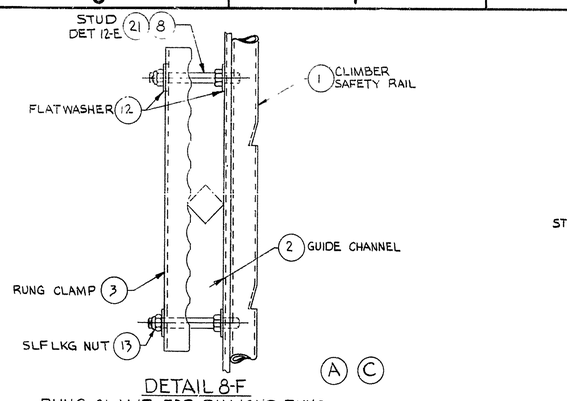
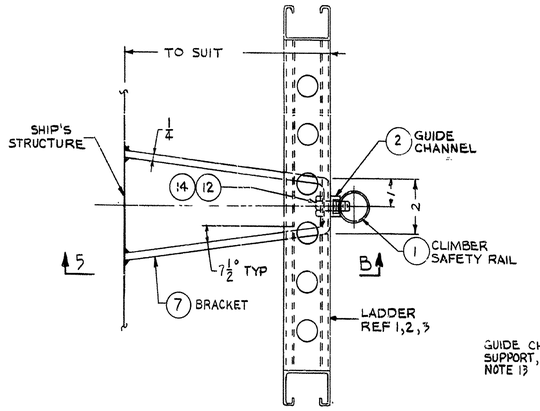


DETAIL 8-F
RUNG CLAMP FOR DIAMOND RUNG
SCALE: HALF SIZE



PLAN 5-E

GENERAL NOTES:

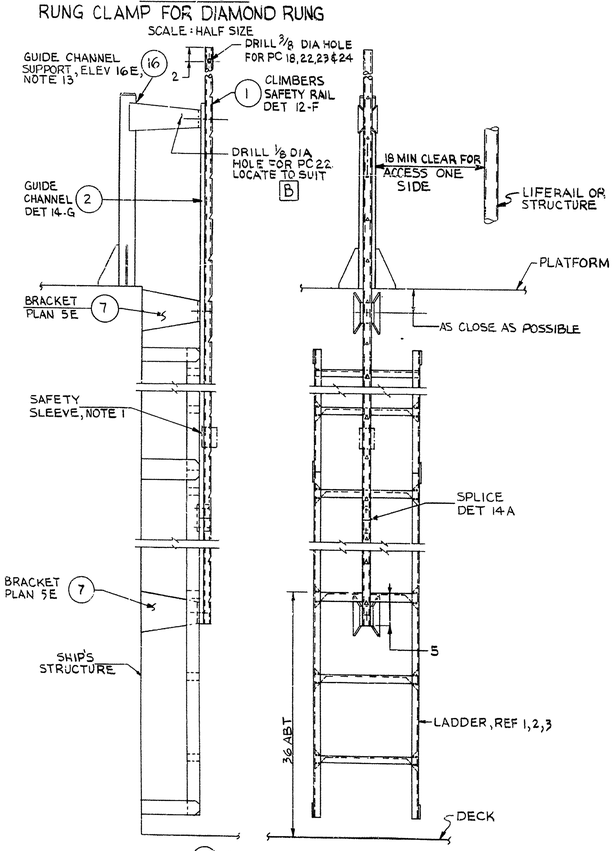
* 1. CLIMBER SAFETY EQUIPMENT TO BE IN ACCORDANCE WITH FEDERAL SPEC RR-S-1301 (FAA), TYPE I-RIGID TYPE CARRIER.

* 2. ~~WHERE CLIMBER SAFETY RAILS ARE INSTALLED ON CARBON STEEL LADDERS, PIECE NUMBER 1 SHALL BE STEEL, ASTM A-120; PIECE NUMBERS 1,2,4 & 5 SHALL BE MILD STEEL, COMMERICAL GRADE. ALL OTHER PIECES SHALL BE AS NOTED IN THE LIST OF MATERIAL. WHERE CLIMBER SAFETY RAILS ARE TO BE INSTALLED ON ALUMINUM OR GLASS REINFORCED PLASTIC (GRP) LADDERS, PIECE NUMBERS 1,2,4,5 & 9 SHALL BE GOGI TO ALUMINUM OR TYPE 304 CRES. ALL OTHER PIECE NUMBERS SHALL BE AS NOTED IN THE LIST OF MATERIAL.~~ (C)

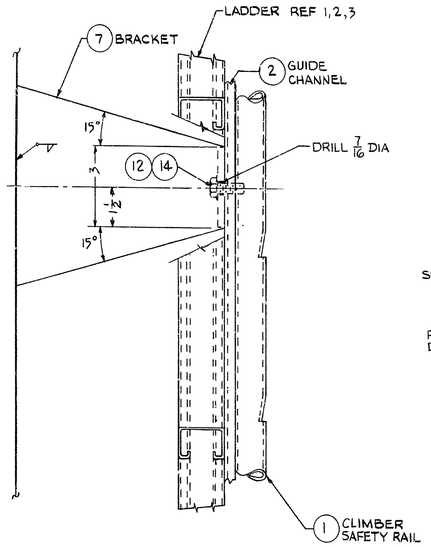
* 3. THE CLIMBER SAFETY RAIL, PC 1, AND GUIDE CHANNEL, PC 2 SHALL BE MOUNTED BY THE USE OF EITHER LADDER RUNG CLAMPS OR MOUNTING BRACKETS (SEE NOTES 4 THRU 9, 12 AND 13 FOR SELECTION AND MOUNTING DETAILS). THERE SHALL BE A MOUNT AS CLOSE AS PRACTICABLE TO THE BOTTOM OF THE RAIL AND CHANNEL AND THE TOP OF THE LADDER, AND AT MAXIMUM SEVEN FOOT INTERVALS. CARE MUST BE TAKEN TO POSITION MOUNTS AT THE CENTERLINE OF THE LADDER FOR BRKT OF DET 5B AND RUNG CLAMPS DET 14E.

GENERAL NOTES CONTINUED ON SHEET 2.

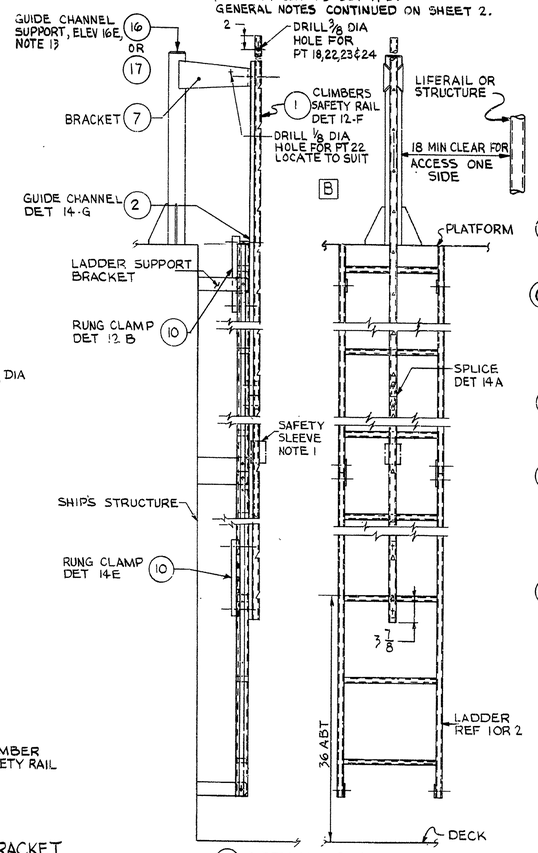
SYM	REVISIONS DESCRIPTION	DATE	APPD
A	RUNG CLAMP DIMENSIONS & MATL MODIFIED. SAFETY RAIL DET. ADDED.	9/6/78	MMP
B	MODIFIED G.N. 9 & 10-D. DELETED 54" VERTICAL DIMENSION TO TOP OF SAFETY RAIL FROM PLTFM. IN PANELS 3 & 7. DELETED 24" VERTICAL DIMENSION TO TOP OF GUIDE CHANNEL IN PANELS 3 & 8. ADDED G.N. 13, PGS. 15 TO 20 INCL., DET. 14-G, & ELEV. 16-E, MOD RUNG CLAMP DIMS DET 12-B & 16-B. MOD NOTE 16-B. (NAVSEC 6132 O.R.)	6/9/78	MMP
C	IN LIST OF MATERIAL PC 6, 9, 11, 15 & 19 DELETED; SECT OF PC 16 & 17 CHANGED FROM ∠ TO TUBE; PC 21 THRU 35 ADDED; MATERIAL, SPECS & TYPE FOR PC 1-5, 8, 10, 12-14, & 16-18 CHANGED. DET 3-A & 7-A ADDED. REF 3 DWG NO. REVISED. REF 4 ADDED. GENL NOTES REVISED AS FOLLOWS: NOTES 2 & 6 DELETED; NOTE 4 REVISED TO INCLUDE SIDE MOUNT RAIL & DESIGNATE RUNG CLAMP MOUNT AS TEMPORARY INSTALLATION ONLY; NOTE 5, MATL SPEC FOR CRES PL REVISED FROM QQ-S-763 TO QQ-S-766; NOTE 7 REVISED TO ELIMINATE AL RUNG CLAMP; NOTE 8 REVISED TO INCORPORATE NEW MOUNTING STUD, PC 8. NOTE 14 & 15 ADDED. DET 3-A & 7-A MODIFIED TO SUIT GUIDE CHANNEL SUPPORT AND BRACKETS. DET 8-F MODIFIED TO SUIT DET 16-B. DET 12-E, 14-A, 14-B, 16-B & ELEV 16-E MODIFIED. EXISTING SECT 12-E, 12-F, DET 12-G & 14-G DELETED & NEW DET 12-E, 12-F, 13-A, 13-C & 14-G ADDED. SHEET 3 SIDE MOUNTED SAFETY RAIL, DET 20-A & 21-A AND TYP INSTALLATION ARR, DET 24-A ADDED. NOTE 9 MODIFIED AND NOTE 16 AND DET 19 G ADDED TO DEFINE ACCESS TRUNK SAFETY RAIL INSTALLATION. ADD DET FOR RAIL & EXT ASSY FOR LADDERS IN TANK. DET 23-E, 24-E 17D 18F,G & 20F,G.	11/15/81	MMP SEA 515



(C) DETAIL 7-A
GENERAL ARRANGEMENT WHEN PERMANENT MOUNTING BRACKETS ARE USED FOR SECURING CLIMBER SAFETY RAIL TO SHIPS STRUCTURE (NOTE 5)
SCALE: 1 1/2 = 1'-0



SECTION 5-B
MOUNTING DETAIL FOR SECURING CLIMBER SAFETY RAIL TO MOUNTING BRACKET
SCALE: HALF SIZE



(C) DETAIL 3-A
GENERAL ARRANGEMENT WHEN LADDER RUNG CLAMPS ARE USED FOR TEMPORARILY SECURING OF CLIMBER SAFETY RAIL TO LADDER (NOTE 4)
SCALE: 1 1/2 = 1'-0

MATERIALS LIST CONT ON SH 3

NO REQ	PC NO	DESCRIPTION	MATERIAL	SPEC	REMARKS
	24	STOP SLEEVE 1/16	COPPER	COML	NICOPRESS NO. 871-1-C OR EQ
	23	OVAL SLEEVE 1/16	TIN-PLATED COPPER	COML	NICOPRESS NO. 428-2-VC OR EQ
	22	SECURING WIRE	CRES NOTE 14	MIL-W-5424	1/16 - 7X7 L=TO SUIT
	21	LOCKING INSERT	NYLON	MIL-F-18240	L=5/8, DET 12-E
	~~20~~	~~STAPLE~~	~~AL 5086-H111~~	~~QQ-A-200/5 1/8 DIA X 1=5/8 L~~	
	~~19~~	~~STAPLE~~	~~CRES CL 304~~	~~QQ-W-423 1/8 DIA X 1=5/8 L~~	
	18	QUICK RELEASE PIN	CRES, NOTE 14	MS 17987	3/8D X 1.400 TO 1.500 L
	17	GUIDE CHANNEL SPRT	AL 5086-H111	MW-T-700/6	2 1/2 DIA X 1/4 TUBE
	16	GUIDE CHANNEL SPRT	CRES NOTE 14	W 5695	2 1/2 DIA X 1/4 TUBE
	~~15~~	~~GUIDE CHANNEL SPRT~~	~~M-S~~	~~MIL-S-20168 3 X 3 X 1/4 L~~	
	14	CAP SCREW SLFLKG	CRES & NYLON	MS 21095	3/8 X 16 UNC-2A, L=1
	13	HEX NUT SLFLKG	CRES & NYLON	MS 17330	3/8 X 16 UNC-3B
	12	WASHER, FLAT	CRES NOTE 14	MS 15795-814	3/8
	~~11~~	~~HEX JAM NUT~~	~~CRES CL 304~~	~~MIL-B-857 TYP~~	~~3/8 X 16 NC~~
	10	RUNG CLAMP	CRES NOTE 14	QQ-S-766	DET 12B, NOTE 4&7
	~~9~~	~~RUNG CLAMP~~	~~SEE NOTE 2~~	~~QQ-A-225/8~~	~~SEE NOTES 4&7~~
	8	STUD	CRES NOTE 14	QQ-S-763	DET 12-E
	7	BRACKET	VARIOUS	SEE NOTE 5	1/4 THK SECT 5-B
	~~6~~	~~LOCKWASHER~~	~~CRES CL 304~~	~~MS 35338 #4~~	~~3/8~~
	5	ALIGNMENT GUIDE	CRES NOTE 14	ASTM-A269	1" O.D. x .065 WALL DET 13-C
	4	CONNECTING STRAP	CRES NOTE 14	QQ-S-763	1 x 1/4 FB DET 13-A
	3	RUNG CLAMP	CRES NOTE 14	QQ-S-766	DET 16B, NOTE 4&7
	2	GUIDE CHANNEL	CRES NOTE 14	QQ-S-766	DET 14-G, 12 GA
	1	CLIMBER SAFETY RAIL	CRES NOTE 14	ASTM-A312	1" IPS SCH 40 DET 2-F

LIST OF MATERIAL (*)

REFERENCE DRAWING		
1	LADDERS VERTICAL STEEL	51604-860091
2	LADDERS VERTICAL	809-1360280
3	LADDERS VERT. (GLASS REINFORCED PLASTIC)	803-5184098
4	TRUNK SAFETY NETS	804-5184163

AN ASTERISK (*) DENOTES MANDATORY REQUIREMENT, NO DEVIATION IS ALLOWED.

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES SHALL BE IN ACCORD WITH COMMERCIAL PRACTICE UNLESS OTHERWISE INDICATED ON DRAWING

CONTRACT NO. - N00024-74-C-5559
GEORGE G. SHARP INC.
DRAWN L.O.F SUPV DAH
CHK'D F.D APPV'D TO
NAVSEC APPROVAL ACTION
PRU ENGR SR SUPV
SDC SUPV ASST NAVSEC
APPROVED: FOR COMMANDER, NAVSEC
DATE 3-3-75

DEPARTMENT OF THE NAVY WASHINGTON, D.C.
NAVAL SHIP ENGINEERING CENTER
HULL TYPE DRAWING

CLIMBER SAFETY RAIL NOTCHED TUBE TYPE. ARRANGEMENT & DETAILS

SIZE	CODE IDENT. NUMBER	NAVSHIPS DRAWING NO.	REV.
F	80064	804-4563125	C

SCALE: NOTED WT NOTE 11 SHEET 1 OF 3

804-4563125 B

4563125 804 SH 1

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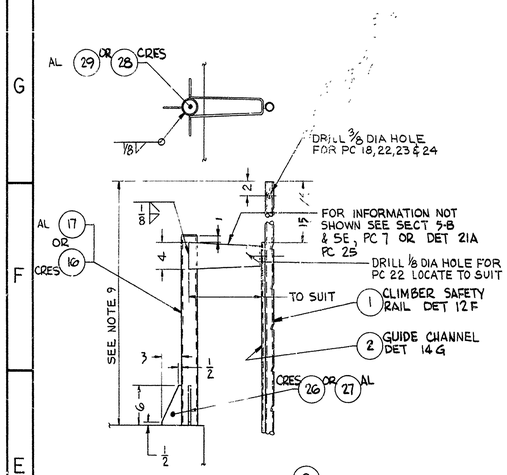
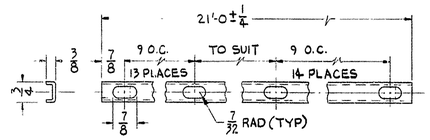
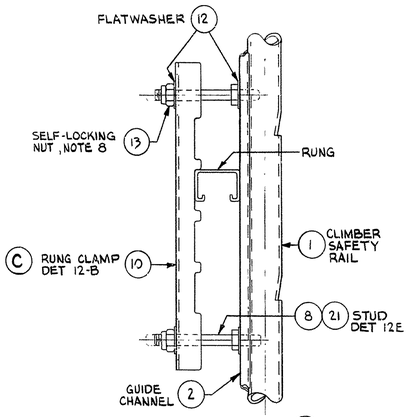


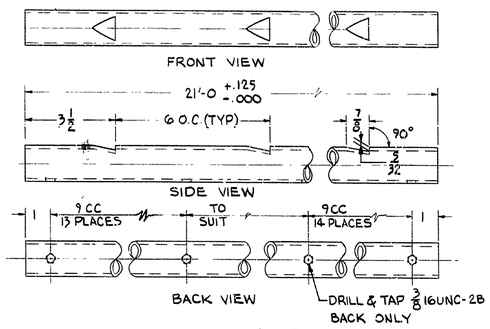
ELEVATION 16-E (C)
GUIDE CHANNEL SUPPORT
SCALE: 1½ = 1'-0



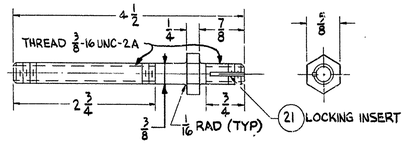
DETAIL 14-G (C)
GUIDE CHANNEL (2)
SCALE: HALF SIZE



DETAIL 14-E (A)
RUNG CLAMP FOR USE ON REF 1&2
SCALE: HALF SIZE



DETAIL 12-F (C)
CLIMBER SAFETY RAIL (1)
SCALE: HALF SIZE



DETAIL 12-E (C)
STUD (8)
SCALE: FULL SIZE

GENERAL NOTES (CONTINUED)

(C) * 4. ON LADDERS WITH TREAD WIDTHS OF 14 INCHES OR MORE THE CLIMBER SAFETY RAIL SHALL BE MOUNTED ON THE VERT ℄ OF THE LADDER. ON LADDERS WITH TREAD WIDTHS OF LESS THAN 14 INCHES THE RAIL SHALL BE MOUNTED SEPARATE FROM THE LADDER AND ON THE RIGHT SIDE. ALL RAILS SHALL BE MOUNTED ON SUPPORTS INDEPENDANT OF THE LADDER, EXCEPT THAT, WHEN NECESSARY, THEY MAY BE TEMPORARILY INSTALLED BY THE SHIPS FORCE ON A LADDER BY CLAMPING TO THE CENTER OF THE LADDER RUNG. SEE DET 24A FOR TYP MOUNTING ARR.

[B] * 5. MOUNTING BRACKETS, PC 7 & 25, SHALL BE EITHER ALUMINUM OR STEEL, TO CORRESPOND WITH EXISTING SHIP'S STRUCTURE.

(C) ALUMUNIM BRACKETS SHALL BE QQ-A-250/19-AL 5086 H116 OR H117. STEEL BRACKETS SHALL BE OF QQ-S-766 CRES CL 304.

(C) * ~~6. THE FINISH FOR STEEL LADDER RUNG CLAMPS SHALL BE ZINC COATED, HOT DIPPED, ASTM A-153.~~

(C) * 7. WHEN A SHIP'S FORCE INSTALLATION OF A CLIMBER SAFETY RAIL IS TO BE MADE, RUNG CLAMP, PC10, SHALL BE USED ON STANDARD NAVY METALLIC VERTICAL LADDERS (REF 1&2). RUNG CLAMP, PC3, SHALL BE USED ONLY ON EXISTING DIAMOND RUNG TYPE LADDERS. RUNG CLAMPS SHALL NOT BE USED ON NON-METALLIC LADDERS (REF 3).

(C) * 8. TO INSTALL RUNG CLAMP, REMOVE CAP SCREW, PC 14, AND SUBSTITUTE WITH PC 8 IN THE TAPPED HOLE OF PC 1 IMMEDIATELY ABOVE AND BELOW THE RUNG, AS SHOWN IN DETAIL 8F OR 14E. TIGHTEN SECURELY. NEXT, INSTALL THE RUNG CLAMP, PC 3 OR 10, OVER THE STUDS. FOLLOWED BY A FLAT WASHER, PC 12, AND SELF LOCKING NUT, PC 13, ON EACH STUD.

[B] * 9. EXCEPT AS IN NOTE 16, THE CLIMBER SAFETY RAIL, PC 1, SHALL EXTEND ABOVE THE TOP OF THE PLATFORM, DECK, LANDING OR TERMINATION OF THE LADDER TO THE APPROXIMATE LEVEL OF THE SURROUNDING LIFERAIL. THE GUIDE CHANNEL, PC 2, IS TO TERMINATE 15 INCHES BELOW THE TOP OF THE CLIMBER SAFETY RAIL. SEE DET 16E FOR TYPICAL DETAIL OF SAFETY RAIL.

* 10. INSTALLATION INSPECTION AND TEST - DURING ALL LOAD TESTS, A SAFETY LINE SHALL BE RIGGED TO RESTRAIN THE LOAD IN THE EVENT OF FAILURE OF ANY PART TO HOLD OR STOP THE TEST LOAD. FOR SAFETY AND CONVENIENCE TESTS MAY BE CONDUCTED CLOSE TO THE DECK.

A. STATIC LOAD TEST - THE SAFETY SLEEVE SHALL BE POSITIONED BETWEEN TWO SUPPORT MOUNTINGS AND LOCKED INTO A NOTCH OF THE RAIL. A STATIC LOAD OF 500 POUNDS SHALL BE SUSPENDED FROM THE SNAP HOOKS OF THE SAFETY SLEEVE. DO NOT ALTER THIS TEST IN SUCH A MANNER AS TO PERMIT THE LOAD TO BE CARRIED BY FEWER THAN TWO RUNGS. THERE SHALL BE NO SLIPPAGE OF THE SLEEVE, RAIL, OR MOUNTS.

[B] B. FALL TEST - A SOLID OBJECT NOT LESS THAN 12 INCHES IN DIAMETER AND WEIGHING 250 POUND SHALL BE SECURED IN A SAFETY HARNESS ATTACHED TO THE SAFETY SLEEVE SNAP HOOKS. THE SAFETY SLEEVE SHALL BE POSITIONED MIDWAY BETWEEN TWO SUPPORT MOUNTINGS, BUT WITH THE LOCKING MECHANISM NOT LOCKED INTO A NOTCH. THE LOAD SHALL BE RAISED AND ALLOWED TO DROP A DISTANCE OF 12 INCHES BEFORE THE FALLING LOAD ENGAGES THE SAFETY SLEEVE. FAILURE OF THE SLEEVE TO STOP AND HOLD THE LOAD, WITH A MAXIMUM MOVEMENT OF THE SLEEVE, OF 6 INCHES SHALL CONSTITUTE FAILURE OF THE SYSTEM.

C. OPERATIONAL TEST - ONE PERSON SHALL ASCEND AND DESCEND THE STRUCTURE (ON WHICH THE EQUIPMENT BEING TESTED IS INSTALLED) USING THE SLIDING SLEEVE TO VISUALLY DETERMINE THAT LOCKING DEVICE IS WORKING PROPERLY AND THAT THE SLIDING SLEEVE RIDES FREELY ON THE CARRIER, WITHOUT ANY MANIPULATION BEING REQUIRED ON THE PART OF THE CLIMBER.

[B] D. EXAMINATION AFTER TESTING - AFTER COMPLETION OF EACH OF THE ABOVE TESTS, THE EQUIPMENT AND ALL COMPONENTS SHALL BE VISUALLY EXAMINED FOR CRACKS, DEFORMATION, OR EXCESSIVE WEAR OR IMPROPER OPERATION. THE SAFETY SLEEVE USED FOR FALL TEST SHALL BE DISPOSED OF AFTER ALL RAILS, FOR ONE SHIP, HAVE BEEN TESTED.

11. APPROXIMATE WEIGHT IS AS FOLLOWS: RAIL & GUIDE CHANNEL = 2.5 LBS/FT, CLAMPS = 2.0 LBS EACH

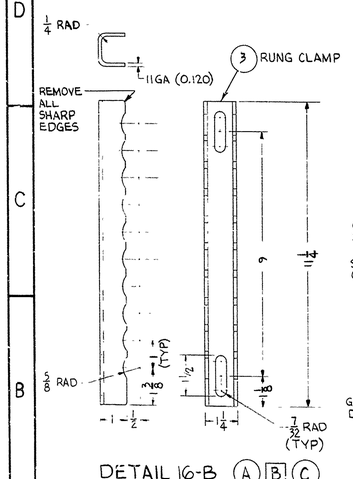
[B] * 12. ALL BRACKET WELDING SHALL BE DONE IN ACCORDANCE WITH NAVSEA TECH MANUAL 0901-920-0003.

[B] * 13. THE TOP CANTILEVERED PORTION OF ALL CLIMBER SAFETY RAILS SHALL BE ADEQUATELY BRACED. ELEV 16-E SHOWS A TYPICAL STIFFENING BRACE. THIS DETAIL MAY BE MODIFIED TO SUIT LOCAL CONDITIONS. ALTERNATE STIFFENING ARRANGEMENTS MAY ALSO BE USED IF SUFFICIENT STIFFENING IS PROVIDED TO RESIST A HORIZONTAL 300 LB LOAD IN ANY DIRECTION AT THE TOP OF THE SAFETY RAIL.

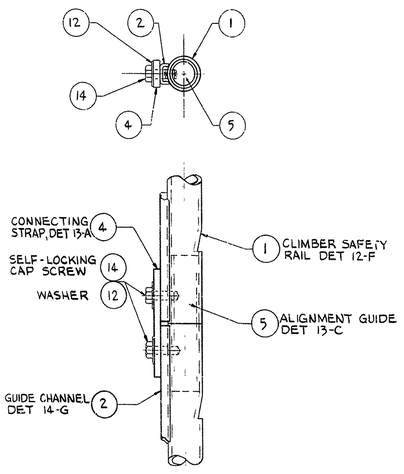
* 14. ALL CRES SHALL BE SERIES 300.

(C) * 15. GUIDE CHANNEL, PC 2, SHALL BE SECURED TO THE CLIMBER SAFETY RAIL, PC 1, WITH SELF-LOCKING CAP SCREW, PC 14, AND WASHER, PC 12, AT EACH HOLE LOCATION EXCEPT WHERE PC 8 IS INSTALLED.

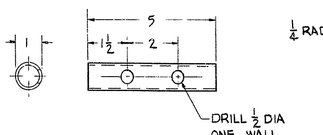
(C) 16. WHERE A CLIMBER SAFETY RAIL IS INSTALLED IN * A TANK TERMINATED BY AN OVERHEAD HATCH OR WHERE THE RAIL CANNOT BE PERMANENTLY INSTALLED ABOVE THE DECK LEVEL TO AT LEAST 36 INCHES, A PORTABLE EXTENSION ASSEMBLY SHALL BE PROVIDED AS SHOWN IN DET 17D, DET 23E & DET 24E.



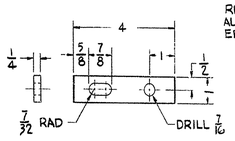
DETAIL 16-B (A) [B] (C)
RUNG CLAMP FOR DIAMOND TYPE RUNG
SCALE: HALF SIZE



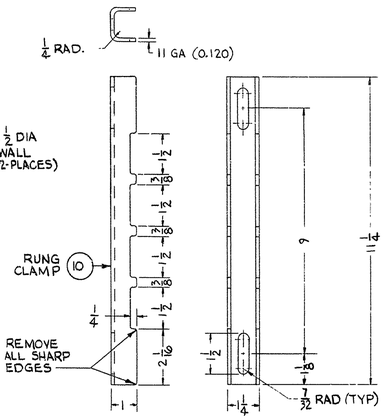
DETAIL 14-A (C)
SAFETY RAIL SPLICE
SCALE: HALF SIZE



DETAIL 13-C
ALIGNMENT GUIDE (5)
SCALE: HALF SIZE



DETAIL 13-A (C)
CONNECTING STRAP (4)
SCALE: HALF SIZE



DETAIL 12-B (A) [B] (C)
RUNG CLAMP FOR SECURING CLIMBER SAFETY RAIL TO REF 1&2 SEE NOTE 7
SCALE: HALF SIZE

SIZE	CODE IDENT NO	SWBS	DRAWING NO	REV
F	80064	804	4563125	C
SCALE: AS NOTED	WEIGHT: NOTE 11		SHEET 2 OF 3	

804-4563125 B

4563125 804 SH2

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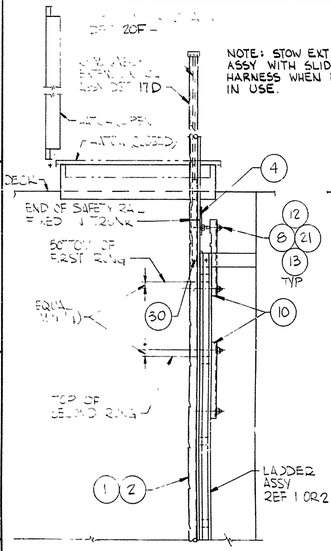
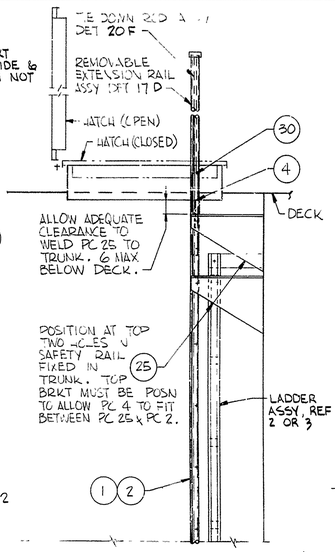
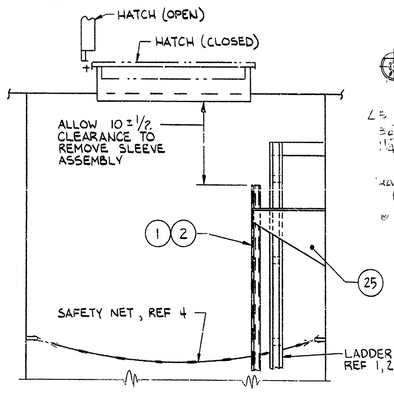


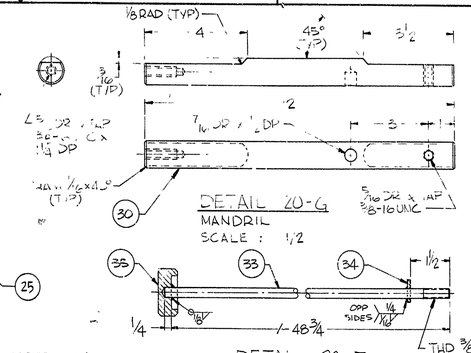
DETAIL 24-E
ARR OF LADDER-MOUNTED SAFETY RAIL IN TANKS
(SEE NOTE 16)



DETAIL 23-E
ARR OF BULKHEAD-MOUNTED SAFETY RAIL IN TANKS
(SEE NOTE 16)

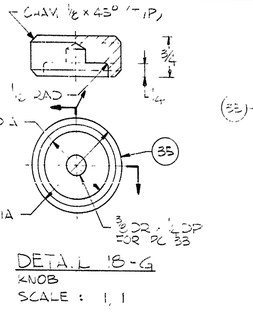


DETAIL 21-F
ARR OF SAFETY RAILS WHERE EXTENSION CANNOT BE USED



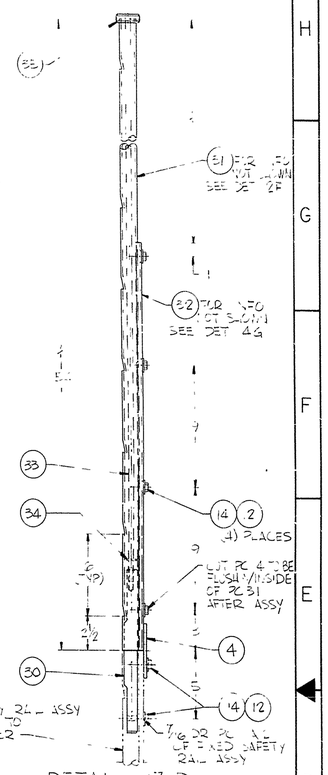
DETAIL 20-G
MANDRIL
SCALE : 1/2

DETAIL 20-F
TIE DOWN ROD ASSY
SCALE : 1/2

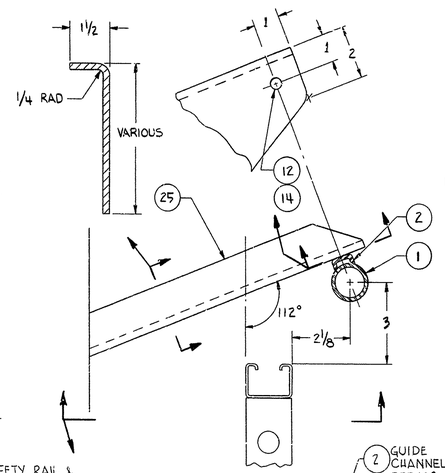


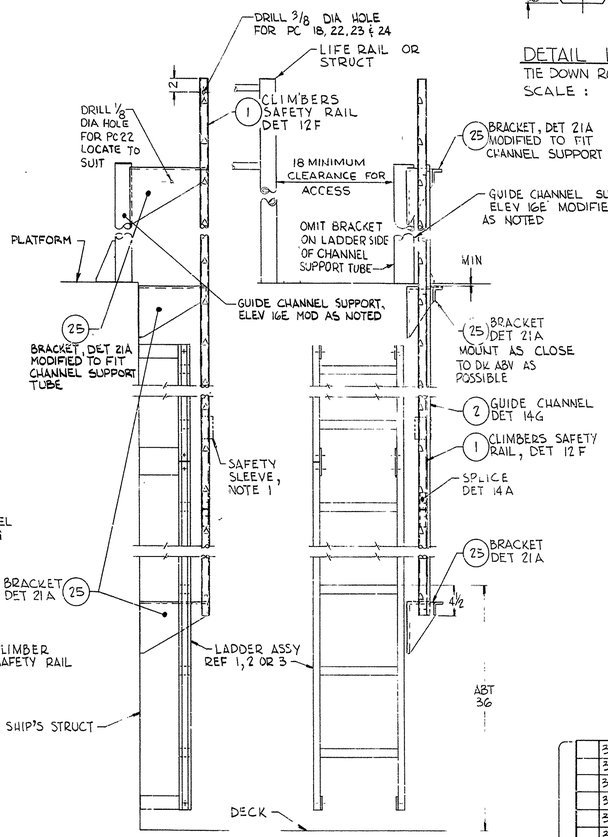
DETAIL 18-G
KNOB
SCALE : 1/1

DETAIL 18-E
TIE DOWN ROD SPACER
SCALE : 1/1

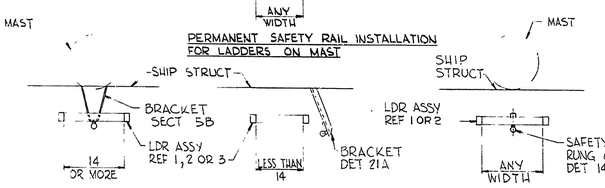


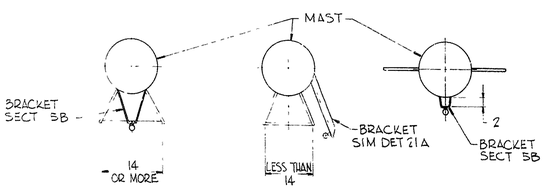
DETAIL 17-D
SAFETY RAIL EXTENSION ASSY
SCALE : 1/4

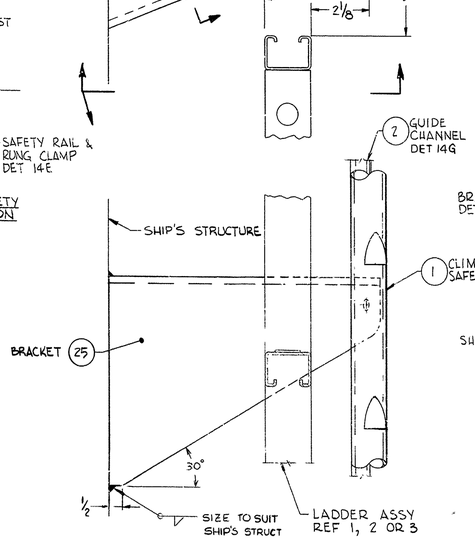




DETAIL 20-A
ARR OF SIDE MOUNTED SAFETY RAIL FOR LADDERS LESS THAN 14 INCHES WIDE
SCALE : 1/8







DETAIL 24-A
TYP SAFETY RAIL INSTALLATION ARR
SCALE : NONE
SEE NOTE 4 FOR APPLICATIONS

DETAIL 21-A
MOUNTING DETAIL FOR SIDE MOUNTED RAIL ASSY
SCALE : 1/2
SEE NOTE 3 FOR BRACKET SPACING

NO. REQD	PC NO.	DESCRIPTION	MATERIAL	MATL SPEC	REMARKS	REF DWG NO.
	35	KNOB	CRES NOTE 14	QQ-S-763	DET 18G	
	34	TIE DOWN ROD SPACER	CRES NOTE 14	MS 15795-814	CF 3/8 WASHER DET 18F	
	33	TIE DOWN ROD	CRES NOTE 14	QQ-S-763	3/8 DIA ROD DET 20F	
	32	EXT RAIL GUIDE CHAN	CRES NOTE 14	QQ-S-766	12GA SH DET 17D	
	31	REMOVABLE EXT RAIL	CRES NOTE 14	ASTM-A312	1 SCH 40 PS DET 17D	
	30	MANDRIL	CRES NOTE 14	QQ-S-763	1 DIA ROD DET 20G	
	29	CAP	AL ALLY 5086 H116	QQ-A-250/19	2 1/4 DIA x 0.25 PL DET 16E	
	28	CAP	CRES NOTE 14	QQ-S-766	2 1/4 DIA x 1/4 PL DET 16E	
	27	BRACKET	AL ALLY 5086 H116	QQ-A-250/19	0.25 PL DET 16E	
	26	BRACKET	CRES NOTE 14	QQ-S-766	1/4 PL DET 16E	
	25	BRACKET	SEE NOTE 5	NOTE 5	1/4 PL DET 21A	

LIST OF MATERIAL

MATERIALS LIST CONT FROM SH 1

SIZE	CODE IDENT NO.	SWBS	DRAWING NO.	REV
F	80064	804	4563125	C
SCALE: 1/8	WEIGHT: NOTE 11		SHEET 3 OF 3	

4563125 804 SH3

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4563125, 53711, , C, 0001, 0001