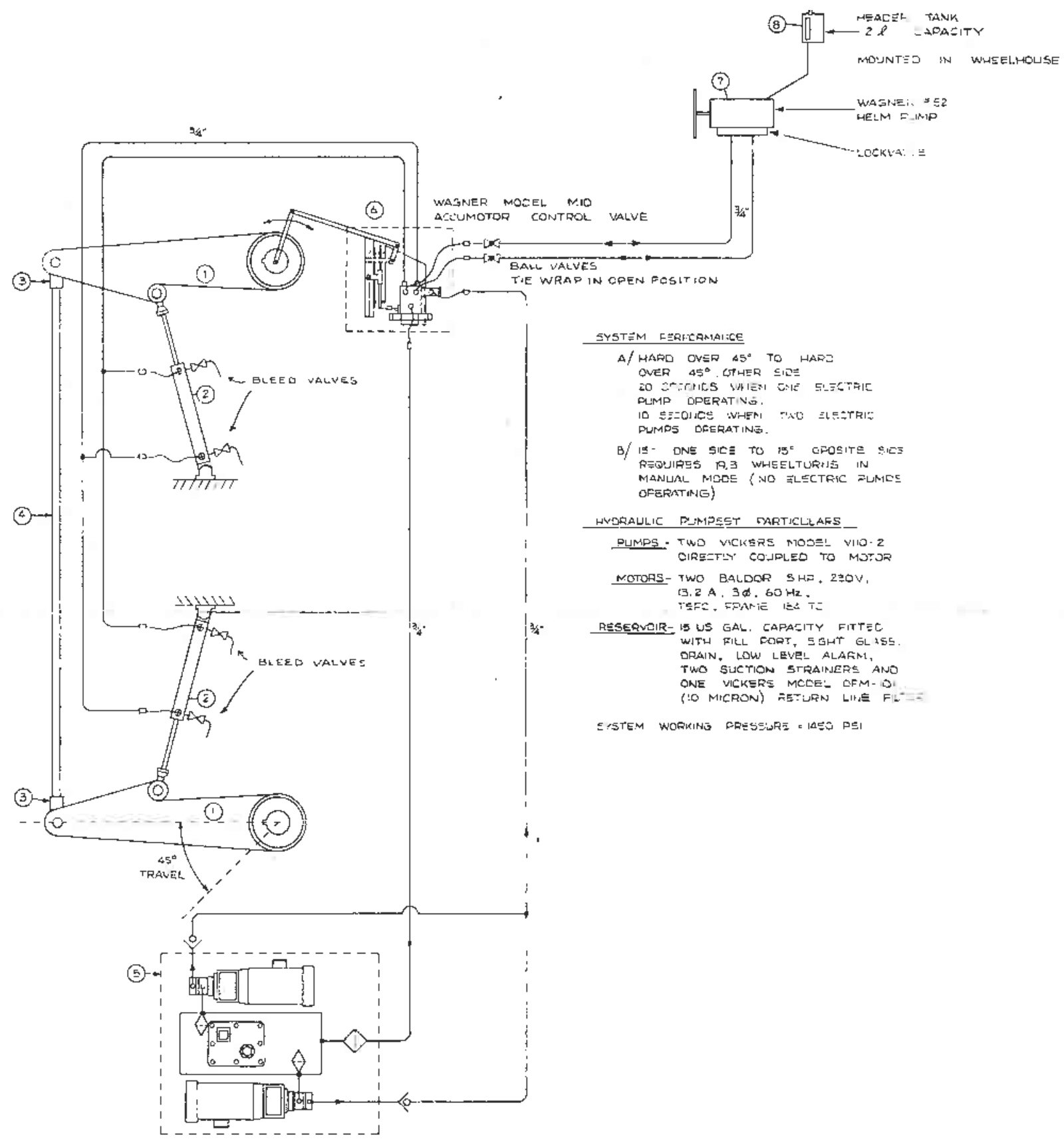

SYSTEM PERFORMANCE

A/ HARD OVER 45° TO HARD OVER 45°, OTHER SIDE 20 SECONDS WHEN ONE ELECTRIC PUMP OPERATING. 10 SECONDS WHEN TWO ELECTRIC PUMPS OPERATING.

B/ 15° ONE SIDE TO 15° OPOSITE SIDE REQUIRES 19.3 WHEELTURNS IN MANUAL MODE (NO ELECTRIC PUMPS OPERATING)

HYDRAULIC PUMPSET PARTICULARS

PUMPS - TWO VICKERS MODEL V10-2 DIRECTLY COUPLED TO MOTOR

MOTORS - TWO BALDOR 5 HP, 230V, 13.2 A, 3ϕ, 60 Hz, TEFC, FRAME 184 TC

RESERVOIR - 15 US GAL. CAPACITY FITTED WITH FILL PORT, SIGHT GLASS, DRAIN, LOW LEVEL ALARM, TWO SUCTION STRAINERS AND ONE VICKERS MODEL OFM-10 (10 MICRON) RETURN LINE FILTER

SYSTEM WORKING PRESSURE = 1450 PSI

ITEM	QUANTITY	DESCRIPTION	MAKE SUPPLY	PART NO./ CODE
1	TWO	TILLER, MILD STEEL	WAGNER	LB2 1.75-45
2	TWO	HYDRAULIC CYLINDER STEEL 80 mm BORE x 409 mm STROKE	WAGNER	LB0 409
3	TWO	TIE ROD ENDS	WAGNER	LB0
4	ONE	TIE ROD, 3" SCH 40 STEEL PIPE	ALLIED SHIPBUILDERS	ASTM A53
5	ONE	HYDRAULIC PUMPSET	WAGNER	TA 15D (MA)
6	ONE	ACCUMOTOR FULL FOLLOW-UP CONTROL VALVE MODEL M10	WAGNER	101-0047
7	ONE	HELM PUMP	WAGNER	82
8	ONE	HEADER TANK	WAGNER	250-0010

MATERIALS - SHIPYARD SUPPLY

- STEEL TUBING - 0.750" O.D. x 0.083" WALL THICKNESS
  - ALLOWABLE WORKING PRESSURE = 3000 PSI AT 4:1 DESIGN FACTOR
  - CODE ASTM A178
  - TENSILE STRENGTH = 50,000 PSI, YIELD STRENGTH = 34000 PSI, ELONGATION = 47%

  MANUFACTURER - METAL MATIC, INC. STEEL TUBING MINNEAPOLIS, MINNESOTA
- TUBE FITTINGS - PARKER HANNIFIN "FERULOK" CARBON STEEL TUBE FITTINGS
  - RATED WORKING PRESSURE IN EXCESS OF 310 BAR
  - UNION - MODEL 12-H8U

    TEE - MODEL 12-R6BU
- FLEX HOSES - HYDRAULIC HOSE - PARKER TYPE 77C-12 MAXIMUM WORKING PRESSURE = 4000 PSI MINIMUM BURST PRESSURE = 16000 PSI
  - HYDRAULIC HOSE FITTINGS - PARKER MODEL 10671 CRIMP TYPE, J1C. PATTERN

AS FITTED

ISSUED

MAY 15 1990

ALLIED SHIPBUILDERS LTD.

MK	DATE	REVISION
1	28 MAR 90	REVISE TO "AS FITTED"

ALLIED SHIPBUILDERS LTD.
NORTH VANCOUVER, CANADA

DEPARTMENT OF FISHERIES AND OCEANS
OTTAWA, CANADA

HULL 250 "R.B. YOUNG"
STEERING PIPING SCHEMATIC

DRAWN BY	WAGNER, M. McL	APPROVED BY	C.C.G.
DATE	JUNE 12, 1989	APPROVED BY	A.B.S. SEPT 8, 1989
SCALE	NTS	APPROVED BY	D.F.O.
DLB-BM No	921	DWG. No	039 - 212

PSD55-33-90