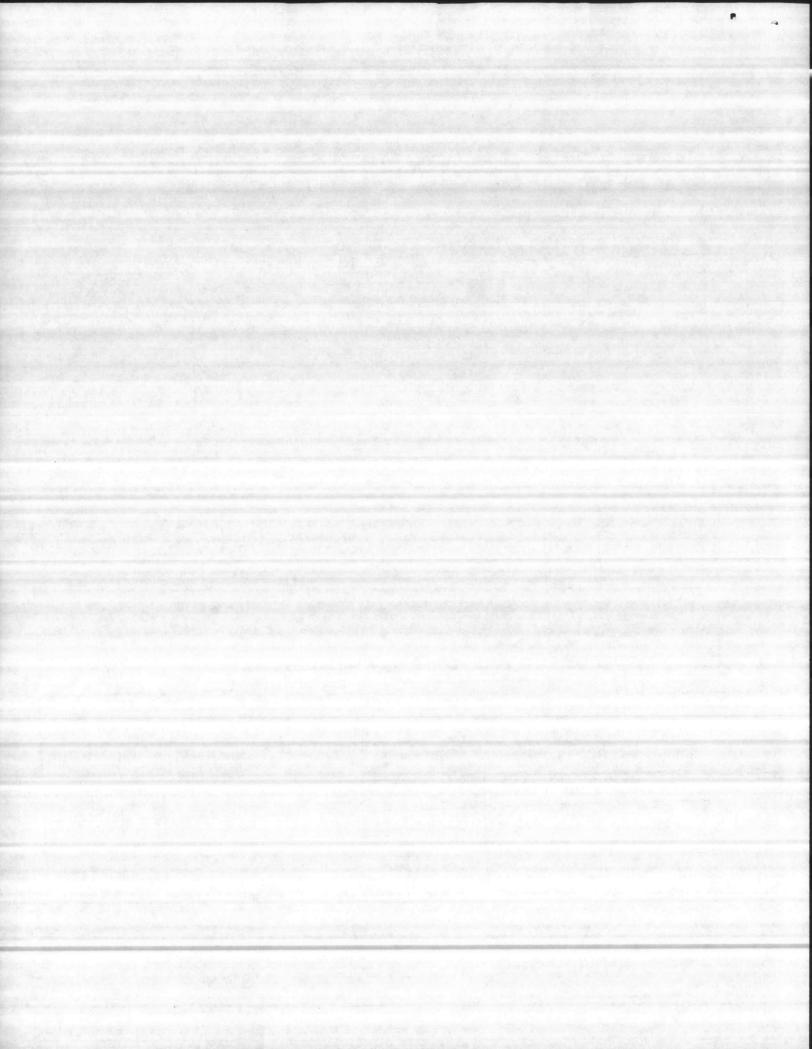
TRANSMITTAL NO. 142
SHEET 1 OF 1
ORDER NO.
N-62470-77-C-7526

ATTN: Mr. John Grubbs, Code 05

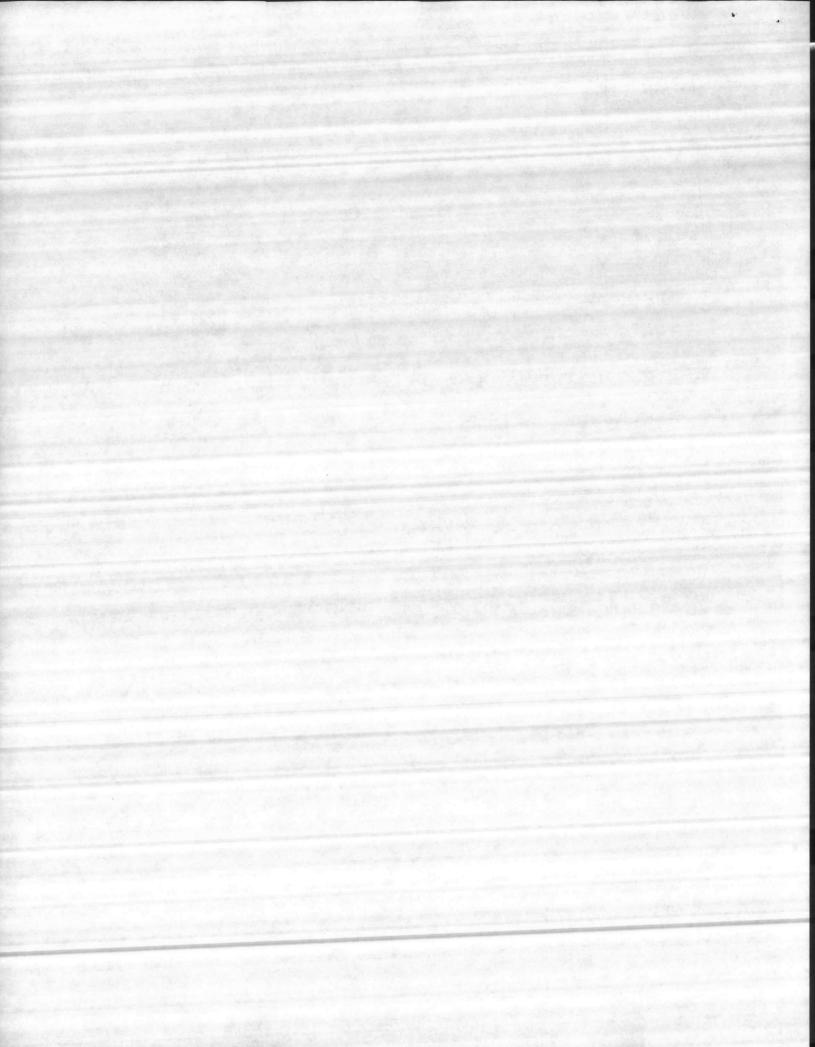
WE ARE SENDING YOU THE FOLLOWING DATA HEREWITH UNDER SEPARATE COVER

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PLEASE ACKNOWLEDGE	RECEIPT BY IM	MEDIATE RETURN	N OF SIGNED	CORY OF	TUTC		
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P. O. Box 2027 Tyler, Texas 75710 Tel: 214/882-5511

# Spec. Section 15272 Paragraph 4,2



CONTRACT N62470-77-C-7526
205 BED HOSPITAL
NAVAL REGIONAL MEDICAL CENTER
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

TO WHOM IT MAY CONCERN:

Notary Public

Smith County, Texas

This is to certify that the cast iron water main fittings furnished by Tyler Pipe Industries, Inc., Tyler, Texas are produced in accordance with and meet all applicable terms and provisions of Federal Specification WW-P-421c; ANSI A21.10 (AWWA C110-77), ANSI A21.11 (AWWA C111-72), ANSI B16.1 125#.

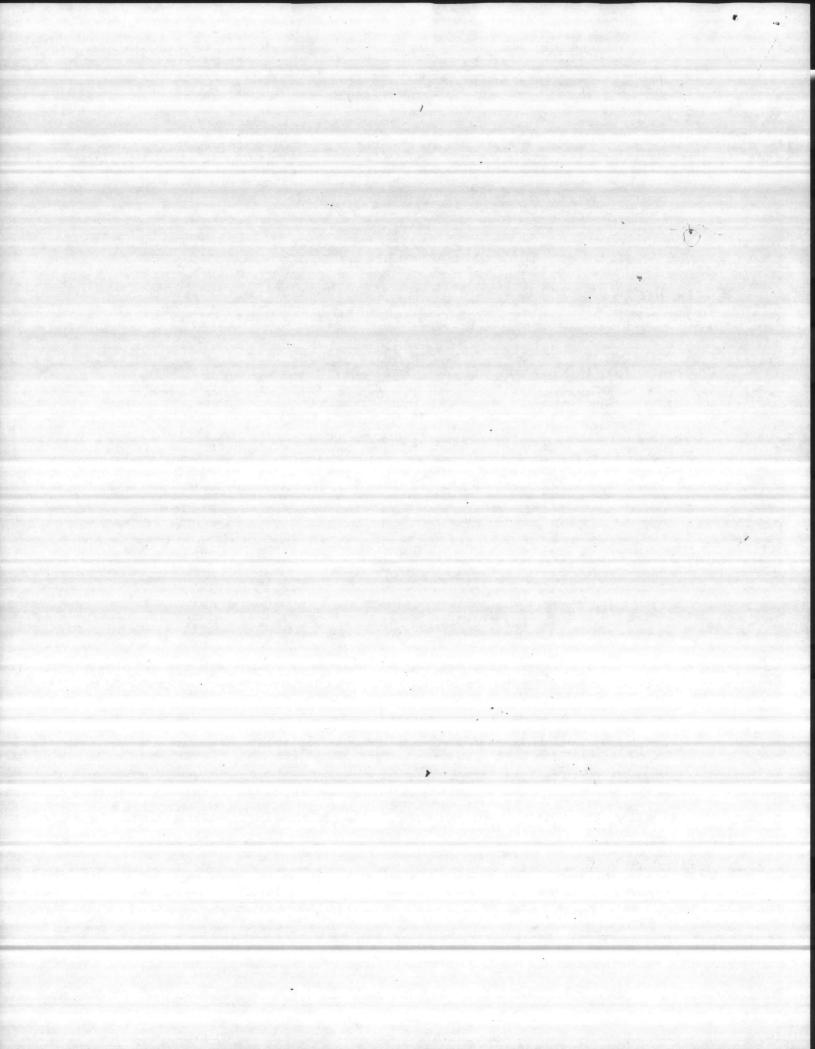
The sizes 3" through 16" AC fittings have bells designed to receive Class 150 - 200 asbestos-cement pipe; the sizes 18" and above for Class 150 only.

The CI/PVC and AC short-short body fittings, with AWWA C110-77 metal thickness throughout, have reduced laying lengths and radii per manufacturer's standards.

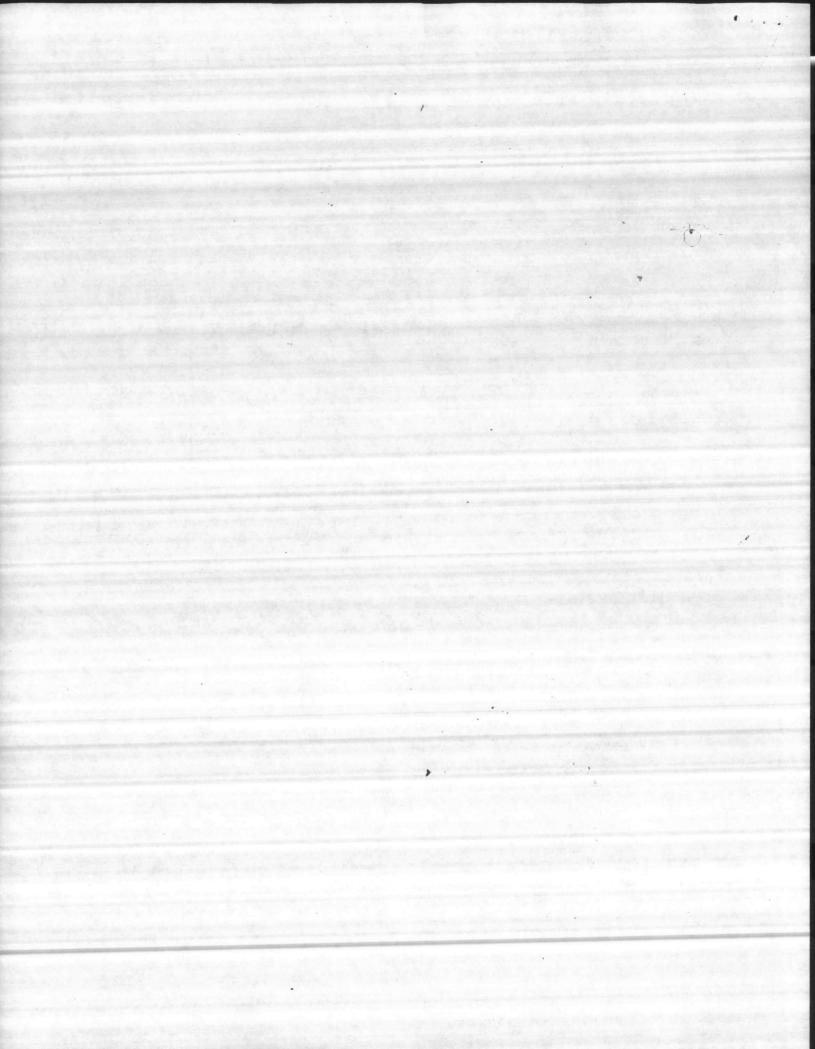
Where cement lining is required this material meets Specification ANSI A21.4 (AWWA C104-74).

The Valve, Service and Roadway boxes meet Federal Specification QQ-I-652a.

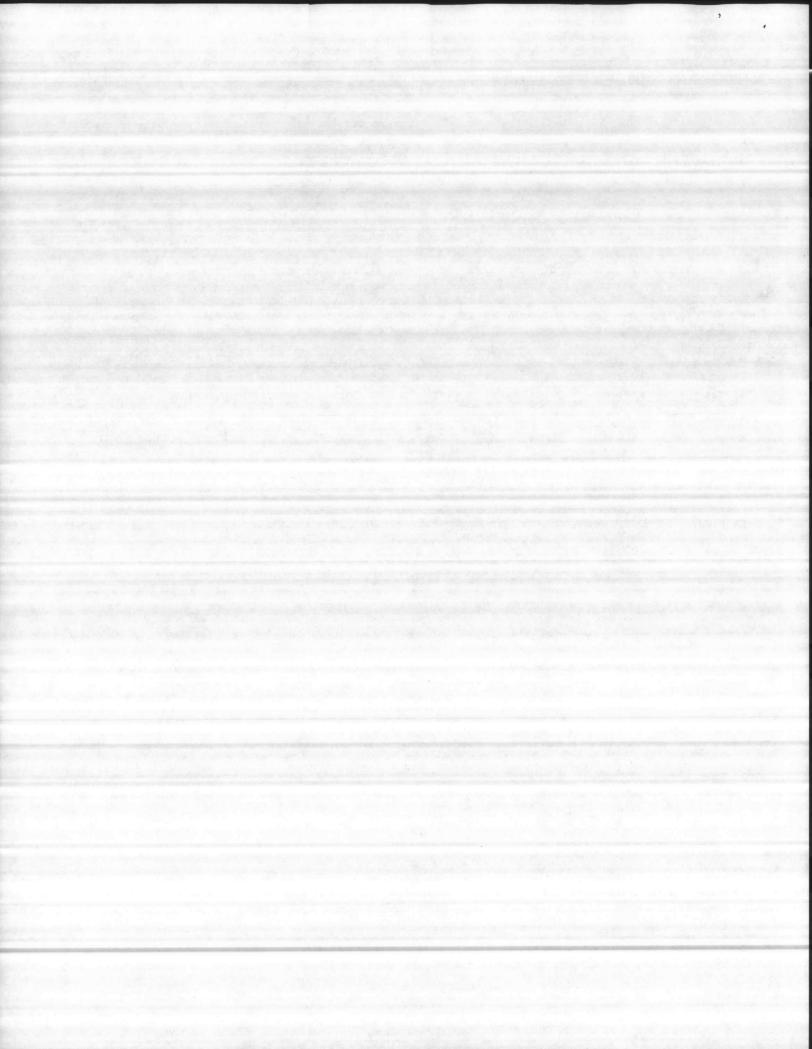
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OB East Coast Const.
c/o 205 Bed Hospital
Lejuene, NC
CC: East Coast Const.
P. O. Box 5004
Jacksonville, NC 28540



	SUBMITTAL TRANSMITTAL			
5ND LANTDIV 4-4355/3 (Rev. 6/7	SECTION 15272 N-62470-77-C-752	TRANSM	3-1	1-3-80
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Submittals are forward transmittal form.	rded to LANTDIV with A-E recommendations indicated in REVIEWER USE ONLY	Section and i	n comments b	elow on ONE COPY of
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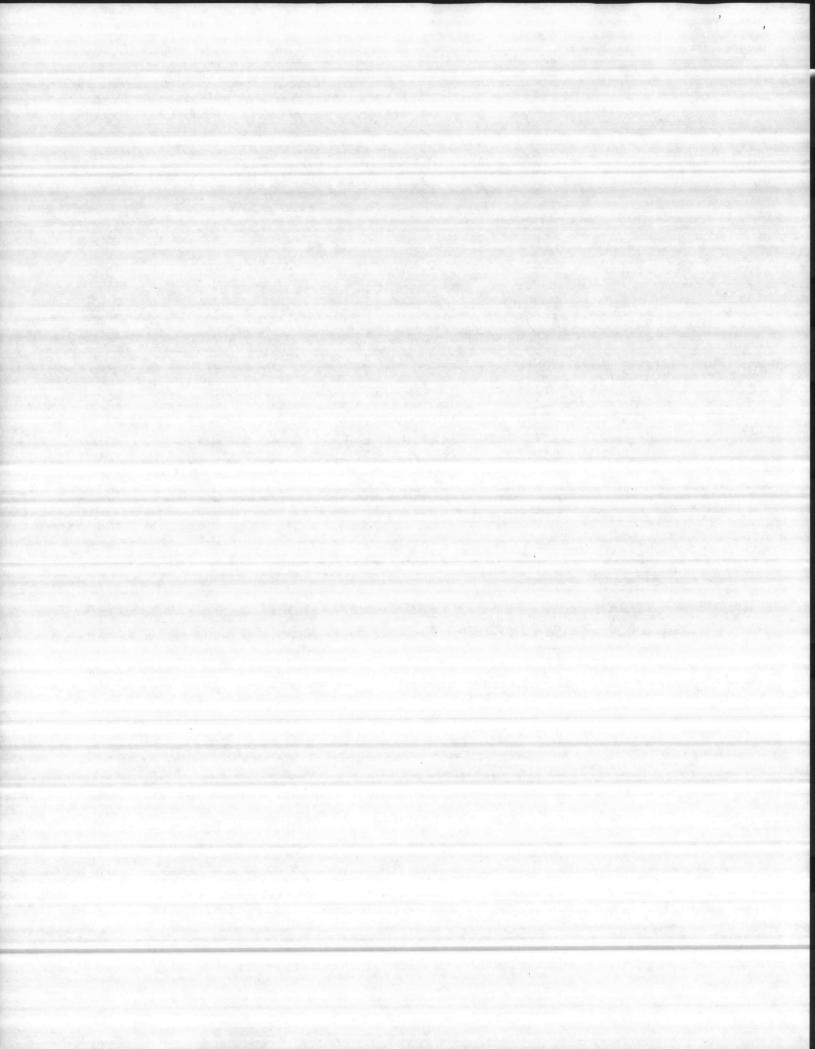


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# McWane Cast Iron Pipe Co.

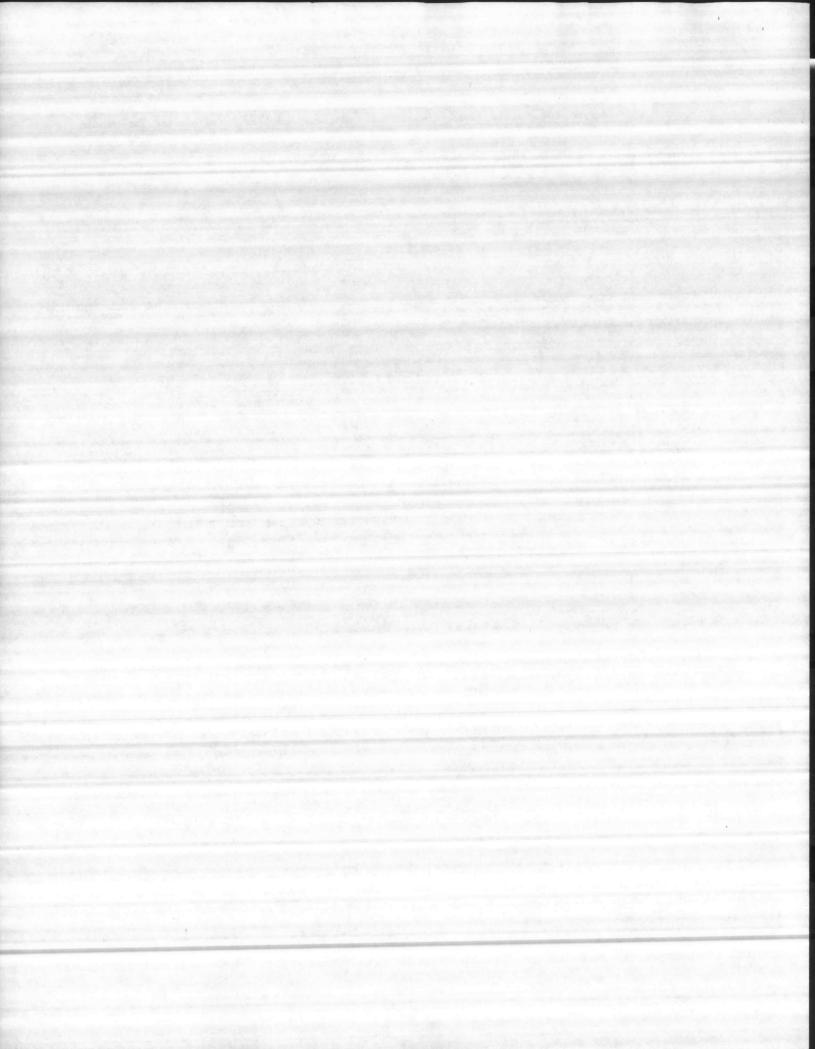
P. O. BOX 607 • BIRMINGHAM, ALABAMA 35201 GENERAL CERTIFICATION

STATE OF ALABAMA) JEFFERSON COUNTY)	

STATE OF ALABAMA) JEFFERSON COUNTY)			
Before me, the undersigned as	uthority, personally	appeared R	Fred Pushing
known to me to be the Genera	al Sales Assistant		McWane Cast
Iron Pipe Company, who upon hand every length of pipe furn	heina dul-	or ene	ys that each
Davis Meter Supply Division Raleigh Branch #15 P. O. Box 1419 Thomasville, Georgia 31792	P.O. Box 28540 fo #125, Ma	East Construct 5004. Jackson	8" D.I. Cl.52 ction Co., onville, N.C.
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ubscribed and sworn to before e this 8 day of Septem	Duit	ing s Assistant	

Manufactor Population Since 1921.

My COMMISSION EXPIRES MAY 4, 1983 -



September 2, 1981

East Coast Construction Company, Inc. P. O. Box 5004 Jacksonville, North Caroline 28540

Attention: Woody Hyers

SE: 205 Bed Hospital
Naval Regional Medical Center
Camp Lejeune, North Carolina
Contract Mumber N62470-77-C-7526

SUBJ: Fire Protection Vater Line at Building

#### Gentlemen:

We enclose copy of September 2, 1981, letter from the Assistant Resident Officer in Charge of Construction regarding the above captioned subject.

In telephone conversation with your Mr. Myers this date, we learned that you have decided to proceed with the installation of the water line using ductile iron pipe rather than the specified east iron pipe. Since the deviation from the contract specifications has not been approved, you are proceeding at your own risk.

We trust that you will promptly submit a deviation request for the use of the ductile pipe.

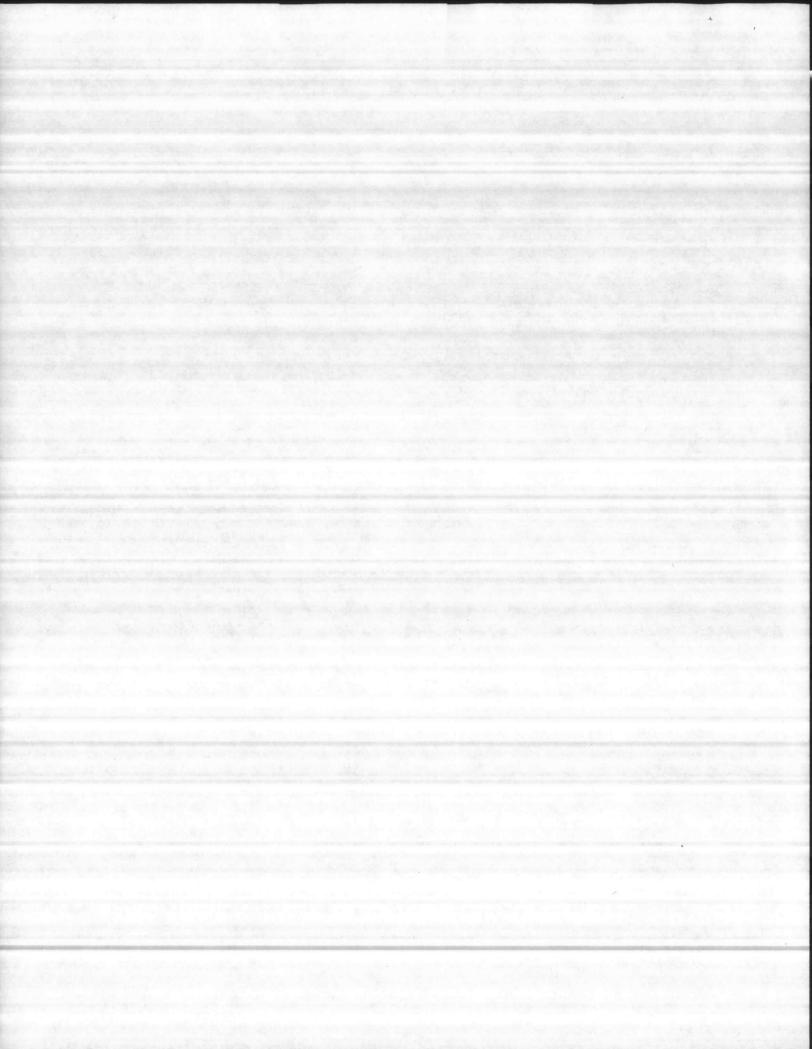
Very truly yours.

CARDINAL CONTRACTING COMPANY, INC.

William Haymaker CQC Representative

WII/mc

Enclosure



# DEPARTMENT OF THE NAVY RESIDENT OFFICER IN CHARGE OF CONSTRUCTION NAVAL REGIONAL MEDICAL CENTER FIELD OFFICE CAMP LEJEUNE, NC 28542

919-353-3455

IN REPLY REFER TO: RDC:jj N62470-77-C-7526

SEP 02 1981

Cardinal Contracting Co., Inc. Post Office Box 8408 Camp Lejeune, North Carolina 28542

RE: Fire Protection Water Fine at Building

#### Gentlemen:

With reference to your letter of 26 August 1981, the installation of the fire protection water line shall be in accordance with the requirements of the contract and NFPA.

Based on Mr. Jacob's demonstration and the conversation with Mr. B. Wyatt on 13 August 1981, the joint at the  $90^{\circ}$  bend (at the stub up) and the first section of horizontal pipe shall be rodded. Mr. Jacob's demonstration indicated that there is no positive connection between the flanged  $90^{\circ}$  bend and the pipe.

The sketch forwarded by your letter indicates ductile iron in lieu of cast iron pipe as specified is to be installed between the building and the meter pit. It was the Resident Officer in Charge of Construction, Naval Regional Medical Centers understanding that since the pipe was not installed the specified type of pipe would be installed.

This deviation from the contract must have prior approval of Atlantic Division, Naval Facilities Engineering Command, Norfolk, Virginia prior to being acceptable to the ROICC, NRMC.

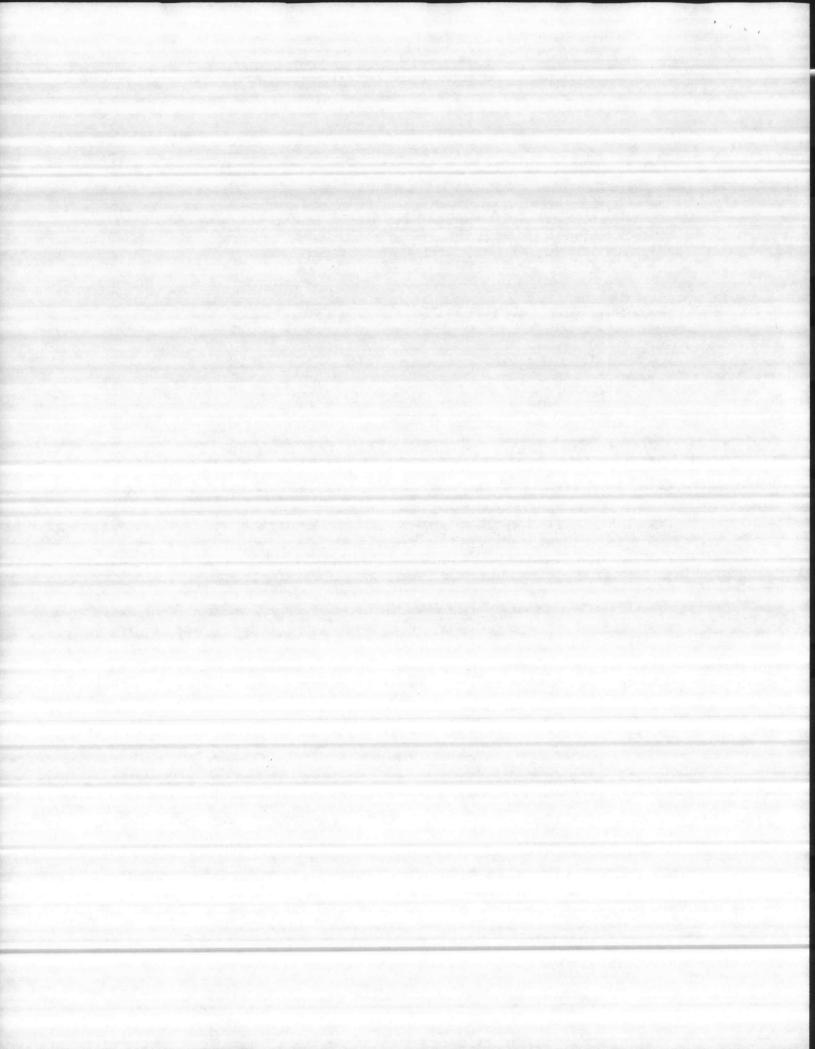
Sincerely,

R. D. COLEY

Assistant Resident Officer in Charge of Construction

Copy to:

LANTDIV (Code 05)



## EAST COAST CONSTRUCTION COMPANY, INC.

GENERAL CONTRACTORS

Post Office Box 5004

JACKSONVILLE, NORTH CAROLINA 28540

September 14, 1981

Cardinal Contracting Company, Inc. Post Office Box 8408 Camp Lejeune, North Carolina 28542

RE: 205 Bed Hospital Naval Regional Medical Center Camp Lejeune, North Carolina Contract #N62470-77-C-7526

SUBJ: Fire Protection Water Lines

Gentlemen:

In response to your letter of September 2, 1981 and the ROICC letter of the same date, we submit the following data:

- (1) Quotations from our supplier, Davis Meter Company, indicating the cost and non-availability of grey iron pipe versus the availability and price of ductile iron pipe meeting the same specifications.
- (2) Manufactuers certificate on the ductile iron pipe that was installed.

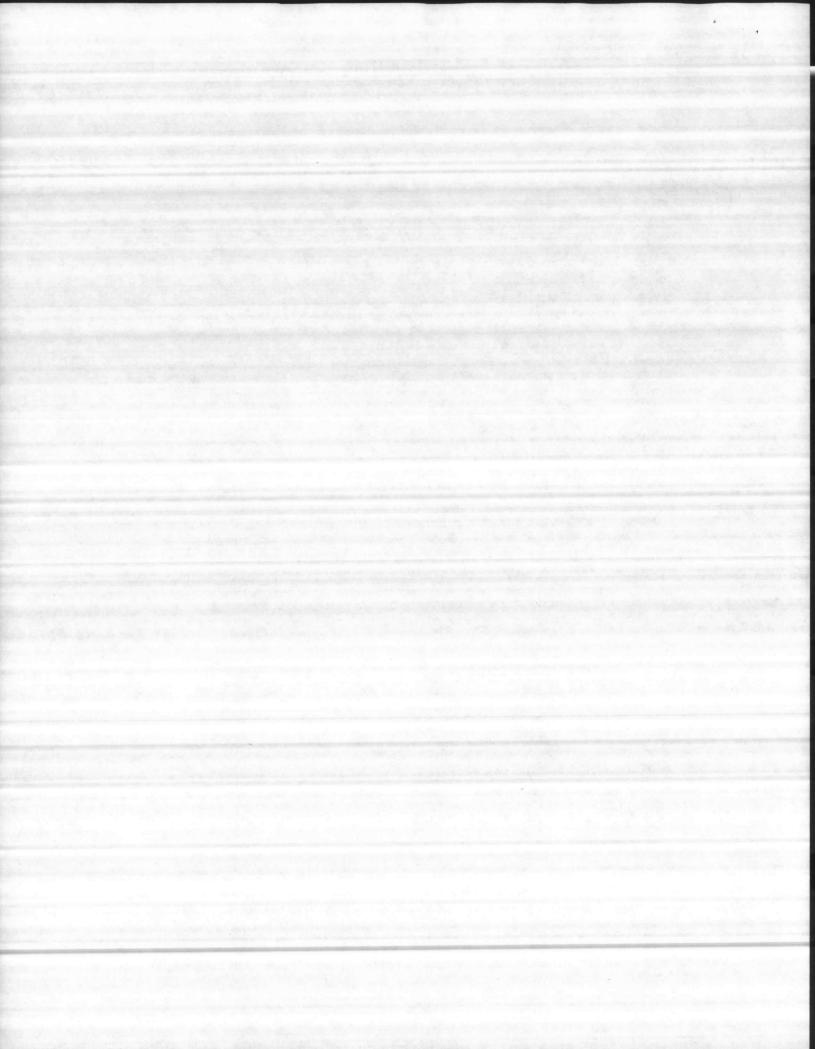
Please advise if this meets your approval.

Yours very truly,

EAST COAST CONSTRUCTION CO., INC.

WHM/cdd

**Enclosures** 



### DAVIS METER & SUPPLY div. DAVIS WATER & WASTE INDUSTRIES, Inc. THOMASVILLE, GEORGIA 31792

DISTRIBUTORS OF WATER WORKS SUPPLIES AND EQUIPMENT SINCE 1938

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NASHVILLE, TENN. ... KNOXVILLE, TENN. PH. 615-244-1824 PH. 615-524-4638

FT. LAUDERDALE, FLA. PH. 305-587-0013

ORLANDO, FLA. PH. 305-843-0790

MACKSON, MISS. FT. MYRRS, RA. PALEIGH, N.C. MCCKSONVILLE, RA. FT. PRIRCE, BA., PH. 601-354-0330 PH. 613-995-0527 PH. 919-876-6972 PH. 904-888-4611 PH, 301-8555.

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EXCEPTIONS:

Quotation good for quoted prices and quantities only. Any additions or changes will be negotiated. There are no exceptions to any part of these conditions unless agreed to in writing and attached hereto. The issuance of this quotation does not necessarily guarantee the quantities and specifications as shown herein to be in exact accord with the job plans and specifications. In all cases unit prices will apply.

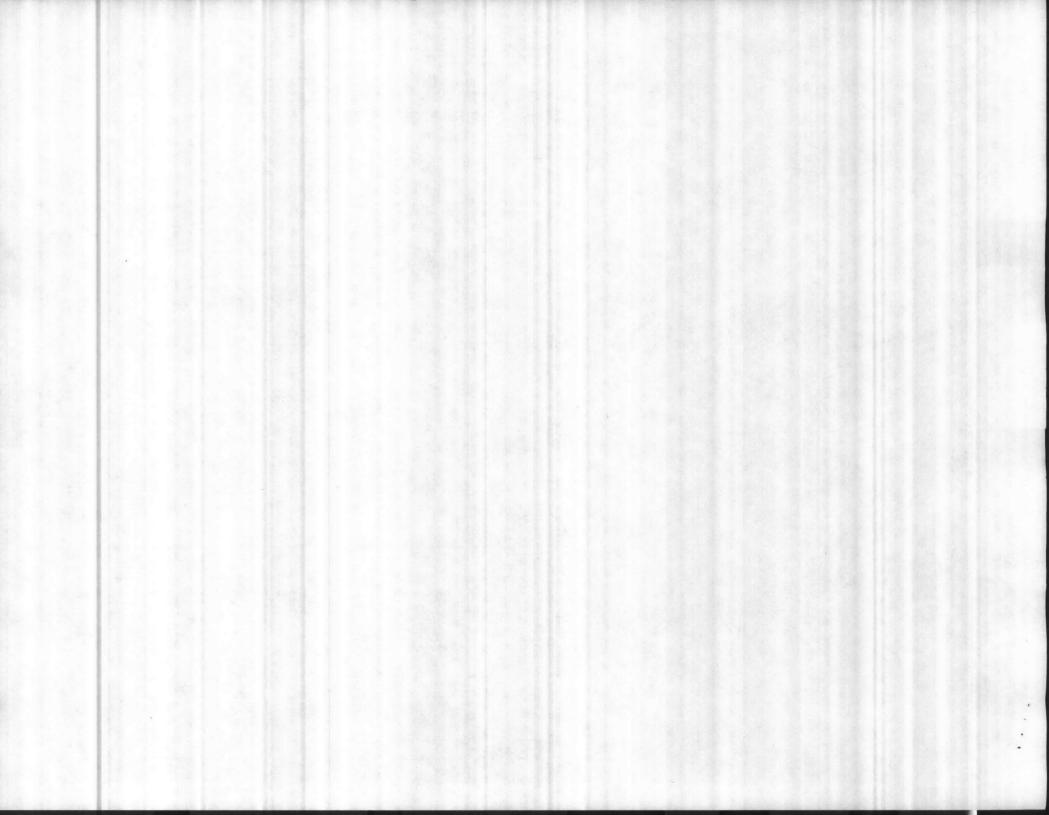
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# LOCKWOOD GREENE

ARCHITECTS · ENGINEERS Spartanburg, South Carolina 29304 P.O. Box 491 (803) 582-2351

To - Naval Faciliteis Engineering Command Bldg. N-26 Atlantic Division Norfolk, Va. 23511

Attn.

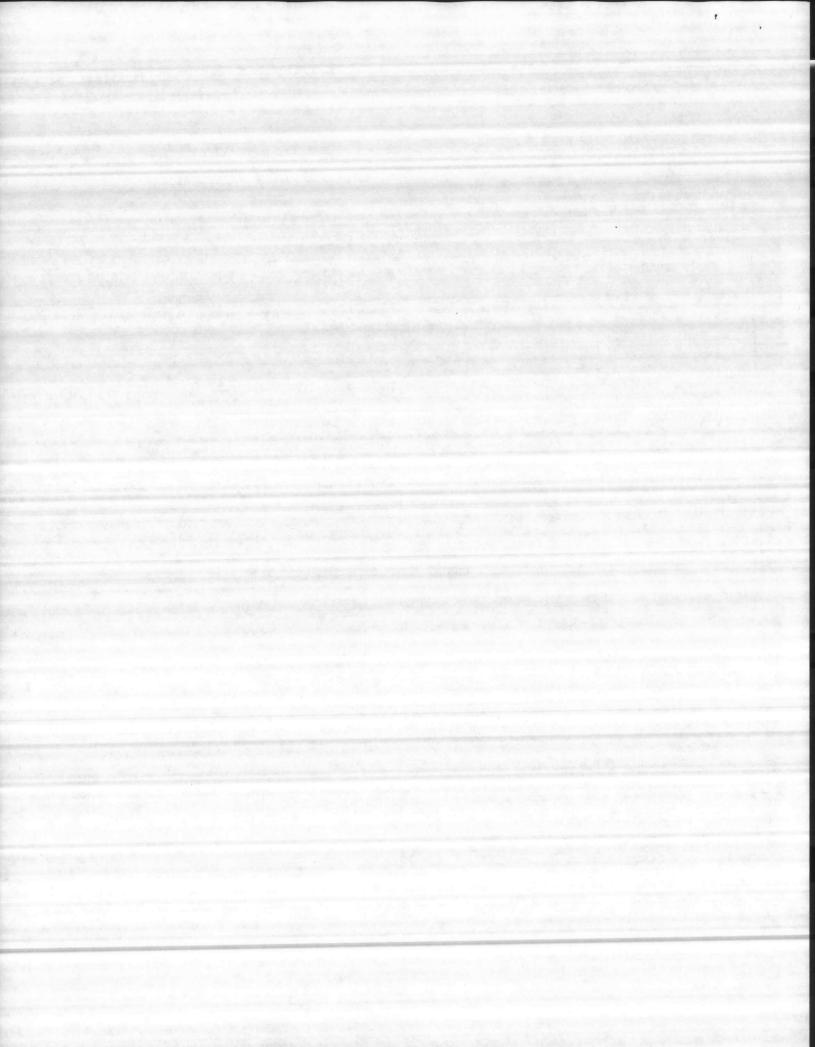
Mr. John Grubbs Code 05

Drawing And Specification Transmittal

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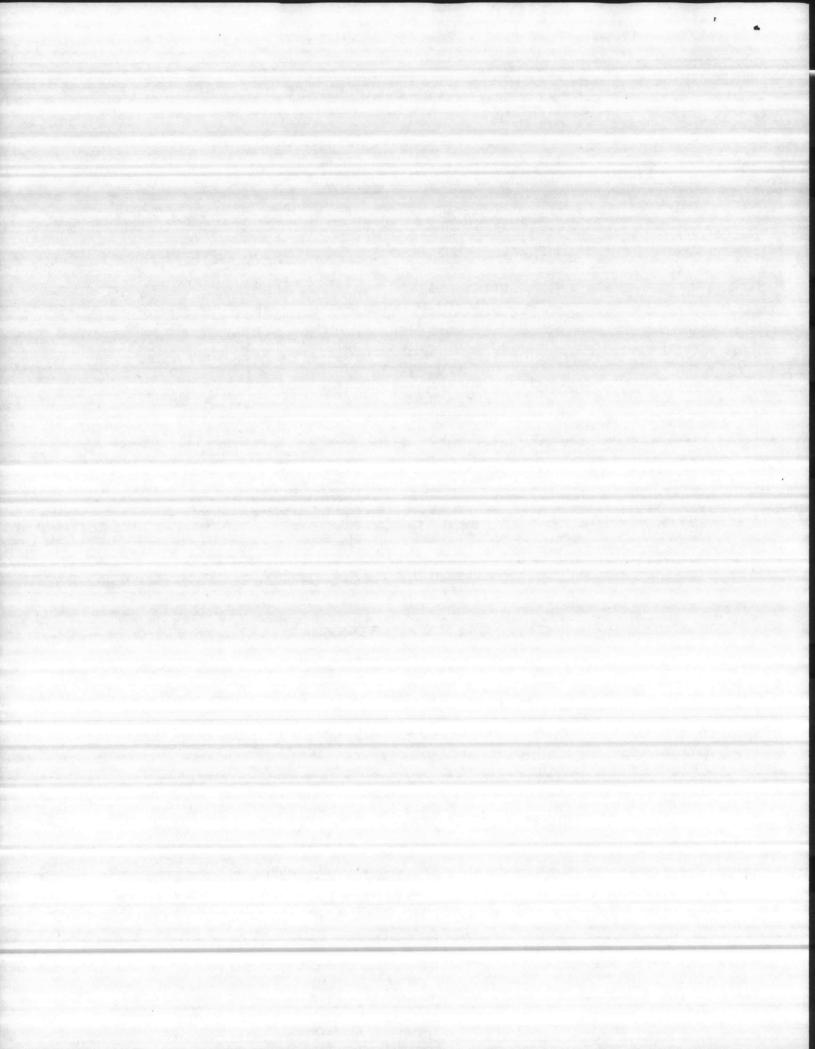
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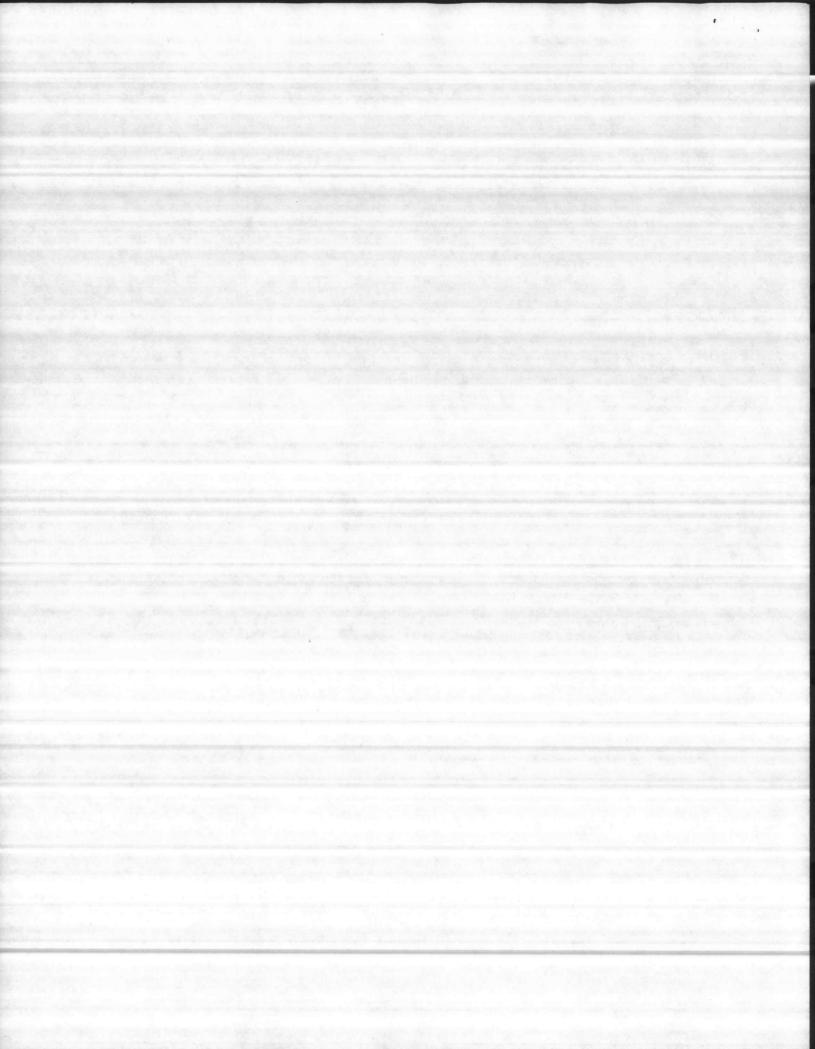


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# EAST COAST CONSTRUCTION COMPANY, INC.

GENERAL CONTRACTORS

Post Office Box 5004

JACKSONVILLE, NORTH CAROLINA 28540

July 13, 1982

Cardinal Contracting Company, Inc. Post Office Box 8303 Camp Lejeune, North Carolina 28542

RE: N62470-77-C-7526 205 Fed Hospital NRMC - CLNC

#### Gentlemen:

Enclosed are two (2) laboratory reports for drinking water samples taken at the referenced project site. The first sample, taken on 6/7/82 (Test #655), shows 600 mg/l Total Chlorine and 120 mg/l Free Chlorine. Coliform not found in this sample. The next sample, taken on 6/8/82 (Test #654), shows no chlorine reading and coliform not found.

Both samples were taken from the 10" drinking water line on the North side of the building.

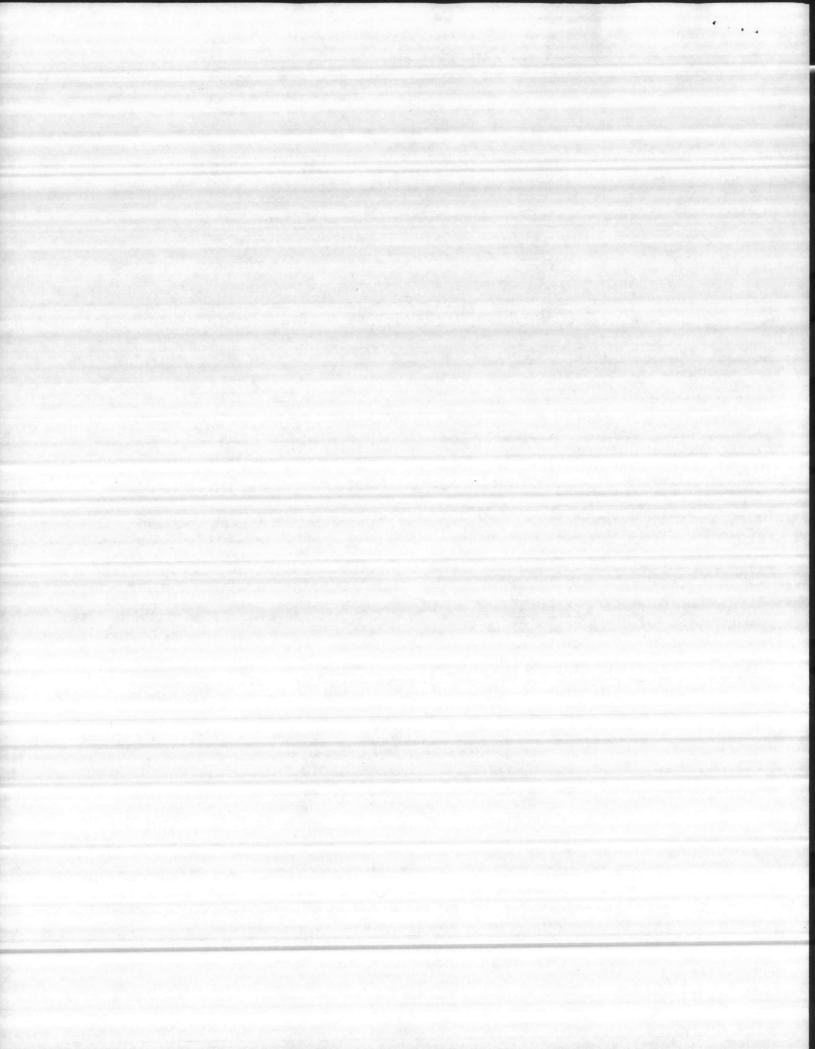
If you have any question, please do not hesitate to write or call.

Yours very truly,

EAST COAST CONSTRUCTION COMPANY, INC.

WHM/cdd

**Enclosures** 



BEACHAM LABORATORY  WILMINGTON HWY.  JACKSONVILLE, NC 28540	DATE REC	10-9-82	BACTE MEDIA	FRIOLOGIC ANALYSI POSITIVE TUBES	S
DRINKING WATER DESCRIPTION BLANK—FILLED IN BY SENDER COLIFORM ANALYSIS——PUBLIC WATER SYSTEM	TIME REC/	12 01 FM	LTB 1 1 BGB 1	2 3 4 2 3 4	5 5
AME OF SYSTEM/O" DESINKING WATER -NOWTH SIDE OF 205	REC. BY	ring	<b>建筑市场的大大车</b>	BRANE FILTER METH	
OCATION OF SAMPLING POINT FNO DF 10" LINE DDRESS WHERE SAMPLE WAS COLLECTED  OLLECTED BY SOY (NIE DATE 6-7-82 TIME 10:00 PM		455 <sup>7</sup>	ATYPICAL COLONIES TNTC		RIFIED
YPE OF REGULAR MONTHLY CHECK SPECIAL SPECIAL			COLIFORM-NOT FOUND	MPN	TOTAL COLONIES PER 100ml
P. O. BOX: 5004	600 "	s/a chla	120ng/l	free Chlor	· · · · · ·
ADDRESS		E TO THE RIGHT OF HE		REPORTED PEN N	7
BEACHAM LABORATORY WILMINGTON HWY. JACKSONVILLE, NC 28540	DATE REC.	9-82	BACTER	RIOLOGIC ANALYSIS	3
DRINKING WATER DESCRIPTION BLANK—FILLED IN BY SENDER COLIFORM ANALYSIS——PUBLIC WATER SYSTEM	TIME REC.	1 00:0	LTB 1 1	2 3 4 2 3 4	5 5
ME OF SYSTEM 10" DRINKING WITTER - NORTH SIDE OF  05 ACTO INSPIRAL - CLNC COUNTY ON SLOW	REC. BY	4N :		RANE FILTER METHO	
CATION OF SAMPLING POINT OF 10" (THE DRESS WHERE SAMPLE WAS COLLECTED)  LLECTED BY DATE 6-8-82 TIME 3: 30 MPM	TEST#	54	ATYPICAL COLONIES ATYPICAL COLONIES TNTC .		IFIED  NON-IDEAL COUNT
PE OF REGULAR CHECK SPECIAL SPECIAL			COLIFORM-NOT FOUND		TOTAL COLONIES PER 100ml
PE OF IPPLY:  COMMUNITY NON-COMMUNITY  PORT EAST COAST CONSTRUCTION CO. INC.  P. Q. BOX 5004  ADDRESS JACKSONVILLE, N. C. 28540  TIP	No c	blorise	reading	01479	)

REPORTED . . . .

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