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DOD-STD-2003-3(SH) 24 June 1987 SUPERSEDING NAVSEA S9300-AW-EDG-010/EPISM (INCLUDING NAVSEA DWG. NO. 803-5001027) AND NAVSEC NO. 9000-S6202-73980

DEPARTMENT OF DEFENSE STANDARD PRACTICE

ELECTRIC PLANT INSTALLATION STANDARD METHODS FOR SURFACE SHIPS AND SUBMARINES (PENETRATIONS)

SECTION 3 OF 5 SECTIONS



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DOD-STD-2003-3(NAVY) 24 June 1987

#### SECTION 3

#### PENETRATIONS

# DEPARTMENT OF THE NAVY NAVAL SEA SYSTEMS COMMAND

## Washington, DC 20362-5101

Electric Plant Installation Standard Methods for Surface Ships and Submarines

1. This Military Standard is approved for use by the Naval Sea Systems Command, Department of the Navy, and is available for use by all Departments and Agencies of the Department of Defense.

2. Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Commander, Naval Sea Systems Command, SEA 5523, Department of the Navy, Washington, DC 20362-5101 by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

#### FOREWORD

1. The criteria contained herein for the installation of the electrical plant on ships of the United States Navy supersede the data contained in Sections 1 through 5 of NAVSHIPS Drawing 9000-S6202-73980, NAVSEA Drawing No. 803-5001027 and NAVSEA PUBLICATION S9300-AW-EDG-010/EPISM.

2. This standard disseminates up-to-date information detailing Requirements for Standard Installation Methods Employed for Submarine and Surface Ship Electrical Distribution Systems.

3. These criteria apply to work on a specific ship or ships only when invoked by the Ship Specifications or similar contractual documents.

4. Although these criteria are primarily for application to new construction, their use may be considered in the conversion or alteration of existing ships. In such cases the degree of applicability of these criteria will be specified by the activity preparing the instructions for the work.

5. Considering the magnitude of this standard, along with the changing requirements imposed on the Electric Plant, it is inevitable that changes will be required to up-date these criteria. Therefore, as comments arise they should be forwarded to Naval Sea Systems Command (NAVSEA) 5523 to keep this standard as current as possible through subsequent revisions. Revisions will be accomplished by the issuance of additional or revised figures to be inserted in the basic standard sections. Document Improvement Proposal Form DD 1426 attached. Superseded pages may be retained for reference if so desired.

6. This standard is available in a 8-1/2 X 11 hard copy, in microfilm aperture cards, or in microfiche. It is available in 8-1/2 X 11 hard copy from Commanding Officer, Naval Publications and Forms Center, 5801 Tabor Avenue, Philadelphia, PA 19120. Microfilm aperture card or microfiche are available from Commanding Officer, Portsmouth Naval Shipyard, Code 202.2, Portsmouth, NH 03801. All revisions on microfilm aperture cards, or on microfiche are automatically distributed to a previously approved distribution list. (Tel: (207) 439-1000, Ext. 1718, Autovon 684-1718). Activities having a requirement to be placed on the distribution or for additional copies should forward these requests to Commander, Naval Sea Systems Command, SEA 55Z3, Department of the Navy, Washington, DC 20362-5101. Aperture cards have been distributed to those activities presently on the distribution for NAVSEA Standard and Type Drawing microfilm aperture card sets. Microfiche has been distributed to all active ships.

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#### 1. SCOPE

1.1 <u>Purpose</u>. The purpose of DOD-STD-2003-3 is to disseminate up-to-date information for swage tubes, stuffing tubes and kickpipes on surface ship and submarine.

1.1.1 <u>Application</u>. These installation standards shall be used by all installing activities. These standards do not identify ship or type, but do establish minimum standards of acceptance for NAVSEA ships. It is the responsibility of the user activity to determine which standard satisfies their requirements. It does not authorize relaxation of any requirement specifically invoked by new construction, conversion, overhaul, or refurbishment contracts. In instances where deviated design requirements (for example, ship type, ship class, and so forth) conflict with the requirements of this standard, the requirements of this standard shall govern. Any deviation for electric plant installation identified in this standard shall be submitted to NAVSEA 5622 for resolution.

2. REFERENCED DOCUMENTS

2.1 Government documents.

2.1.1 <u>Specifications and standard</u>. Unless otherwise specified, the following specifications and standard of the issue listed in that issue of the Department of Defense Index of Specifications and Standards (DoDISS) specified in the solicitation form a part of this standard to the extent specified herein.

SPECIFICATIONS

FEDERAL GGG-W-646	- Wrench, Open End, Ratchet (TAC Pattern), for Tube Fittings, Electric Cable Terminals and Stuffing Tube Gland Nuts.
MILITARY	
MIL-I-3064	- Insulation, Electrical, Plastic-Sealer.
MIL-R-15624	- Rubber Gasket Material, 50 Durometer Hardness (Maximum).
MIL-P-16685	- Packing, Material and Packing Preformed (Stuffing- Tube for Electric Cables).
MIL-S-19622	- Stuffing Tubes, Nylon; and Packing Assemblies; General Specification for.
MIL-S-24235	- Stuffing Tubes, Metal, and Packing Assemblies for Electric Cables, General Specification for.
MIL-S-24235/1	- Stuffing Tube, Bulkhead, Pressureproof.

STANDARD

MILITARY

MIL-STD-278 - Welding and Casting Standard.

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2.1.2 Other Government documents. The following other Government documents form a part of this standard to the extent specified herein.

# DOCUMENTS DDS 100-1 - Reinforcement of Openings in Structure of Surface Ships Other than in Protective Plating. DDS 100-2 - Openings in Decks and Bulkheads for Stuffing Tubes and Pipe.

(Copies of specifications, standards, and documents required by contractors in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting officer.)

2.2 Order of precedence. In the event of a conflict between the text of this standard and the references cited herein, the text of this standard shall take precedence.

3. DEFINITIONS

3.1 <u>Metal stuffing tube</u>. Metal stuffing tube is a system of passing single electrical cables through decks and bulkheads and entering enclosed equipment on Naval ships. These are manufactured in accordance with MIL-S-24235.

3.1.1 Nylon stuffing tube. Nylon stuffing tube is a system of passing single electrical cable through electrical equipment on Naval ships. These are manufactured in accordance with MIL-S-19622.

3.2 <u>Kickpipe</u>. Kickpipe is a pipe welded into the deck with a stuffing tube attached. Kickpipes provide protection of electrical cable at deck penetrations and are used to clear an obstruction or preserve alignment. Kickpipes may be aluminum, steel or brass to suit the installation or standard pipe sizes to suit the required stuffing tube.

3.3 <u>Swage tube</u>. Swage tube is a system of passing single cables through decks on Naval ships that combines the features of the stuffing tube and kickpipes.

3.4 <u>Multiple cable penetrator (MCP)</u>. MCP is a system of passing multiple cables through water and non-watertight bulkheads and decks in order to provide watertight, airtight and firetight penetration of electrical cable.

3.5 <u>Community stuffing tube for bulkheads</u>. Community stuffing tube for bulkheads is a system of passing multiple cables through ballast tank bulkheads on submarines.

3.6 <u>Collective protective system (CPS)</u>. CPS is a system designed to inhibit the entry of chemical, biological, and radiological contaminants into collective protection zones on board ship. A collective protection zone is a section of the ship which is defined by a physical boundary that inhibits the entry of CBR contaminants into the zone. A total protection zone is pressurized to 2 inches WG and its supply ventilation air is continuously filtered to remove chemical vapors and CBR particulate and aerosols.

4. GENERAL REQUIREMENTS

4.1 <u>Cable penetrations</u>. Cable penetrations of pressure hulls, pressure proof bulkheads, shielded bulkheads, ballistic bulkheads, false decks, riser boxes, decks, bulkheads and beams and other integral parts of the hull shall be in accordance with figures 3Al through 3E7 and the requirements of DDS 100-1 and DDS-100-2.

4.1.1 Installation welding requirements. Unless otherwise specified on the individual figure, the welding of stuffing tubes, kickpipes, swage tubes and multi-cable penetrators shall be in accordance with the requirements of MIL-STD-278.

4.1.2 <u>Cable penetration of structure</u>. Cable penetrations of decks, bulkheads, beams and other integral parts of the hull shall conform to DDS 100-1 and DDS 100-2. Stuffing tubes in accordance with MIL-S-24235/1 shall be installed for cable penetrations of pressureproof submarine bulkheads and sonar domes which are filled with water under normal operating conditions. One half of the tube may be used for each penetration.

Metal stuffing tubes or multiple cable penetrators shall be used for cable penetrations of the following:

- (a) CPS boundaries.
- (b) Watertight cable trunks.
- (c) Watertight bulkheads.
- (d) Bulkheads designed to withstand a waterhead.
- (e) The portion of bulkheads specified to be watertight to a certain height.
- (f) That portion of bulkheads below the height of the sill or the coaming of compartment accesses.
- (g) Bulkheads surrounding compartments subject to flooding by sprinkling:
  - (1) Garbage disposal rooms.
  - (2) Battery shops.
  - (3) Medical operating rooms.
  - (4) Medical wards.

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4.1.3 <u>Cable penetration of decks and bulkheads forming boundaries of spaces</u> <u>containing volatile combustible or explosive materials</u>. Only metal stuffing tubes shall be installed in decks and bulkheads forming the boundaries of spaces containing volatile combustible or explosive materials.

4.1.4 <u>Cable penetration of decks, structural bulkheads, airtight bulkheads</u> and fumetight bulkheads. Unless otherwise specified, cable penetration of decks, structural bulkheads, airtight bulkheads and fumetight bulkheads shall employ one of the following:

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- (a) Airtight metal stuffing tubes or multiple cable penetrators.
- (b) Functight chaffing collars (for multiple cable penetrations) or nipples (for single cable penetrations) having a minimum collar length of 3 inches with a minimum annular area between the cable and the collar of 1 inch with the entire void area within the collar (this includes the area between the collar and the cable and the area between the cables) packed with plastic sealer.

4.1.5 <u>Multiple (two or more) penetrations of nonstructural steel bulkheads</u> (other than wire mesh or expanded metal), bents, web frames, transverse girders, and longitudinal girders. Unless otherwise specified, multiple cable penetrations of nonstructural steel bulkheads, bents, web frames, transverse girders and longitudinal girders shall employ one of the following:

- (a) Metal stuffing tubes, multiple cable penetrators, nipples (for single cable penetrations) having a minimum length of 2 inches with a minimum annular area between cable and the nipple of 1/4 inch packed with plastic sealer.
- (b) Banding collars (for multiple cable penetrations) having a minimum collar length of 3 inches with a minimum annular area between the cable and the collar of 1 inch with the entire void area within the collar (this includes the area between the collar and the cable and the area between the cables) packed with plastic sealer.

Cable penetrations of vertical nontight structures within a compartment need not be sealed at intervals closer than every 20 feet horizontally. However, all chaffing collars of the structures selected for sealing shall be sealed.

4.1.6 <u>Plastic sealer</u>. After the cables are properly secured, plastic sealer electrical insulation, MIL-I-3064, type HF, shall be used to seal the space around the cable as follows:

- (a) In cable clamps and bushings entering the top of an electrical enclosure.
- (b) In bushings or nipples used for passing cables through light-tight and fumetight bulkheads.

Plastic sealer shall also be used to seal around cables as they enter stuffing tubes, kickpipes and sewage tubes as shown on the individual figures.

4.1.7 <u>Cable penetrations spacing</u>. The size of stuffing tube groups shall be limited to permit tightening of gland nuts in the group using stuffing tube wrench set, GGG-W-646, type II, class I, style A, form B, table VI. Penetration spacing is specified in DDS 100-2.

4.1.8 <u>Stuffing tube packing</u>. Stuffing tube packing shall be in accordance with MIL-P-16685, either the preformed (coil) class 2 or bulk class 1. When bulk packing is used, the first and last turns shall be part "A" (hard) and the intermediate turns shall be part "B" (soft) of class 1. Reinforced neoprene packing, in accordance with MIL-R-15624, CL I may be used as an alternate, asbestos free, packing material (see figure 3B48). Downloaded from http://www.everyspec.com

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4.1.9 <u>Kickpipes</u>. Kickpipes, aluminum, brass or steel, shall be standard pipe sizes. Ends of pipe shall be chamfered and burrs existing on the inside wall shall be removed to prevent chafing of cable.

5. DETAILED REQUIREMENTS

See figures

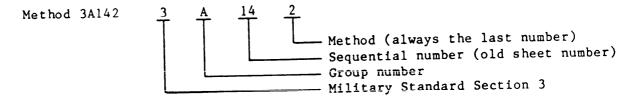
6. NOTES

6.1 Intended use. This section specifies the requirements for swage tubes, stuffing tubes and kickpipe methods to be employed both on surface ships and submarines. Standard methods identified for electric plant installation are intended for new construction only.

6.2 Designation of Electric Plant Installation Standard Methods figures. The Electric Plant Installation Standard Methods (DOD-STD-2003-3), contains drawings that depict Standard Methods that are applicable for general electric plant installation on both surface ships and submarines. Each drawing has been assigned a figure number. The methods shown on the figures are grouped together providing similar functions. These groups are:

DOD-STD-2003-3	(Penetrations)	В. С.	Stuffing	Tubes Tubes	(Submarines) (Surface Ships) (General)

The methods shown on the figures are identified by the following alphanumeric designation system:



Thus, method 3A142 identifies method 2, sequential number 14 in group A of DOD-STD-2003-3.

6.3 Subject term (key word) listing.

Stuffing tubes (submarines) Stuffing tubes (surface ships) Stuffing tubes (general) Kickpipes

> Preparing activity: Navy - SH (Project GDRQ-N066-3)

NO TES:

1. THE PACKING INSTRUCTIONS ARE APPLICABLE TO STUFFING TUBLE ON DWG. NAVSEC NO: 9000-56202-73899 SUBMARINES 2 THIS FRUITE SUPERSEDES SHEET 3A I OF DRAWING 803-5001027 AND SECTION 5. SHEET 72. OF DRAWING NAVSEC NO 9000-55202-73980

> A. S. Z. Y. J. AROVE
>  A. S. M. A. S. Z. Y. J. AROVE
>  B. DOTH RUNS OF THE TUBE SHALL BE PACKED WITH A SINGLE RINS. BUTT ELUED TIGHT OF (MANY SYMBOL 1430) TELERIEL RETULLE PACKING FORCED TIGHTUR INTO PLACE FOLLOWED BY ONE BING OF SEALING PACKING STEC MILL PLAGS PACHE BAGS PART A THESE PACKING STEC MIL PLAGS PACHE BET UP TIGHT USING THE STACKING STEC MILL PLAGS PACHE BET UP TIGHT USING THE STACKING UPTO THIS PACKING STEC MILP TIGHT USING THE STACKING UPTO THIS PACKING STHE CAVITY OR THE STACKING UPTO THIS PACKING STHE CAVITY OR THE STACKING UPTO THIS POLICE THE PARPOSE OF THE PACKING UPTO THIS POLING THE PARPOSE OF THE PACKING UPTO THIS POL 5 GENERAL INSTRUCTIONS (ALL TYPES)
>  A WITH GLANDINU'S RINGS AND PACKING SETS IN PLACE CARE WAST RET TAKIN TO PARCENT CAMAGE OF INUURY 101 HE PACKING SETS
>  B ON CABLES WHERE THE INITIAL CLEARANCE BETWEEN THE PACKING SETS
>  B ON CABLES WHERE THE INITIAL CLEARANCE BETWEEN THE PACKING SETS AND THE ARANGE SIGN SUBJICTENT OLICOW THE CABLE TO BE PULLED THROUGH THE SULFFICIENT O ALLOW THE CABLE TO BE PULLED THROUGH THE SULFFICIENT CABLE UNTIL A CLEARANCE BETWEEN THE PACKING SETS AND THE ARANGE SIGN SUBJICTENT O ALLOW THE CABLE TO BE PULLED THROUGH THE SULFFICIENT CABLE UNTIL THE CABLE UNTIL THE CABLE SIGN IC CHED AND THE GLANDINT HINL AND PACKING SIT IS PULLED INTO POSITION THE PACKING SETS AND BE AND CLAND ON THE BET ON THE PACKING SETS AND CLAND SULF USE OF SANOTH THE PACKING SIT AND CLAND ON THE OST OF ANOTH THE PACKING SIT AND CLAND ON THE OST OF ANOTH THE PACKING SIT AND CLAND ON THE AND CLAND SIT AND THE PACKING THAT ONE ON THE OST OF AND THE PACKING SIT AND CLAND ON THE AND CLAND SIT AND THE PACKING FACT ON THE PACKING SIT AND THE PACKING SIT AND CLAND ON THE PACKING SIT AND PACKING SIT AND CLAND ON THE PACKING SIT AND PACKING SIT AND CLAND ON THE PACKING SIT AND PACKING SIT AND CLAND ON THE PACKING SIT AND PACKING SIT AND CLAND ON THE PACKING SIT AND PACKING SIT AND CLAND ON THE PACKING SIT AND PACKING SIT AND CLAND ON THE PACKING SIT AND PACKING SIT AND CLAND ON THE PACKING SIT AND PACKING SIT AND CLAND ON THE PACKING SIT AND PACKING SIT AND CLAND ON THE PACKING SIT AND PACKING SIT AND CLAND ON THE PACKING SIT AND PACKING SIT AND CLAND ON THE PACKING SIT AND PACKING SIT AND CLAND ON THE PACKING SIT AND PACKING SIT AND CLAND ON THE PACKING SIT AND PACKING SIT AND CLAND ON THE PACKING SIT AND PACKING SIT AND CLAND ON THE PACKING SIT AND PACKING SIT AND CLAND ON THE PACKING SIT AND PACKING SIT AND PACKING PACKING ON THE PACKING SIT AND THE PACKING SIT AND C WELDING SHALE BE IN ACCORDANCE WITH PUBLICA-TION NAVSIER 0900-LP 006-8010 AND NAVSEA (900-LP-ANT 1000 4 TYPE ۵ Z. TYPE Z.
>  C BOTH GLAND NUTS SHULL BE TIGHTENED FOR CABLES WITH A MINIMUM OUTSIDED EDMATTENE MARTER THE GLAND NUT CANNOT BE SUFFICIENTLY TIGHTEN D ADDITOMAL SPLIT GLAND PHOSE JOINT AN EVEN ADDED TO EACH END OF THE TURE THE GLAND NUTS WITH F FINLL TIGHTENE TO POSITION BALL B BOTH GLAND NUTS SHALL BE TIGHTENED TO GIVE THE PREPARATOR PARAMOLA MINITIAL SET THEN THE GLAND NUTS SHOULD RE REMOVED AND A STUTT GLAND RING (JATI3) ADUPD TO FACH END OF THE TUBE INSTRUCTIONS FOR PACKING STUFFING TUBES - SUBMARINES (SEE NOTE 1) A POTH ENDS OF TURE MAY RE PACKED WITH PRE-FARRICATED PACKING IN ACCORDANCE WITH MIL-P-16485 3 TYPE 3 a same as 1(a) arove b same as 1(b) above c same as 1(c) above 2 TYPE 2 1 TYPE e 5 STIFFING TURES WITH INSULPTICENT CLEARANCE FOR ASSING CARLES WITH INSULFICENT CLEARANCE FOR EXECTING TOTILS WITH INSULFICENT CLEARANCE FOR EXECTING TOTILS RECOMMENDED THAT ACTIVATOR POOR SHLLF LIFE TT IS RECOMMENDED THAT ACTIVATOR POSCARDED AND REPLACED INSTRUCTIONS CONTAINED HEREIN ARE INTERDED FOR USE WITH PRIFYCIAL TO TURES WIFHE TT IS A REPLACE EXISTING CARLES B NESTALL UNDERSIGE CARLES STUFFING TUBES INSTRUCTOR CABLES IN ACCORDANCE, WITH MIC 2015, M.S. C23401, G.M. C22401, G.M. C2401, G BRAND NAME CHENG ALEVI MANUTALTURERS XY-24A GROUP 3 CAL 19 ALEVIA TAVIOR NAMULATURERS XY-24A GROUP 3 CAL 19 ALEVIATOR NAMULATURER CO REAL 012 LATIN 25 AL 19 ARONER AL 19 AL 19 ALEVIATOR NAMULATURER CO REAL 012 LATIN 25 AL 19 ANOLATOR NAMULATURER AL 19 ALEVIA ALEVIA AL 19 ALEVIA ALEVIA AL 19 ALEVIA AL

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SEALING COMPOUNDS

FIGURE 3A1. Passing cable through pressure proof bulkheads-submarines instructions for packing stuffing tubes

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NOTES 1 THIS FIGURE SUPERSEDES SHEET 343 OF DRAWING 803-3001027 MAD SECTION 51 SHEET 73 THRU 79A AND SHEET 122 THRU 130 OF DRAWING MAVSEC NO 9000-56202-73880

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MOTE THIS FICIURE SUPERSEDES SHEET 3A6 OF DRAWING 803-500127 AND SECTION 5, SHEET 73 THRU 79A AND 1227 THRU 130 OF DRAWING, NAVSEC NO 9000-5\$202-73980

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**Bissignment** 

cable

tube

stuffing

Steel a

3A7.

FIGURE

SH 132317083

The figure supersedes sheet 347 of drawing 800-5011027 section 5, sheet 73 thau 79A and sheet 1 Thar 130 of drawing invise no 13000-56272-73380 NOTE

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NOTE: THIS FIGURE SUPERSEDES SHEET 3A8 OF DRAWING 903-5001071 AND SECTION 5. SHEET 73 THRU 79A AND SHEET 122 THRU 130 OF DRAWING, NAVSEC MQ, 9000-56222-73980

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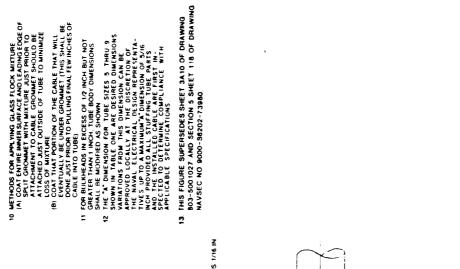
FRUFE 3A24 AND 3A25 FOR COTINED CARE NO STUTTING THE ASSOMMENT OWATS 5 FAURE SUPERSEDES SHEET 3A9 OF DRAWING -5001027. Downloaded from http://www.everyspec.com

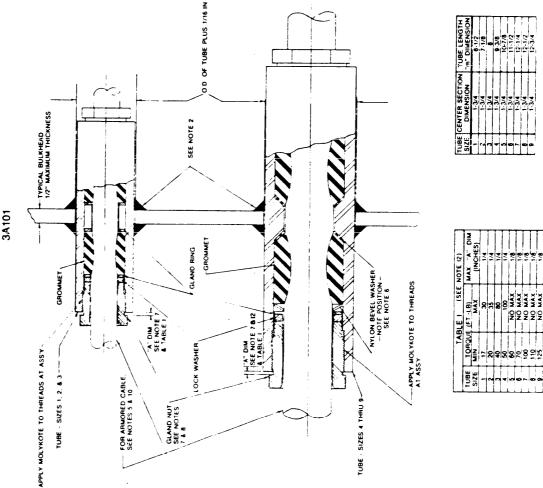
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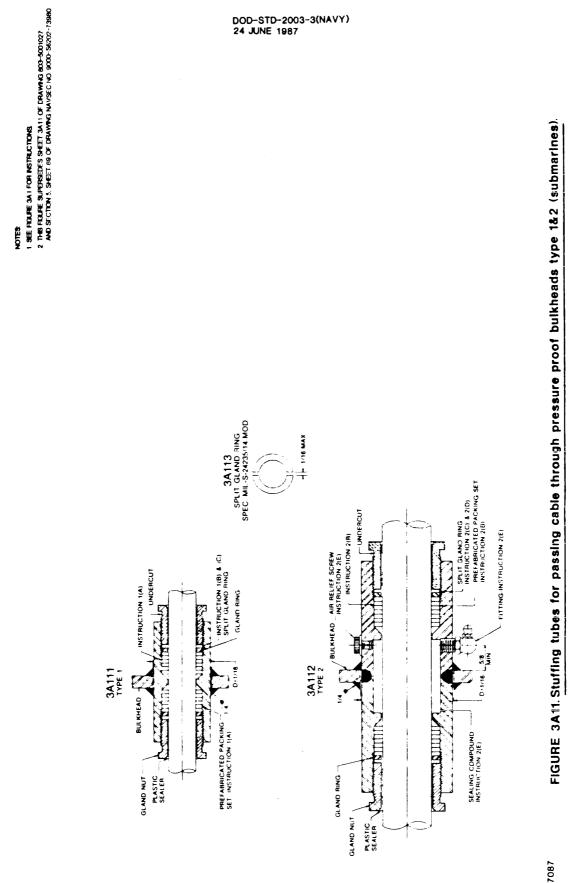




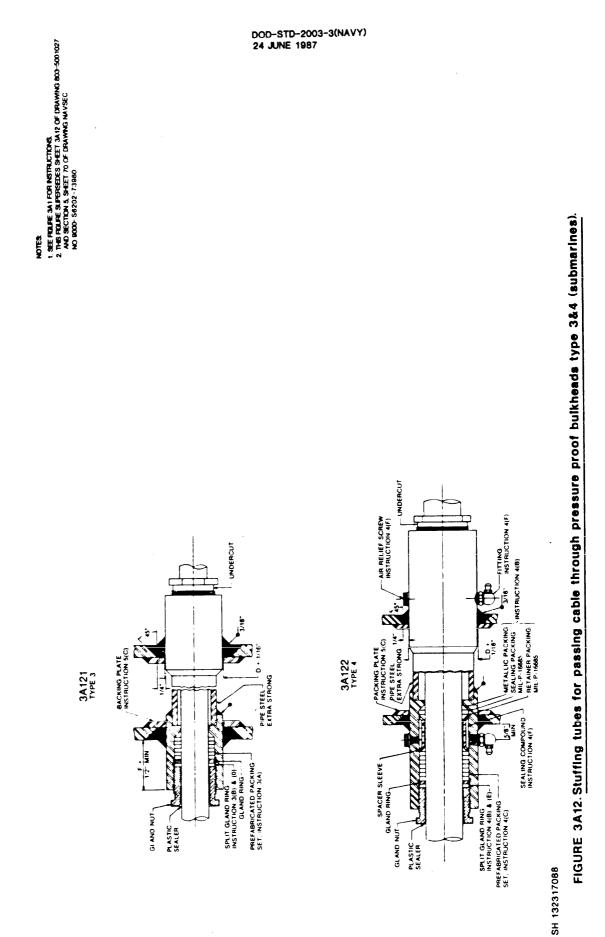




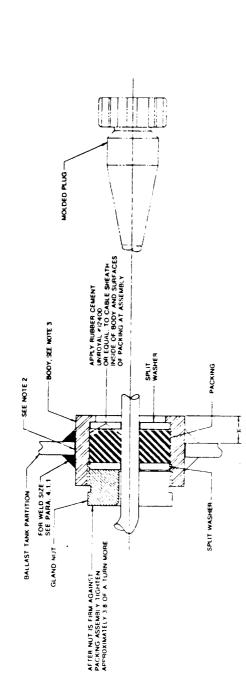
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ATFLUCTION         ATFLUCTION         ABLE           TUBE         CATE         WOLEP TLUE         DIMENSION           TUBE         TYPE         MIL         C21231         X           2425         DISS-4         713         W18         X           2425         DISS-4         713         W18         V18           2425         DISS-4         713         W18         V18           2425         TISS-4         713         W18         V18           2425         TISS-4         713         W18         V18           2425         MISS-6         713         W18         V18
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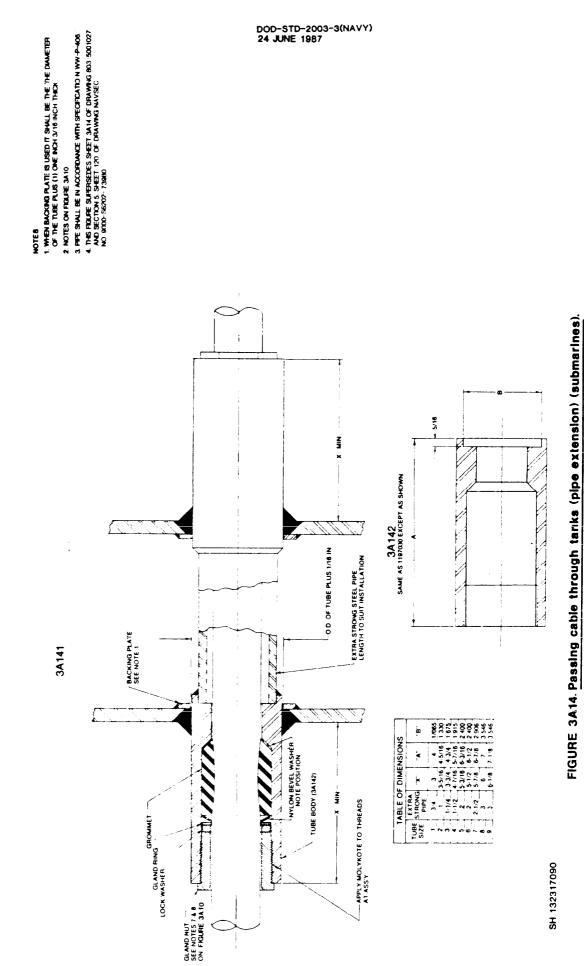
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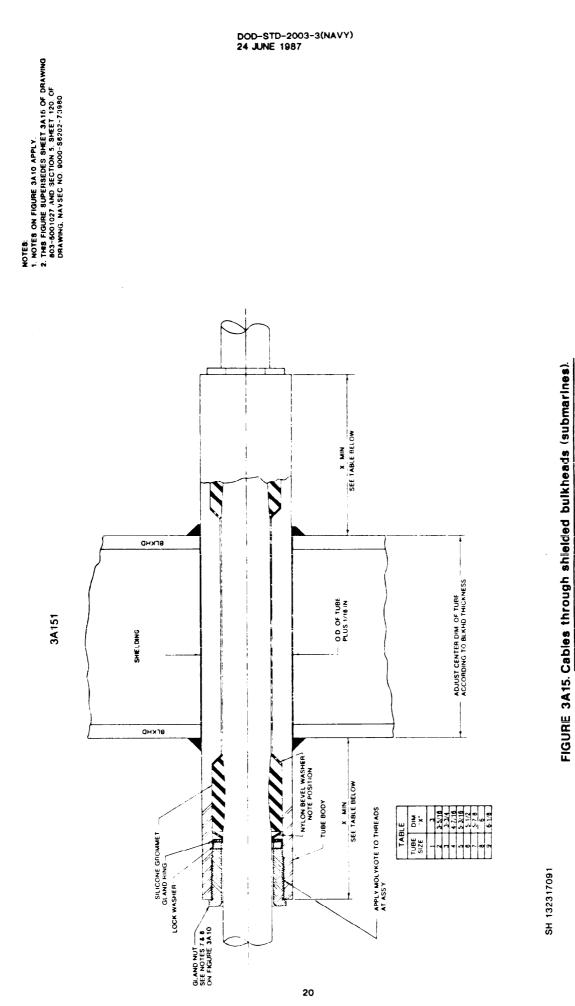
FIGURE 3A13. Passing cable through ballast tank partitions (submarines).

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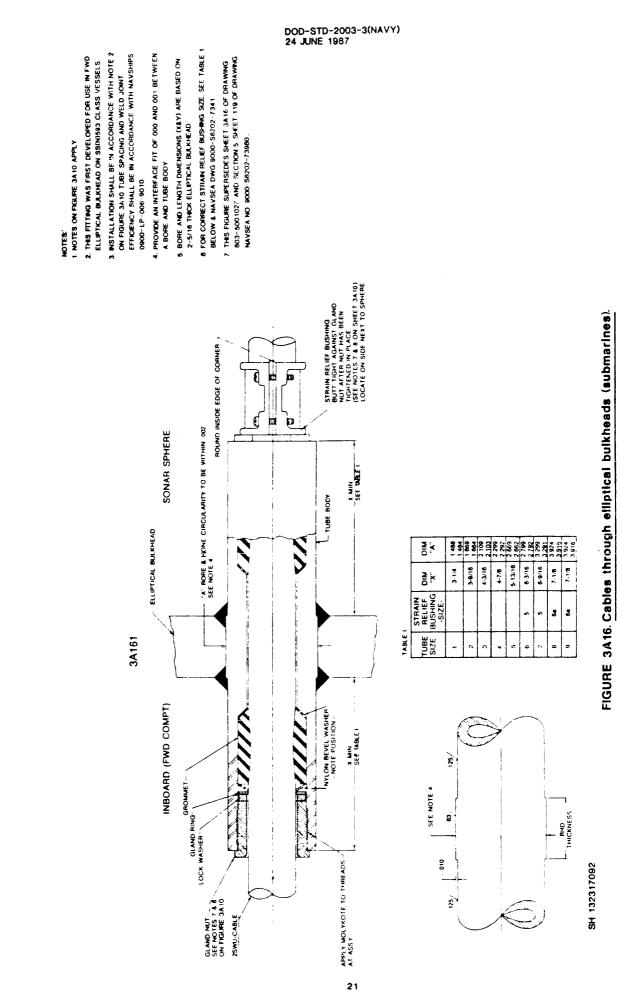
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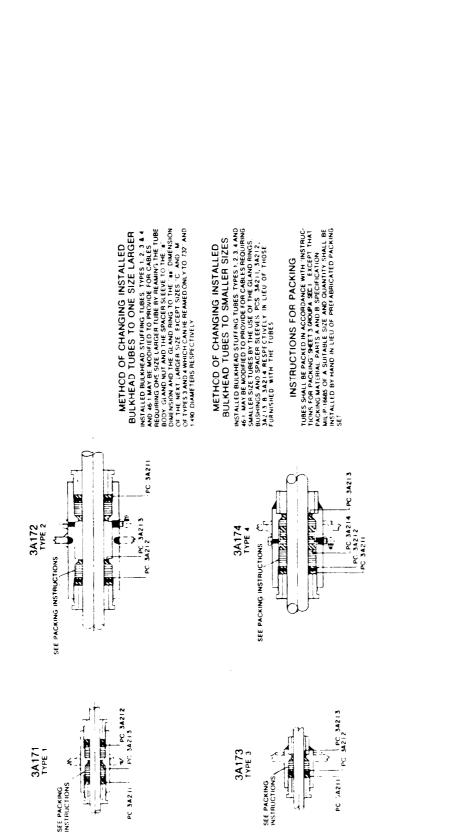


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NOTES: 1. THIS FRUME SUPERSEDES SHEET 3A17 OF DRAWING 803-6001027 AND SECTION 5. SHEET 71 OF DRAWING NAVSEC NO 9000-56202-73980.



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FIGURE 3A17. Methods of changing sizes of installed bulkhead stuffing tubes types 1 to 4 & 46 - 1 (submarines)

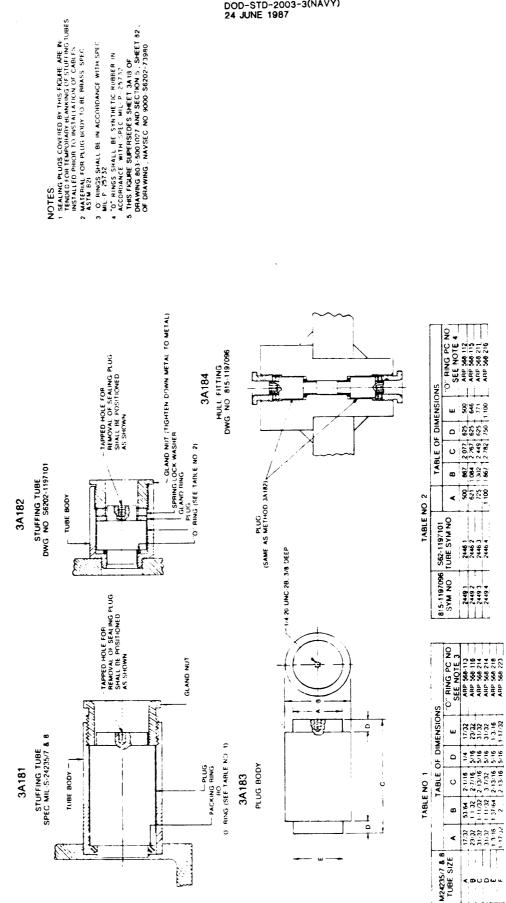
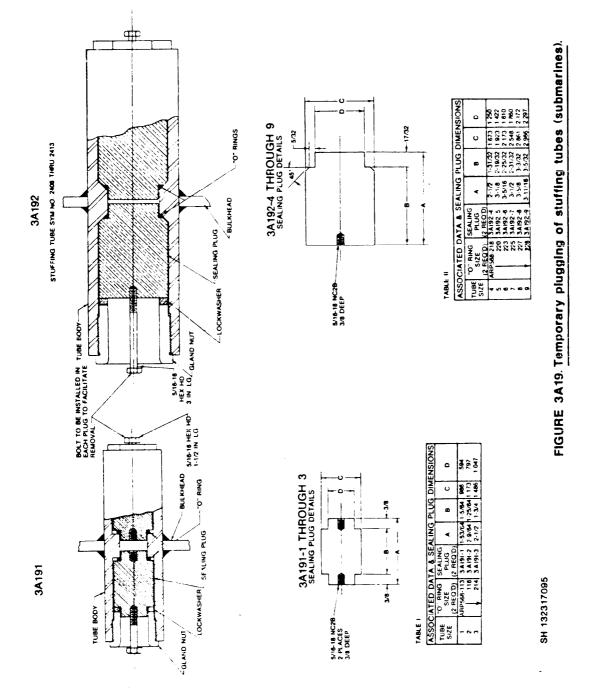
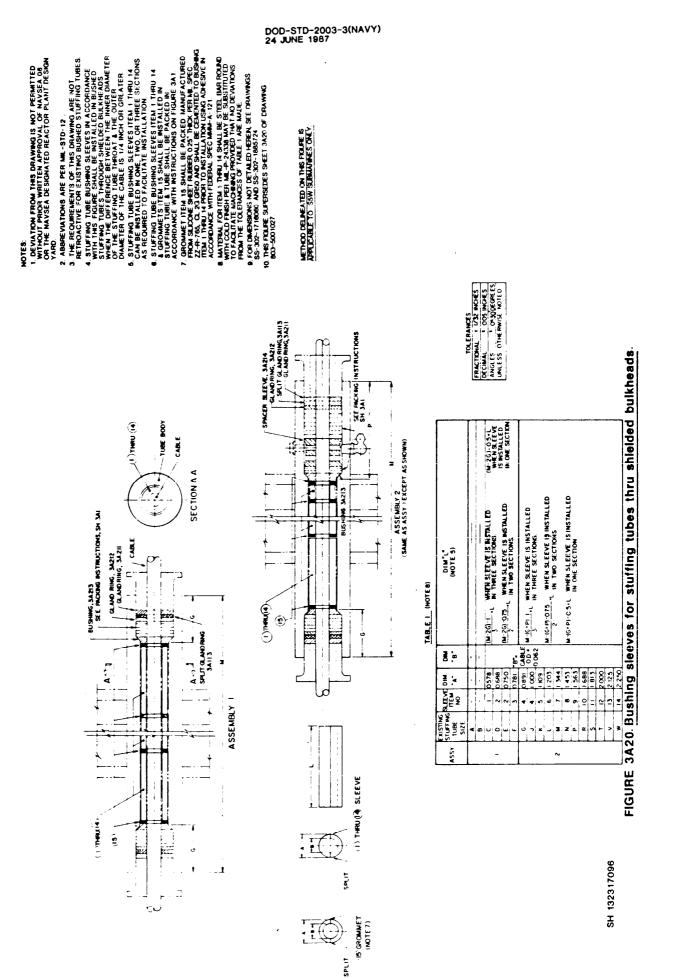


FIGURE 3A18. Sealing plugs for blanking stuffing tubes (submarines).

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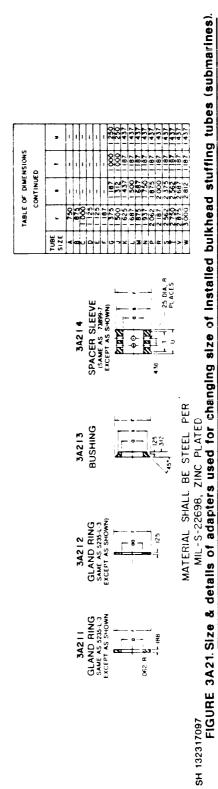


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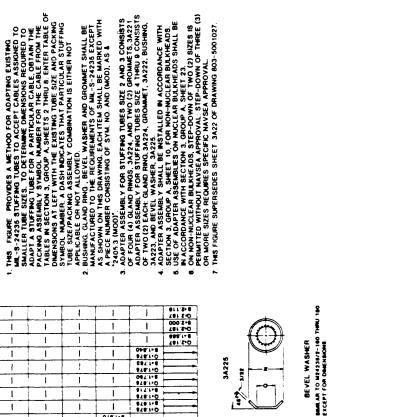
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BUSHED         DOWN         TO STUFFING         TUBE         SIZE         ADDR         MMELE         OT MMELE																1 735	990	2047	2112
BUSHED         DOWN         TO STUFFING         TUBE         SIZE         MAXIMUM WITHOUT         NAVENSIONS           0°         406         0°         100 <td< td=""><td>APPROV</td><td>00 1 515 00 1 1/2</td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1610</td><td>1 735</td><td>998</td><td>2 047</td><td>2112</td></td<>	APPROV	00 1 515 00 1 1/2			1										1610	1 735	998	2 047	2112
BUSHED         DOWN         TO STUFFING         TUBE         SIZES         MAXINUM         MALLEUT         MAL	NAVSEA	1 - 25/64												8	1610	1 735	1 860	2 047	2112
BUSHED DOWN TO STUFFING TUBE SIZE T WO TUBE 0. 406, 0. 10, 0. 100, 0. 100, 0. 640, 0. 650, 0. 650, 0. 650, 0. 650, 0. 100, 0.													- <b>3</b>	205	1 610	1735	1 860	2047	2112
BUSHED DOWN TO STUFFING TUBE SIZE T WO TUBE 0. 406, 0. 10, 0. 100, 0. 100, 0. 640, 0. 650, 0. 650, 0. 650, 0. 650, 0. 100, 0.		00 1 5/32										1 250	1391	9 <b>2</b>	1 610	1 735	990	2047	2 172
BUSHED DOWN TO STUFFING TUBE SIZE T WO TUBE 0. 406, 0. 10, 0. 100, 0. 100, 0. 640, 0. 650, 0. 650, 0. 650, 0. 650, 0. 100, 0.	SIZES M	a 1 062 aa 1 3 764	• •								8	1 250	1301	205	1 610	1 735	1 860	2 047	2172
BUSHED DOWN TO STUFFING 0.466 0.100 WN TO STUFFING 0.466 0.100 WN TO STUFFING 0.466 0.100 0.100 0.100 0.100 0.100 0.0000 0.000 0.0000 0.0000 0.000 0.000 0.0000 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000000000	TUBE	953 953	-	1 1 1						1001	95-1	1 250	1 391	895	1 610	1 735	1 860	2017	2 172
BUSHED DOWN TO STUFFING 0.466 0.100 WN TO STUFFING 0.466 0.100 WN TO STUFFING 0.466 0.100 0.100 0.100 0.100 0.100 0.0000 0.000 0.0000 0.0000 0.000 0.000 0.0000 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000000000	SIZE TV		•	     	-			-	170	8	3	1250	1381	200	1610	1 735	1 860	204	2172
BUSHED DOWN TO SITUATION TO SIT	NG TUBE	00 13/16	1				! ! !	828	939	13-	2	1 250	1 391	9 <u>9</u>	1 610	1 735	1 860	2 047	
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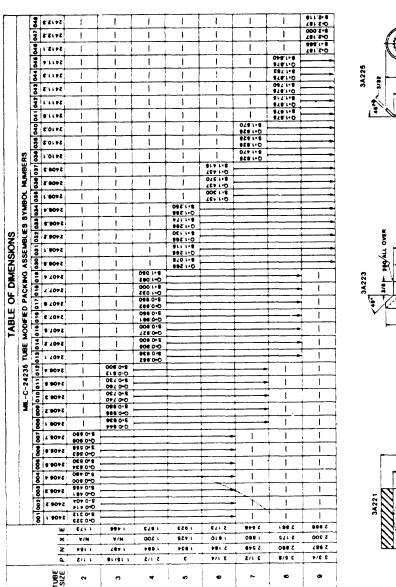


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#### DOD-STD-2003-3(NAVY) 24 JUNE 1987



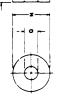


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GROMMET FOR TUBE SIZE 4 THRU 9

1 8444, AR TO W24236/2-060 THEN -110 EXCEPT FOR DAKENSIONS SH 132317098

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I MATL AL BAZ ML-8-24068 2. BREAK ALL BHARP COMMERS



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1. BMALAR TO M24238/2-001 TMMU -078 EXCEPT FUR DAMENSIONS, GROMMET FOR TUBE SIZE 2 & 3







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3A222



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NOTES: NOTES: 1. ANY DEVATIONS FROM THIS FIGURE ARE NOT PERMITED WITHOUT PRIOR WRITTEN APPROVAL OF MAYSEA 08 OR THE MAYSEA DESIGNATED REACTOR PLANT DESIGN YARD 2. ABBREWATIONS ARE IN ACCORDANCE WITH MAL-STD-12C. 3. THE REQUERMENTS OF THIS FIGURE ARE NOT BEFROMETIVE FOR EXSTING BUSFERD STURFTWE THERS	<ul> <li>STUFFNG TUBE BUSHMG SLEEVES IN ACCORDANCE WITH THIS FROME BUSHMG SLEEVES IN ACCORDANCE WITH THIS FROME BUSHMG SLEEVES IN ACCORDANCE WITH THE DFFFRENCIE BUSHMC SLEEVES IN A BUSHED STUFFING THE FRENCIE BETWEEN THE AURTER DAWETER OF STUFFRG JUBE THEORIA THE AURTER DAWETER OF THE CABLE BJ 14 MCH OR GREATER.</li> <li>STUFFNG TUBE BUSHMC SLEEVES THEMS T THRU B CAN RE RISTALLED IN CME. TWO OR THEE SECTIONS AS REQUENDED TO FACLITATE INSTALLICD IN STUFFING THREATURE BUSHMC SLEEVES THEMS THRU B AND FROMETS THEM STALLED IN CME. THOU OR THEE SECTIONS AS REQUENDED TO FACLITATE INSTALLICD IN STUFFING THREAT LEE INSTALLED IN CME. THRU B AND FROMETS THEM STALLED IN CME. THRU B AND CROMMETS THREAS STALL BE RASTALLED IN STUFFING THREAT THRE SHALL BE RASTALLED IN STUFFING THREAL FOR THEMS 1 THRU B SHALL BE OF STELL BAR ANTERNAL FOR THEMS 1 THRU B SHALL BE OF STELL BAR ANTERNAL FOR THEMS 1 THRU B SHALL BE OF STELL BAR ANTERNAL FOR THEMS 1 THRU B SHALL BE OF STELL BAR ANTERNAL FOR THEMS 1 THRU B SHALL BE OF STELL BAR ANTERNAL FOR THEMS 1 THRU B SHALL BE OF STELL BAR ANTERNAL FOR THEMS 1 THRU B SHALL BE OF STELL BAR ANTERNAL FOR THEMS 1 THRU B SHALL BE OF STELL BAR ANTERNAL FOR THEMS 1 THRU B SHALL BE OF STELL BAR ANTERNAL FOR THEMS 1 THRU B SHALL BE OF STELL BAR ANTERNAL FOR THEMS 1 THRU B SHALL BE OF STELL BAR ANTERNAL FOR THEMS 1 THRU B SHALL BE OF STELL BAR ANTERNAL FOR THEMS 1 THRU B SHALL BE OF STELL BAR ANTERNAL FOR THEMS 1 THRU B SHALL BE OF STELL BAR ANTERNAL FOR THEMS 1 THRU B SHALL BE OF STELL BAR ANTERNAL FOR THEMS 1 THRU B SHALL BE OF STELL BAR ANDER THRU BAR AND FOR THRU BAR AND FOR TARBUR TO THE RACHMANCES OF TABLE 1 ANDE AND FOR THRU BAR AND FOR THRU BAR AND FOR THRU BAR AND FOR TARBUR TO THRU BAR AND FOR TARBUR TO THRU BAR AND FOR TARBUR TO THRU BAR AND FOR TARBUR TO THRU BAR AND FOR TARBUR TO THRU BAR AND FOR TARBUR TO THRU BAR AND FOR TARBUR TO THRU BAR AND FOR TARBUR TO THRU BAR AND FOR TARBUR TO THRU BAR AND FOR TARBUR TO THRU BAR AND FOR TARBUR TO THRU BAR AND FOR TARBUR TO THRU BAR AND FOR TAR</li></ul>	<ul> <li>B. GROMMET TIEM 9 SHALL BE MANUFACTURED FROM</li> <li>SLUCON SHEET RUBBER, 0.25' THUCK PEH MIL SPEC</li> <li>ZZH-PGS, CL 30 GRAS MAN SHALL BE CREMENTED</li> <li>ZZH-PGS, CL 30 GRAS MAN SHALL BE CREMENTED</li> <li>USUBHOAD FENTER 1 THPU 8 PRIOR TO INSTALLATION</li> <li>USNB ADVESTVE IN ACCORDANCE WITH FEDERAL</li> <li>SPEC MAMI-A-121.</li> </ul>	<ol> <li>FOR DAVENSIONS NOT DETALED HEREN, SEE MIL -5 - 24 235 AND FIGURE 3A 22</li> <li>THIS FIGURE SUPERSIDES SHEET 3A 23 OF DRAWING</li> </ol>	803-5001027. METHOD DELINEATED ON THIS SHEET IS APPLICABLE TO SSW SUBMARINES ONLY
CROWNET, JAZ21 GROWMET, JAZ21 () CROWMER, RAISTING () CROWMER,	ASSEMBLY I ASSEMBLY GROWET 3222 GROWET 3222 GROWET 3222 GROWET 3222 GROWET 3222 GROWET 3223 GROWET 3233 GROWET 32	ASSEMBLY 2	ASSY TUBE FIEW ON Y. BY ON TO SIZE NO Y. BY ON AC	1         -         -         (w-20)-0.50.1 WHEN SLEEVE IS INISTALLED           1         2         1         0750         (w-20)-0.25.1 WHEN SLEEVE IS INSTALLED           3         2         1.000         (w-20)-1.50.1 WHEN SLEEVE IS INSTALLED

TOLERANCES	FRACTIONAL + 1/32 INCHES	DECIMAL T.005 INCHES	ANGLES ± 0°- 30' DEGREES	UNLESS OTHERWISE NOTED
eads.				

FIGURE 3A23. Bushing sleeves for stuffing tubes thru shielded bulkhe

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		-	1	ł		(M-20)-0.50 L WHEN SLEEVE IS MISTALLED
	-	2	-	0750		(M-20)-0.75 L WHEN SLEEVE IS INSTALLED
		6	2	1.000		(M-2G) -1.004 WHEN SLEEVE IS INSTALLED
		*	n	1.203	جز	WHEN SLEEVE IS INSTALLED
		3	4	1.375	1.375 CABLE	MATCHINE IN ONE SECTION
	,	9	S	1.563	563 0.062	(M-2Q)-1 50 WHEN SLEEVE IS INSTALLED
	•	1	9	1.813		2 IN TWO SECTIONS
		8	7	2.125		(M-2G)-1.75 WHEN SLEEVE IS INSTALLED
		8	8	2.250		3 N THREE SECTIONS
als r	0	for	et. 1 f f l	5	ooqu	a cleaves for stuffing tubes thru shistdad huithaada

SH 132317099

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1. THIS FIGURE SUPERSEDES SHEET 3A2(5 OF DRAWING 803-5001027 NOTE

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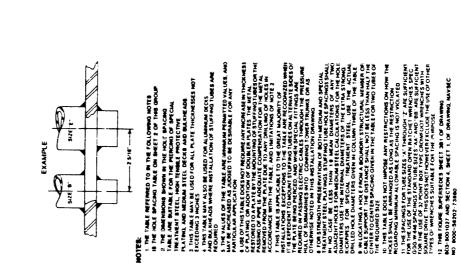
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# FIGURE 3B1. Stuffing tube and kickpipes minimum spacing (surface ships).

FROM DESIGN DATA SHEET DDS 100-2

HOLE SPACING IN DECKS AND BULKHEADS

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DOD-STD-2003-3(NAVY) 24 JUNE 1987

IOLE SPACING IN DECKS AND BULKHEADS REPROUCED FROM DESEAN DATA SKEET DDS 100 2 3821
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NOTE

1. THIS FIGURE SUPERSEDES SHEET 382 OF DRAWING 803-5001027 AND SECTION 4. SHEET 2. OF DRAWING NAVSEC NO 9000-56202-73980									
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FIGURE 3B2. Stuffing tube and pipe minimum spacing (surface ships).

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FIGURE 3B3. Swage tube minimum spacing (surface ships).

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HOLE SPACING IN DECKS AND BULKHEADS TABLE DERIVED FROM REQUIREMENTS OF DESIGN DATA SHEET DDS 100 2 3831

1. THAS FIGURE SUPERSEDES SHEET 383 OF DRAWING 803-5001027 AND SECTION 4. SHEET 2. OF DRAWING , NAVSEC NO. 8000-56202-73980.

NOTE

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he carles usted on this foure are per Mil-C-9155.	HIS FIGURE SUPERSEDES SHEET 384 OF DRAWING +6001027 AND SECTION 4. SHEET 3-10 OF DRAWING, /SEC NO. 8000-58202-73800.
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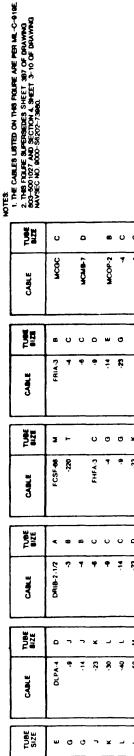
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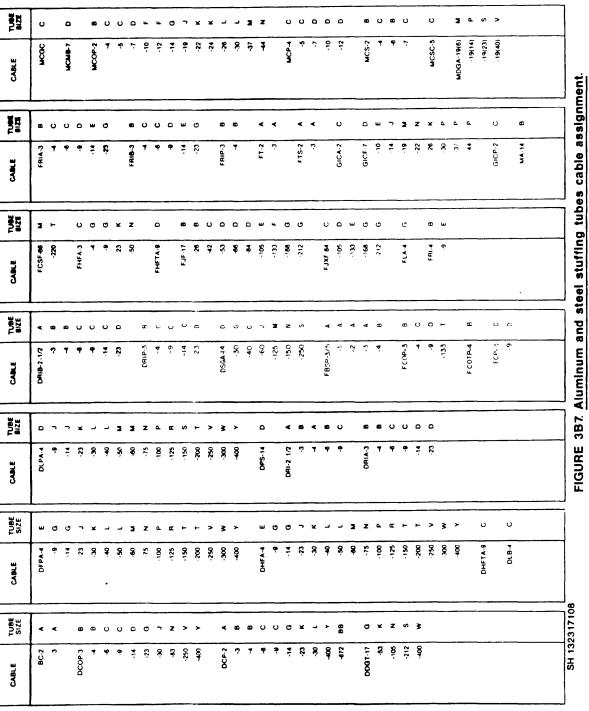
BITD ON THIS FIGURE ARE PER ML-C-010L PEDSEDES BHEET 306 OF DAMINIG D SECTION 4, SHEET 3-10 OF DRAMING >-50202-73000.

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BLES LISTED ON THIS FOLIFE ARE PER ML C-916. ML ML-C-22162 AND ML C-221415 AND ARE E OR MANUFACTIBENG MUS BEEN DISCONTINED SURE SUFFENES SHEET 280 OF DRAWING 2000 SISTOR-13840.

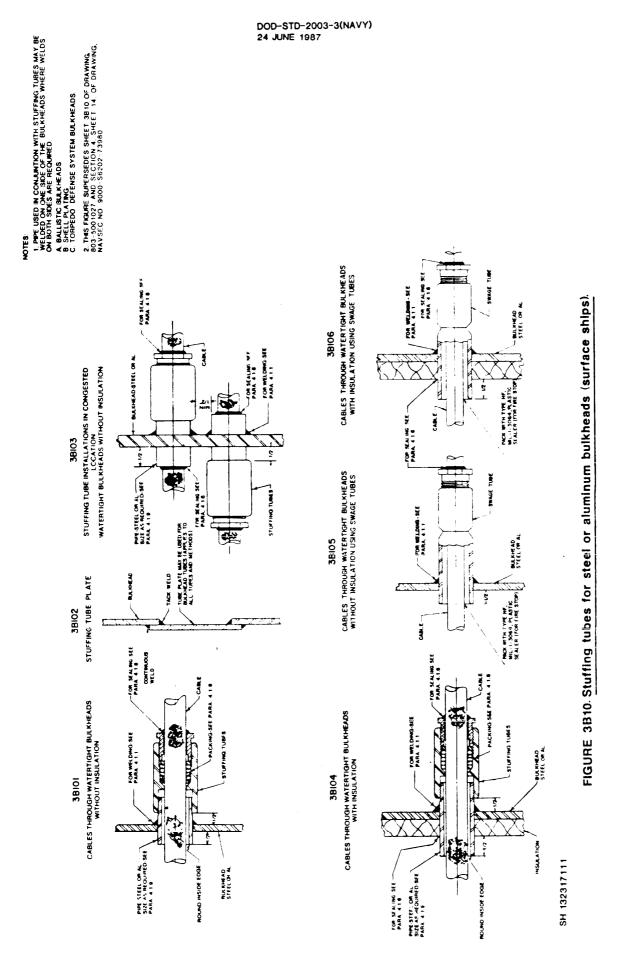
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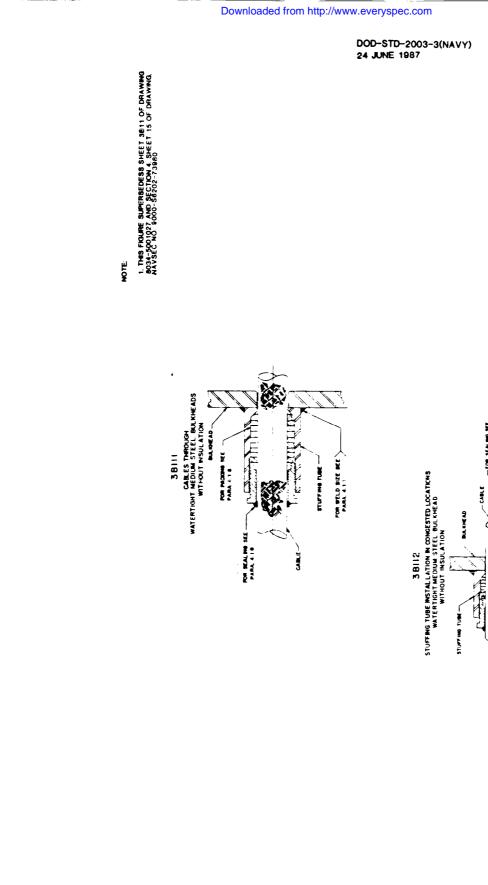
NOTES

1. THE CABLES LISTED ON THIS FROURE ARE PER MML -C-915. MML -C-2194. MML -C-2145.AND ARE OBSOLETE OR MML ACTURING HAS BEEN DISCINTINUED 2. LISTING CONTINUED ON FIGURE 3861 3. THIS FIGURE SUFFREEDES SHEET 389.4.3861 OF DRAWING 803-500 1027 AND SECTION 4. SHEET 3-10 OF DRAWING NAVEEC NO 9000-56202-73980

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# FIGURE 3B11. Stuffing tubes for steel or aluminum bulkheads (surface ships).

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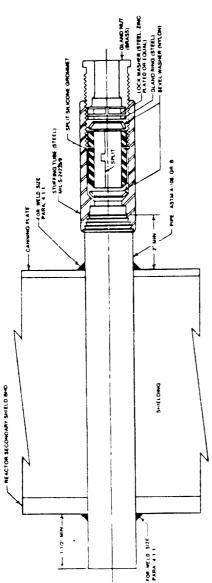


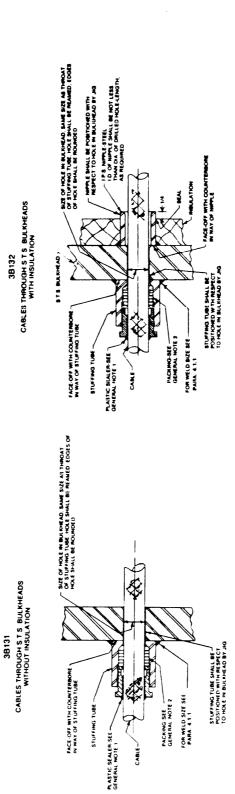
FIGURE 3B12. Stuffling tubes through shielded bulkheads (surface ships).

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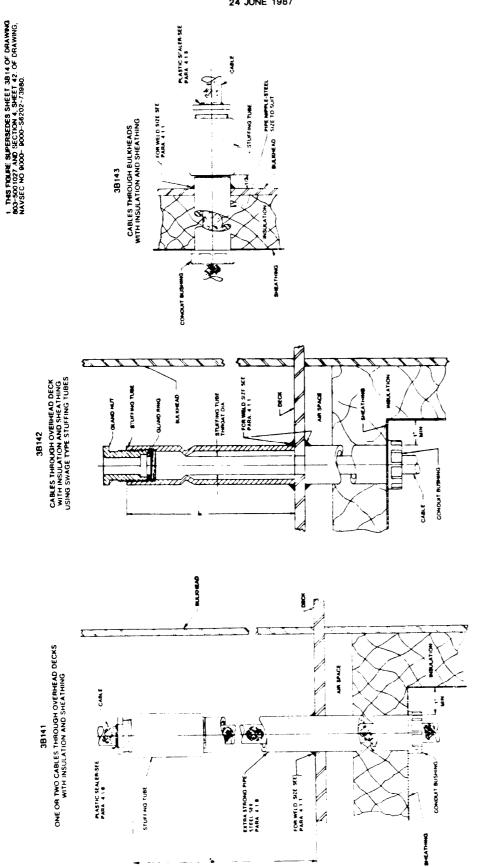
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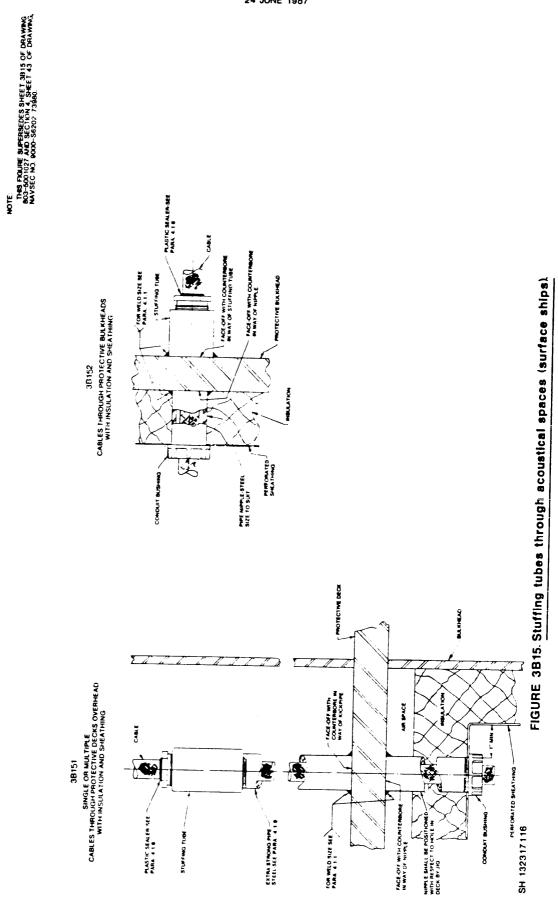


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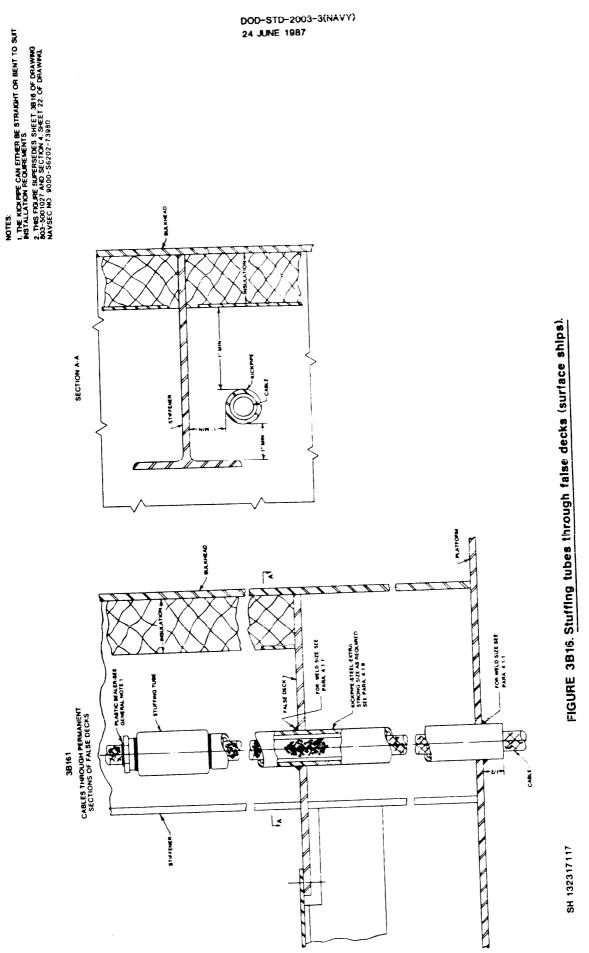
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FIGURE 3E14. Stuffing tubes through acoustical spaces (surface ships).



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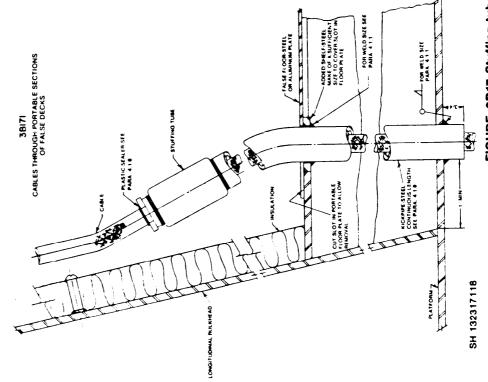
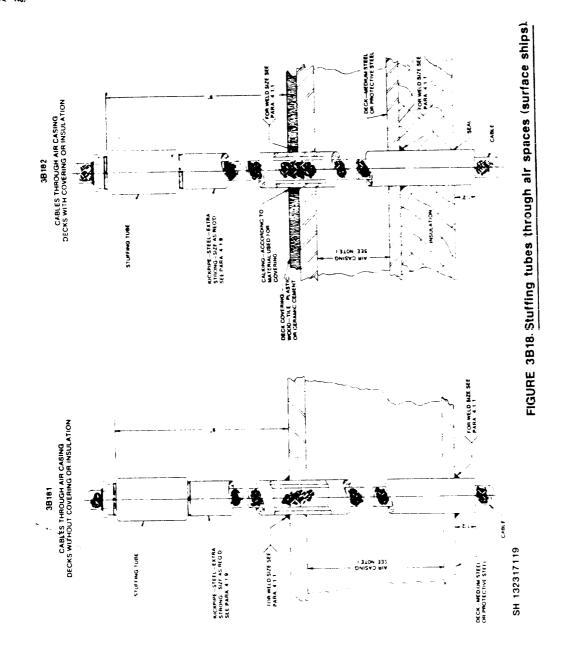


FIGURE 3B17. Stuffing tubes through false decks (surface ships).

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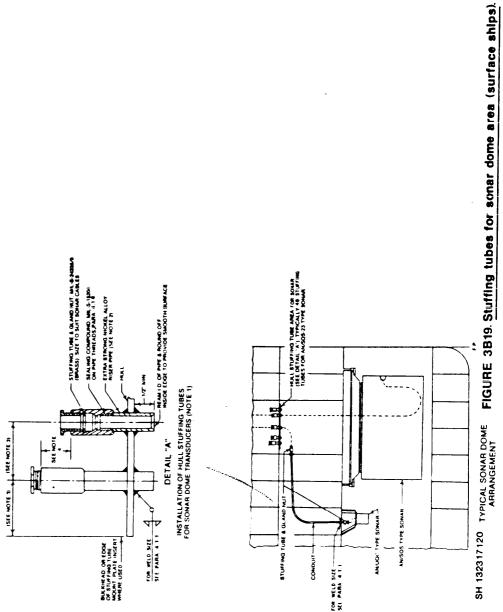
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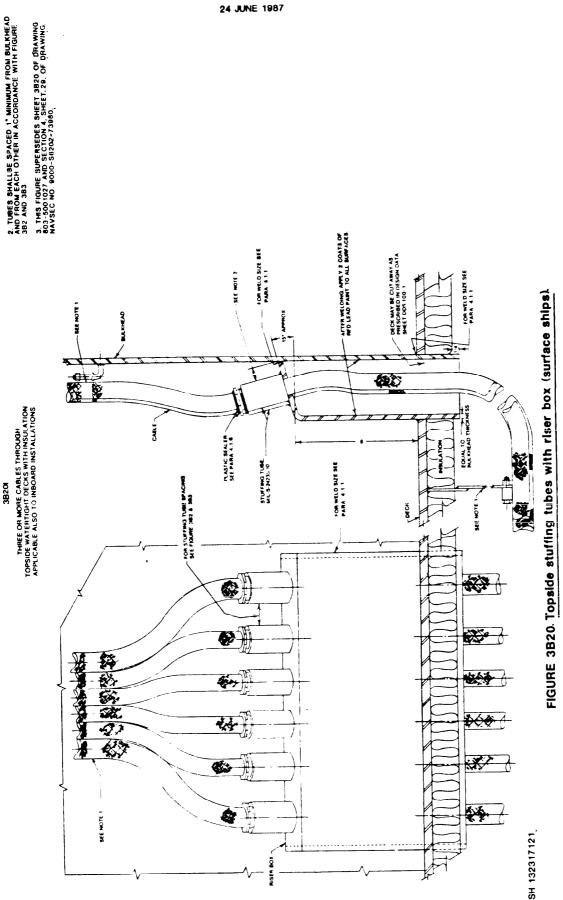




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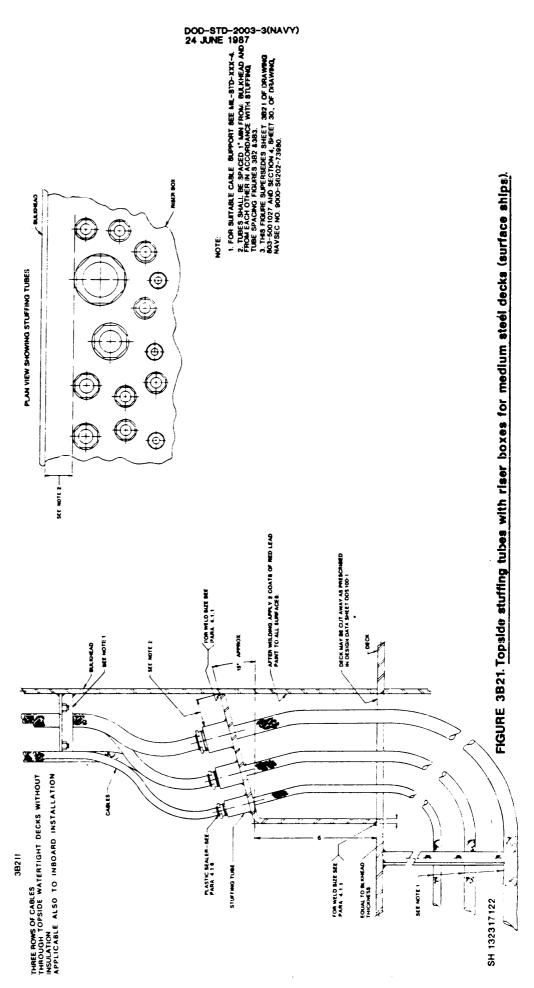
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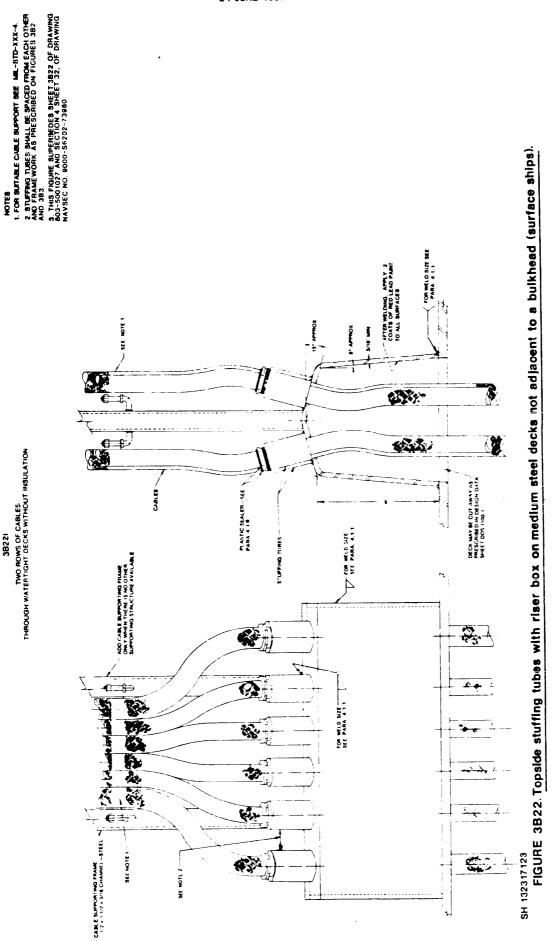
1. FOR SUITABLE CABLE SUPPORT SEE MIL-STD-XXX-4.

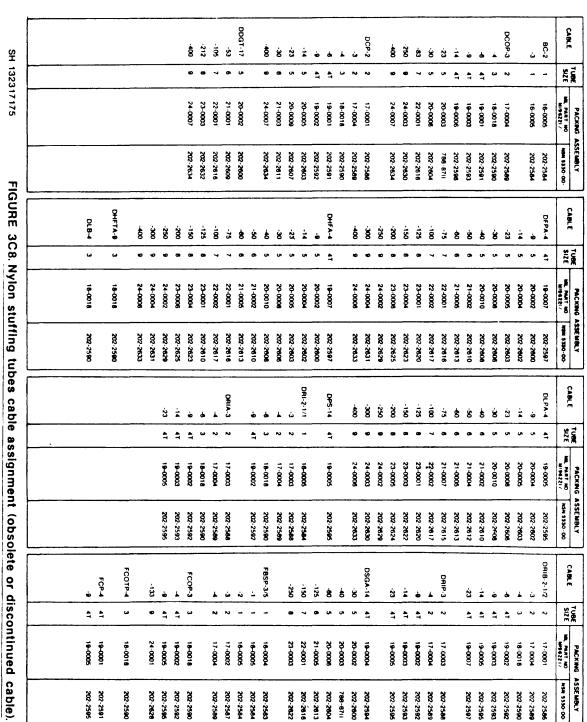
NOTES:











NOTES 1 THE CABLES LISTED ON THIS SHEET ARE PER ML-C-915, ML-X-2194, ML-C-23206 AND ML-C-24145 AND ARE DISSOLETE OR MANUFACTURING HAS BEEN DISCONTINUED

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2 THS FIGURE SUPERSEDES SHEET 3C8 OF DRAWING 803-500127 AND SECTION 4. SHEET 68-73, OF DRAWING, NAVSEC NO 9000-58202-73980

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# SH 132317174

FIGURE 3C7 Nylon stuffing tubes cable assignment.

TIGE         MACRING         ASSIMULT         CABLE         TIGE         MACRING         ASSIMULT           11         1         16.0004         202.2602         33.1.22         1         16.0004         202.2603           12         4.1         16.0004         202.2603									202-2634	24-0007	و	-400				
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TIGE         MARKAR         ASSEMUNT         CABLE         TIGE         MARKAR         CABLE	202-2	24-0007	ŵ	- 60				<b>d</b> aal <b>a</b>					202-2617	22-0002	~	-24
True         Value	202-2	24-0004	æ		2(12-2630	24-0003	ç	-200	202-2630	24-0003	•		202-2613	21-0005	•	-19
Trigge         Proclama ASSEMBLY         CABLE         Trigge         Proclama ASSEMBLY         CABLE         Trigge         Proclama ASSEMBLY         CABLE         Trigge         Proclama ASSEMBLY         CABLE         Trigge         Proclama ASSEMBLY         CABLE         Trigge         Proclama ASSEMBLY         CABLE         Trigge         Proclama ASSEMBLY         CABLE         Trigge         Proclama ASSEMBLY         CABLE         Trigge         Proclama ASSEMBLY         CABLE         Trigge         Proclama ASSEMBLY         CABLE         Trigge         Proclama ASSEMBLY         CABLE         Trigge         Proclama ASSEMBLY         CABLE         Trigge         Proclama ASSEMBLY         CABLE         Trigge         Proclama ASSEMBLY         CABLE         Trigge         Proclama ASSEMBLY         CABLE         Trigge         Proclama ASSEMBLY         CABLE         Trigge         Proclama ASSEMBLY         Proclama ASSEMBLY         Proclama ASSEMBLY         Proclama ASSEMBLY         Proclama ASSEMBLY         Proclama ASSEMBLY         Proclama ASSEMBLY         Proclama ASSEMBLY         Proclama ASSEMBLY         Proclama ASSEMBLY         Proclama ASSEMBLY         Proclama ASSEMBLY         Proclama ASSEMBLY         Proclama ASSEMBLY         Proclama ASSEMBLY         Proclama ASSEMBLY         Proclama ASSEMBLY         Proclama ASSEMBLY         ProclamASSEMBLY         ProclamASSEMAN	202-2	24-000	ت	-23	202-2625	23-0006		-150	202-2625	23-0006	8	-37	202-208	21-0001	σ	-
TURE         MARINE ASSIMULT         CABLE         TURE         MARINE ASSIMULT         CABLE         TURE         MARINE ASSIMULT           -7         5         20.0004         202.2607         35.1-27         1         16.0001         202.2560         547.6         MARINE ASSIMULT         11.0001         202.2560         547.6         11.0001         202.2560         547.6         11.0001         202.2560         547.6         11.0001         202.2560         547.6         11.0001         202.2560         547.6         11.0001         202.2560         547.6         11.0001         202.2560         547.6         11.0001         202.2560         547.6         11.0001         202.2560         547.6         11.0001         202.2560         547.6         11.0001         202.2560         547.6         11.0001         202.2560         547.6         11.0001         202.2560         547.6         11.0001         202.2560         52.0007         202.2621         -9         47         19.0002         202.2560         50.0004         202.2621         -9         47         19.0002         202.2560         50.0004         202.2655         47         19.0002         202.2623         -10         6         21.0007         202.2655         47         19.0002         <	202-2	22-0005	~	-14	2(12-2623	23-0004		-125	202-2622	23-0003	8	÷.	202-2002	20-0004		
TURE         MANNA         ASSEMULT         CABLE         TURE         MANNA         CABLE         TURE         MANNA         CABLE         TURE         MANNA         ASSEMULT         CABLE         TURE         MANNA         ASSEMULT         TURE         MANNA         ASSEMULT         TURE         MANNA         ASSEMULT         TURE         MANNA         ASSEMULT         TURE         MANNA         ASSEMULT         TURE         MANNA         ASSEMULT         TURE         MANNA         ASSEMULT         TURE         MANNA         ASSEMULT         TURE         MANNA         ASSEMULT         STE         MANNA         ASSEMULT         STE         MANNA         ASSEMULT         STE         MANNA         ASSEMULT         STE         MANNA         ASSEMULT         STE         MANNA         ASSEMULT         STE         MANNA         ASSEMULT         STE         MANNA         ASSEMULT         STE         MANNA         ASSEMULT         STE         MANNA         ASSEMULT         STE         MANNA         ASSEMULT         STE         MANNA         ASSEMULT         STE         MANNA         ASSEMULT         STE         MANNA         ASSEMULT         STE         MANNA         ASSEMULT         STE         MANNA         ASSEMULT         ASSEMULT </td <td>202-2</td> <td>21-0003</td> <td>ōn</td> <td>MDY-6</td> <td>2112-2620</td> <td>23-0001</td> <td>8</td> <td>6SGU-100</td> <td>202-2620</td> <td>23-0001</td> <td>8</td> <td>-24</td> <td>C6C2-202</td> <td>5000-61</td> <td>4</td> <td>,</td>	202-2	21-0003	ōn	MDY-6	2112-2620	23-0001	8	6SGU-100	202-2620	23-0001	8	-24	C6C2-202	5000-61	4	,
TURE         MANNA         ASSEMULT         CABLE         TURE         MANNA         CABLE         TURE         MANNA         CABLE         TURE         MANNA         CABLE         TURE         MANNA         M									202-2615	21-0007	<b>6</b>	-19	202-2583	16-0004	-	2 SWUA-I
TURE         PARAMA         ASSEMULT         CABLE         TURE         NUMBER         CABLE         TURE         NUMBER         CABLE         TURE         NUMBER         CABLE         TURE         NUMBER         CABLE         TURE         NUMBER         CABLE         TURE         NUMBER         CABLE         TURE         NUMBER         CABLE         TURE         NUMBER         CABLE         TURE         NUMBER         CABLE         TURE         NUMBER         CABLE         TURE         NUMBER         CABLE         TURE         NUMBER         CABLE         TURE         NUMBER         CABLE         TURE         NUMBER         CABLE         TURE         NUMBER         CABLE         TURE         NUMBER         CABLE         TURE         NUMBER         CABLE         TURE         NUMBER	202-2	20-002	U.	-23	202-2630	24-0003	s	-200	202-2512	21-0004	<b>5</b>	-14				
TURE         PARAMAG         ASSEMBLY         CABLE         TURE         NUME         CABLE         TURE         NUME	202-2	19-0004	4	-9	2012-2625	23-0006	8	-150	202-2610	21-0002	6	-10	202-2631	24-0004	9	61
TURE         PARAMAG         ASSEMULT         CABLE         TURE         NUME         CABLE         TURE         NUME	202-2	19-0001	\$	\$	202-2623	23-0004		-125	202-2602	20-0004	J.	-7	202-262 2	23-0003	80	-37
TUBE         PARAMAG         ASSEMPT         CABLE         TUBE         MARTING         MARTING         M	202-2	18-0018	•	FMMA-3	202-2620	23-0001	•	6SGA-100	202-2596	19-0006	4	3SMD-3	202 2621	23-0002	38	-30
TUBE         PARAMAG         ASSEMBLT         CABLE         TUBE         MARTING         MARTING         MARTING         MARTING         MARTING         MARTING         MARTING         MARTING         MARTING         MARTING         MARTING         MARTING         MARTING         MARTING         MARTING         MARTING         MARTING         MARTING <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>202-2617</td> <td>22-0002</td> <td>7</td> <td>-24</td>													202-2617	22-0002	7	-24
TUBE         PALAMAG         ASSEMBLT         CABLE         TUBE         MARMAG         CABLE         SIZE         MARMAG         SIZE         MARMAG         MARMAG         SIZE         MARMAG         MARMAG         SIZE         MARMAG         MARMAG         SIZE         MARMAG         MARMAG         SIZE         MARMAG         MARMAG         SIZE         MARMAG         MARMAG         SIZE         MARMAG         MARMAG         SIZE         MARMAG         MARMAG         SIZE         MARMAG         MARMAG         SIZE         MARMAG         MARMAG         SIZE         MARMAG         MARMAG         SIZE         MARMAG         MARMAG         SIZE         MARMAG         MARMAG         SIZE         MARMAG         MARMAG         SIZE         MARMAG         MARMAG         SIZE         MARMAG         MARMAG         SIZE         MARMAG         MARMAG         SIZE         MARMAG         SIZE         MARMAG         SIZE         MARMAG         SIZE         MARMAG         SIZE         MARMAG         SIZE         MARMAG         SIZE         MARMAG         SIZE         MARMAG         SIZE         MARMAG         SIZE         MARMAG         SIZE         MARMAG         SIZE         MARMAG         SIZE         MARMAG         SIZE         MA	202-2	21-0002	œ۶	-100	202 2592	2000 61	4	5SS	202-2593	19-0003	4	ę.	202-2613	21-0005	5	- 19
TUBE         PALAMAG         ASSEMBLT         CABLE         TUBE         MARMAG         MARMAG         MARMAG         MARMAG         MARMAG         MARMAG         MARMAG         MARMAG         MARMAG         MARMAG         MARMAG         MARMAG         MARMAG         MARMAG         MARMAG         MARMAG         MARMAG         MARMAG         MARMAG	202-2	20-0009		- 75					202-2568	17-0003	2	-12	202 2609	21-0001	<b>б</b>	-12
TUBE         PALAMAG         ASSEMBLT         CABLE         TUB         TUB         TUBE	202-2	20-0004	ەن	8	202-2634	24-0007	9	-100	202-2586	17-0001	~	-14	202-2502	20-0004	<del>ر</del>	1
TUBE         PALAMO ASSUMULT         CABLE         TUBE         SIZE         MANY MO         CABLE         SIZE         MANY MO         CABLE         SIZE         MANY MO         CABLE         SIZE         MANY MO         CABLE         SIZE         MANY MO         CABLE         SIZE         MANY MO         CABLE         SIZE         MANY MO         CABLE         SIZE         MANY MO         CABLE         SIZE         MANY MO         CABLE         SIZE         MANY MO         CABLE         SIZE         MANY MO         CABLE         SIZE         MANY MO         CABLE         SIZE         MANY MO         CABLE         SIZE         MANY MO         CABLE         SIZE         MANY MO         MANY MO         CABLE         SIZE         MANY MO         CABLE         SIZE         MANY MO         MANY M	202-2	79-0005	\$	-23	202-26.8	24-000	s	-350	202-2584	16-0005	-	-16	202 2595	19-0005	1	ٺ
TUBE         PACAMA ASSEMBLY         CABLE         SIZE         Manual Mathematical Material         Cable         SIZE         Manual Mathematical Material         Cable         SIZE         Manual Mathematical         Cable         SIZE         Manual Mathematical         Cable         SIZE         Manual Mathematical         Cable         SIZE         Manual Mathematical         Cable         SIZE         Manual Mathematical         Cable         SIZE         Manual Mathematical         Cable         SIZE         Manual Mathematical         Cable         SIZE         Manual Mathematical         Cable         SIZE         Manual Mathematical         Cable         SIZE         Manual Mathematical         Cable         SIZE         Manual Mathematical         Cable         SIZE         Manual Mathematical         Cable         SIZE         Manual Mathematical         Manual Mathematical         Cable         SIZE         Manual Mathematical         Cable         SIZE         Manual Mathematical         SIZE         Manual Mathematical         SIZE         Manual Mathematical         SIZE         Manual Mathematical         SIZE         Manual Mathematical         SIZE         Manual Mathematical         SIZE         Manual Mathematical         SIZE         Manual Mathematical         SIZE         Manual Mathematical         SIZE         Manual Mathematical	202-2	19-0004	4	÷.					202 202	0.000	-		COC 2 - 2112			79 <b>0</b> 01
TUBE         PACAMAG         ASSEMBLT         CABLE         TUBE         MANAMO         ASSEMBLT         CABLE         SIZE         MANAMO         ASSEMBLT         CABLE         SIZE         MANAMO         ASSEMBLT         CABLE         SIZE         MANAMO         ASSEMBLT         CABLE         SIZE         MANAMO         ASSEMBLT         CABLE         SIZE         MANAMO         ASSEMBLT         CABLE         SIZE         MANAMO         ASSEMBLT         CABLE         SIZE         MANAMO         ASSEMBLT         CABLE         SIZE         MANAMO         ASSEMBLT         CABLE         SIZE         MANAMO         ASSEMBLT         CABLE         SIZE         MANAMO         ASSEMBLT         CABLE         SIZE         MANAMO         ASSEMBLT         CABLE         SIZE         MANAMO         ASSEMBLT         CABLE         SIZE         MANAMO         ASSEMBLT         CABLE         SIZE         MANAMO         ASSEMBLT         CABLE         SIZE         MANAMO         ASSEMBLT         CABLE         SIZE         MANAMO         ASSEMBLT         CABLE         SIZE         MANAMO         ASSEMBLT         CABLE         SIZE         MANAMO         ASSEMBLT         CABLE         SIZE         MANAMO         ASSEMBLT         MANAMO         ASSEMBLT	202-2	2000-61	4	ę -	202-2629	24-0002		-250	2002 2543	15.0004	-		2012-25813	16 0004	-	25WI1-1
TUBE         PACAMO         ASSEMBLT         CABLE         SIZE         Manage	202-2	17-0004	N	- 4	202-2624	23-0005	8	- 150	202-2563	16-0004	-	Ś				
SIZE     Musestary     Kew 3330 000     CABLE     SIZE     Musestary     CABLE     SIZE     Musestary     CABLE     SIZE     Musestary       SIZE     Musestary     Kew 3330 000     CABLE     SIZE     Musestary     CABLE     SIZE     Musestary     CABLE     SIZE     Musestary	202-2	17-0003	N	DAVAN -3	202-2621	23-0003		SKVTSGU-100	202-2580	16-0001	-	3SJ-22	202-2502	20-0004	ۍ 	SWLA-7
TUBE PACHNG ASSEMBLY CABLE TUBE FOR A ANY TO THE PACHNG ASSEMBLY CABLE SUPE PACHNG ASSEMBLY CABLE SUPE PACHNG ASSEMBLY CABLE SUPER ANY TO THE PACHNG ASSEMBLY ASSEMBL	313	11229614			15N 53 50 - 00	+			NSN 5330-00	MI96271/			NEW 5330-00-	/1229618	3716	
		La nation			NOSE MISLY	4.2		CABLE	VSX WBLY	PACKING	TUR.	CABLE	ISSEMBLY	PACKING		

NOTES 1. THE FRAME SUPERSEDES SHEET 3C7 ON DRAWING 803-5001027 AND SECTION 4. SHEET 69-73. OF DRAWING NAVSEC NO. 0 9000-56202-73980 2. LISTING CONTINUED ON FIGURE 3C21

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24 JUNE 1987 24 JUNE 1987 -

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No.         No. <th></th> <th></th> <th></th> <th></th> <th>202-2613</th> <th>21-0005</th> <th>σ</th> <th>2 AU- 40</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>[</th>					202-2613	21-0005	σ	2 AU- 40									[
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Nome         No         Nome         No         <	<b>202-2599</b>	8000-61	\$	-7	202-2618	22-0003	~ 0	-70	202 - 2615	21-0007	σ	- 50	202-2620	23-000t	<b>69</b>	-200	
	202-2594	19-000-01	4	*	202-2603	20-0005	n u	-20	202 - 2610	21-0002	6	-40	202-2617	22:0002	7	- 150	
	202-2594	19-0004	4	2SWF-3	202-2602	20-0004	U)	ISSOMUS-I6	202 - 2604	20-0006	U)	- 30	202-2612	21-0004	6	-100	
									202-2600	20-0002	U.	·20	202-2608	20-0010	<b>U</b>	- 75	
	202-2622	23-0003	•	-61	202-2616	22-0001	7	- 70	202-2597	19-0007	4	ż	202-2603	20.0005	s	Ś	
	202-2617	22-0002	7	ż	202-2609	21-0001	0	-	202-2594	19-0004	41	ę	202-2600	20-0002		23	
	202-26 14	21-0006	6	-37	202-2602	20-0004	v	Ś	1652 · 202	19-0001	+	<u>ئ</u>	202-2597	19-0007	4	-14	
	202-2612	21-0004	5	ŝ	202 - 2600	20-0002	Un	1550MU-16	202-2589	17-0004	~	ŗ,	202-2593	19-0003	4	ý	
	202-2611	21-0003	6	-24					202-2586	17-0001	~	TTSA-I-V2	202-2589	17-0004	N	ۀ	
	202-2605	20-0007	5	-19	202-2594	19-0004	4	ISWF-2	202-2609	21-0001	6		202-2588	17-0003	~	TSGU-3	
	202-2603	20-0005	5	÷					202 - 2607	6000-02	ų	-12					
Index         Name         <	202-2600	20-0002	5	ō	202-2611	21-0003	5	÷.	202-2607	6000 - OZ	u,	à	202-2630	24-0003	و	-400	
VILUE         VILUE <t< td=""><td>202-2595</td><td>19-0005</td><td>\$</td><td>-7</td><td>202-2605</td><td>20-0007</td><td>u,</td><td>Š</td><td>202-2604</td><td>20-0006</td><td><b>U</b>P</td><td>Ġ</td><td>202-2625</td><td>23-0006</td><td></td><td>-300</td><td></td></t<>	202-2595	19-0005	\$	-7	202-2605	20-0007	u,	Š	202-2604	20-0006	<b>U</b> P	Ġ	202-2625	23-0006		-300	
VILUE         VILUE <t< td=""><td>202-2591</td><td>19-000</td><td>4</td><td>2SWAU-3</td><td>202-2601</td><td>20-0003</td><td>5</td><td>-14</td><td>202-2602</td><td>20-0004</td><td>U.</td><td>\$</td><td>202-2620</td><td>23-0001</td><td>•</td><td>200</td><td></td></t<>	202-2591	19-000	4	2SWAU-3	202-2601	20-0003	5	-14	202-2602	20-0004	U.	\$	202-2620	23-0001	•	200	
VILCE         MACIMA ASSEMULT         CARLE         TIME         MACIMA ASSEMULT         CARLE         VILCE         MACIMA ASSEMULT         VILCE         MACIMA ASSEMULT         VILCE         MACIMA ASSEMULT         VILCE         MACIMA ASSEMULT         VILCE         MACIMA ASSEMULT         VILCE         MACIMA ASSEMULT         VILCE         MACIMA ASSEMULT         VILCE         MACIMA ASSEMULT         VILCE         MACIMA ASSEMULT         VILCE         MACIMA ASSEMULT         VILCE         MACIMA ASSEMULT         VILCE         MACIMA ASSEMULT         VILCE         MACIMA ASSEMULT         VILCE         MACIMA ASSEMULT         VILCE         MACIMA ASSEMULT         VILCE         MACIMA ASSEMULT         VILCE         MACIMA ASSEMULT         VILCE         MACIMA ASSEMULT         VILCE         MACIMA ASSEMULT           4         1         19.0007         202.2399         11         41         19.0007         202.2391		_			202-2589	17-0004	N	ISWU-2	202-2597	19-0007	4		202-2617	22-0002	7	-150	
Index         Markania         <	202-2593	19-0003	4	-7					202-2596	<b>9</b> 000-61	41	TTRSA-2	202-2612	21-0004	<b>б</b>	-18	
VIDE         MAXIMA         ASSEMULY         VIDE         MAXIMA         MAXIMA         VIDE         VIDE <t< td=""><td>202-2591</td><td>19-000</td><td>4</td><td>-<b>o</b></td><td>202-2612</td><td>21-0004</td><td><b>o</b></td><td>\$</td><td>202-2609</td><td>21-0001</td><td>8</td><td>-16</td><td>202-2608</td><td>21-0010</td><td>u</td><td>- 75</td><td></td></t<>	202-2591	19-000	4	- <b>o</b>	202-2612	21-0004	<b>o</b>	\$	202-2609	21-0001	8	-16	202-2608	21-0010	u	- 75	
Tride         Marcina         Assembly         Cable ( $\mathbf{x}$ Tride         Marcina ( $\mathbf{x}$ )	202-2569	17-0004	N	÷	202-2603	20-0005	U,	1SU-36	202-2607	20-0009	5	-12	202-260 3	20-0005	5	8	
VILCE         MAXIMA         CARLE         VILE         MAXIMA         SEE MAXIV         VILE         MAXIMA         SEE MAXIV         VILE         MAXIMA         SEE MAXIV         VILE         MAXIMA         SEE MAXIV         VILE         MAXIMA         SEE MAXIV         VILE         MAXIMA         SEE MAXIV         MAXIMA         SEE MAXIV         MAXIMA         SEE MAXIV         MAXIMA         <	202-2567	17-0002	~	-12			-		202-2607	20-009	ۍ ا	-10	202-2600	2000 05	5	-23	
TLORE         MAXIMA         ASSEMBLY         CARLE         TURE         MAXIMA         ASSEMBLY         CARLE         TURE         MAXIMA         ASSEMBLY         CARLE         TURE         MAXIMA         ASSEMBLY         CARLE         TURE         MAXIMA         ASSEMBLY         CARLE         TURE         MAXIMA         ASSEMBLY         CARLE         TURE         MAXIMA         ASSEMBLY         CARLE         TURE         MAXIMA         ASSEMBLY         CARLE         TURE         MAXIMA         ASSEMBLY         CARLE         TURE         MAXIMA         ASSEMBLY         CARLE         TURE         MAXIMA	202-2585	16-0006	-	-	202-2618	22-0003	7	1SMWU-70	202-2604	20-0006	5	<b>.</b>	202-2597	19 0007	1	- 14	
True         PALLMAG         ASSEMBLY         CABLE         True         PALLMAG         ASSEMBLY         CABLE         True         PALLMAG         ASSEMBLY         CABLE         True         PALLMAG         ASSEMBLY         CABLE         True         PALLMAG         ASSEMBLY         PALLMAG         A           41         19.0007         202.2596         13         41         19.0007         202.2597         5         41         19.0007         202.2597         5         20.0002         202.2597         5         20.0002         202.2597         5         20.0007         202.2597         1         5         20.0007         202.2597<	202-2583	16-0004		-16	202 - 2618	22-0003	7	ISMWA-70	202-2601	20-0003	S	\$	202-2593	19-0003	4	g	
VLNE         PALCINGA         CABLE         VLNE         FUNCIONA SSENIULY         CABLE         VLNE         VL	202-2583	16-0004	-	-10	202-2591	19-0001	4	ISMU-5	202-2597	19-0007	4	<u>+</u>	202-2589	17-0004	N	<u>نم</u>	
VLME         PALCING         ASSEMBLY         VLME	202-2580	16-000		Ś	1652-202	1000-61	\$	ISMA-5	202-2595	19-0005	4	TTRS-2	202-2588	17-0003	N	TSGA-3	
VLME         PALCING         ASSEMBLY         CABLE         VLME         FUNCIONAL SSEMBLY         CABLE         VLME         FUNCIONAL SSEMBLY         CABLE         VLME         FUNCIONAL SSEMBLY         VLME         FUNCIONAL SSEMBLY         VLME         FUNCIONAL SSEMBLY         VLME         FUNCIONAL SSEMBLY         VLME         FUNCIONAL SSEMBLY         VLME         FUNCIONAL SSEMBLY         VLME         FUNCIONAL SSEMBLY         VLME         FUNCIONAL SSEMBLY         VLME         FUNCIONAL SSEMBLY         VLME         FUNCIONAL SSEMBLY         VLME         FUNCIONAL SSEMBLY         VLME         FUNCIONAL SSEMBLY         VLME         FUNCIONAL SSEMBLY         VLME         FUNCIONAL SSEMBLY	202-2580	16-000	-	2SJ-22	202-2604	20-0006	5	ISAU-44									
TURE         PALINAG         ASSEMBLY         CABLE         TURE         PALINAG         CABLE         TURE         PALINAG         ASSEMBLY         TURE         PALINAG <td></td> <td>-</td> <td></td> <td></td> <td>202-2604</td> <td>21-0006</td> <td>UI</td> <td>ISA- 44</td> <td>202-2600</td> <td>20-0002</td> <td>5</td> <td>·is</td> <td>202-2597</td> <td>19-0007</td> <td>4</td> <td>-133</td> <td></td>		-			202-2604	21-0006	UI	ISA- 44	202-2600	20-0002	5	·is	202-2597	19-0007	4	-133	
TURE         PALCING         ASSEMBLY         CABLE         TURE         PALCING         CABLE         TURE         PALCING         ASSEMBLY         TURE         PALCING <td>202-2618</td> <td>22-0003</td> <td>7</td> <td>-61</td> <td>2U2-2616</td> <td>22-0001</td> <td>7</td> <td>\$</td> <td>202-2596</td> <td>19-0006</td> <td>4</td> <td>-10</td> <td>202-2595</td> <td>19-0005</td> <td>4</td> <td>-105</td> <td></td>	202-2618	22-0003	7	-61	2U2-2616	22-0001	7	\$	202-2596	19-0006	4	-10	202-2595	19-0005	4	-105	
TURE         PALINGA         ASSEMBLY         CABLE         TURE         PALINGA         ASSEMBLY         CABLE         TURE         PALINGA         ASSEMBLY         TURE </td <td>202-2617</td> <td>22-0002</td> <td>7</td> <td>ż</td> <td>202-2615</td> <td>21-0007</td> <td>0</td> <td>-50</td> <td>202-2593</td> <td>19-0003</td> <td>4</td> <td>÷</td> <td>202-2593</td> <td>19-0003</td> <td>4</td> <td>TRXF 84</td> <td></td>	202-2617	22-0002	7	ż	202-2615	21-0007	0	-50	202-2593	19-0003	4	÷	202-2593	19-0003	4	TRXF 84	
TURE         PALINGA         ASSEMBLY         CABLE         TURE         PALINGA         ASSEMBLY         TURE         TURE         PALINGA         ASSEMBLY         TURE         TURE         TURE         TURE         TURE         PALINGA           4         1         19.0007         202.2897         11         11         19.0001	202-2612	21-0004	<b>6</b>	-37	202-2610	21-0002	•	÷	202-2590	18-0018	ω	TTOP-3	202-2595	19-0005	\$	TRWA	
TUBE         PALINGA         ASSEMBLY         CABLE         TUBE	202-2612	21-0004	on	Ś	202-2604	20-0006	Un	8					202-2595	19-0005	4	TAW	
TUBE         PALINGA         ASSEMBLY         CABLE         TUBE         PALINGA         STE         Marrino         STE         Marrino         STE         Marrino         STE         Marrino         STE         Marrino         STE         Marrino         STE         Marrino         STE         Marrino         STE         Marrino	202-2609	<sup>21-000</sup>	6	-24	202-2600	20-0002	5	Ś	202 2591	19-0001	4	*					
TUBE         PALINGA         SSEMBLY         CABLE         TUBE         PALINGA         SSEMBLY         SSEMBLY	202-2605	20-0007	u	-19	202 - 2597	19-0007		-15	202-2591	19-0001	\$	ٺ	202-260	20-0003	5	- 168	
TUBE         PALINGA         ASSEMBLY         CABLE         TUBE         PALINGA         ASSEMBLY         CABLE         TUBE         PALING         ASSEMBLY         TUBE         PALING         ASSEMBY         ASSEMBY         ASSEMBY	202-2602	20-0004	5	÷	202-2594	19-0004		-10	202-2588	17-0003	~ `	TSS-2	01-032-3021	20-0002	5	-133	
TUBE         PALINGA         ASSEMBLY         CABLE         TUBE         PALING ASSEMBLY         CABLE         TUBE         PALING ASSEMBLY         TUBE         PALING ASSEM	202-2600	20-0002	ۍ	-10	202-2591	19-0001	4		202-2597	19-0007	<u>ب</u>	TSPA-II	202-2598	19-0007	4	TRF-105	
TUBE         PALING         ASSEMBLY         CABLE         TUBE         MARTING         CABLE         TUBE         PALING         ASSEMBLY         CABLE         SIZE         MARTING         SIZE         MARTING         SIZE         MARTING         SIZE         MARTING         SIZE         MARTING         SIZE         MARTING         SIZE         MARTING         CABLE         SIZE         MARTING         CABLE         SIZE         MARTING         CABLE         SIZE         MARTING         CABLE         SIZE         MARTING         CABLE         SIZE         MARTING         CABLE         SIZE         MARTING         CABLE         SIZE         MARTING         CABLE         SIZE         MARTING         CABLE         SIZE         MARTING         CABLE         SIZE         MARTING         CABLE         SIZE         MARTING         CABLE         SIZE         MARTING         CABLE         SIZE         MARTING <th< td=""><td>202-2595</td><td>19-0005</td><td>4</td><td>7-7</td><td>202-2509</td><td>17-0004</td><td>N</td><td></td><td>202-2606</td><td>20-0008</td><td>J</td><td>ċ</td><td>202-2602</td><td>20-0004</td><td></td><td>TPUM-6</td><td></td></th<>	202-2595	19-0005	4	7-7	202-2509	17-0004	N		202-2606	20-0008	J	ċ	202-2602	20-0004		TPUM-6	
SZE     Manufactor     CABLE     SUE     Manufactor     CABLE     Manufactor     CABLE     Manufactor     CABLE     Manufactor     CABLE     Manufactor     Manufactor     Manufactor     Manufactor     Manufactor     Manufactor     Manufactor     Manufactor     Manufactor     Manufactor     Manufactor     Manufactor		19-0001	\$	2SU-3		17 0001	N	TTSU-1-1/2	202-2597	19-0007	4	TSP-11	202-2604	20-0006	5	1PU-6	
TUBE PACKING ASSEMBLY CABLE TUBE PACKING ASSEMBLY CABLE TUBE PACKING ASSEMBLY CAN F TUBE	_	National Action	SIZE		←	+	37K		NSN 5330-00	/12296/8	21/1		NSN 5330 00-	/12296IN	376		
	IG ASSEMBLY	PACKIN	TUBE	CAN	ASSEMBLY		T'UR	CABLE	ASSEMBLY	PACKING	Ţ	CABLE	SSEMOLY	PACKING	, Top	CABLE	

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FIGURE 3C6. Nylon stuffing tube cable assignment.

NOTES: 1. THS FILME SUPERSEDES SHEET 3C6 OF DRAWING 803-5001027 AND SECTION 4 SHEET 88-73 OF DRAWING NAVSEC NO 9000-58202-73980

	nment.		ble assig	tube ca	3C5. Nylon stuffing tube cable assig	lon		FIGURE					SH 132317172	1 132	ş
													, <u> </u>		
									_			202-2604	20 W0 <b>6</b>	J	- 30
202-2602	20-0004	5	-30									202-2597	19-0:07	4 1	. 5
12-05 25:0 10	20-0001	Ś	- 23	202-2602	20 0004	J.	-12					202-2992	2000-61	41	POTM 5
202-7596	·9-0006	1	-14	202-2595	19-0005	4	<i>r.</i>						-		
202-2593	19-0003	4	-9	202-2591	18-0018	u	ċ					202-2605	20-0007	5	-37
202-2592	2000-61	4		202-2586	¥6-0006	-	TCTX-1					202-2603	20.0005	5	ė
202-2590	8100-61	w.	*					202-2631	24-0004	9	-2000	202-2600	20-0002	5	-24
202 2589	17-0004	2	TPS-3	202-2589	17-0004	~	TCTU-4	202-2628	24-0001	9	-1600	202-2597	19-0007	4	- 19
								202-2620	23-0001		-1000	202-2595	19-0005	4	-14
202-2598	20 0007	11	÷	202-2589	17-0004	2	TCTA-	202-2616	22-0001	7	-90	202-2594	19-0004	4	- 10
202-2595	19-0005	4	÷					202-2614	21-0006	a	-650	202-2590	18-0018	u	MWF-7
202-2592	19-0002	41	Ś	202-2586	17-0001	2	TCOP-2	202-2608	20-0010	UN	\$	202-2569	17-0004	2	MUS 14
202-2591	19-0001	4	-15					202-2604	20-0006	UN.	-300	202-2588	17-0003	2	MU-14
202-2590	18-0018	u	- 10	202-2611	21-0003	•	-12	202-2601	20-0003	J.	-200	202 - 2568	17-0003	2	KA IA
202-2586	17-0001	2	خ	202-2603	20-0005	U,	·	202-2595	19-0005	4	-100	202-2618	23-0003	7	MSPW
202-2585	16-0006	-	ٺ	202-2595	19-0005	4	 ن	202-2594	19-0004	4	-75		_		
202-2583	16-0004	-	1PNW-1-1/2	202-2588	17-0003	N	TCKX-1	202-2591	19-000	\$	SSGA-50	202-2618	22-0003	7	MSP
202-2616	22-0001	7	-150	202-2611	21-0003		-12	202-2607	20-0009	5	SSF-300	202-2616	22-0001	7	-91
202-2612	21-0004	on	- 100	202-2603	20-0005	ۍ.	<i>t</i> -	202-2586	17-0003	2	SRWA	202-2611	21-0003		ē
202-2608	20-0010		-75	202-2595	C000-61	4	TCJX-3	202-2588	17-0003	2	SRW	202-2607	20-0009	J.	-
202-2603	20-0005	۰,	Ś							·		202-2604	20-0006	UN.	-37
202-2598	19-0007	4	-23	202-2589	17-0004	N	TCJU-4	202-2620	23-0001		- <b>80</b>	202-2602	20-0004	5	5
202-2595	19-0005	4	-14					202-2618	22-0000	7	ŝ	202-2601	20-0003	Ś	-24
202-2594	19-0004	4	ė	202-2589	17-0004	2	TCJA-4	202-2616	22-0001	7	-500	202-2597	19-0007	4	- 19
202-2589	17-0004	2	*					202-2607	20-0009	s	-250	202-2595	19-0005	41	-14
202-2588	17-0003	N	TNW-3	202-2591	19-0001	1	S2S	202-2604	20-0006	UN.	-200	202-2594	19-0004	4	-10
		I	-600					202-2601	20-0003	UN	-150	202-2590	18-0018	د	MSCU-7
		1	<b>50</b> 0	202-2631	24-0004	ø	-2000	202-2594	20-0004	1	\$				
202-2635	24-0008	*	-400	202-2628	24-0001	•	-1600	202-2590	18-0018	сı	<del>د</del> ر-	202-2616	22-0001	7	.e
202-2630	24-0003	Q	-250	202-2620	23-0001	•	-1000	202-2580	16-0001	-	SHOF-3	202-2611	21-0003	0	6
202-2623	23-0004	8	-150	202-2616	22-0001	7	-900					202-2607	20-0009	Ś	-
202-2611	21-0003	5	-42	202-2614	21-0006	•	-650	202-2607	20-0009	U	ż	202-2604	20-0006	J.	-37
202-2602	20-0004	5	Ċ	202-2608	20-0010	J.	-400	202-2600	20-0002	σ	<i>י</i> -	202-2602	20-0004	Ś	ġ
202 2597	7000-61	4	-14	202-2604	20-0006	Un	.300	202-2594	19-0004	1	₽:3	202 2601	20-0003	5	-24
202-2594	19-0004	47	ė	202-2601	20-0003	J.	-200					202-2597	19-0007	4	- 19
202-2592	-9-0002	41	•	202-2595	19-0005	4	- 100	202-2604	20-0006	Un	۰ <b>۲</b>	202-2595	19-0005	\$	-
202-2590	18-0018	ω	*	202 2594	19-0004	÷	-15	202 2597	20-0007	4		202-2594	19-0004	4	-10
202-2589	17-0004	2	THOF-3	202-259	19-0001	\$	SSGU-50	202-2592	19-0002	4	PBTMU-5	202-2590	18-0018	3	MSCA-7
NSN 5330-00-	- 229647	SILE		N2N 3330-00-	NI MALINO	SIZE		NUM 5370-00-	VID622/	SIZE	-	NSN 5330-00-	A 22961R	SIZE	LABLE
ISSE MOLY		TUDE	CABLE	PACKING ASSEMBLY	PACKING	TUR	CABLE	SSEMBLY	PACKING ASSEMBLY	TURK	CABLE	SSEMBLY	PACKING ASSEMBLY	TUR	
						1				1					

NOTES 1. THIS FRUIPE SUPERSEDES SHEET 3C5 OF DRAWING 803-5001027 AND SECTION 4 SHEET 68-73 OF DRAWING NAVSEC NO 9000-56202-73980

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							202-2625	23-0006	э	-133				
			202-2594	<b>B-0004</b>	47		202-261	22-0002	7	Ś				
			202-2590	<b>B-0018</b>	u -	\$	202-2614	21-000€	ø	-42				
			202-2588	17-0003	2	5	202-2595	19-0005	41	 و	202-2595	6000-61	41	DRWA
20-000 01-032-3021	u	MSA-37	202-2591	19-0001	41	4	202-2592	19-0002	4	4			-	
			202-2589	17-0004	2	MCOS-2	202 - 2590	<b>18-0018</b>	(Ju	FHOF-3	202 2595	19-0005	4	DRW
20-0001 01-032-3021	<u>ہ</u>	MS-37												
<u> </u>			1	1	1	1	202-2614	21-0006	ø	ECMA	202 2597	19-0007	47	-
	-	-1-2-1/2	1	I	J	JNS-250					202-2592	19-0902	4	ę.
	-	-0-2-1/2					202-2614	21-0006	0	ECM	202-2591	19-0001	4	ę.
16-0001 202-2580		MRI-D-1	202-2594	19-0004	47	*					202-2589	17-0004	~	*
			202-2591	19-0001	4	<u>ن</u>	01-032-3021	20-0001	5	DSWS-4	202-2588	17-0003	2	DPS-3
	5	ŧ	202-2591	19-0001	4	FSS-2								
Q	<b>.</b>	-37					202-2591	19-0001	\$		202-2610	21-0002	6	-100
	1	ŝ	202-2623	23-0004	00	-200	202-2591	19-0001	4	 د	202-2607	20-0009	v	- 75
19-0005 202-2595	47	-24	202-2620	23-0001	•	-150	202-2588	17-0003	N	DSS-2	202-2602	20-0004	5	Ś
19-0003 202-2593	4	-19	202-2614	21-0005	5	-190					202-2595	19-0005	1	-23
19-0001 202-2591	4	-14	202-2612	21-0004	6	.75	202-2628	24-0001	•	-400	202-2594	19-0004	47	-14
18-0018 202-2590	u	-10	202-2806	20-0008	J.	Ś	202-2623	23-0004		-300	202-2592	19-0002	1	ġ
17-0003 202-2588	~	MNW-7	202-2602	20-0004	5	ż	202-2618	22-0003	7	200	202 2589	17-0004	2	*
			202-2594	19-0004	4	ę	202-2609	21-0001	•	-100	202-2588	17-0003	2	DNM-3
H6-0006 202-2585	-	MMOP-5	202-2591	19-0001	4	*	202-2607	20-0009	5	-75				
			202-2589	17-0004	2	FSGU-3	202-2602	20-0004	J.	Ś	202-2596	19-0006	\$	DLT-4
21-0001 202-2609	¢	÷					202-2600	20-0002	5	-23	•.			•
-	J	ŧ	202-2623	23-0004	69	-200	202-2595	19-0005	41	÷	202-2633	24-0006	9	-400
	Un .	-37	202-2620	23-0001	8	-150	202-2592	19-0002	4	ġ.	202-2629	24-0002	و	-250
	v	ģ	202-2614	21-0006	0	8	202-2589	17-0004	N	*	202-2615	21-0007	•	ż
20-0001 01-032-3021	U.	-24	202-2612	21-0004	•	-75	202-2588	17-0003	~	DSGU-3	202-2603	20-0005	Ja Ja	ż
	4	- 19	202-2606	20-0008	Ś	ġ					788-8711	20-0003	J.	-23
	4	-14	202-2002	20-0004	5	·23	202-2628	24-0001	ç	-400	202-2597	19-0007	4	-14
19-0003 202-2593	4	-10	202-2594	19-0004	4	÷	202-2623	23-0004		-300	202-2593	19-0003	\$	ę
19-0001 202-2591	4	MHOF-7	202-2591	19-0001	4	*	202-2618	22-0003	7	.200	202-2591	19-0001	4	ά
			202-2589	17-0004	~	FSGA-3	202-2609	21-0001	0	-100	202-2590	18-0018	u	٨
24-0005 202-2632	•	ģ					202-2607	20-0009	s	-15	202-2589	17-0004	~	DHOF-3
	•	ŝ	202-2600	20-002	s	FPS-14	202-2602	20-0004	S	Ś				
	•	-23				_	202-2600	20-0002	ۍ.	-23	202-2586	17-0001	~	ż
21-0007 202-2615	•	ż	202-2600	20-0002	U.	ċ	202-2596	19-0006	4	-	202-2585	16-0006	-	-1-1/2
20-0006 202-2604	5	MDU-6	202-2594	19-004	4	é	202-2592	19-0002	4	÷	202-2583	16-0004		DCOP
			207-2591	19-0001	\$	7	202-2589	17-0004	N					
22-0002 202-2617	7	MCSF-4	202-2590	18-0018	ω	FNW-3	702-2588	17-0003	~	DSGA-3	202-2588	21-0007	6	CVSF-4
MA MAT NO NSN 5330-00	37.6		NSN 5330-00-	/ 229618	376	T	NSN 5330-00	H-9522 /	1		NEW 5330-00	N13622 /	2	
	Ţ	CABLE												

FIGURE 3C4. Nylon stuffing tube cable assignment.

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NOTES: 1 CABLE DAMETER MAY BE INCREASED WITH HEAT SHRINK TUBING FOR PROPER GROMAMET FIT 2 THIS FIGURE SUPERSEDES SHEET 304 OF DRAWING 803-5001027 AND SECTION 4 SHEET 59-73 OF DRAWING NAVSEC NO 9000-58202-73980

					8											S Z		
					NOTE 1	ġ	1-010	8	ŝ	1-007	ŝ	8	ŝ	1. 92	1 <del>8</del> 1	MILITARY PART NO M198221/		
						-969-5046	-298-4100	MD= ML-	- 780080	-298-4087	-248-4048	-296-4095	-077-0057	-298-4083	- 210-4012	NATIONAL STOCK NO. 5975-00-	STRA	
						341-218	901-242	BC2-186	20.0-10H	002-1MK	341-224	5411-220	301-210	548-214	500-212	NOPC	STRAIGHT TUBE	
						- 1 88- 5385	-184-3737	231-4107	-184-3720	-03-4	-236-0180	-100-0100	-188-6177	-184-5382	-107-3439	KING NSN S330-00-	UθE	
					-	- N	4.010	00% C	2 740	2 310	2 010	99C I	1.136	1 010		CLEARANCE		
•	ω	~	-	SIZE	Ď,	8	ō	8	8	°	°	8	æ	°	<u>ן</u>	m ¥ CE		S
Ŷ	ŝ	Â	ţ	MILITARY PART NO M198221/		2- <b>0</b> 04				2-007	7-028	2 000	2-000	2-022	2 <u>8</u>	MILITARY PART NO M 198221/		<b>UFFIN</b>
-762-4142	-782-4141	-742-6140	-742-4130	NATIONAL STOCK NO. 1 5975-00-		- 188 - 3045				-302-4887	-500-4885	-503-4692	-977-4884	-903- 108-	-10 -10 -10 -10	NATIONAL STOCK NO S975-00-	À	STUFFING TUBE SIZES
5444 1270	<b>X</b> 11	348-214	546-212	NA U	"Y" TUBE	ŧ				¥# 70	* 22	¥# 7 #	308-218	***	<b>3</b> <b>3</b> <b>3</b> <b>3</b> <b>3</b>	NAR O	ANGLE TUBE	E SIZE
- 18-418	-180-0177	-118-5302	-117-3434	RING SJ30-00	Ē	-111-0010				-014 - 0000	-258-0180	-188 5385	186-8177	-147-3434	-107 3836	NING 5300-00-	JBE	S
ž	ž	1 010	ŝ	CLEARANCE		ž				2 510	2 010	ž	1 1 2	1	1	CLEARANCE		
•			<b>_</b>	<b>.</b>	<b>.</b>		ŭ	ž	<b>3</b> -807	š	¥.	ž	ž	ž	Ŗ	MILITARY		
						- 892 - 92595	100 A	103-4038	-808-4087	-101-408		-808 9272	477-4865			STOCK NO	NPT TUBE	
						Γ	312	-	212	-	13	-	-	ř	5	1 N		
							T	T	1	T		1	T	T	T	6	-	1

NOTES: 1 SIZE 4 STRAUNT AND ANGLE TUBE IS FOR REPLACEMENT ONLY IN EXISTING INSTALLATIONS IMMERE SIZE 4T IS NOT INTERCHANGEABLE 2 THS FIGURE SUPERSEDES SHEET 30.0F DRAWING 803-500 (1027 AND SECTION 4 SHEET 68 OF DRAWING NAVSEC NO. 9000-58202-73980

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(BLEE NOTE 1)

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			315.	÷.	۰	•	~	۰	٥	•	ω	2	-	SIZE		
			SEE NOTE 1	į	1-010	1-008	- - -	1-807	1-008	1-005	ŝ	1.002	181	MILITARY PART NO. M198221/		
				- 949 - 5046	218-4100	MD-96		-788-4087	-786-4038	- 285 - 965 -	477-4857	CBD+ 462-	- 2 88-4082	MILITARY NATIONAL PART NO STOCK NO M198221/ 5975-00-	STR	
				Ĩ	381-242	807-186	344-732	905 - <del>10</del>	344-234	544 220	300-210	500-214	544-212	N A C	STRAIGHT TUBE	
				- T# 53	-184-3737	231-4107	-184-3720	0	-288-0180	-198-6185	-188-6177	-184-5382	- 107-3030	KING S330-00-	ru8e	
~	-	SIZE		ž	4.010	3 290	2 780	2 510	2 010	58C I	1 135	1 010	8	CLEARANCE MILITARY NATIONAL HOLE MIDOZZI/ 5975-00-		Ŋ
i	Ī	MILITARY PART NO M 196221/		2 9 1				2-007	2-028	2 005	2-003	2-002	2-001	MILITARY PART NO. M198221/		TUFFIN
-762-6740	-712-4136	NATIONAL STOCK NO 5975-00-		- 989-3043				-500-4897	-500-4885	-503-4692	-177-4864	-00-		NATIONAL STOCK NO S975-00-	À	STUFFING TUBE SIZES
Į	¥		"Y" TUBE	#				<b>34</b> 7:0	346-278	<b>346</b> 7° <b>0</b>	¥	¥.	****	NO	ANGLE TUBE	E SIZE
		RING SJ30-00	ň	-171-0010				-014-000	0810-652	-188 5385	18-8177	-187-3834	-10-304	RINC 5300-00-	JØ.	S
i gi		CLEARANCE		1.280				2 510	2 010	ž	1.1	1	1	CLEARANCE		
	1		•		ų.	ŭ	<b>3</b> 87	š	š	ě	ă	ž	ě	MILITARY		
				- 892-92595	* *		-00-4087	-104-108		-908 9272	477-886	1		MILITARY NATIONAL PART NO BTOCK NO M198221/ 5975-00-	NPT TUBE	
					312	-	212	~	112	.	-	ž	5	1 N		
				4	•	•	7	•	5	•	u u	~	-	SIZE	TUBE	

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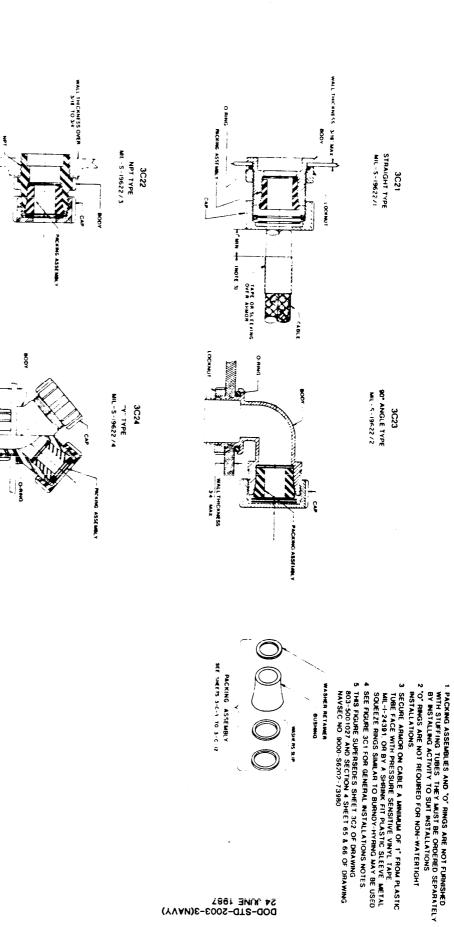
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WALL THICKNESS

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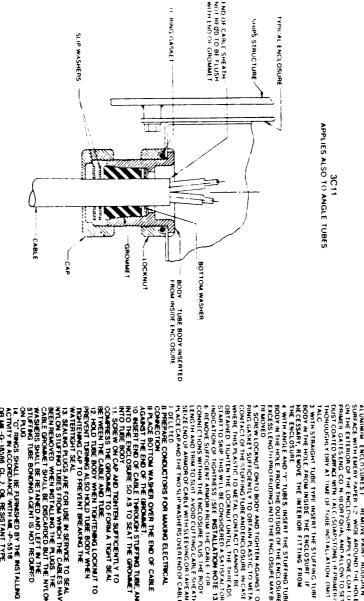


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NOTES

MIL-Q-18586.

-18586 CL.2, OL RESISTANT TYPE NECESSARY TO PASS ARTICHT TEST, APPLY 731731 RTV SLICONE RUBBER TO THE



I PREVACT CONDUCTORS FOR MAKING ELECTRICAL CONVECTION. I PRACE BOTTOM WASHER OVER THE END OF CABLE AGAIST THE END OF CHELE THROUGH STUFFING TUBE, AND INTO THE END OF CABLE THROUGH STUFFING TUBE, AND INTO THE END OF CABLE THROUGH STUFFING TUBE, AND INTO THE END OF CABLE THROUGH STUFFING TUBE, AND INTO THE END OF CABLE AND THE GROWMET INTO THE END OF CABLE AND THE GROWMET INTO THE BOTY AND THETENGAL LOCKINIT TO COMPRESS THE GROWNET TO FORM A TRIATT SEAL BETWEEN THE CABLE AND THE INTO THE CABLE AND THE INTO THE CABLE AND THE INTO THE CABLE AND THE INTO THE BODY WHEN TO FORM A THETE INTO THE CABLE AND THE BODY WHEN INTERTICATION AND THE DOT WHEN TO THE BODY WHEN TO FORMAT THE MACK CAP AND THE TWO SUP WASHERS OVER END OF CARLE I INSPECT THE HOLE IN THE ENCLOSURE FOR CONTORNANCE WITT THE CRARANCE FOUL REQUIRED AS SOMM ON FOLIPES 312 THROUGH 3C12 AND REMOVE ANY RUPES OF REGULATIES ANY RUPES OF REGULATIES TOAN A 12 MICTORING IN THIS INFORMATION TANKA A 12 MICTORING IN THIS INFORMATION TANKA A 12 MICTORING IN THIS INFORMATION TANKA A 12 MICTORING IN THIS INFORMATION TANKA A 12 MICTORING IN THIS INFORMATION TANKA A 12 MICTORING IN THIS INFORMATION TANKA A 12 MICTORING IN THIS INFORMATION TANKA A 12 MICTORING IN THIS INFORMATION THIS INFORMATION THIS INFORMATION TO THE INFORMATION THIS INFORMATION THIS INFORMATION TO THE INFORMATION THIS INFORMATION THIS INFORMATION TO THE INFORMATION TO THE INFORMATION THIS INFORMATION THIS INFORMATION TO THE INFORMATION TO THE INFORMATION TO THE INFORMATION TO THE INFORMATION THIS INFORMATION TO THE INFORMATION 13. SEALING PLUSS ARE FOR USE IN SERVICE TO SEAL INTLON STUFFING TURES FROM WHICH THE CABLES HAVE BEEN REMOVED WHEN INSTALLING THE PLUGS. THE CABLE GROMMET SHALL BE DESCARDED BUT THE INTLON WASHERS SHALL BE RETAINED AND LEFT IN THE STUFFING TUBE BONDING AGENT IS NOT REQUIRED IN PLUS A UNIMINE ENCLOSURES) REMOVE PAINT ROUGHEN SUPFACE WITH ENERY PAPER 1.2 WIDE ADDRY ONE COATOS ON THE EXTENDOF THE ENCLOSURE ADDRY ONE COATOS PRIMER GATES ENG CON NOOR COUNT AND ALLOW TO SET DUST COATED SENG CON NOOR COUNT AND ALLOW TO SET THOROUGHLY DRY AT TIME OF TUBE INSTALL ATION OMIT 3 WITH STRAIGHT TUBE TYPE INSERT THE SLUFFING TUBE BODY IN THE HOLE, FACM INSIDE THE ENCLOSURE IF NECESSARY, REMOVE THE INTERIOR FITTING FROM THE ENCLOSURE SCREW LOCKNUT ONTO BODY AND TIGHTEN AGAINST TO ITH ANGLE AND "Y" TUBES, INSERT THE STUFFING TUBE IN THE HOLE, FROM THE OUTSIDE OF THE ENCLOSURE SS LENGTH PROTAUDING INTO THE ENCLOSURE MAY BE WHERE ROUGHNESS IS GREATER

NOTES

INSTALLATION NOTES

I IN GENERAL THE STUFFING TUBES SIZE IS THE SAME AS THAT ASSIGNED FOR THE CABLES BOTH IMMEN END SEALING IS APPLED OR IS NOT APPLED IN THOSE INSTANCES IMMERE THE ADDITION OF THE RECURED SIMILIFETIC RESULT THAN ADDITION OF THE RECURED SIMILIFETIC RESULT THAN THE THE BUNCHED NOTWOULL LEADS LARGER THAN THE THEOLAT DANGER OF THE ASSIGNED TUBE THE NEXT LARGER TUBE SIZE IS SPECIFIED

IN THOSE CASES WHERE THE BUNCHED CONDUCTOR LEADS CANNOT BE ACCOMADORATED IN A STANDARD GROMMET. USE THE SEALING PLUG ASSIGNED TO THE TUBE FREEZE THE FRUG TO - 40° F AND DRIL A HOLE TO THE DIMENSION GIVEN, THUS MAKING A NEW GROMMET

3. THIS FIGURE SUPERSEDES SHEET 3C1 OF DRAWING 803-500 1027 AND SECTION 4, SHEET 64, OF DRAWING NAVSEC NO. 89000-58202-73980

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SH 132317167

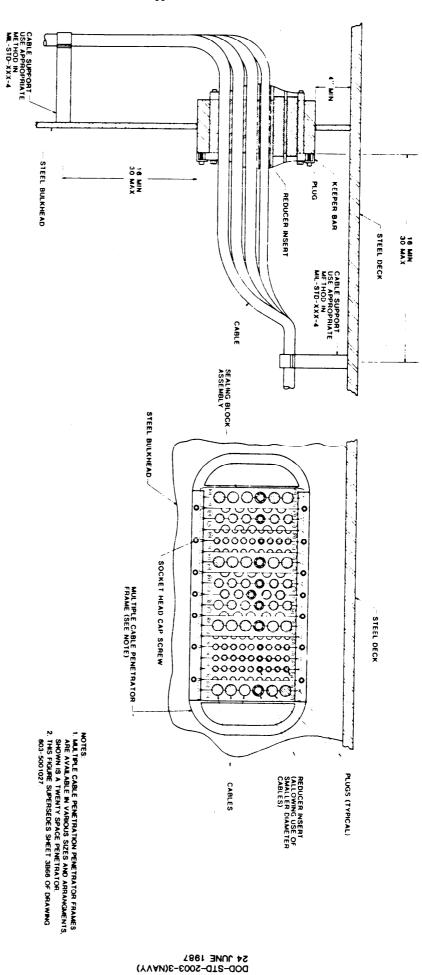
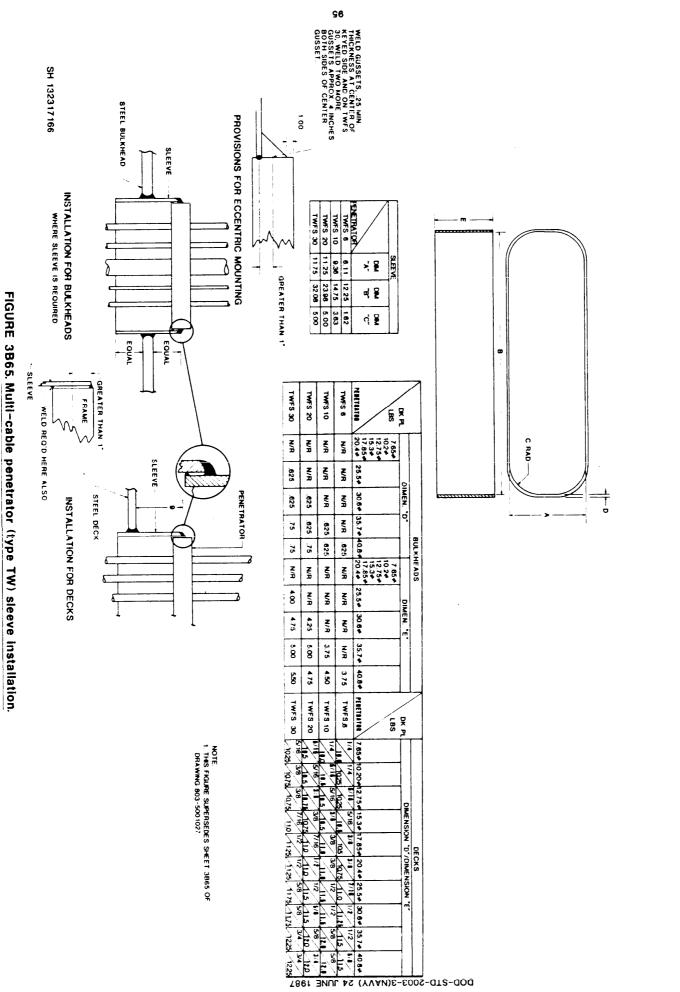
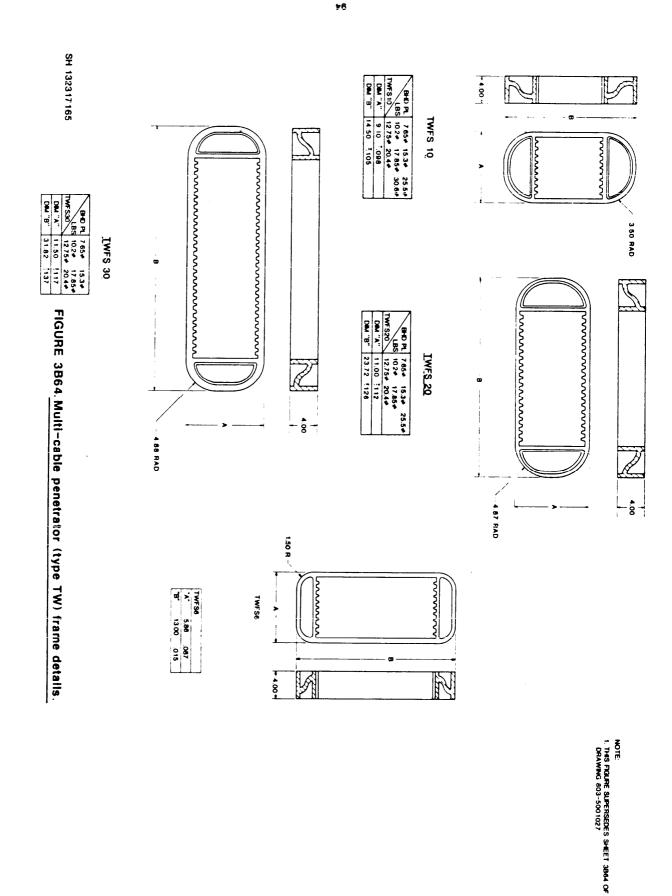


FIGURE 3B66. Multi-cable penetrators (type TW) typical installation in steel bulkhead.

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STEP 2. GROUP CABLES THAT FALL WITHIN THE SAME SEALING ASSEMBLY OD RANGE CABLE OTY OD RANGE 4 2:000-2:250 5 REDUCERS) 2:00-2:250 5 REDUCERS) 7:00-1000 16 500-7:50 16 500-7:50 10 500-7:50	B (2	PLUGE PL		FIANE SPACES FIANE	SALWE W OC	an Dr. Dr.Cumis	147 147 15 1 1
HAT FALL WIT OTY REDUCERS) REDUCERS)		SPECIFY	<b>x</b>	-		11 ADAE	1.1.12.7
HIN THE SAME SI SEALING BLOCK 2 000-2 250 2 1000-2 250 750-1000 500-750 500-750	AND RAMK FROM LARGEST C.ABLE O.D 2.180 2.140 1.875 .945 .890 .700 .550 .490	REDUCERS OPENINGS E SEE TABLE NUMBERS N NUMBERS BAUMBERS SIZES RAN FROM 490		2	0.0.0.0.0.0.0 50:0:0:0:0:0	6 APPER	12.7-10.1
AME SEAL NGE 250 250 50 50	OD OD 5 5 6 0 7 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	MATION 0, LO 840 0, LO 84 100 10, LO 84			<u></u>	-	1754-1 M
ING ASSE	TO SMALLEST	REDUCERS REDICERS WIL REDUCE OPENINGS BY 0.250 (6.4 MM) IN SEALING BLOCK ASSEMBLIES SEE TABLE ABOVE FOR REDUCER NUMBERS WHICH MATCH SPECIFIC SEALING BLOCK ASSEMBLIES. FYING INFORMATION FYING INFORMATION S - SIZES RANGING FROM 1.875 TO 2 G FROM 490 TO 945 OD.			60000	-	1.000-1.250 251-4 31-0
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			1		-0-0-0-	-	ž ž
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81LL OF M S20 S2063 TW T	STEP 4. TOTAL THE FRAME SPACES RECIURED FOR SEALING BLOCK ASSEMBLIES A APPROPRIATE SIZE MOUNTING FRAME(S) FACTOR IN SPARE CAPACITY REQUIRED F TOTAL FRAME SPACIS REQUIRES 25% SPARE CAPACITY TOTAL 20 SPACES SELECTION: ONE TWFS20 MOUNTING FRAME WITH TOTAL CAPACITY OF 20 SPACES SELECTION: ONE TWFS20 MOUNTING FRAME WITH TOTAL CAPACITY OF 20 SPACES SELECTION: ONE TWFS20 MOUNTING FRAME WITH TOTAL CAPACITY OF 20 SPACES SELECTION: ONE TWFS20 MOUNTING FRAME WITH TOTAL CAPACITY OF 20 SPACES SELECTION: ONE TWFS20 MOUNTING FRAME WITH TOTAL CAPACITY OF 20 SPACES BASED ON FUTURE EXPANSION NEEDS AND/OR SPECIFIC CABLE ARRANGEMENT)				000	-	2.00-2.7M M I 67.2
INTERIALS FOR SPECIFICATION SHOUL           (1) TWB52062         (2) TWB51           (2) TWB52112         (1) TWB51           (1) TWB52062         (1) TWB51           (1) TWB5112         (1) TWB51           TWB540366         (1) TWB51           TWF3         (1) TWB51           TWF3         (1) TWB5002           TWF3         (1) TWB5002           TWF3         (1) TWB5002           TWF3         (1) TWB5002           TWF3         (1) TWB5002           TWF3         (1) TWB502           TWF3         (1) TWB502           TWF3         (1) TWB502           TWF3         (1) TWB502           TWF3         (1) TWB502           TWF3         (1) TWB502           TWF3         (1) TWB502           TWF3         (1) TWB502           TWF3         (1) TWB502           TWF3         (1) TWB502           TWF3         (1) TWB502           TWF3         (1) TWB502           TWF3         (1) TWB502           TWF3         (1) TWB502           TWF3         (1) TWB502           TWF3         (1) TWB502           TWF3         (1) TWB502 <tr< td=""><td>E PRAME S E NOUNTIN CES REQU OUIRES 25 ING BLOCI EXPANSIC</td><td>750-1.000 500750 .500750 T T T P. UMBS200 R UNUSED R UNUSED R SEALING</td><td>THE THE UNRES SPEC</td><td>-</td><td></td><td>~</td><td>1 2,750-2,500 57,2-43,5</td></tr<>	E PRAME S E NOUNTIN CES REQU OUIRES 25 ING BLOCI EXPANSIC	750-1.000 500750 .500750 T T T P. UMBS200 R UNUSED R UNUSED R SEALING	THE THE UNRES SPEC	-		~	1 2,750-2,500 57,2-43,5
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TWP //TWR2 TWP //TWR2 TWP //TWR2 TWR53 TWF520 TWB51	ALING BLOCK ASSEMBLIES AND SELECT ARE CAPACITY REQUIRED FOR FUTURE EXPANSION ELL CAPACITY OF 20 SPACES ONE TWBS3 AND ONE SED FRAME SPACE (CHOICE OF FRAME COULD VAR C CABLE ARRANGEMENT)	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	SEALING BLOCK 2 DIAMETER 2 FRAME SPACES 3		• <u> </u>	.17	
	ISION. VARY			NOTES NO			

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AL PANNTING TO BE IN ACCORDANCE WITH MIL-E-817 THE STRUCTURAL REINFORCEMENT SHOWN ON THIS DRAWING DOES NOT ARPLY TO FLIGHT DECK BENIS, FLIGHT DECK SUPPORT STRUCTURES OR OTHER SMILAR TYPE STRUCTURE ON OTHER SUPS SUCH CASES MUST BE INDIVIDUALLY RESOLVED WITH STRUCTURAL DE SIGN MATERIAL OR FLAT BAR REINFORCEMENT IS TO BE SMILAR TO MATERIAL OF BULKHEAD OR DECK THIS PLAN WAS DEVELOPED FROM DESIGN DATA SHEET DOSTIOO-1, RENFORCEMENT OF DREINIGS NU STRUCTURE OF SURFACE SHIPS OTHER THAN IN PROTECTIVE PLATING. TO PERMIT INSTALLATION OF MULTI-CABLE BENFFRATOR FRAME (RENUES CALLA TION DE	ALL CABL INCHES T DIRCHES T DIRCHES T DIRCHES T DIRCHES T DIRCHES SANOWIC CABLE DE BLOCK A SANOWIC SANOWIC ASSEMBLE ASSION PLUGS AF PLUGS AF PLUGS AF PLUGS AF PLUGS AF ANSION ANSION ANSION	<ul> <li>(c) FRAMES MAY BE WATALLED SO THAT SEALING BLOCK ASSEMBLIES</li> <li>(c) FRAMES MAY BE WATALLED SO THAT SEALING BLOCK ASSEMBLIES CAN BE USED INSERTED IN EITHER HORIZONTAL OR VERTICAL POSITION</li> <li>(c) SPECIALLY FORMULATED ELASTOMERIC MATERIAL BETWEEN CAST MAILEABLE PRESURE PLATES PROTECTS CABLE FROM MECHANICAL DAMAGE. PROVIDES POSITIVE CABLE SEPLATION, AND EXPANDS DURING FIRE TO SFAL ANY VOIDS LEFT BY BURNED CABLE MICHANICA ND EXPANDS DURING FIRE TO SFAL ANY VOIDS LEFT BY BURNED CABLE SEPLATION, AND EXPANDS DURING FIRE TO SFAL ANY VOIDS LEFT BY BURNED CABLE MILTI - ABLE BENETRATOR MOUNTING FRAMES.</li> <li>(d) INTERCHANGEARLE SEALING BLOCK ASSEMBLIES FROM SUIPPING THROUGH TRADUCH PRESSURE PLATE</li> <li>(d) INTERCHANGEARLE SEALING BLOCK ASSEMBLIES FROM SUIPPING THROUGH TRADUCH PRASE ON FROM STALLATION</li> </ul>	WULTI-CABLE PENETRATORS ARE DEV WULTI-CABLE PENETRATORS AND DIMENSION CABLES, THAT AND DIMITS AND DIMENSION CABLES, THAT MAY BE USED WYENEW FIGHT AND FIRE PROOF BULKHEADS AN THOHT AND FIRE PROOF BULKHEADS AND BLE DIAMETERS BLE DIAMETERS BLE DIAMETERS AND BLOCK ASSEMBLIES AND A SELE ONE PIECE CAST STEEL MOUNTING FR MAE ONE PIECE CAST STEEL MOUNTING FR MAE

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PRODUCT) IN WATERTIGHT BULKHEADS AND DECKS ON SURFACE SHIPS

FILLET WELD REINFORCEMENT FOR T-2 WELD JOINT SHALL BE 1/8 INCH FOR PLATING UP TO 15 3+ AND 1/4 INCH FOR PLATING ABOVE 17.85+

**13** 

## SELECTION OF PARTS

- N -THE SELECTION OF COMPONENTS IS BASED ON THE OUANTITY AND SIZE OF CABLES GOING THROUGH THE PENETRATION ONCE THEY ARE KNOWN. THE SEALING BLOCK ASSEMBLES AND FRAMES CAN BE SELECTED
- 2. GROUP CABLES BY OUTSIDE DIAMETER (O.D.) AND RANK FROM LARGEST TO SMALLEST KEEPING IN MIND THAT SEALING BLOCK ASSEMBLIES TA KEAVALABLE IN ONE-OUARTER INCH INCREMENTS, GROUP CABLES THAT FALL WITHIN THE SAME SEALING BLOCK ASSEMBLY OD SIZE RANGE STARTING BLOCK ASSEMBLY COLD SELECT THE SEALING BLOCK ASSEMBLIES REQUIRED SPECIFY REDUCERS TO ACCOMODATE SMALLER DIAMETER CABLES AND PLOGS TO FILL OPENINGS NOT USED, ALL OPENINGS MUST BE FILLED
- TOTAL THE FRAME SPACES RECURED FOR THE SPECIFIED SEALING BLOCK ASSEMBLIES AND SELECT AN APPROPRIATE FRAME(S), KEEP 'SPACE' RECUREVANTS IN MINO WHEN SPECIFYING FRAME SPECIFY BLAMK SEALING BLOCK ASSEMBLIES TO FILL UNUSED FRAME SPACE.

ω

## INSTALLATION OF SEALING BLOCK ASSEMBLIES

CLEAN ALL INSIDE SURFACES OF FRAME AND EDGES OF FRAME OPENING, REMOVING ALL FOREIGN MATERIALS.

...

- 2. LUBRICATE ALL INSIDE SURFACES OF FRAMES, WITH A SILICONE BASEE LUBRICANT
- 3. MOVE CABLES FROM MANEDIATE AREA OF FRAME WHERE FIRST SEALING BLOCK ASSEMBLY WILL BE INSTALLED GROUP CABLES ACCORDING TO THER DIAMETER AND WITH RESPECT TO SIZES OF OPENMOS IN THE SEALING BLOCK ASSEMBLES TO BE INSTALLED THE DIAMETER OF OPENMOS OF SEALING BLOCK ASSEMBLY ARE W ONE-QUARTER INCH INCREMENTS (6.4 MM) AND EACH IS MARKED WITH THER SIZE ARINGE. CABLES TO BE SEALED IN A GIVEN SEALING BLOCK ASSEMBLY BE USED WITH CABLES THAT SHARE SIZE REDUCERS MAY BE USED WITH CABLES HAVING AN O.D. UP TO ONE-QUARTER INCH (6.4 MM) SMALLER THAN THE RAINED OF THE OPENING IN THE SEALING BLOCK ASSEMBLY. A SSEMBLY WITO FRAME KEYWAYS, BEOMINING AT ONE END OR BOTTOM OF FRAME. BE CENTIAN THAT FLAT SUDE OF THIS ASSEMBLY IS AGAINST INSIDE SURFACE ω

- 5. ARRANCE CABLES W SLOTS OF SEALING BLOCK ASSEMBLY SECTION WHILE HOLDING THESE CABLES IN PACE, SLUE FHE MAINE SECTION OF SEALING BLOCK NTO FRAME CAUTION. WHEN INDIVIDUAL CONDUCTORS OF A POWER CIRCUIT ARE CARRED THROUGH A FRAME. ALL CONDUCTORS OF THAT CIRCUIT SHOULD BE INSTALLED IN THE SAME SEALING BLOCK ASSEMBLY TO AVOD WATING OF THE PRESSURE PLATE OPERATIONS OF STEPS 4 AND 5 WITH APPROPRIATE SEALING BLOCK ASSEMBLES UNTIL ALL SEALING BLOCK ASSEMBLY AND 5 WITH APPROPRIATE SEALING BLOCK ASSEMBLES ARE IN PLACE OF FRAME.

- 6 INSTALL REDUCERS WHERE NEEDED. FILL UNUSED

FIGURE 3B62. Multi-cable penetrators installation notes (type TW)

NOTE

1. THIS FIGURE SUPERSEDES SHEET 3862 OF DRAWING 803-500 1027.

FRAME SPACES WITH BLAWK SEALING BLOCK ASSEMBLIES. FILL UNUSED OPENINGS IN THE SEALING BLOCK ASSEMBLES WITH CORRECT SIZE PLUGS.FOR HOLES ONE SIZE LARGER THAN PLUG USE FILLG AND REDUCER IN COMBINATION. BE SURE THAT PLUGS AND REDUCERS ARE FULLY WISERTED INTO OPENINGS OF SEALING BLOCK ASSEMBLIES.

ASSEMBLE KEEPER BAR OVER CAST STOPS OF FRONT PRESSURE PLATES.

8 -

- TIGHTEN ALL NUTS ONLY A FEW TURNS AT A TIME UNTIL SEALING MATERIAL "ROLLS" INTO SPACES BETWEEN PRESSURE PLATES OF SEALING BLOCK ASSEMBLIES AND BETWEEN PRESSURE PLATES AND FRAME THS
- STEP TO BE PERFORMED WHEN AMBIENT THEMERATURE IS AT LEAST 40 F (4.5 C) UNFORN TIGHTENING OF COMPRESSION HARDWARE IS IMPORTANT IT CAN BE PROPERLY DONE BY NOTING HOW FAR THREADED STUDS EXTEND THROUGH MUTS. WENERAL, WHEN ASSEMBLIES ARE ALL INSTALLED. EXTENSION OF THREADED STUDS EXTEND THROUGH MUTS SAME FOR THOSE ASSEMBLIES OCCUPYING THE SAME NUMBER OF THREADED STUDS EXTEND THROUGH NOT EXCEED 12 FT LBS ON XUES ON MUTS SHOULD NOT EXCEED 12 FT LBS ON SUES ARE MOT OFDINARILY REQUIRED TO EFFECT A SFAL HOWEVER, IF MITS ARE TORQUED TO THESE VALUES AND A TORN AND REQUIRED TO EFFECT A SFAL HOWEVER,
- ø HOURS TIGHTER SEAL IS REQUIRED RETOROUE AFTER 24
- CHECK TIGHTNESS OF ASSEMBLY BY PLACING A BRIGHT LIGHT SOURCE ON ONE SIDE OF THE ASSEMBLY AND INSPECTING IT FROM THE OPPOSITE SIDE TO SEE IF ANY LIGHT INSIBLE THROUGH THE ASSEMBLY, ANY VISIBLE LIGHT INDICATES THAT PROPER SEAL HAS NOT BEEN FORMED. TIGHTEN COMPRESSION HARDWARE

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**IPS PIPE SIZE** 

PIPE LENGTH 1/32

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STUFFING TUBE

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TABLE 2-FOR DECKS

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ABLE 1-FOR BULKHEADS

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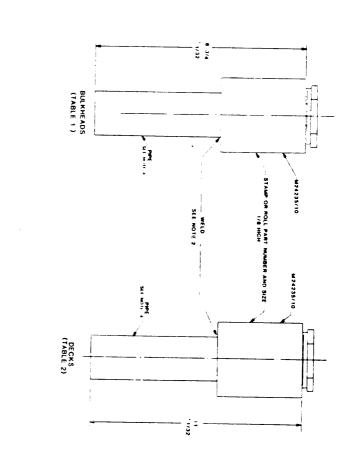
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M24235/10-M24235/10-M24235/10-M24235/10-M24235/10-M24235/10-M24235/10-



3860. Stuffing tubes reduced diameter for decks and bulkheads with pipe protection.

83

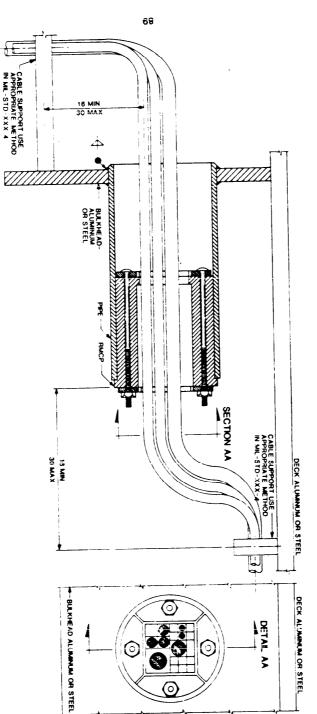
NOTES

- 1 THIS METHOD IS EQUAL TO AND IS AN ACCEPTABLE REPLACEMENT FOR W14235/17 AND 18 2 WELDING SHALL BE IN ACCORDANCE WITH MIL-STD-278

- 3 BREAK ALL SHARP EDGES. 4 PIPE SHALL BE PER ASTM-A 106-80 GRADE A 5 THIS FIGURE SUPERSEDES SHEET 3B60 OF DRAWING 803-5001027

# FIGURE 3B59. Round multiple cable penetrator installation in steel or aluminum bulkhead.

SH 132317160



NOTE: 1 THIS FIGURE SUPERSEDES SHEET 3859 OF DRAWING 803-500 1027

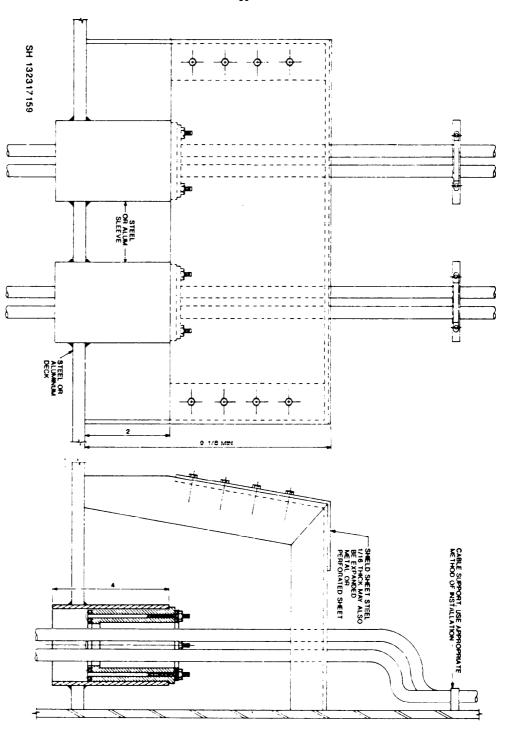
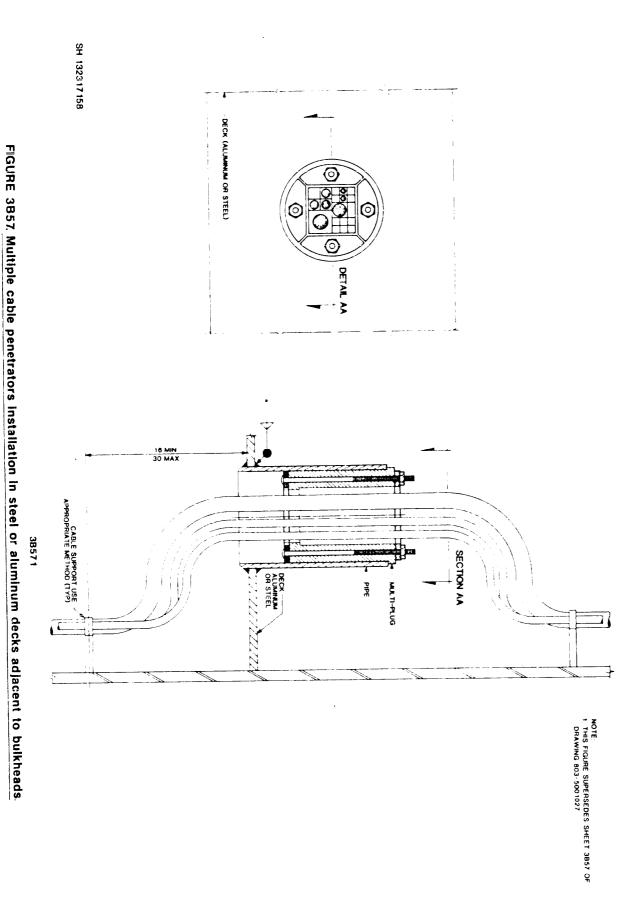


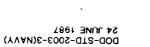
FIGURE 3B58. Round multiple cable penetrator shield.

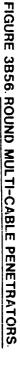
NOTE 1 THS FIGURE SUPERSEDES SHEET 3858 OF DRAWING 803-5001027

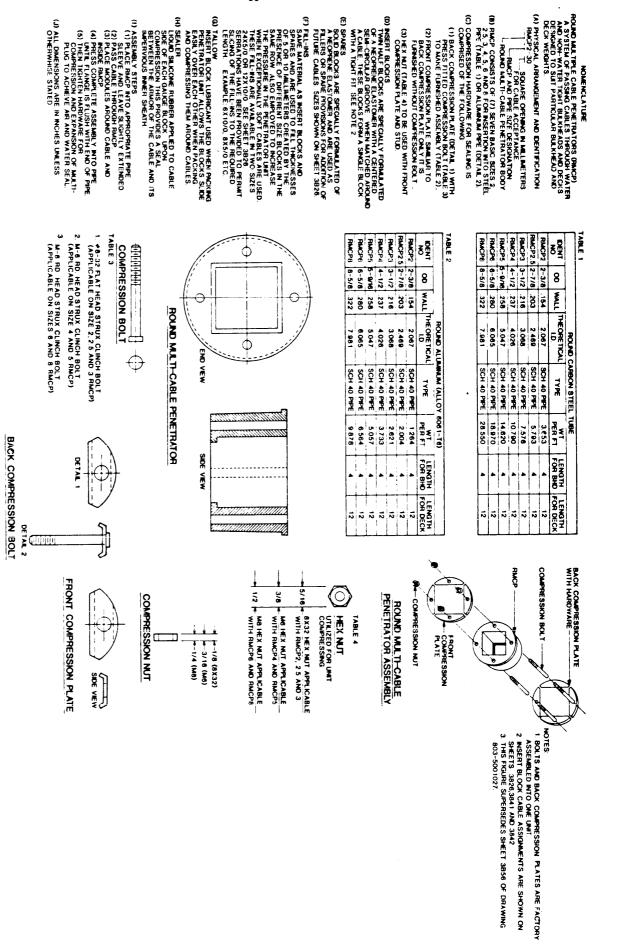
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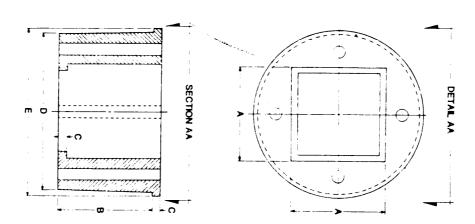




(H) SEALER

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FIGURE 3855 ROUND MULTIPLE CABLE PENETRATORS (DIMENSIONS).



MATERIAL: SPECIAL HEOPRENE ELASTOMER

1	2	ž	8	o	o	m
RMCP2	1.181	8	2.558	.197	2.000	2.232
RMCP25	1220	8	2.559	.197	2 302	2.634
RMCP3	1.614	•	2.559	197	3.000	3.340
RMCP4	2.362	8	2 559	197	4000	4.282
RMCP5	3.188	8	2 559	. 197	5 000	5 3 3 9
RMCP6	3.543	8	2.559	. 197	6.000	6.375
RMCP8	4.763	8	2 5 5 9	197	,	8.312

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NOTE 1 THS FIGURE SUPERSEDES SHEET 3855 OF DRAWING 803-500 1027

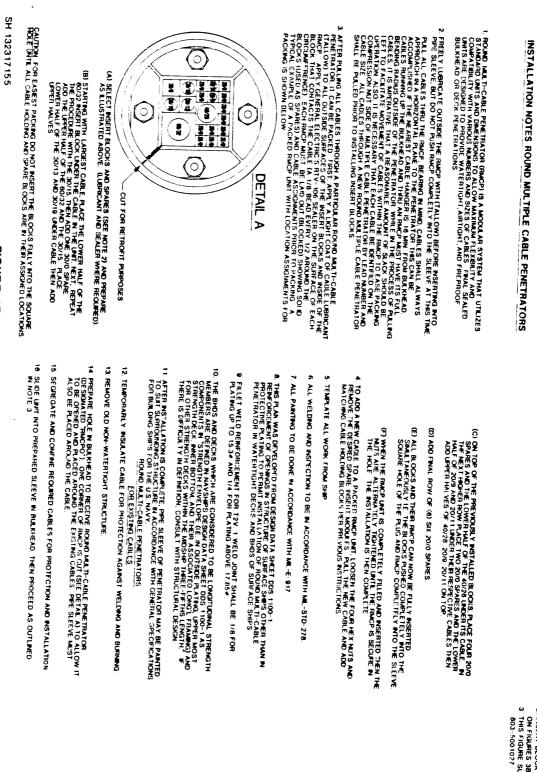


FIGURE 3B54. Round multi-cable penetrators installation notes

NOTES 1 THE ROUND MULTI-CABLE PEMETRATOR SHALL NOT BE INSTALLED IN BULKHEADS AND DECKS WHICH ARE EXPOSED TO THE WEATHER 2 INISFIT BLOCK CABLE ASSIGNMENTS ARE SHOWN ON FIGURE SUPERSEDES SHEFT 3854 OF DRAWING 3 THIS FIGURE SUPERSEDES SHEFT 3854 OF DRAWING

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35WU3-7 35WU3-10	38WU-44	39WU-37	35WU-24	33WU-14	38WU-10	38WU-3	33WA-44	35WA-37	OC-VMSC	35WA-10	39WA- 14	38WA-7	38WA-3	190-44	390-37	190-24	384-10	394-10	390-7	391-3	39JA-14	38.A-0		35-22	39	35-14	33-12	38	395-7	2WAU-40		2UA-80	2UA-30	2UA- 10	2UA-10		24-60	24-30	24 - 19 19	20-10	2 SWUA - 8 I	
0 3946115LJ	384820SWV		38-4	3848143NM		1 1		3840	_			3848118LJ		3848 193WT	301010331	-	3848145ML	3840113LJ	38488306	38484900	3848138A			3848138A	384813BA		1	38484500	38481131			3848113LJ		38484300	3848430C		38401181	1	38484300	-	D848218AAX	
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						84 M- 9		733-2	790U-4	7800-8	13UA-4	7804-3	798-6	8300- AV0	030U-150	03QU-125	650U-100	03QA-200	080A-160	68QA 100	686		AKYTSOU-400	SKYTSOU-260	5K VT SQU- 160		5KY15GA-400	SKVTSOA-250	5KYT8GA - 160	AUVISOA- 100	431-20	434-14		4NW-8	30-12	34-7		35WUS-44	35WUS-37	35WUS-24	38WUS-14	-
						1		38484800	1	384848DC	1	38484800	38498305	1	3848185WT	1	38481839	1	3848188WT	1	38484800		3848238442		3848 185WT		3848235AAZ	-	3848 198WT	I	3848138A	3648138A		1	3848125LK	384849GE	MANASOC	1	3848183W1	•	3848145144	-
						1	)	38484ADC	1	38484ADC	1	38484ADC	SBABBAGE	,	384818AWT	1	3848 18A SP	1	3848 18AWT	1	38484400		3848234442		3848 18AWT	1	384823442	-	3848 18AWT	•	38481A8A	38461484		1		38488AQE		1	384818AWT	1	384814ANU	-
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FIGURE 3B53. Stuffing tubes cable assignment using reducer adapters.

NOTES: 1. ADAPTER SET CONSIST OF OME(1) FLAT WASHER AND OME(1) BEVEL REDUCING ADAPTER. 2. THIS FIGURE SUPERSEDES SHEET 3853 OF DRAMING 803-500 1027

54 10NE 1881 DOD-STD-5003-3(NAVY) FIGURE 3B52. Stuffing tubes cable assignment using reducer adapters

SH 132317153 115A-1 1/2 115A-3 115A-3 115A-10 115A-10 115A-20 115A-20 115A-20 115A-40 115A-40 115A-40 1180-1 1/2 1180-3 1195-0 1195-0 1195-10 1195-12 1102-10 1102-10 117884-2 117854-4 117854-6 117854-6 117854-10 117854-10 117854-10 188-2 188-3 189-4 18-11 1800-180 1000-200 1900-300 1800-400 18AU-44 11113-2 BWA-2 2 2 3 3 1000-70 CABLE 3848158A 3848450C 3848450C 38488806 38401088P 38401783P 38401783P 3840195WT 3848205WV 3848118LJ 3848148MM 3848930F 3848113LJ 3848143MM 3848118LJ 384812SLK 38481184,J 38481281.K 38481281.K 3848880£ 3848430C 384843DC 3848830E 3846113LJ 38484300 3848188A 3848 1835P 38484800 38481635 7911 81-19F 384895QF NOWTER SET 38484800 38488AQE 38484ADC 38488AQE 384818A8P 384817A3R 384818AWT 384820AW1 38488AQF 384811ALJ 38484ADC ADAPTER BT 384811ALJ 384811AL 384818A8P 38484ADC 384811AL. 38484ADC 38461648 38488AQ 38484ADC 38484ADC 38481A8A --000 ... - 0 ..... 000 .... ..... ALINCION REL 0.01 1850MA - 18 1850MA - 20 1960MA - 40 1960MA - 70 211-10 187580-0 1360443-16 1360448-20 1360448-40 1860448-70 18WA-14 18WA-20 18WA-30 28.4-7 28.4-9 28.4-11 28.4-11 28.4-12 28.4-12 28A-5 28A-7 28A-10 28A-14 28A-14 28A-14 28A-14 28A-24 28A-24 28A-37 28A-37 28A-44 28A-41 209-10 209-10 209-10 1876MA-8 1850MU-18 1850MU-20 1850MU-40 1850MU-70 18WF-2 18WU-2 18WU-14 18WU-20 CABLE 2010 100A 3842118LJ 3843118LJ 3843118LJ 3848480C 3848480C 3848123LK ABHEHBOC 30401284.8 38401434 38481281 30188806 38484908 ADAPTER BET VBHE 198A 3848128LK 38481294.8 38481838 20646905 BISIS STORE 30HH4SDC 3849129LK 38464300 384812ALK 384812ALX ATTACK N 304012ALK 38484ADC 38488AQE 384812ALF 384812AI N MARANCE 3848 1484 3848 1484 3848 1484 3848 1484 38484ADC 38484ADC 394012ALK 38488AGE 384818A3P 38484ADC 384812ALK Neverado TVILENER UB48 14ANB NO-DO-DO B481ABA I i let z------0 ----z ~ -2-00 ...... ..... 0 ---DIECINE >>1110 ALMOI £ × × 0 1 - 1 1 1 = 1 280-3 280-7 280-7 280-10 280-10 280-11 280-11 280-11 280-11 280-11 280-11 280-11 280-11 280-11 23WU-1 28WU-5 28WU-7 28WU-7 28WU-18 28WU-18 28WU-18 28WU-2 28WU-2 28WU-2 28WU-2 28WU-2 28WU-2 28WU-2 28WU-2 28WU-2 28WU-2 28WU-2 28WU-2 28WU-1 28WU-5 28WU-5 28WU-5 28WU-5 28WU-5 28WU-5 28WU-5 28WU-5 28WU-5 28WU-5 28WU-5 28WU-5 28WU-5 28WU-5 28WU-5 28WU-5 28WU-5 28WU-5 28WU-5 28WU-5 28WU-5 28WU-5 28WU-5 28WU-5 28WU-5 28WU-5 28WU-5 28WU-5 28WU-5 28WU-5 28WU-5 28WU-5 28WU-5 28WU-5 28WU-5 28WU-5 28WU-5 28WU-5 28WU-5 28WU-5 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WU-7 28WF-J 28WF-4 28WF-7 23WAU-7 28WAU-10 25WAU-14 25WAU-14 25WAU-24 25WAU-24 23WAU-37 23WAU-44 23WAU-44 23WA-3 23WA-1 23WA-10 23WA-14 23WA-30 23WA-30 23WA-37 28WA-44 22848-3 22848-7 22848-10 22848-10 22848-10 22848-10 22848-20 22848-20 22848-20 22848-20 22848-20 22848-20 22848-37 22848-3 28WUA-3 28WUA-7 28WUA-12 28WUA-12 28WUA-14 28WUA-24 28WUA-24 28WUA-37 28WL-7 CABLE 3848118L SPACE NO. 3848480C 3848480C 3848890E 2010 1029 2010 1029 2010 1029 (TAK) 30484394 3048 (4394) 3048 (4394) 3044 1033 3543 1181 SPARAGOC MARKSOC 242 143 M Nage 1 80 SHORACE 1848 1141 NUMBER OF SPIRIAGE SPIRIAGE 38441440 LINING SHAAANA SHAAANA SHAAANA TVI I PER 3848 184.5 There are a second Ĭ SAN I LAN BHBHNDC Memor 20MMGC ķ ğ. 2----\*\*\*\*\*\*\*\* 5 # # Z - - 0 -----0 .... -----or Z - 0 - -REPUCTION NOT m 0 0 TISILIO -1110 0

> NOTES ADAPTER SET CONSIST OF ONE (1) FLAT WASNER AND ONE (1) BEVEL RECUCING ADAPTER 2 THS FRUME SUPERSEDES SHEET 3851 OF DRAWING 803-5001027.

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FIGURE 3B51. Stuffing tubes cable assignment using reducer adapters.

SH 132317152		\$\$QU-100 \$\$QU-200	SSQU- 75	SSQL- 70	SSGA-20X	350A-160	550A 800	SSQA-850	SSQA-400	55GA-70	55GA-100	53QA-74	35GA-60	395-300		SNW	SHOT-800	SHOF-850	SHOF - 500	SHOF-250	SHOF - 190	5+0+-00	SHOF-23		PI-12	1	2	P874-15	POTM-5		10- 100	WWF-24	LWF-10	MWF-14	LIWF-7	•	Ę	USPW		K S	MSCU-81	MSCU-01	MSCU-37	MSCU- 30	MSCU- 24	MSCU- 14	MSCU- 10	HSCU-7	MBCS-91	CABLE
17152					_	0 384618SWT			384212SLX			38484SDC		3848125LK		•		38481833	_	3848125LK		38484300		18481SBA	ł	1	1	384811SLJ	TRADEGI		384811SLJ		384883GE	1	38484SDC		1	384817SSR		384617SSR	1		3840113LJ	•	~ I		1	I	384816SSP	(STELL)
		11				3845 19AWT			384812 ALX		. 1	38484ADC	38484ADC	384812ALK		ı		38481043		384812ALK		38484ADC	1	3848 1ARA	1	1	1	384811ALJ			384811ALJ		38488AQE	ı	38494400		1	384817A3R		3848 17ASR	1		384812ALK		1	11	1	I	3848 18ASP	IN UNITARI
		• •	0	•				-			0	0	•	-			a		z	-		0		•	~	0 0	,		0 0	,		- 0	6		ə c	I	•			w	z	-		• •	0		. 0		<b>ca</b>	ų.
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FIGURE		TNWA-100	TNWA-50	TNWA-14	TNWA-9	TNWA-4	THWA-3	TNW-150	TNW- 100	1WW-75	TNW-23	TNW-14	TNW- 9	THW-3		THOF-800	THOF-500	1404-250	THOF-150	THOF-42	THOF-23	THOP-9	1+0+-4	HOF-4		TCTX- 12	TCTX-3	1011-1	1010-1		TCTA-4	1007-2		TCKX-12	TCKX-7	TCKX-1		TCJX-12	TCJX-3			TCJA-4	575		8SQU-2000	3501-1800	830U-800	5500-650	3801-300	CARLE
		384814SNM	3848115LJ			1		1	1	3848128LK	30404902	1	1				 1	_			1	38484300	38484500	1	1	191811911	38484500	38481584		 I	1	30401304		384814344	1			38481454	38488305		•	1	10+0+3U		1				38481181	inite.
3B51 Stuffing tubes		3848144	3848		,	,	1	1	1	384812ALK	38488408	1	ı	1 1			1				1	TUVERAGE	JEABAADC	ı	1	JANI 1 MAL	38484ADC	38481ABA		•	1	Jane 1 ABA		384814AM	1			384814ANU			1	ł			1	384818AWT	1	384814ANM	38481141	(ALIVANIA)
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			1500 100	150U-75	1500-23	15QU- 14	1300-9	1500-3		TSGA-400	1504-200	TSQA-150	TSQA- 100	130A-76	TSQA-23	T90A-14	13QA-9	1904-4	1004-1	TRXF-133	TRXF- 105	TRXF-44	THWA		Three	TRF- 168	TRF - 133		TPU-0	00C - 541	TPS-23	TPS-14	TPS-0	105-4	1P3-3	TPNWA-40	TPWWA-30	THWA-20	TPNWA- 10	TPWWA-5	TPNWA-1 12		TPNW-40	1944-30	TPWW-15	TPWW-10	TPNW-3	TPHW-1 V2	TNWA- 150	Caller
assignment using	<u></u>			384812SLX		,	384843DC	3040138A			30401/33M	3840 16332	3848143MM	C'es l'eter		384883QE	38484800	1	1	t	I,	38484800	38484306		1	ŀ	38488306		38481131.3		1	38488806	38484300	38484900	1	38488305	1	38484SDC	38484300	1	3848138A	·	1	30404SUC	38484300	1	3848138A	3840138A	38481888	(3701)
using re				384712ALK		1	38484ADC	VAN BRAC		1	JA48 IAAWT	384818434	3848 IAANA			38488AGE	38484ADC	1	ŀ	1	1	38484ADC	38488AQE		)	1	38488406		384811ALJ	Jese Lat	1	38488AGE	38484400	38484ADC	1	38489AGF	1	38484ADC	38484ADC	J	38481484		1	38484400	38484ADC	1	38481484	38481484	3848 16A3P	(ALLANDLA)
reducer			~	-	- 0	0	•		,			* 08			- 0	0	•		•	0	0	•	٥	1	•	۵	00	2	-	-	• •	01			•	0	0	• •				•		0 0	0	•		•		Tue
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NOTES
 ADAPTER SET CONSIST OF ONE(1) FLAT WASHER
 AND ONE(1) BEVEL REDUCING ADAPTER
 THIS FOLMER SUPERSEDES SHEET 1852 OF DRAWING
 803-5001021

## 54 100-510-5003-3(NAVY)

FIGURE 3B50. Stuffing tubes cable assignment using reducer adapters.

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		0800-400	D9GU- 300	0901-200	000	D601-76								00+400		00- MID	000- ADG	D80A-75	DB0A-60	C2-V080	DBQA-14	000A-0		0004-3		Cherry.			- 55 -	931	1			DNWA-100	DAWA 75	DIMAA SO	DWA-23					DMW 100	DMM-76	DW-90	DHW-23	DMM- 14				0.14					0-0-23	DHOF-14	0-10-0	DHOF-		DHD-1	D00P-7	DCOP-11/2	000	CVSF-4		CABLE
		384820SW	3848 185W	384817359	1	28-48125UX					1			AMBOZ BHOK	THEN SHE	10011000		XTB11 BHGC	TBILLINGS	SPANNE.	•	38484800	1	1		,			1	30494SDC	 1	1		1	3848125LK	38481184.5	• •	2048490	1	,		1	3848128LX	•	,	19404300	THAT AND			1		3948209WV	VMMCC ALL		,	1	394948DC	1	,	,	3840 198A	3840 198A	ABEI GABE	,	The second second	ADAPTER SET
-	_	_	T 3848 IBAWT	_		1948 12A LK	~	_		_					LAVEL PRE		,	XTNULEHEE	_	BABANCE		38494ADC	1	1		1			,	30444DC	1	•				384811ALJ		-		1		1	354812ALX	1	ı	3B484ADC	HANNOC I		,	1		384820AWV	MACCARE	- Longe		,	MINING	1	1	I	VBVI BHBC	3848 I ABA	ABVI BARE	1		(AL UNITED SET
		-			-	- 1	- 1	0 0				,		1		9	• •	~	~	0	•	•	•				,		•	0	•			~	~	-			, •		,	-	-	۵	0	0	0		•	0		\$	<b>E</b> 3		•		0	•		•	•	•	•	z		ŝ
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NOU-23		5		NCW-		1 600m	MCO8-8	MCOG-6	MCO8-4	E-600m		3			2	-	ram-m	F3CU- 180	100-100	FSQL-76	F30U-60	F300-23	F3QU-0	F800-4	100-5		raun-nu					100-20	- VDG4	FBGA-4	F80A-3		1-94			FINMA-23	FNWA-0	PINNA-4	PMMA-3		FMM-23	FMW-9	7	- mm		561-30H	PHOF-80	710-12					1	-		D6W9-4			000-	040-2		CADLE
1	38461434			38481839P		30494300	1	VERI BYER	1	,				-			ALCAL POOL	State and	•	3840143464	3048123UX	Mar Int	1	30484300	184848DC		TOTAL OPENING						1	304440C	MB4848DC					1	,	384849DC			MARCH SCIT	38484800	JAAAASOC			3040 196WT	1	They are	•				1			AD BORNESS			1	• •	-	(STEEL)
	MANUBAGE 1			STYLE IN COL		SHARADC	,	3840 IABA	1	1				,			-				384812AJX			38464ADC			_	_	_	_		_	_	38484ADC	38484ADC		Marrie Co.	1		1	1	3848400	1		JBANNAGE	39494000	SHAANDC	1		-	_	_	-	STANAL OC	_					ADVENUES.			1	1 1		(AL (MARAN)
<i>a</i> 1	_	_				•				•		,					1		2	-	-			•	•		_		-	-		_		, a	0		•			•	•	•	•		6	•	0			1	z			-			-	z		•	_		•	• •		1
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Maca M	NSCS 37	MBCS-30	M9C9-24						MSCA-01	MSCA-61	MOCA-44	MBCA-37	MBCA-30	MBCA-24	HOCA-10	MBCA-14	MOCA-10	MBCA-7		16 - BI			MR1-T-21/2	MPH-D-21/2	M-0-1						MA-24		- 10	MARWA-7			MMW-44				LOW-10		LANA-1			B-40MM			-10-M	Marce - 37	MHOF-30	MHOF-24	MHOF-18					MD-YOM	MDY-40	CC-YOM			_			
-	384812SLK	3848 1 18LJ	-	3848930		200484302			1	;	3848178UX	JEAN TRU	,	,	1	1	•	1	-	200000E				3848188A			1	0010000	1040000					1			,	38496805	1	•			1 1			3848188A			1						3444900			3848228AAV		3840 199WT				38487 1344X		
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NOTES 1 ADAPTER SET CONSIST OF ONE (1) FLAT WASHER AND ONE (1) BEVEL REDUCING ADAPTER 2 THIS FRUME SUPRESEDES SHEET JB50 OF DRAWING 803-5001027

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FIGURE 3B49. MIL-S-24235/18 Stuffing tube and kickpipes minimum spacing.

SH 132317150

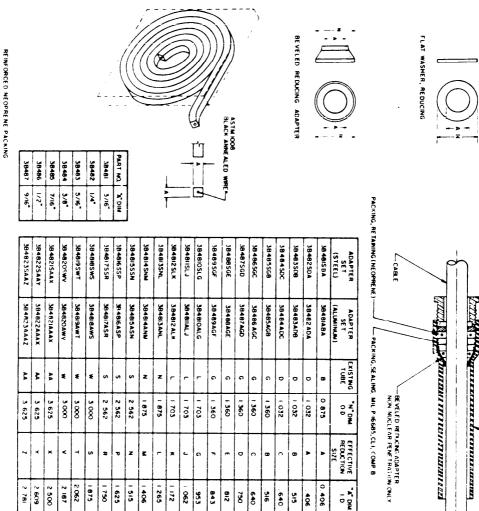
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## HOLE SPACING IN DECKS & BULKHEADS TABLE DERIVED FROM REQUIREMENTS OF DESIGN DATA SHEET DOS 1100-7 04L-5-24235/18)

NOTES: 1. THS FIGURE SUPERSEDES SHEET 3849 OF DRAWING 803-5001027. --





4 THIS FIGURE SUPERSEDES SHEET 3848 OF DRAWING 803-5001027 3 NEOPRENE SHALL BE IN ACCORDANCE WITH MIL-R-15624, CLASS I, GRADE 50 SEQUENCE

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## STUFFING TUBES BEVEL REDUCING ADAPTER ASSEMBLIES (ML-S-24235/18)

- GLAND NUT

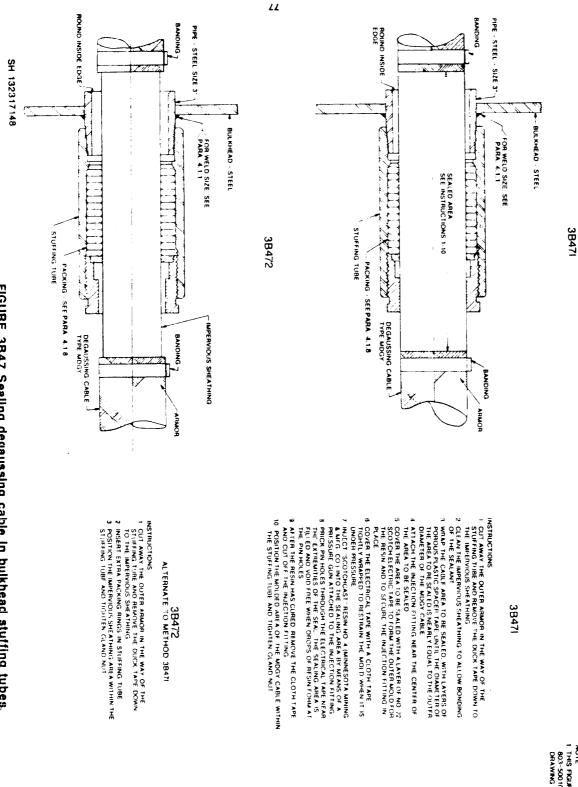
-FLAT WASHER, REDUCING

SWAGE STUFFING TUBE

-+ 5

I. ADAPTER SET CONSIST OF ONE FLAT WASHER AND ONE BEVEL REDUCING ADAPTER 2 DEFINITION OF ADAPTER SETS NUMBERING SYSTEM FOLLOWS SECTION GROUP SHEET 38 48 IS 8A - HOIST TUBE STEEL OR ALUMINUM (S OR A) REDUCTION SIZE

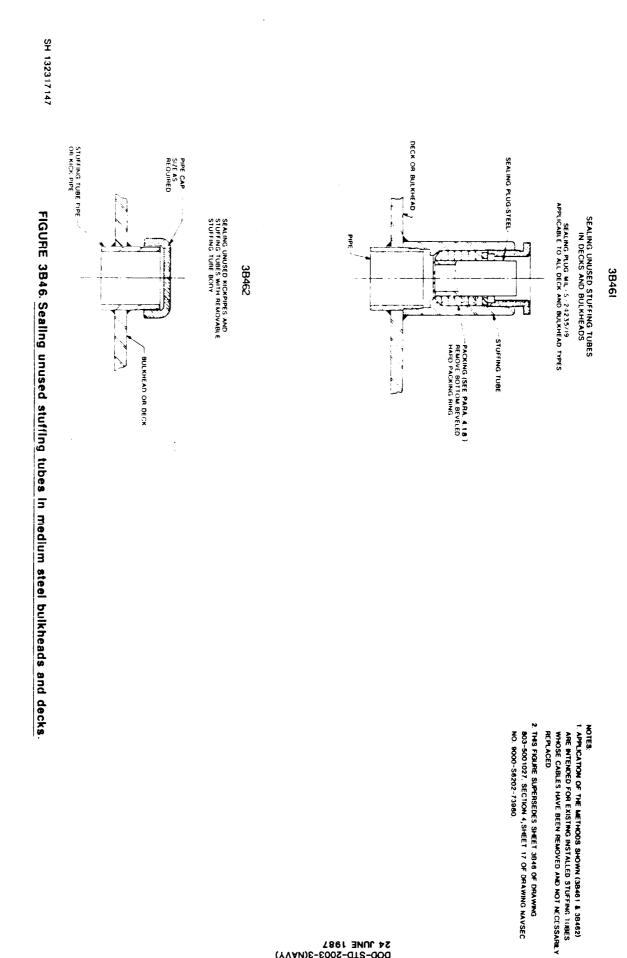
NOTES

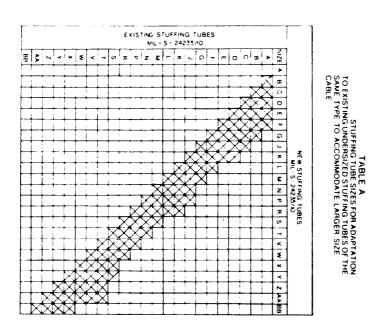


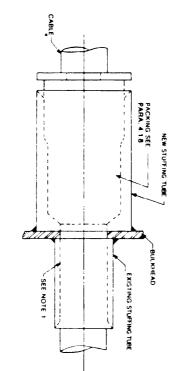
1, THIS FIGURE SUPERSEDES SHEET 3847 OF DRAWING 803-5001027 AND SECTION 4 SHEET 148, OF DRAWING, NAVSEC NO 9000-56202-73980

NOTE

## FIGURE 3B47 Sealing degaussing cable in bulkhead stuffing tubes.







TYPICAL INSTALLATION

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38451

NOTES:

- 1. TABLE B INDICATES NEW TUBE SIZE LIMITATIONS FOR ADAPTATION TO UNDERSIZED NON-REUSABLE
- STUFFING TUBES.

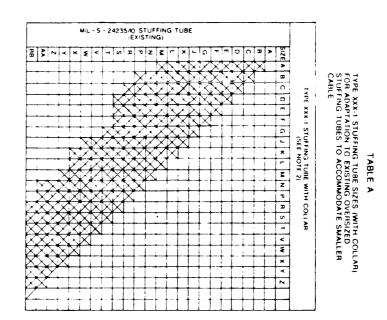
- 2. REAM SMOOTH AND ROUND OFF INSIDE EDGE OF EXISTING TUBE TO PREVENT CABLE CHAFING. 3. This figure supersedes sheet 3845 of drawing 803-500 1027 Section 4. Sheet 103. Of drawing Navsec No. 9000-58222-73880.

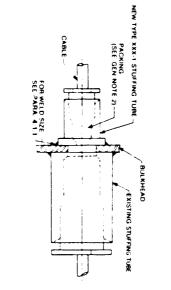
FIGURE 3B45. Changing stuffing tube sizes to accommodate larger cable.

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SH 132317145







TYPICAL INSTALLATION

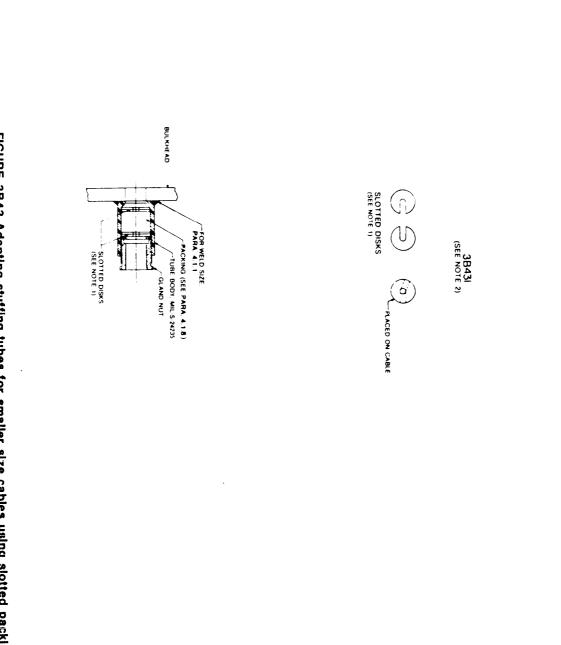
- NOTES: 1. FOR ALTERNATE METHODS, SEE METHOD 38431. 2. THE USE OF THE METHOD SHOWN (38441) DEPENDS UPON THE AVALABILITY OF TYPE XXX-1 STUFFING

38441

- TUBES, WHICH ARE OBSOLETE. 3. DICARD METAL GLAND WASHER BUT RETAIN GLAND MUT OF EXISTING TUBE TO PREVENT CABLE CHAFING. 4. TABLE A INDICATES TYPE XXX-1 TUBE SIZE LIMITATIONS FOR ADAPATION TO OVERSIZED NON-
- MEUSABLE STUFFING TUBES. This Figure Supersedes Sheet 3844 of Drawing 803-5001027 And Section 4, Sheet 103, of Drawing Mavsec NO. 8000-73880.

24 JUNE 1987

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2. THIS METHOD IS AN ALTERNATE TO METHOD 38441. 3. This figure supersees sheet 381 on drawing 80.3-5001027 AND Section 4, Sneet 114 OF Drawing , Maysec No. 9000-56202-73980.

NOTES: 1. CUT A SLOT W A DISK OR WASHER ON ONE SIDE OF THE CABLE ONLY. TWO SLOTTED DISKS OR SLOTTED WASHERS ARE THEN SLIPPED AROUND THE CABLE BOTH IN THE GLAND BOTTOM AND UNDER THE GLAND NUT. TO HOLD THE PACKING SECURELY

IN PLACE.

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pe RG		AT INSERT
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TE 3842. Multiple cable penetrator cable assignment (type RGS and RGA).

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MOTES: 1 FOR OBSOLETE CABLES AND COAXIAL CABLES SEE FRURE 3826

24 JUNE 1987

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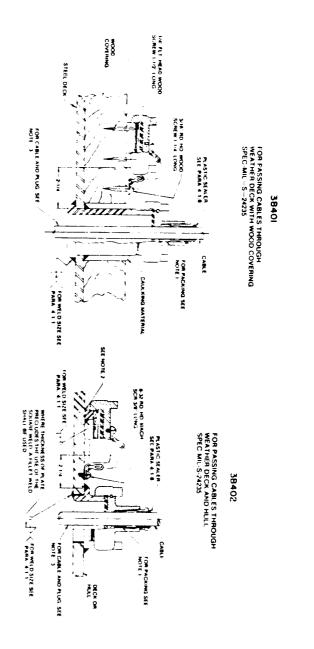
NOTES. 1 FOR OBSOLETE CABLES AND COAXAL CABLES SEE FIGURE 3828. 2 THIS FIGURE SUPERSEDES SHEET 3841 OF DRAWING 803-5001027

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FIGURE 3B41. Multiple cable penetrator cable assignment (type RGS and RGA).

FIGURE 3840. Deck outlets for portable cables(surface ships).



NOTES

- I. GLANDS OF OUTLETS SHALL BE PACKED WITH PREFABRICATED PACKING TYPE 2 SIZE "B" IN ACCORDANCE WITH SPEC MIL-P-16665
- AFTER WELDING DUMMY PLUG (SPEC ML-P-24235) IN PLACE, AN APPROVED COAL TAR PITCH EMULSION SHALL BE USED TO SEAL THE CRACKS FILL THE INSIDE FLUSH
- OUTLETS ARE DESIGNED TO ACCOMMODATE A SINGLE CABLE AND TYPE CCC-2 PLUG IN ACCORDANCE WITH DRAWING MIL -- R-2726/68
- THS FRURE SUPERSEDES SHEET 3840 OF DRAWING 803-5001027 AND SECTION 4, SHEET 94 OF DRAWING NAVSEC NO 9000-56202-73980

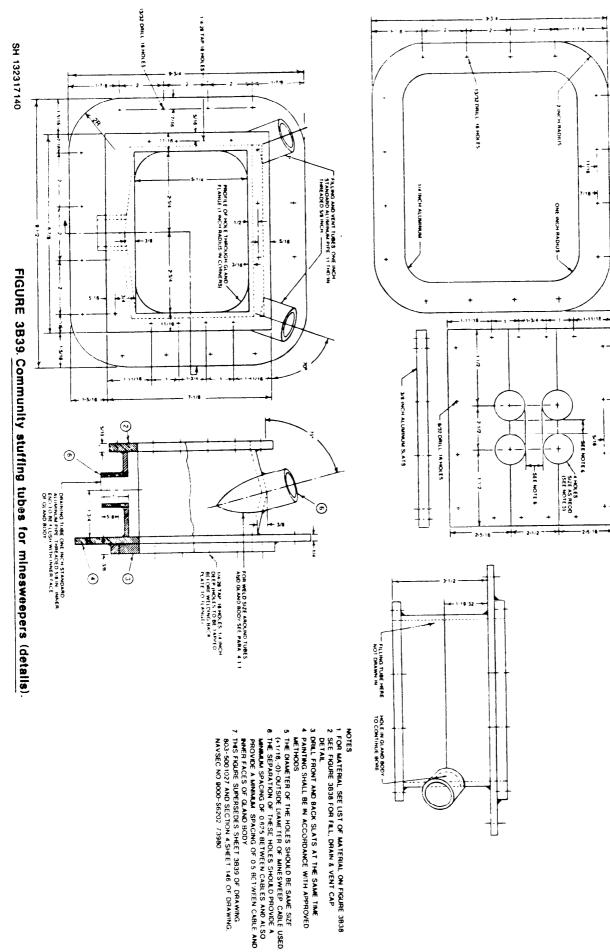
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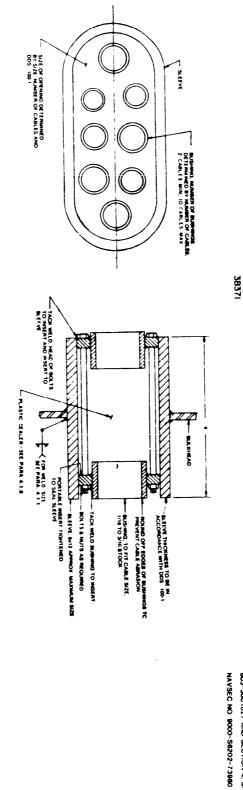
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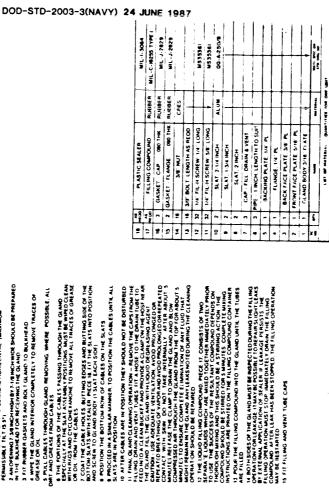
DOD-STD-2003-3(NAVY) 24 JUNE 1987



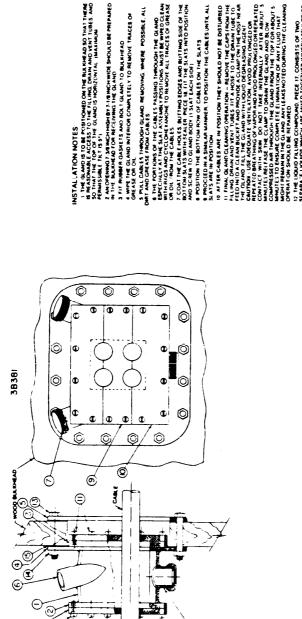
NOTE

1. THIS FROURE SUPERISEDES SHEET 3837 OF DRAWING 803-5001027 AND SECTION 4. SHEET 159, OF DRAWING. NOTE

803-5001027 AND SECTION 4, SHEET 145, OF DRAWING, 1. THIS FIGURE SUFFEREDES SHEET 38:18 OF DRAWING NAVSEC NO.9001-56202-73960.

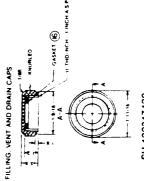


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POLARITY AND ARRANGEMENT OF CABLES IN COMMUNITY STUFFING TUBE

FIGURE 3B38. Community stuffing tube for minesweepers.

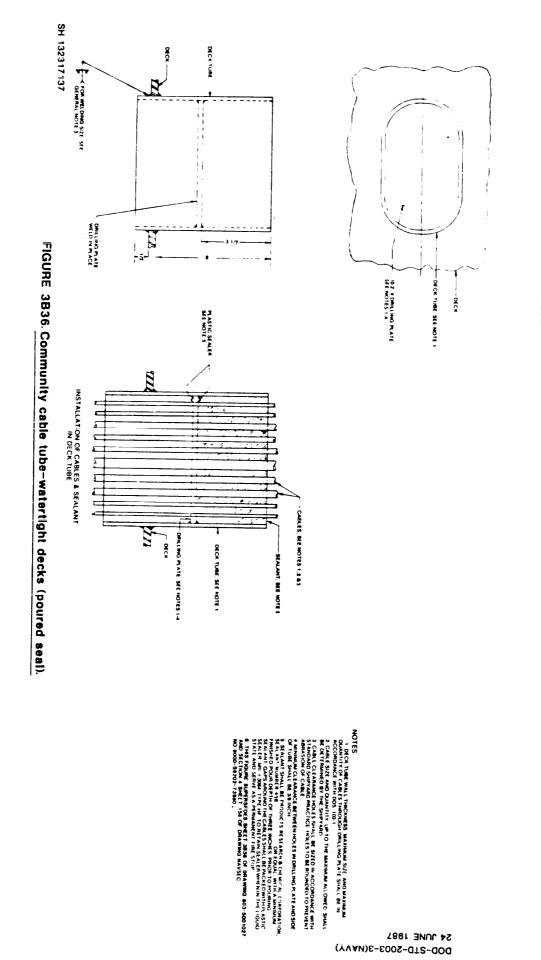
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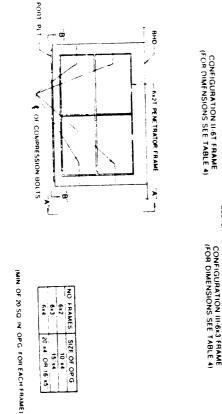
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CONFIGURATION V-6x2T FRAME (FOR DIMENSIONS SEE TABLE 4)

TABLE NO. 4

TABLE NO: 3

 DIMENSIONS
 DIMENSIONS

 CONFIGURATION
 A
 B
 C
 D
 E
 BOLTS

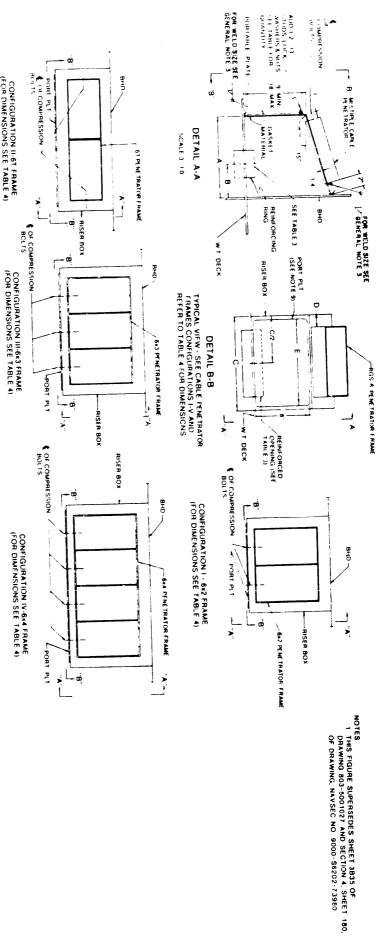
 NUMBER
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 12.12
 5
 14
 12.14
 11
 14

 III
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 5
 14
 15.8
 16
 16

 III
 12.12
 5
 24
 11.2
 21
 16

 V
 13.12
 7
 21
 1.18
 20
 16

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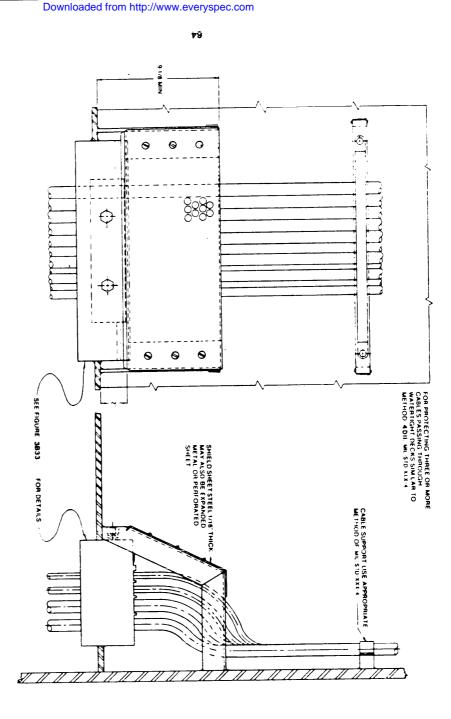


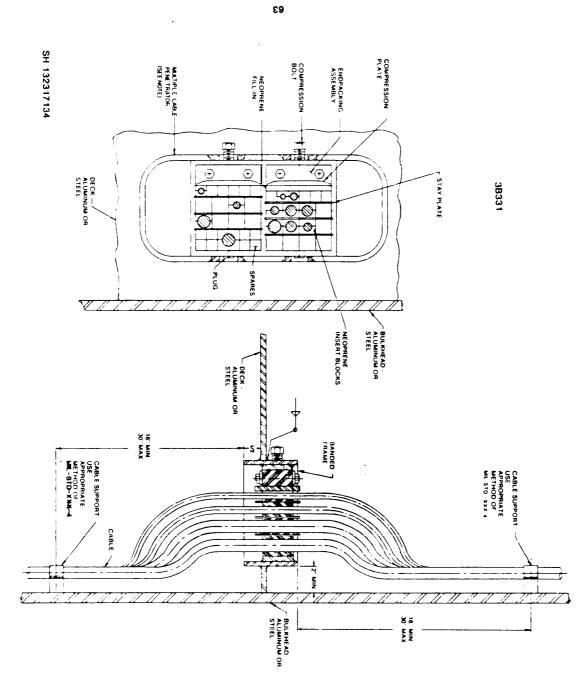
FIGURE 3B34. Multiple cable penetrator (type RGS and RGA) shield.

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NOTE

1. THIS FIGURE SUPERSEDES SHEET 3834 OF DRAWING 803-5001027 AND SECTION 4. SHEET 179. OF DRAWING. NAVSEC NO 8000-56202-73980.

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NOTES 1 MULTIPLE CABLE PENETRATOR FRAMES ARE AVAILABLE IN VARIOUS SIZES AND ARRANGMENTS

SHOWN IS A TWO FRAME PENETRATOR

2 THIS FIGURE SUPERSEDES SHEET 3833 OF DRAWING 803-5001027 AND SECTION 4. SHEET 178. OF

DRAWING, NAVSEC NO 9000-56202-73980





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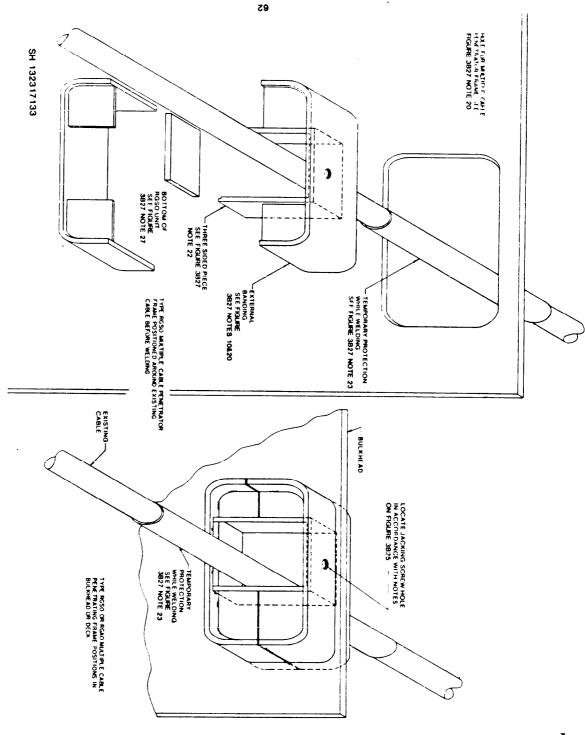
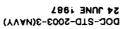


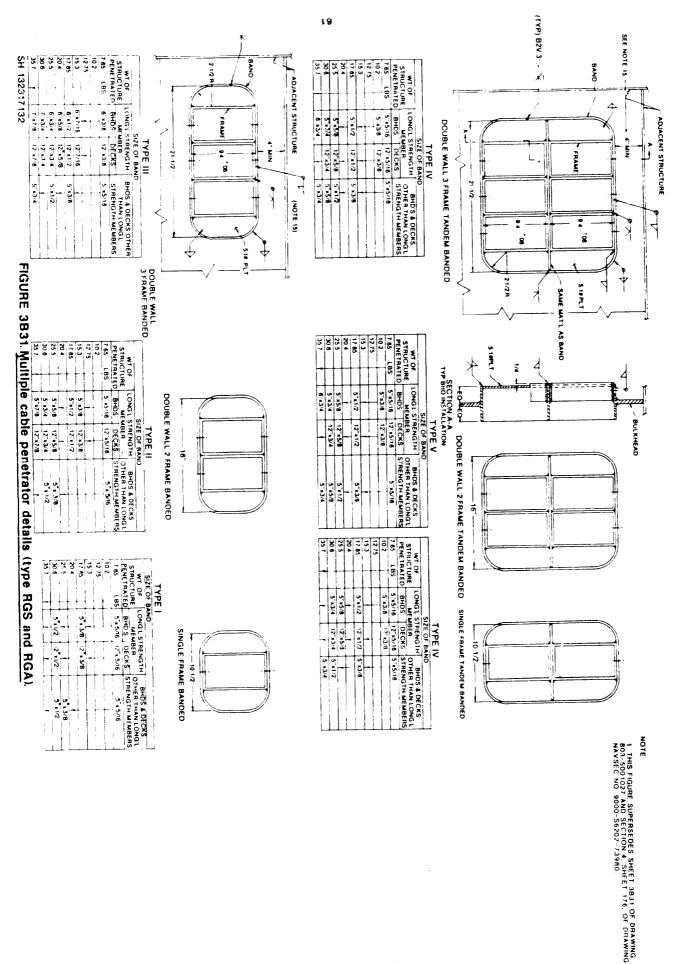
FIGURE 3832. Multiple cable penetrator installation details (type RGS and FIGA).



NOTES:

1. SEE FIGURE 3B27 NOTES 18 THROUGH 26 FOR ADDITIONAL DATA.

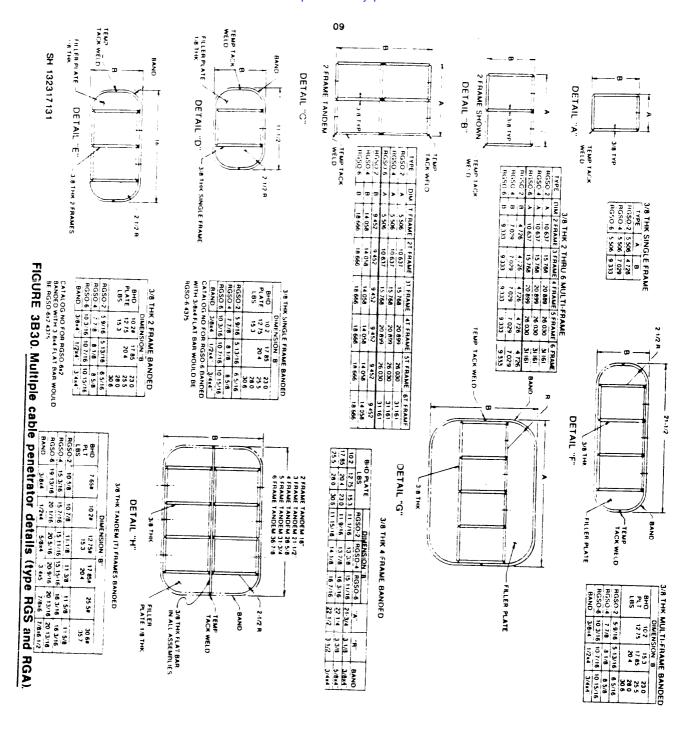
2. THIS FIGURE SUPERSEDES SHEET 3832 OF DRAWING 803-5001027 AND SECTION 4, SHEET 177, OF DRAWING NAVSEC NO 8000-58202-73980.



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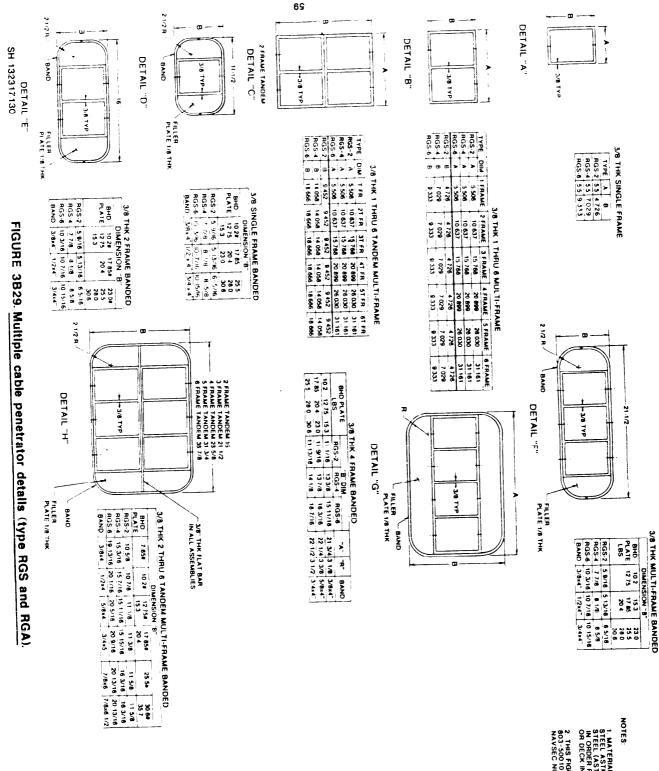
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NOTES

1. ROBO FRAMES AND FILLER PLATES ARE MILD STEEL ASTM A38 RENFORCING BANDS ARE EITHER MILD STEEL (ASTM A38 RENFORMATENSILE STEEL MIL-S-26898 M DODER FOR MATERIAL TO BE SIMILAR TO BULKHEAD OR DECK IN WHICH PENETRATION IS BEING MADE 2. THIS FIGURE SUPERSEDES SHEET 3B30 OF DRAWING 803-5001027 AND SECTION 4, SHEET 175, OF DRAWING MAYSEC NO 9000-58202-73980

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1. MATERIAL RGS FRAMES AND FILLER PLATES ARE MILD STEEL ASTM A36, REWFORCING BAADS ARE EITHER MILD STEEL (ASTM A36) OR HIGH TENSLE STEEL MIL-S-22680 NORDER FOR MATERIAL TO BE SIMILAR TO BULKHAD OR DECK IN WHICH PENET RATION IS BEING MADE 2. THIS FIGURE SUPERSEDES SHEET 3829 OF DRAWING 803-5001077 AND SECTION 4. SHEET 174. OF DRAWING NAVSEC NO 9000-S8202-73980

24 JUNE 1987 20D-STD-2003-3(NAVY) -

89

CABLE SUPPORT -1 USE APPROPRIATE METHOD MIL-STD-XXX-4 BANDED FRAME Æ N N 4 H C C 「肉肉」  $\overline{\varphi}$ R. F. S. BULKHEAD-ALUMINUM OR STEEL Ţ NIN.9 313281 IF 4" MINIMUM DIMENSION FROM TOP SIDE OF BANDED FRAME TO UNDERSIDE OF DECK CANNOT BE MAINTAINED ALTERNATE POSITION OF COMPRESSION BOLT WAY BE USED 16 MIN 90 MAX CABLE SUPPORT APPROPRIATE METHOD IN MIL-STD-XXX-4 DECK-ALUMINUM OR STEEL CABLE Q Ŷ Θ X2014 IFZ 12-1-12 Ż Ø -MULTIPLE CABLE FEMETRATOR Θ 000 000 Θ 1 THAT I -DECK ALUMINUM OR STEEL A ۲ م Θ COMPRESSION BOLT -COMPRESSION PLATE NEOPRENE NSERT BLOCKS PLATE NEOPRENE - SPARES 11 11 2 NOTES: 2. THIS FIGURE SUPERSEDES SHEET 3828 OF DRAWING 803-5001027 AND SECTION 4. SHEET 173, OF DRAWING, NAVSEC NO. 9000-58202-73890. II MALTIPLE CABLE PENETRA FOR FRAMES ARE AVAILABLE IN VARIOUS SIZES AND ARRANGMENTS SHOWN IS A TWO FRAME PENETRATOR. 24 JUNE 1987 24 JUNE 1987

FIGURE 3B28. Multiple cable penetrator installation in steel or aluminum bulkheads using two frame penetrator (type RGS and RGA).

SH. 132317120

 I MULTINE CABLE PRICENTOR IS A MODULAR SYSTEM THAT UTILIZES STANDARD UNITS AND DIMERSIONS TO ALLOW MAXIMUM ELIXIBUTY AND COMPATIBILITY WITH VARIOUS NUMBERS AND SIZES OF CABLES FINANCERS
 2 PUL ALL CABLE FINANCE COMPATIBILITY WITH ALCOW MAXIMUM ELIXIBUTY AND COMPATIBILITY OF FILE UNITS WILL PROVIDE WITH ALTONAL DEVICES OF ACCOMPLICATION OF DECK PENE THAT TO BE ACCOMPLICATE MADINE OF THE DEVICES OF CABLES FINANCERS IS A DEVICE THE MADINE OF THE DEVICES OF CABLES FINANCERS IS ALLOW TAXIMUM ELIXIBUTY AND CABLE STANDARD AND FILE PROOF BULKERS AND SIZES OF CABLES TIS METAATIVE THAT A REASONARE MADINAL OF BECK PENE THAT TO BE ACCOMPLICATE MODINE OF THE DEVICES OF MALE MINF FORM DECK PENE THAT TO THE PENE THAT BECK DECLULAR OF THE CABLE FINANCERS IS MULTINE CABLE FROM THE CABLE FINANCERS IS MALE IN THAT EACH CABLE BE OF THE WITHIN THE CABLE FENE THAT EACH CABLE BE OF THAT TO A BOAT TO M-SIDE PORTION OF THE FRAME AND THE CABLE FINANCERS IS ON MULTINE CABLE FROM THAT OF ALL CABLES THAT A PRATICULAR MIND THAT EACH CABLE STAND THAT A DEVICED SUBFACE OF THE COMPLESION THAT CONTREST BLOCKNIT FINANCES SIDE PORTION OF THE FRAME NAD THE CABLE FINANCERS SOLD BOATS AND CABLE STAND THE CABLE FUEL THE COMPLESION THAT CONTREST BLOCKNIT FINANCES FIND TO PACKING A TYPECAL ERENT TO THE CABLE AND SIDE PORTION OF THE FRAME NAD THE CABLE FINANCES FIND TO PACKING A TYPECAL ERENT TO THE CABLE AND SIDE PORTION OF THE FRAME NAD THE CABLE FINANCES FIND TO PACKING A TYPECAL ERENT TO THE CABLE FINANCES FIND TO PACKING A TYPECAL ERENT TO THE CABLE FINANCES FIND TO PACKING A TYPECAL ERENT TO THE CABLE AND SIDE ACT OF CALLED STIFT ACCOLARED SOUTH A PENAL A LIGHT TO THE CABLE TO SUBFACE OF THE COMPLEX AND THE CABLE TO SUBFACE OF THE MALE AND THE CABLE TO THE CABLE AND SIDE ACT OF ALL THE CABLE FINANCES FIND TO PACKING AT THE CONTON THE CABLE FINANCES FIND TO PACKING A TYPECAL ERENT AND THE CABLE FINANCES FIND TO PACKING AT THE CONTON THE CABLE AND SIDE ACT OF THE THAT THE CABLE FINANCES FIND TO PACKING AT THE CONTON THE CAB (A) SELECT INSERT BLOCKS AND SPARES FROM SHEET AND RREARE AS ABOVE (LUBRICANT AND SEALER WHERE REQUIRED: (B) STARTING WITH HEAVEST CABLE PLACE THE LOWER HALF OF THE 40/21 VISER BLOCK UNDER THE CABLE IN THE FRAME NEXT REPEAT THE PROCEDURE WITH THE 30/31 THEN ADD OME 200/57ARE ADD THE UPPERTALF OF THE 30/31 THEN ADD OME 200/57ARE ADD THE UPPERTALF OF THE 30/31 THEN CABLE THEN ADD UPPERT MALVES OF 20/13 MHD 20/19 UNDER CABLE THEN ADD UPPERT MALVES ACROSS THE TOP OF THESE ADD STAV PLATE BOOK UNDER THE LONG STAVE CABLE THEN ADD UPPERT MALVES ACROSS THE TOP OF THESE ADD STAV PLATE BOOK UNDER THE INSCABLE IN THE ADD STAV PLATE BOOK UNDER THE INSCABLE IN THE ADD THE LOWER HALVES OF 20/23 UNITER ITS CABLE IN THE HALF OF 200 AND 20/11 UNDER THE INSPECTIVE CABLES THEN ADD UPPERT MALVES OF 20/23 UNITER ITS CABLE IN THE HALF OF 200 ADD 20/11 UNDER THE INSPECTIVE CABLES THE ADD STAVE PLATE IN 2 (D) ADD COMPENSION PLATE TO THE FRAME. (SCALE 3/4) MULTIPLE CABLE PENETRATORS 3/02 0/05 0/02 20/01 20/02 20/02 20/02 20/02 20/0 30/0 ۲ 20/0 I FIGURE NO 7 C1/0C 30/15 40/28 闺 RGS AND RGA 5 20.0 50/32 20/02 20/0 Ð COMPRESSION BOLT - ENDI PACICING ASSEMBLY ---- 3/8-16 HEX NUT - STAY PLATE NO 2 - STAY PLATE NO 1 COMPRESSION PLATE FRAME FIGURE 3B27. Multiple cable penetrator installation notes (type RGS and RGA)

(E) LIFT COMPRESSION PLATE CLEAR OF STAY PLATE NO 2 ADD FINAL ROW OF SIX 200 SPARES LOWER COMPRESSION PLATE TO THIS LEVEL. SION PLATE TO COMPRESSION BOLT DOWN ON COMPRES-SION PLATE TO COMPRESSION BOLT DOWN ON COMPRES-IN COMPRESSION PLATE COMPRESSION BOLT PLATE IN FIGURATER COMPRESSION BOLT SIZE FOR DACK-ING ASSEMULT PLATE COMPRESSION BOLT SIZE FOR DACK-ING ASSEMULT DO ASSEMITIR COMPRESSION BOLT SIZE AND TIGHTEN USE HOUGH CLEARANCE TO INSERT END PLACK INFRAME AROUND THE COMPRESSION BOLT REASTERING SIGHT FAULT OF THE MATERIAL AROUND THE END PLACK-INGER VARIES BACKOFF COMPRESSION BOLT ARASSEMENT AND TIGHTEN USE IN MATERIAL AROUND THE END PLACK-INGER VARIES BACKOFF COMPRESSION BOLT ARASSEMENT AND TIGHTEN USE IN MATERIAL AROUND THE END PLACK-INGER AND THE AND THE CARL PERVITAIN THE INFO SIGHT AND THE AND THE CARLE PENTATION FRAME INTO INFO A TURK PLACKING IN NOC COMPLETE A TURK PLACED BILT SIGNAL FROM THE BOLTON PLACKING DIATA WAS AND BUT IN SCALE FOR THAT THE COMPRESSION BUT IN STALLED IN A STRUCTURE IN SUCH A MANNER THAT THE COMPRESSION BUT IN SCALE FOR THAT THE COMPRESSION BUT IN SCALE FOR THAT THE COMPRESSION BUT IN SCALE FOR THAT THE COMPRESSION BUT IN SCALE FOR THAT THE INSTALLED IN A STRUCTURE IN SUCH A MANNER THAT THE COMPRESSION BUT IN SCALE FOR THAT THE INSTALLED IN A STRUCTURE IN SUCH A MANNER THAT THE COMPRESSION BUT IN SCALE FOR THE ANTON THE FORT THE INSTALLED IN A STRUCTURE IN SUCH A MANNER THAT THE COMPRESSION BUT IN SCALE FOR THE ANTON THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT THE FORT AVALVABLE AVALVABLE 6 TELEVATE ALL WORK FROM SHIP 7 ALL WELDIKA AND INSPECTION TO BE IN ACCORDANCE WITH MIL STOTZ 8 ALL PAINTING TO BE LONE IN ACCORDANCE WITH MIL-ENT 9 THE STRUCTINAL REINFORCEMENT SHOWN ON THIS PLANDOES NOT APPLY TO FLICHTORCK BENTS FUICHTORCK SUPPORT STRUCTURAL REINFORCEMENT SHOWN ON THIS 9 THE STRUCTURAL REINFORCEMENT SHOWN ON THIS 9 THE STRUCTURAL REINFORCEMENT SHOWN ON THIS 9 THE STRUCTURAL OF DREINFORCEMENT STO BE SIMULATO 11 THIS PLAND, OF BHD DECK OR RESERVOUSLILLY 10 MATERIAL OF BHD DECK OR RESERVOUSLILLY DE SIMULATO 11 THIS PLAND OF BHD DECK OR RESERVOUSLIL STO BE SIMULATO 11 THIS PLAND OF BHD DECK OR RESERVOUSLIL STOTE STRUCTURE OF SUPPLIES UNS STOTER THAW IN PROTECTIVE FLAITED 11 THIS PLAN WAS DECENDED TO FLOREN OF SIMULATO SUPPLIES AND STRUCTURE OF DEPINION OF SUBLIACE SHIPS 12 THE BHOS AND DECKS WHICH ARE CONSIDERED TO 13 THE BHOS AND DECKS WHICH ARE CONSIDERED TO 13 THE BHOS AND DECKS WHICH ARE CONSIDERED TO 14 THE BHOS AND DECKS WHICH ARE CONSIDERED TO 15 THE BHOS AND DECKS WHICH ARE CONSIDERED TO 15 THE BHOS AND DECKS WHICH ARE CONSIDERED TO 15 THE BHOS AND DECKS WHICH ARE CONSIDERED TO 15 THE BHOS AND DECKS WHICH ARE CONSIDERED TO 16 LONGATUDINAL STRENGTH MELMERS ARE DEFINED IN MAYSHIPS DESIGNAVATION OF IN A NOTSIDE PLATING, UPPER-MOST STRENGTH ECKLINNER BOTTE FIFTIS ELRANDTH IF MASHIPS DESIGNAVATION OF IN A DOWN OF AND THE RANGENTH DECKS WITHIN THE MUSINE THREE FIFTISS ENDERING IN THE THERE IS DIFFICULT IN DEFINITION CONSULT WITH 17 THERE IS DIFFICULT IN DEFINITION CONSULT WITH 17 THERE IS DIFFICULT IN DEFINITION CONSULT WITH 17 THERE IS DIFFICULT IN DEFINITION CONSULT WITH 17 THERE IS DIFFICULT IN DEFINITION CONSULT WITH 17 THERE IS DIFFICULT IN DEFINITION CONSULT WITH 17 THERE IS DIFFICULT IN DEFINITION CONSULT WITH 17 THERE IS DIFFICULT IN DEFINITION CONSULT WITH 17 THERE IS DIFFICULT IN DEFINITION CONSULT WITH 17 THERE IS DIFFICULT IN DEFINITION CONSULT WITH 17 THERE IS DIFFICULT IN DEFINITION CONSULT WITH 17 THERE IS DIFFICULT (A) THE FRAME IS PACKED FROM THE BOTTOM UP WITH THE SWALLED CALLER FRAME IS PACKED FROM THE BOTTOM UP WITH THE SWALLED CABLES BRIVD PACKED FRAME LOOSEN THE 5 TO ADD A NEW CABLE TO A PACKED FRAME LOOSEN THE 30-16 HEX XUTS AND REMOVE THE KID PACKING ALT X. WASHERS, TIGHTEN THE COMPRESSION BOLT UNTIL END PACKING INSERT MATERIAL IS LOOSEN REMOVE CHEMSET IN TERIAL FROM FRAME LOOSEN COMPRESSION BOLT AND LIFT COMPRESSION PACHE LOASEN COMPRESSION BOLT AND IFT COMPRESSION THE CLEAR OF TOP SIX 200 SPARES REMOVE THESE INSERTS REMOVE COMPRESSION BOLT AND INTER AL FROM FRAME LOOSEN COMPRESSION BALE IS AVAILABLE A TELING THE IN WISH TO REMOVE COMPRESSION FRAME IS AVAILABLE

STRUCTURAL DÉSION I CARE SIQUED BETAKEN WHILE INSTALLING WULTPLE I CARE SIQUED BETAKEN WHILE INSTALLING WULTPLE PROTRUCES THAU BHO SUFFICIENTLY TO WELD INFO PROTRUCES THAU BHO SUFFICIENTLY TO WELD INFO PROTRUCES THAU BHO SUFFICIENTLY TO WELD INFO ARTES JOD DOI THACK TO MAINTAW A MINIMUM OF 778 FROM BHO TO BOLT HOLE ENTRE ON HOR TO ULTAR WELDING KLANNE FOR CRACKS AND SWAPE EDOES INTERNATION OF COMPRESION BOLT FROM BOLT HOLE SIDE OF C'TO TO ANY STRUCE AND THE BUTTO READ BHO TO BOLT HOLE CENTER FOR WERKEN I STALLATION OF COMPRESION BOLT FROM BOLT HOLE SIDE OF C'TO TO ANY STRUCE TO BHO OF 765/PLT OF READ BHO TO SUT STRUCTURED IS FREEN BOX TO BE ATTACKE TO BHO OF 765/PLT OF READ BHO SUT US ANT THE PRICE TO HOLO F 765/PLT OF READ FOR TO BOLT HOLE CENTER FOR WERKEN I TA FTER INSTALL ATON IS COMPLETE ENTRE PENFTRATOR MAY BE PANTED TO SUIT SURROWNING STRUCTURE MACCORDANCE WITH THE GEVERANCE I TA FTER IN ACCORDANCE WITH THE GEVERANCE SUB OF C'TO TO ANY STRUCTURED IS FEER AND TO BE AND THE BACK OF THE BOLT ADJOENT TO READ FOR THE BACK OF THE RISE BOX AND THE BHO I TA FTER IN ACCORDANCE WITH THE GEVERANCE SUB OF C'TO TO ANY STRUCTURED TO SUIT SURROWNING STRUCTURE MACCORDANCE WITH THE GEVERANCE SUB OF C'TO TO ANY STRUCTURES I SECRETARION AND SUT SUB SURROWNING STRUCTURE MACCORDANCE WITH THE GEVERANCE SUB OF C'TO TO ANY STRUCTURES I SECRETARION AND SUT SUB SURROWNING STRUCTURE MACCORDANCE WITH THE GEVERANCE SUB OF C'TO TO ANY SECONDIC WITH THE GEVERANCE AND SUBJECT OF THE BACK OF THE SUB SUBJECT OF DISTING STRUCTURE MACCORDANCE WITH THE GEVERANCE WITH TO AND SUBJECT OF DISTING SUBJECT OF DISTING SUBJECT OF DISTING SUBJECT OF SUBJECT OF DISTING SUBJECT OF DISTING SUBJECT OF SUBJECT OF DISTING SUBJECT OF DISTING SUBJECT OF SUBJECT OF DISTING SUBJECT OF DISTING SUBJECT OF SUBJECT OF DISTING SUBJECT OF DISTING SUBJECT OF SUBJECT OF DISTING SUBJECT OF DISTING SUBJECT OF SUBJECT OF DISTING SUBJECT OF DISTING SUBJECT OF SUBJECT OF DISTING SUBJECT OF DISTING SUBJECT OF SUBJECT OF DISTING

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## INSTALLATION NOTES

NOTES

INSTALLATION NOTES

MULTIPLE CABLE PENETRATORS RGSO AND RGAO

10 TEMPORARILY INSULATE CABLE FOR PROTECTION AGAINST WELDING AND BURNING 11 REMOVAL DATA STRUCTURE 20 PREPARE HOLE IN BULKHEAD TO RECEIVE MULTIRE 24 DRE PRICE RATOR FLANK (DESIGNATLD 'RISO'D' INCTURE 25 DRE PRICE RATOR FLANK (DESIGNATLD 'RISO'D' INCTURE 27 STOREGATE AND CONTINE REQUIRED CABLES WITHIN EACH THREE SUDD FAM. 27 STOREGATE AND CONTINE REQUIRED CABLES WITHIN EACH THREE SUDD FAM. 27 STOREGATE AND CONTINE REQUIRED CABLES WITHIN 29 STOREGATE AND CONTINE REQUIRED CABLES WITHIN 20 STORM PECE AND CONTINE REQUIRED CABLES WITHIN 20 STORM STORE OF AND CONTINE REQUIRED CABLES WITHIN 20 STORM STORE OF AND CONTINE REQUIRED CABLES REMACE 20 STANA WEIDERS BLANKET AND UNDER STORE DO TO THE 20 STORM STORE OF BULKHEAD TO PREMIT CLEARANCE 26 DAT FECE OLARDESSION SOF WILL AND AND FEASE 27 BOUT FROM FACE OF BULKHEAD TO PREMIT CLEARANCE 29 STICK SOT FAALE ON BUTH STORE SOF BULKHEAD 20 STORE STAND OF AND THE SOF BULKHEAD 20 FRAME OF BULKHEAD WITH CONTINUOUS WELD 21 LARDUNG FRAME TO BULKHEAD THE CONTINUOUS WELD 24 LARDUNG FRAME ON BOTH STORE SOF BULKHEAD 26 PROCEED AS ULTINED IN NOTE 3

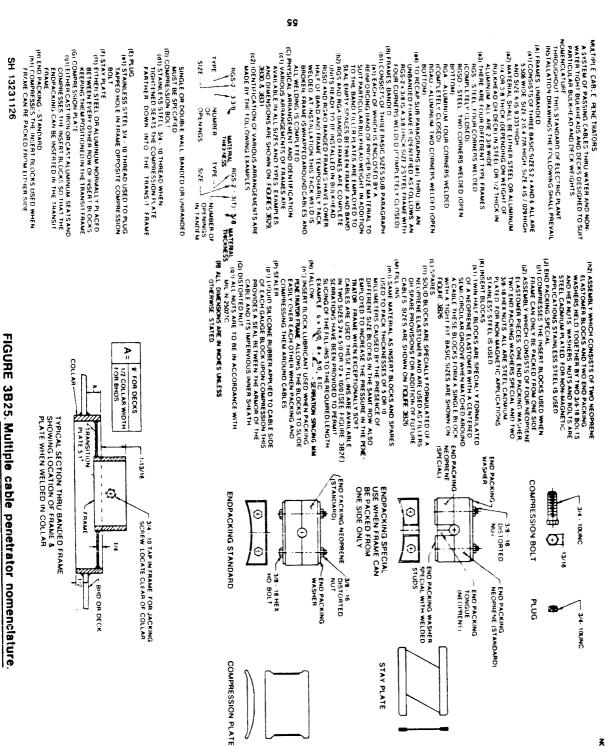
I THE TABLES AND DIMENSIONS SHOWN ON THESE SHETTS ARE FOR TYPICLE, STEEL INSTALLATIONS OTHER WHOLE SITUATIONS SHALL BE HANDLED AS A CASE - BY - CASE BASIS THROUGH THE STRUCTURES DEPARTMENT.

NOTES

2. THIS FIGURE SUPERSEDES SHEET 3827 OF DRAWING 803-5001027 AND SECTION 4. SHEET 172. OF DRAWING. NAVSEC NO. 8000-S6202-73890

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	NOTES I. THE FOLSE SUPERSEDS SHEET 1828 OF PRAVMAG B03-500 1027 MD SECTION A. SHEET 177, OF DRAVMAG	FILL-INS IDENTIFICATION EXAMPLE PART NO 24-540 PART NO 24-540 S MA SPACED SERRATION LENGTH- 24-5-120 MA-4724 INCHES	SPACED IS RELOWNENDED IN	2352 40 40 40 40 40 40 40 40 40 40	NSDE DUMETER

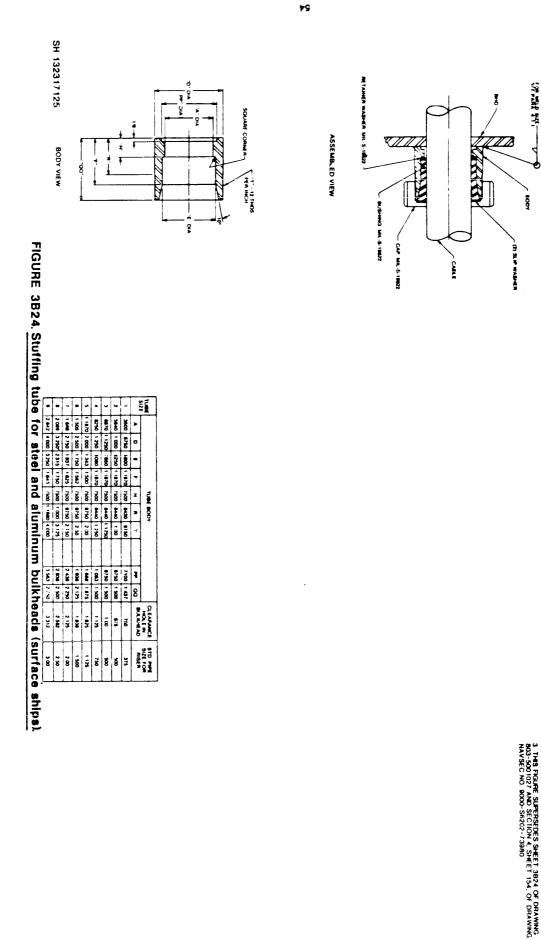
FIGURE 3825. Cable information and assignment for MCP insert blocks.



NOTES

1. MALTPLE CABLE PENETRATIORS SHALL NOT BE USED IN BULKHEADS OF DECKS WHICH ARE EXPOSED TO THE WEATHER

2 FOR AL TERNATE MALTIPLE CABLE PENETRATOR DESKIV SEE 3828 THRU 3868 3 THIS FOLME SUPERSEES SHEET 3923 OF DRAWING 803-5001027 AND SECTION 4 SHEET 170. OF DRAWING, 104VSEC NO 90YO 55/Y2-73190



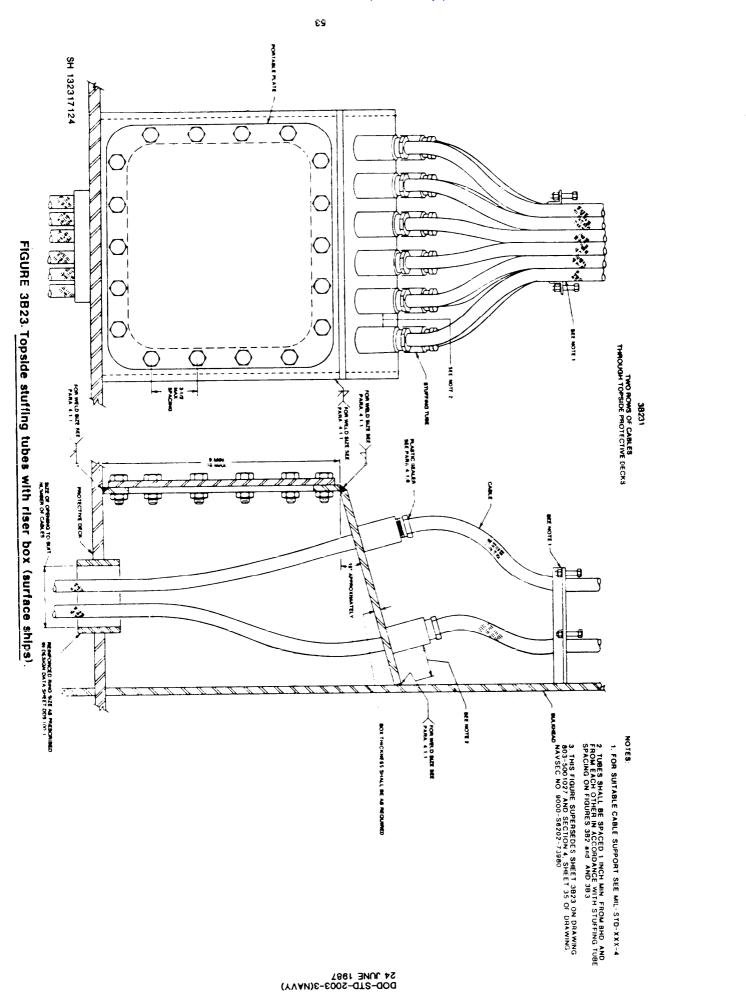
54 10NE 1887 DOD-STD-2003-3(NAVY) (ASBEMBLED VIEW AND BODY VIEW)

381241

NOTES

2. THESE STUFFING TUBES ARE AUTHORIZED FOR USE ONLY ON WEATHER DECKS IN DECK HOUSE BULKHEADS AND BELOW DECKS ABOVE THE TIGHTNESS LEVEL IN SURFACE SHIPS

1. METHOD 3824 IS FOR WELDING TO KICK-PIPE (RISER) AND BULKHEADS



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FIGURE 3C9. Nylon stuffing tubes cable assignment (obsolete or discontinued cable).

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		20-0003	21-0001	22-0001	23-0004	24-0004			24-0001	24-0001	24-0001		23-0006	23-0006	23-0006		21-0001	22-0002	23-0006	24-0003	24-0006	-	19-0005	19-0006	20-0002	20-0006	21-0001	21-0004	21-0006	21-0007	22-0002	23-0002						 
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	19-0001	2000-61	19-0004	20-002	20-002	20-003	20-006	20-0010	20-0010	21-0001	21-0003	21-0005	22-0001		19-0001	19-0002	19-0004	19-0005	19-0006		18-0018	19-0001	18-0018	19-0003		19-0003	21-0005	22-0002	23-0004	24-0002		19-0003	18-0018		19-0003	19-0007		
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		<b>•</b>	2-2593 -0	202-2600 -14	202-2602 -23	20-0009 202-2607	202-2614 FRIP-3		19-0003 202-2593	FT-2 1		202-2590	FTS-2 1	- ç	19-0005 202-2595	202-2597 GICA-2 4T	19-0008 202-2599	202-2600 GICF-7 4T	-10 4T	202-2603 -14 5	•			202-2599 -30 7	202-2600 -37 7	44-	2-2602 GICP-2 4		MA-14 2	19-0003 202-2583	Ļ	202-2589	MCMB-7 4T	19-0002 202-2592	19-0004 202-2594	19-0006 202-2596	_	 
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NOTES NOTES NH -C-2194, NH -C-3206, AND MI -C-2115, NH -C-915, NH -C-2194, NH -C-23206, AND MI -C-2115, AND AFE OBSOLETE OR MANUFACTURING HAS BEEN COBSOLETE OR MANUFACTURING HAS BEEN 2. THIS FIGURE SUPERSEDES SHEET 3C9 OF DRAWWG 2. THIS FIGURE SUPERSEDES SHEET 3C9 OF DRAWWG 3. THIS FIGURE SUPERSEDES SHEET 3C9 OF DRAWWG DRAWWG MAVSEC NO 900-S6702-73980.

M. MAT ND NSH 5330-00-

TUBE SIZE

PACKING ASSEMBLY ML PHIT ND MEM 5330-00-UI96221/

TUBE SIZE •

PACKING ASSEMBLY ML MAT ND NBH 5330-00

TUBE SIZE e

NSN 3330-00

PACKING ASSEMBLY ML PART NO RSN 3330-00

TUBE Size 9

CABLE

PACKING ASSEMBLY

202-2613

21-0005

MDGL-19(6) 6 CABLE

202-2590

16-0018

MCOP-2 CABLE

202-2590

16-0018

FRI8-3 CABLE

202-2614

21-0006

FCSF-66

DOD-STD-2003-3 (NAVY) 24 JUNE 1987

discontinued cable). 202-2583 202-2583 202-2584 202-2592 202-2594 202-2594 202-2595 202-2596 202-2596 202-2599 202-2599 202-2599 202-2604 202-2604 202-2606 202-2606 202-2611 202-2616 202-2617 202-2620 202-2629 202-2580 202-2582 202-2582 202-2584 NSN 5330-00 202-2583 ASSEMBLY PACKING 01 100 m 21-0005 22-0001 22-0002 23-0002 24-0002 16-0003 16-0005 16-0003 16-0004 16-0005 20-0003 20-0004 20-0010 21-0003 16-0004 19-0003 19-0004 19-0005 19-0006 19-0007 19-0008 20-0002 20-000 16-0001 16-0004 19-0002 SIZE - 4 4 4 4 4 4 4 4 9 9 - - - - - --۲ ~ ~ . . ŝ ٠ Շ SRLL-4 SRIA-3 8 φ e, 1 2 SLPA-4 ę 2 8 8 9 8 8 2 assignment (obsolete CABLE 202-2616 202-2615 202-2617 202-2616 202-2620 202-2621 202-2621 202-2611 202-2613 202-2608 202-2612 202-2614 202-2616 202-2616 202-2618 202-2620 202-2622 202-2625 202-2612 202-2591 NSN 5330-00 202-2590 202-2594 202-2595 202-2595 202-2599 202-2599 202-2599 202-2599 202-2602 202-2605 202-2618 766-8711 202-2603 202-2585 ASSEMBLY (122961M PACKING 21-0007 23-0005 20-0004 20-0005 20-0007 20-0010 22-0001 22-0003 23-0001 21-0005 22-0002 22-0001 23-0001 23-0003 23-0002 18-0018 19-0004 19-0005 19-0005 19-0008 19-0008 20-0002 21-0004 22-0006 22-0003 21-0004 22-0001 1000-61 10-000 16-0006 cable Size ţ • • ~ ø ~ ~ • \_ ŝ ŝ ŝ ÷ ŝ ٠ ÷ ~ ~ ~ ~ 0 0 0 **9** 9 9 (3)-500 **Ş** SHFR-4 8 001 8 8 8 ŝ 8 8 8 8 ₿ 3 8 SHFA-3 9 2 8 8 **ş** Ş 8 2 8 125 8 88 FIGURE 3C10. Nylon stuffing tube 7 CABLE SHFPĉ ė Ć SHFL 202-2614 202-2616 202-2611 202-2616 202-2599 202-2600 202-2612 N340-00 202-2615 202-2615 202-2617 202-2617 202-2623 202-2628 202-2593 202-2595 202-2595 788-8711 202-2606 -2611 202-2592 202-2593 202-2584 202-2597 202-2603 2630 202-2591 PACKING ASSEMBLY ĝ ĝ L PART NO MID4221/ 19-0004 19-000 t 20-0002 20-003 20-0005 20-0008 21-0004 21-0006 22-0001 19-0033 5000<del>-</del>61 21-0003 21-0005 21-0007 22-0002 23-0004 23-0004 24-0003 21-0003 19-0002 19-0003 1000-61 1 TUBE SIZE 6 r 6 <u>ه</u> . . . . . 500 650 1000 1300 2000 2000 SDU-500 SF PA-9 Ξ 8 ĝ CABLE SDGA 202-2589 202-2607 202-2609 202-2628 8 202-2620 202-2580 202-2593 788-8711 202-2599 202-2590 788-871 202-2604 202-2607 202.2590 202.2591 202.2594 202.2594 709.2600 202.2609 202.2609 202.2609 202.2609 202.2609 202.2613 202.2613 202.2613 202.2613 202-2615 202-2590 202-2592 2590 202-2594 202-2602 202-2607 2590 -2604 NGK 5330-0 PACKING ASSEMBLY Ś 202-Ś ş 20.0009 20-0003 20-0009 20-0006 20-0009 23-0002 17-0004 19-0003 20-0003 21-0001 24-0001 20-0006 20-0004 19-0004 16-0001 20-0010 20-0010 18-0018 19-0008 19-0004 20-0002 20-0003 20-0006 21-0003 21-0005 18-0018 19-0002 18-0018 18-0018 19-0001 21-0001 18-001 000 1 PANT 2. 132317177 - ~ + ~ ~ ~ ~ ~ 32S 5 F 5 e 1 e e 9 ç 9 3 SCP-1 23 200 200 253 A14 PBJX-4 PBTM-5 9 15 PBTX-4 53 99 35 153 200 250 253 800 MHFF-2 ç 2 6 ~ 33 SCOP CABLE Ъ₿

NOTES: I. THE CABLE LISTE ON THIS SHEET ARE PER ML-C-2915, ML-C-2194, ML-C-22206 AND ML-C-24145 SMD ARE OBSOLETE OR ML-C-24145 SMD ARE OBSOLETE OR ML-UE-24145 SUPPRISEDES SHEET 3C10 OF DRAWING 803-56001027 AND DRAWING, MAVSEC MO9000-56202-73880.

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24 JUNE 1987

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NOTES: 1. THE CABLES LISTED ON THIS SHEET ARE PER MIL-C-914, MIL-C-23206 AND MIL-C-21415 AND ARE OBSOLETE OR MANUFACTURING MAS BEEN DISCONTINUED.

2. THIS FIGURE SUPERSEDES SHEET 3C11 OF DRAWING 803-5001027 AND SECTION 4. SHEET 88-73. OF DRAWING. NAVSEC NO 9000-58202-73880.

FIGURE 3C11. Nylon stuffing tube cables assignment (obsolete or discontinued cable).

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DOD-STD-2003-3 (NAVY) 24 JUNE 1987

	THE CARLES LISTED ON THE SUPER AND
	I. THE CADLES LISTED ON THIS SHEET ANE
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100 000	AND MIL-C-24145 AND ARE OBSOLETE OR
	MANUFACTURING HAS BEEN DISCONTINUED
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const. cont	2. THIS FIGURE SUPERSEDES SHEET 3C12
2002-202	OF DRAWING B03-5001027 AND BECTION 4.
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202-2612	NAVSEC NO. 9000-56202-73980
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202-2620	
202-2622	
202-2625	

NOTES:

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25WA-3 CABLE

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IS75MA-8 CABLE

NSM 5330-00 PACKING ASSEMBLY

MI PART NO

Size

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PACKING ASSEMBLY ML PAT NO NBH 5330-00 UIG0221/

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202-202 202-2625 202-2631 DOD-STD-2003-3 (NAVY) 24 JUNE 1987

discontinued cable). P FIGURE 3C12. Nylon stuffing fubes cable assignment (obsolete

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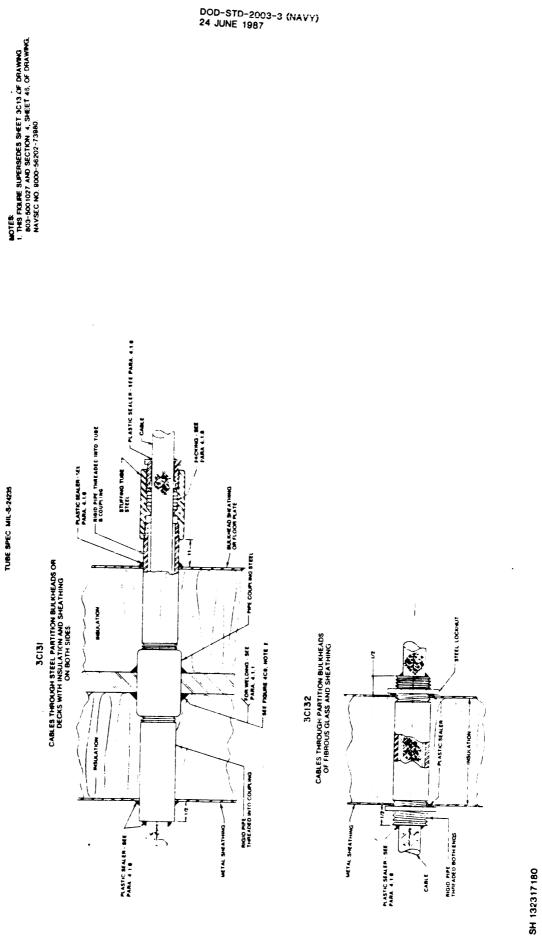
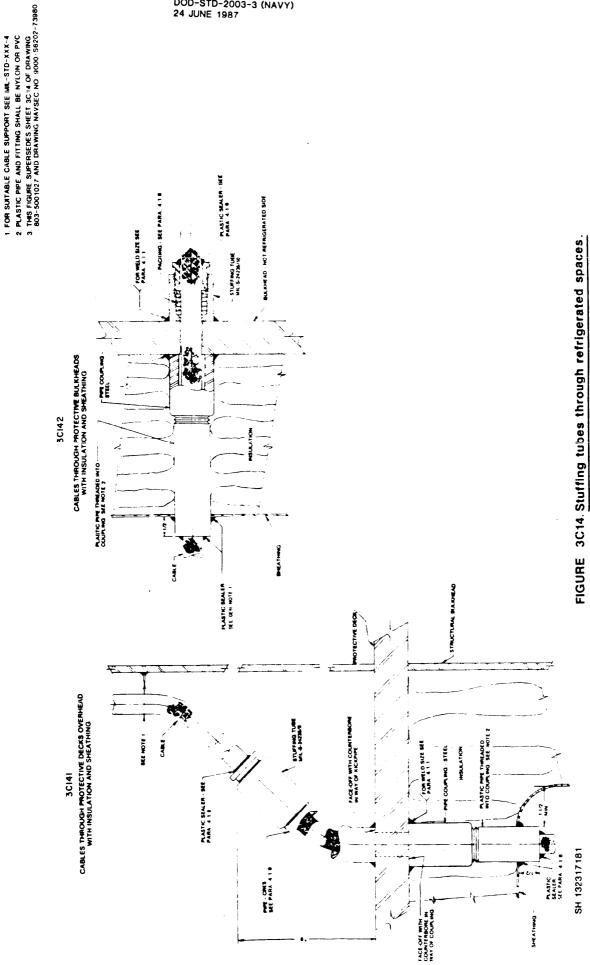


FIGURE 3C13. Stuffing tubes through refrigerated spaces.



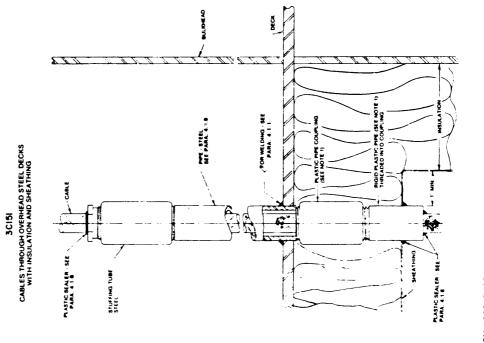
NOTES

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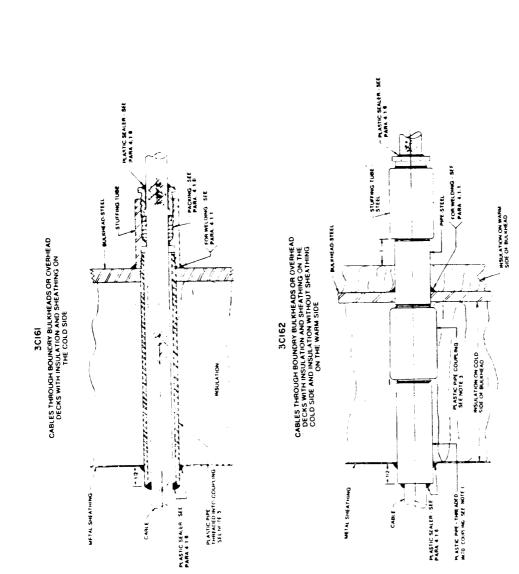
DOD-STD-2003-3 (NAVY) 24 JUNE 1987



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# FIGURE 3C15. Stuffing tubes through refrigerated spaces.







## 2. STUFFING TUBES ARE LOCATED PREFERABLY ON THE WARM SIDE OF BOUWDRY BULKHEADS OR OVERHEAD DECKS 1. CABLE ENTRANCE TO REFINGERATED SPACIES PREFERABY THROUGH BULKHEADS OR OVERHEAD DECKS 3. PLASTIC PRE AND FITTINGS SHALL BE NYLON OR PVC 4. THIS FIGURE SUPERSEDES SHEET 3C16 OF DRAWING 803 5901027 AND SECTION 4. SHEET 45. OF DRAWING NVVSEC NO 9000-567027 73990

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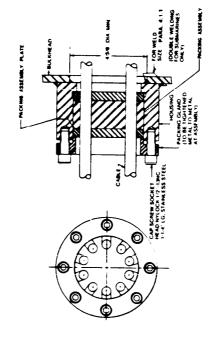
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## FIGURE 3C17. Community stuffing tubes for bulkheads.

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DOD-STD-2003-3 (NAVY) 24 JUNE 1987 BY VARYING SIZE TO SUIT THE NUMBER! AND SIZE OF CABLES GROMMET SHALL REMAIN NEOPHRENE OF 4()-45 DUROMETER 6. POSITION STUFFING TUBE SO THAT PACKING QLAND IS ON and gland fing shall be brass. Other changes may be OF HOUSING THICKNESS AND FLANGE THICKNESS PROVIDING WORKING PLAN. THE SUBMISSION OR PREPARATION OF PLANS TO BE ACCOMMODATED AND THE SPECIFIED MATERIAL MAY MADE TO LIGHTEN THE CONSTRUCTION SUCH AS DECREASE 3 FOR WOOD CONSTRUCTION, HOUSING SHALL BE DESIGNED SHOWING DETALS OF ACCOMPLISHING THE NETHOD OR THE CONSTRUCTION URED FOR SINGLE CABLE STUFFING TUBES THE MOST ACCESSIBLE SIDE OF BALLAIST TANK PARTITION. 1. THE DESKIN SHOWN HEREON IS FOR USE FOR PASSING BULKHEAD FIITTINGS FOR SUBMARINES SHALL WITHSTAND 2. THIS METHOD IS ALSO APPLICABLE TO SURFACE SHIPS GLAND RING IS THREADED INTO HOUSING USING THE SAME 5. THIS SHEET SHOWING METHOD 3C171 IS CONSIDERED A MAXIMUM PRESSURE OF 45 PSI AND CONFORM TO SPEC REGARDING BULKHEAD STRENGTH AND TIGHTNESS MUST DESIGN FOR SURFACE SHIPS SHALL WITHSTAND ARMANN 4. RADIAL STAGGERBING OF CABLES TO ATTAIN MAXIMUM BE CHANGED TO SHIT THE SHIPPUILDER EXCEPT THAT PERMISSIVE NOTES: THEREFOR, ON THIS SHEET IS NOT SUBMARINES AND IS A TYPICAL INSTALLATION ONLY CABLES THRIOUGH BALLAST TANK BULKHEADS FOR with a suitable flange for securing to wood SATISFACTORY. HOWEVER REQUIREMENTS OF GSS ACCEPTANCE OF CABLES IN MINIMUM SPACE IS PRESSURE OF 15 PSL **BE MANTANED.** ML-S-24236. BULKHEAD. REQUIRED. NOTEB



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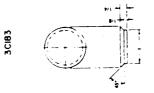
7. This figurae supersedes sheet 3C117 of drawing

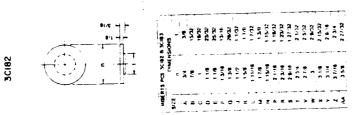
805-5001027/MD SECTION 4, SHEET 144, OF DRAWING

NAVSEC NO. 6000-36202-73980.

## DOD-STD-2003-3 (NAVY) 24 JUNE 1987 2. FOR CABLE ASSIGNMENT SEE FIGURES 3C3 THRU 3C12 INSERTS PC 3IC181, 3C182 & 3C183 MAY BE MADE OF (A) POLYAMIDE (NYLON) PLASTIC: SIPEC MIL-M-20693. (B) LAMIIATE() PLASTIC, SPEC. MIL-P-15037, (D) FIBER, SPEC. MIL-F-1148. GRADE "CH" FORM "R" 6. THIS FWURE SUPERSEDES SECTION 1, SHEET 43, OF DRAWING, NAVSEC NO 9000 - 58202--73980. 4. INSERTS, PCS 3C182 & 3C183 USED WITH STEEL 3. INSERT, INC. 303181 USED WITH NYLON STUFFING OF MISULATING VARMISH, SPEC, MIL-V-13487 (C) MOLDED IMENOLIC TYPE MAI-60. MIL-M-14. OR "S". THE FIBER SHALL BE GIVEN A COAT STUFFING TURES, ML-S-24235, DRAWN AND THE LAMINATIONS SHALL BE PARALLEL TO 1. FOR METHOD OF SEALING CABLE ENDS SEE THE FACES OF THE INSERT. THE FOLLOWING MATERIALS: MACHINED RESPECTIVELY. TUBES , MIL-\$-19622 PARA, 4.1.6 ø

NOTES:

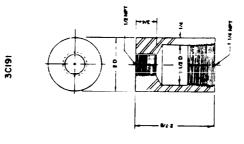






NOTES. 1. MATEMAL TO BE STEEL ASTA GRUDE A39 OR ASTA GRUDE A441 2. THIS FRAME SUFERSEDES SHEET 30.19 OF DIAMANG 2. THIS FRAME SECTION 345

2. THAS FIGURE SUPERBEDES SHEET 3019 OF DIAMMAG 800-600 1027 ANE) SECTION 1. SHEET 81 OF DRAWING MAV28EC NO 90001-95202-73860



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FIGURE 3C20. NOT USED

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THIS SHEET INTENTIONALLY LEFT BLANK

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FIGURE 3C21. Nylon stuffing tubes cable assignment.

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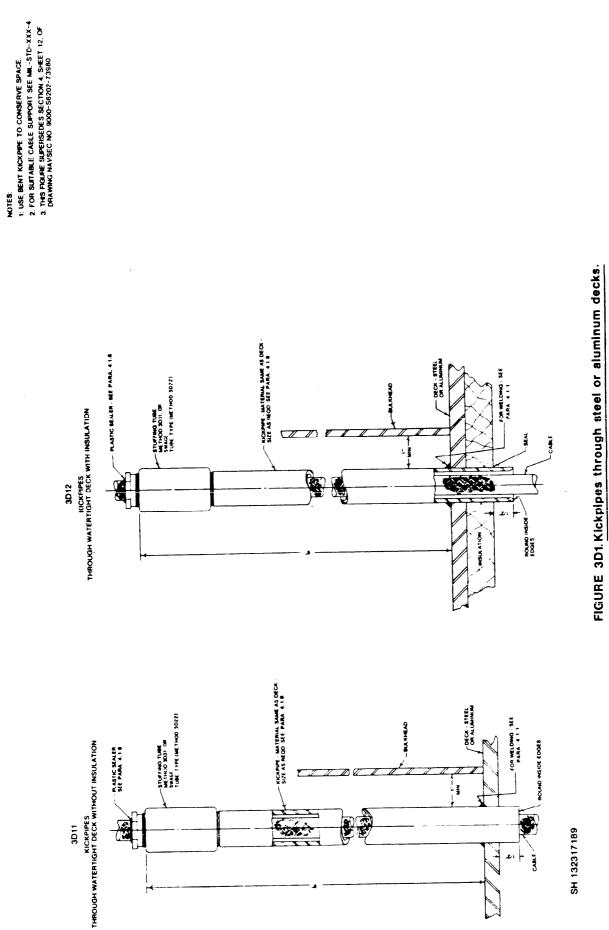
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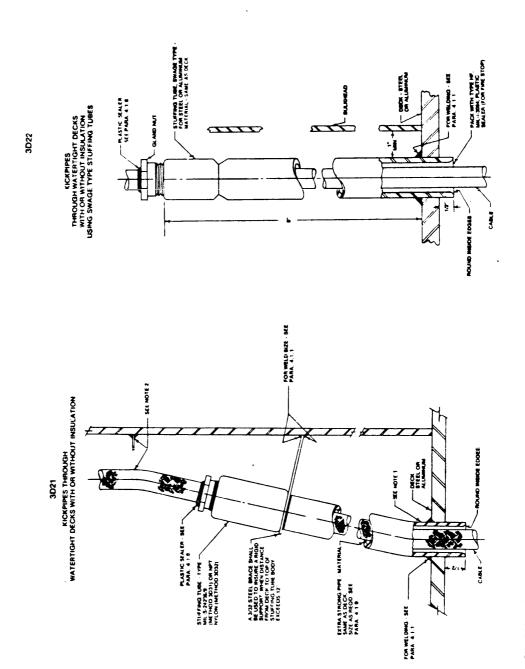
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FIGURE 3D2. Kickpipes through steel or aluminum decks.

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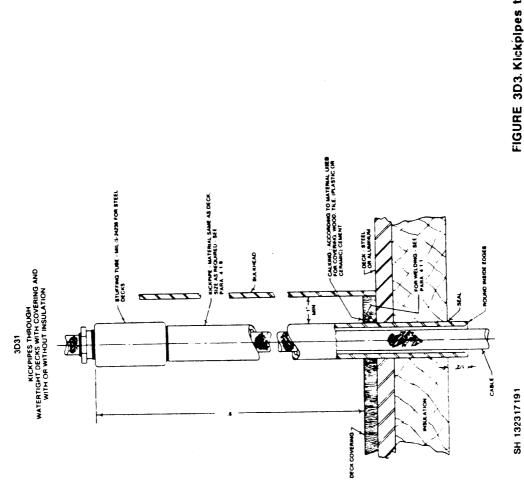
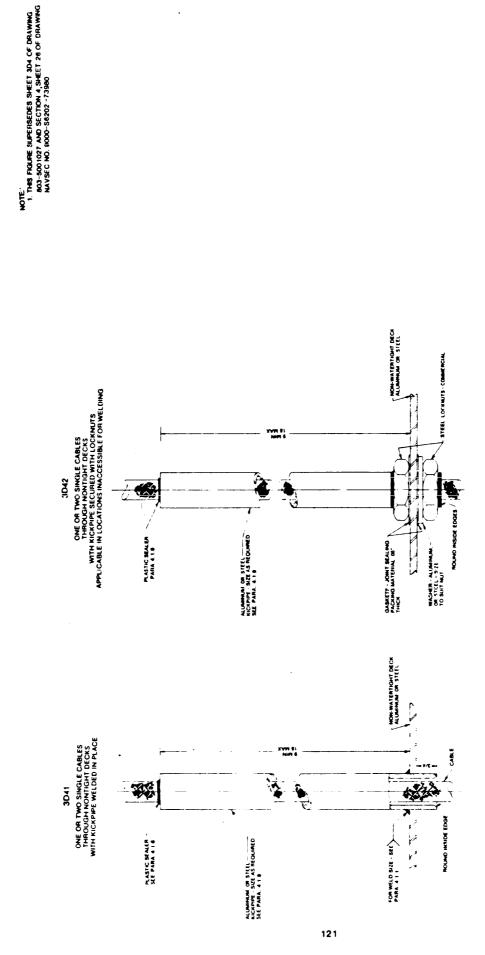
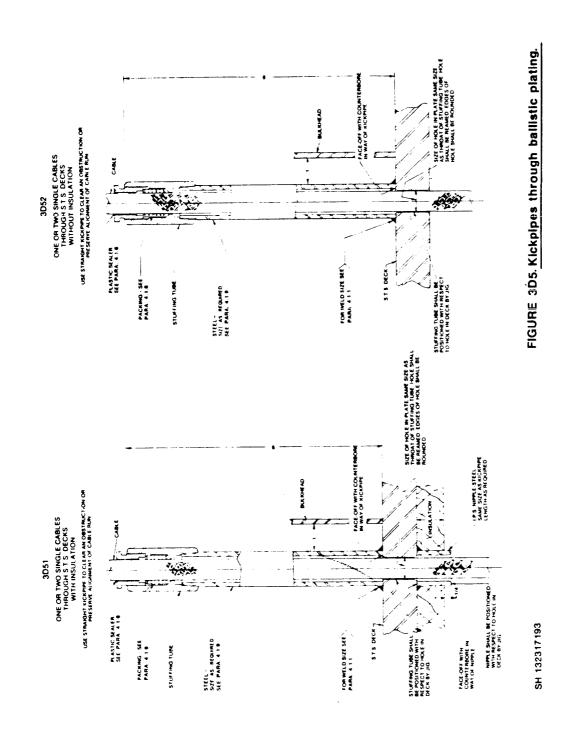


FIGURE 3D3. Kickpipes through steel or aluminum decks.

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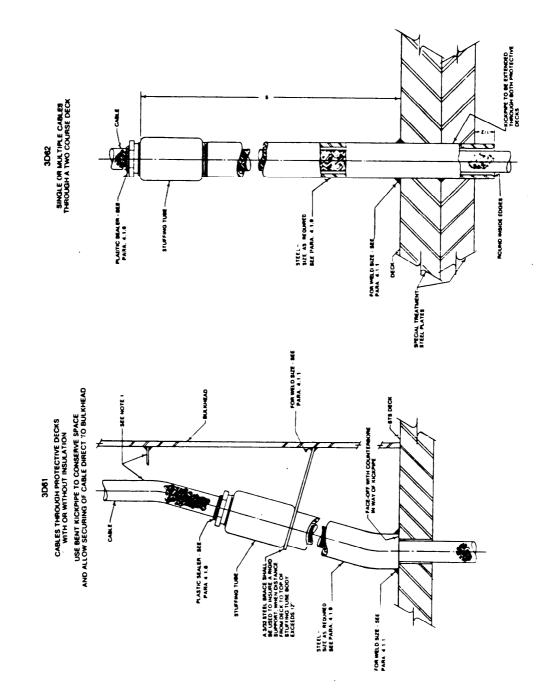
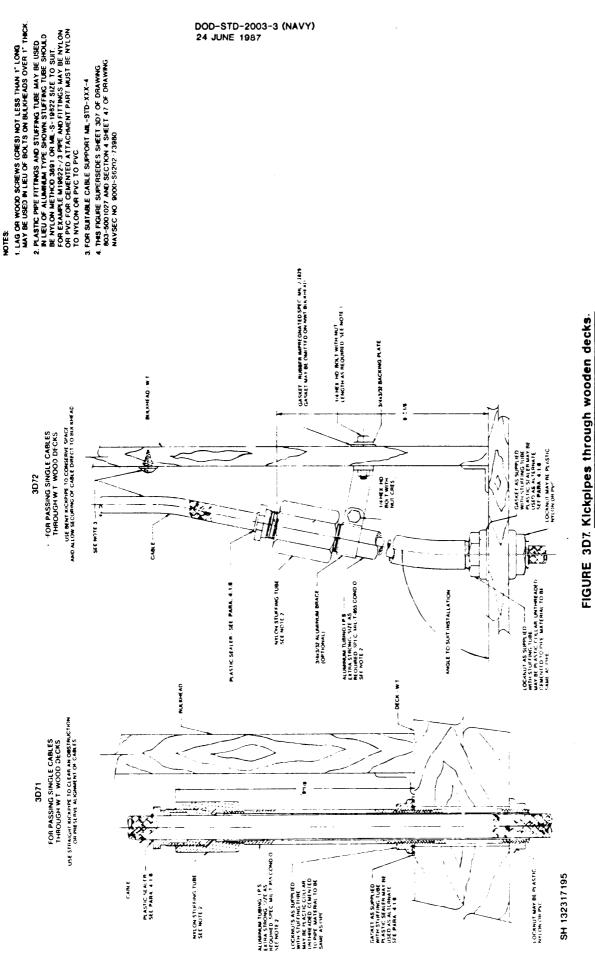
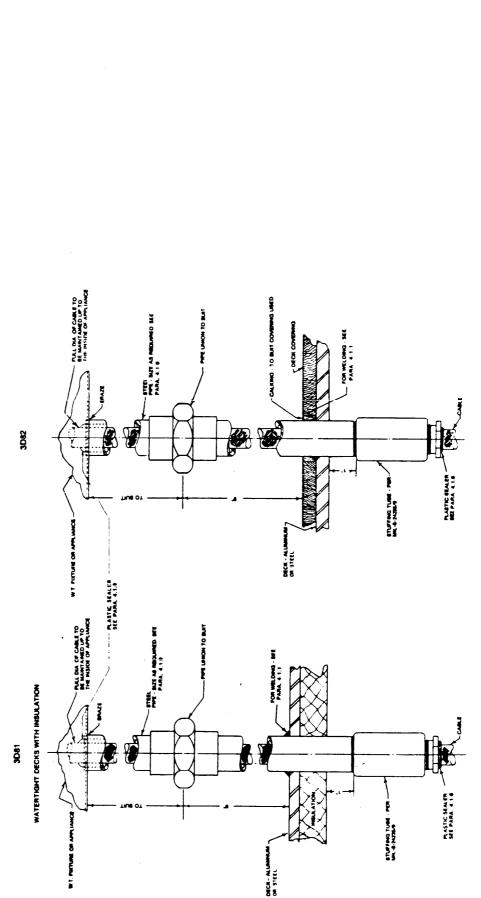


FIGURE 3D6. Kickpipes through bailistic plating.





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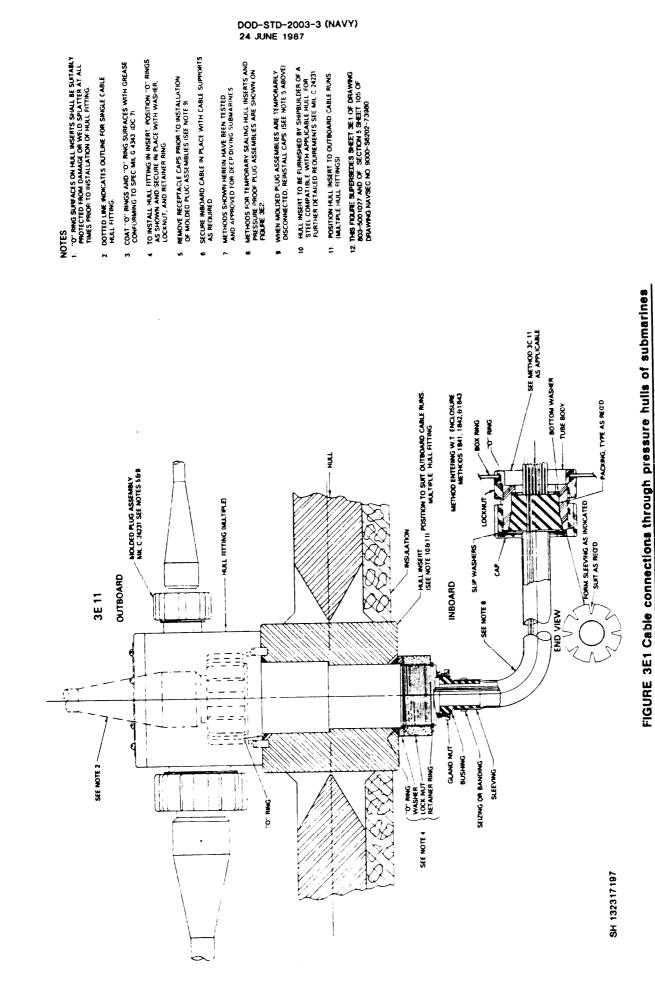


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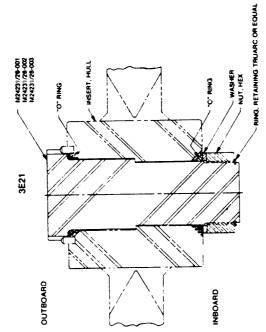
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CLASS III

FIGURE 3E2 Sealing plugs for hull inserts on submarines

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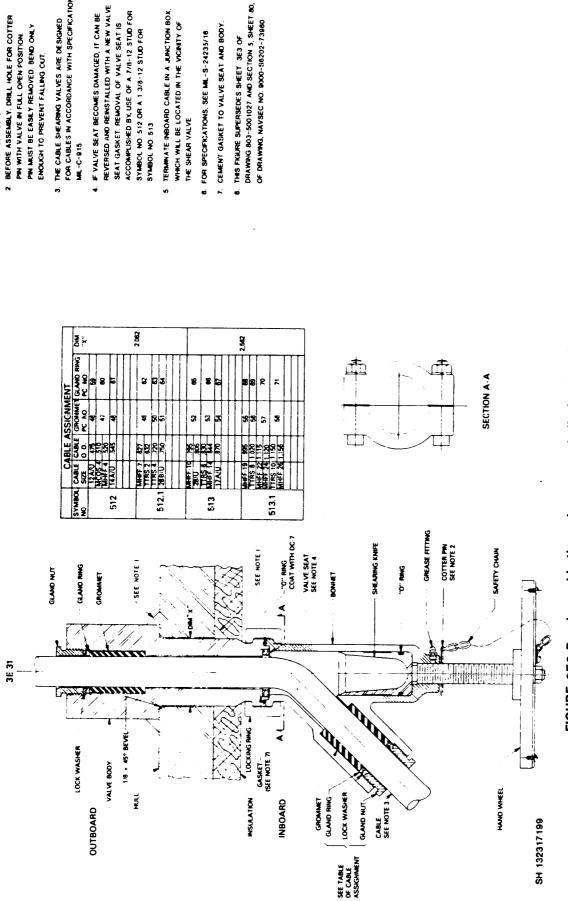


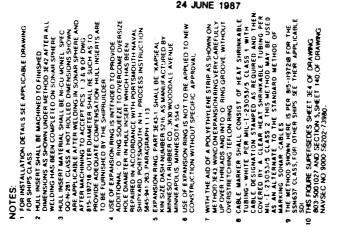
FIGURE 3E3 Passing cable through pressure hull of submarines using cable shearing valve

THE CABLE SHEARING VALVES ARE DESIGNED FOR CABLES IN ACCORDANCE WITH SPECIFICATION REVERSED AND REINSTALLED WITH A NEW VALVE ACCOMPLISHED BY, USE OF A 7/11-12 STUD FOR TERMINIATE INBOARD CABLE IN A JUNCTION BOX. JE VALIVE SEAT BECOMES DAMACLED, IT CAN BE BEFORE ASSEMBLY. DRILL HOLE FOR COTTER SEAT GASKET. REMOVAL OF VALVE SEAT IS WHICH WILL BE LOCATED IN THE VICINITY OF Phi Muist be easily removed. Bend only CEMENT GASKET TO VALVE SEAT AND BODY SYMBOL NO. 512 OR A 1 3/8-12 STUD FOR FOR SPECIFICATIONS, SEE MIL-S-24235/16. 1. WELDING SHALL COMPLY WITH HAVSHIPS PIN WITH VIALVE IN FULL OPEN POSITION. ENOUGH TO PREVENT FALLING OUT 0900-I.P-006-9010 THE SHEAR VALVE. SYMBOL NO. 513. MIL-C-015.

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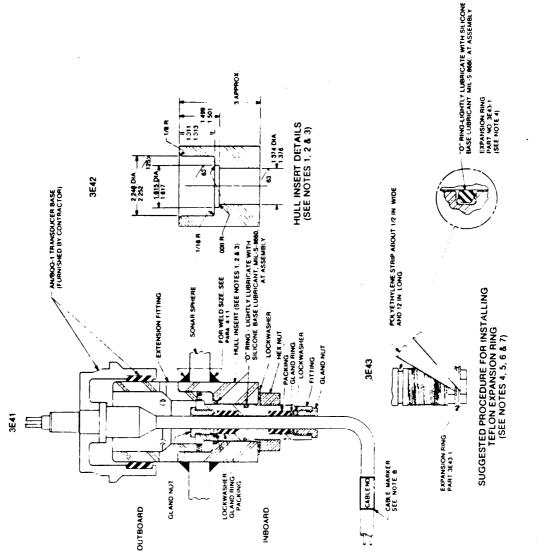
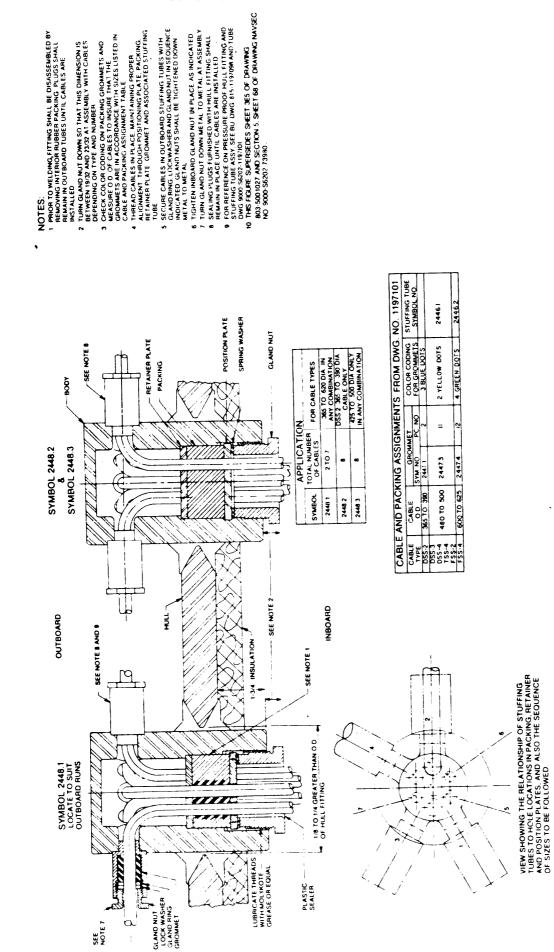
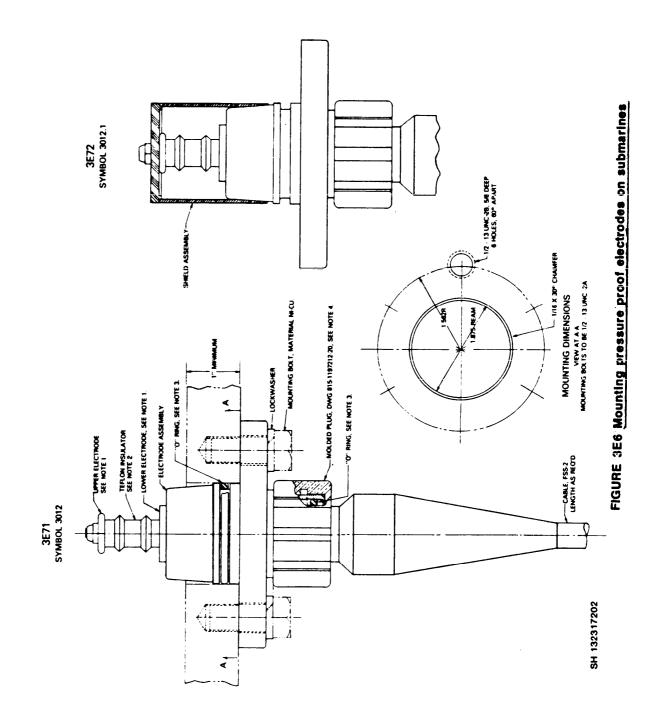


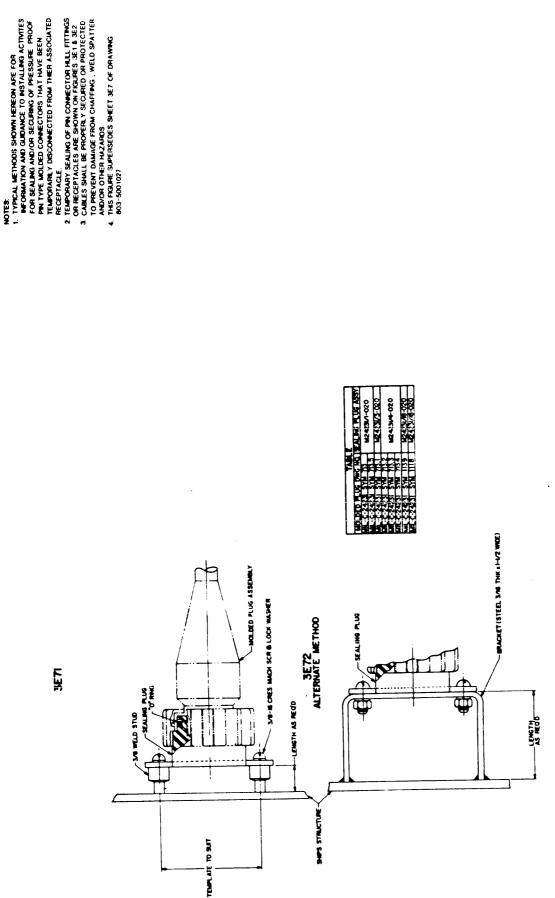
FIGURE 3E4 Hull fitting installation for sonar sphere





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FIGURE 3E7 Temporary sealing and securing pressure proof molded plug assemblies

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