

MATERIAL SCHEDULE

SERVICE	SIZE	PIPE	COMPONENTS				VALVES		BOLTING		REMARKS
			TAKEDOWN JOINTS	FITTINGS	FLEX CONNECT	GASKETS	BODY	TRIM	BOLTS/STUDS	NUTS/WASHERS	
POTABLE WATER PUMP 45GMP@40 PSI	ALL	BELOW DECK CARBON STEEL GALVANIZED, SCH 40, SEAMLESS, ASTM A53 TYPE S, OR ASTM A106, GRADE B, ANSI B36.10 FIXTURE FEED COPPER TYPE-K TUBING STANDARD WALL	FLANGE #150, SOCKET WELD CARBON STEEL, ASTM A105, ANSI B16.5	BELOW DECK STEEL GALVANIZED THREADED,	HOSE: SEE NOTE 11	GARLOCK STYLE 3000 BALL - ABV DK SW OR THREADED, 3-PIECE S. STEEL, ASTM A351 GR CF8M		BALL CHROME PLATED BALL, RPTFE OR VITON SEATS CHECK CRES DISC	CARBON STEEL ASTM A307 GR B ANSI B18.2.1	HEX-HEAD CARBON STEEL ASTM A563 GR A ANSI B18.2.2	

EQUIPMENT & PUMP LIST

QTY	SERVICE	TYPE	MODEL	CAPACITY	DRIVE
1	FRESH WATER PRESSURE PUMP	CENTRIFUGAL		35 GPM @ 35 PSI	2HP TEFC MOTOR 208V/3P/60Hz SEE NOTE 10

SYMBOLS LIST

	PIPE
	REDUCER
	CHECK VALVE
	BALL VALVE
	BALL VALVE, LOCKING
	DIAPHRAGM PUMP
	CAMLOCK
	DRIP PAN
	HOSE REEL
	SUCTION STRAINER BOX
	BULKHEAD PIPE PENETRATION
	PRESSURE GAUGE

17-1372-4008 GENERATOR COOLING PIPING B.O.M.

ITEM	QTY	DESCRIPTION	MATERIAL SPEC	REMARKS
1	2	PUMP 1-1/2 HP SHALLOW WELL PUMP, 120/208VAC 3PH, 45GPM @ 40 PSI WITH PRESSURE SWITCH 35-55 PSI SETTING		1-1/2" NPT IN 1-1/2"NPT OUT OR EQUAL
2	2	BLADDER TANK, 20 GALLON, #3GVT6, VERTICAL PRE CHARGED, 16" DIA		1" (F) IN - 1" (F) OUT OR EQUAL
3	1	WATERHEATER, 50 GAL, WITH USCG APPROVED PRESSURE-TEMP RELIEF VALVE	UL 174, UL 1453	VERIFY WITH OWNER PRIOR TO PURCHASE
5	4	TOILET FLUSHING VALVE, SLOAN OR EQUAL		
PG-#	AS REQ'D	PIPE GALVANIZED, SCH 40	ASTM A-53	
F-	AS REQ'D	MISC FITTINGS, MALL IRON,150#,	ASTM A-197	OR EQUAL
FG-2	AS REQ'D	MISC FITTINGS, GALV, MALEABLE IRON, 150#	ASTM A-197	
CV-2	1	CHECK VALVE, BRONZE, 125 lb., SCREWED 2"	ASTM B-62	OPTION: DUCTILE IRON A-395, CARBON STEEL A-216, 316 STAINLESS STEEL A-351
V-1	4	1- 1/2" BRONZE BALL VALVE	ASTM B-62	OPTION: DUCTILE IRON A-395, CARBON STEEL A-216, 316 STAINLESS STEEL A-351
V-2	6	3/4" HOSE BIB, BRONZE, 125LB, SCREWED	ASTM B-62	FULL PORT
V-3	0	1- 1/4" BRONZE BALL VALVE	ASTM B-62	OPTION: DUCTILE IRON A-395, CARBON STEEL A-216, 316 STAINLESS STEEL A-351
V-4	3	2" BRONZE BALL VALVE	ASTM B-62	OPTION: DUCTILE IRON A-395, CARBON STEEL A-216, 316 STAINLESS STEEL A-351
V-5	7	3/8" BRONZE BALL VALVE	ASTM B-62	OPTION: DUCTILE IRON A-395, CARBON STEEL A-216, 316 STAINLESS STEEL A-351
V-6	28	1/2" SHUTOFF VALVE, BRONZE	ASTM B-62	OPTION: DUCTILE IRON A-395, CARBON STEEL A-216, 316 STAINLESS STEEL A-351
V-7	2	3/4" BRONZEC BALL VALVE	ASTM B-62	OPTION: DUCTILE IRON A-395, CARBON STEEL A-216, 316 STAINLESS STEEL A-351
V-8	4	1" BRONZE BALL VALVE	ASTM B-62	OPTION: DUCTILE IRON A-395, CARBON STEEL A-216, 316 STAINLESS STEEL A-351

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MAY BE PROVIDED WITH FIXTURES

- GENERAL NOTES -

NO.	DESCRIPTION
1.	MATERIAL AND WORKMANSHIP SHALL CONFORM TO U.S. COAST GUARD REQUIREMENTS FOR SUBCHAPTER "M" VESSELS.
2.	PIPING SHALL BE RUN AS DIRECTLY AS PRACTICABLE WITH A MINIMUM NUMBER OF BENDS AND FITTINGS. PROVIDE TAKEDOWN JOINTS FOR REMOVAL, INSPECTION, SERVICING, AND REPLACEMENT OF EQUIPMENT. PIPING SHALL BE RUN TO MINIMIZE CUTTING OF THE SHIP'S STRUCTURE.
3.	WHERE PIPES PENETRATE TANK BOUNDARIES, BULKHEADS, OR DECKS, HEAVY WEIGHT SPOOL PIECES OR REINFORCING PENETRATION FITTINGS SHALL BE USED. SEE DETAIL 1-4A.
4.	PIPING SHALL BE SUPPORTED BY HANGERS IN ACCORDANCE WITH ASTM F708.
5.	DRIP PANS SHALL BE PROVIDED BENEATH ALL PUMPS, STRAINERS, & FILTERS THAT WILL LEAK DURING ROUTINE MAINTENANCE AND BE EQUIPPED WITH A LOW POINT DRAIN VALVE.
6.	FIT DRIP PANS UNDER HOSE REELS AND PUMPS.
7.	FLEXIBLE POTABLE WATER HOSE SHALL BE USDA APPROVED DRINKING WATER HOSE.
8.	
9.	
10.	
11.	

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Title: 70.5'x30'x11' NCDOT TOWBOAT

POTABLE WATER PIPING

Dwg. No: 17-1372-533 Alt. No: 0
 Sh: 1 of 2

Drawn By: CHRISTOPHER DUNCAN Date: JUNE 05, 2018
 Checked By: _____ Date: _____
 App'd By: _____ Scale: 1/2" = 1'-0"
 ABS App'l: _____ USCG App'l: _____



