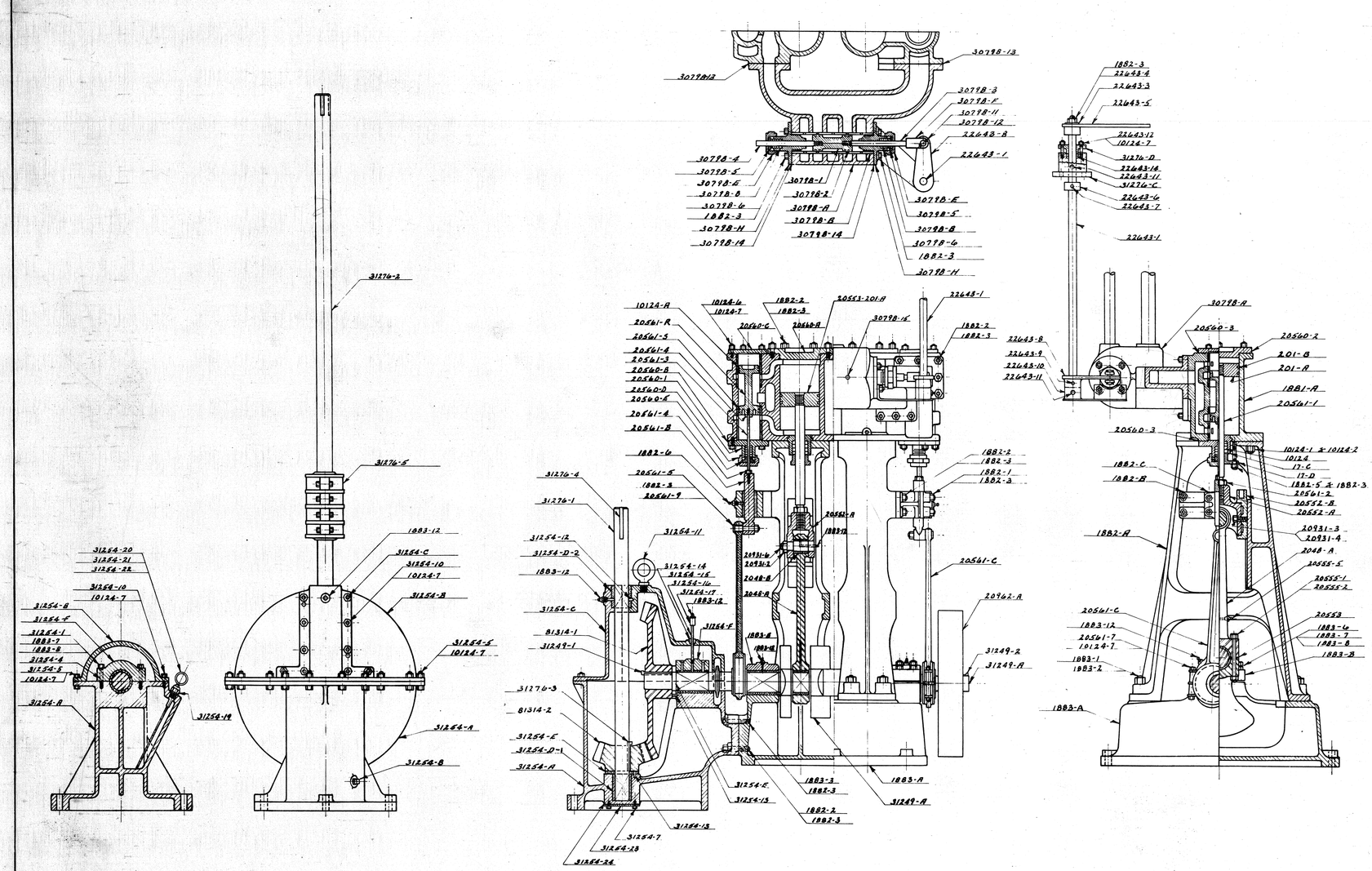
	DATE	REVISION
A	12-11-50	PARTS LIST PIECE No CHANGED
B	12-11-50	" " "



PARTS LIST : AMOUNTS GIVEN ARE FOR ONE VERTICAL WINDLASS ENGINE UNIT

AMT.	PIECE MARK	DESCRIPTION
1	30798-A	SEMI STL. VALVE BODY
1	30798-B	BRONZE VALVE BUSHING
1	30798-C	BRONZE PACKING NUT
1	30798-E	BRONZE CLEVISE
2	30798-H	SEMI STL. VALVE COVER
1	30798-1	STEEL VALVE
6	30798-2	2½"x⅝" CAST IRON COMP. RINGS
1	30798-3	1" DIA. x 11⅛" Lg. C.R.S. VALVE STEM
1	30798-4	1" DIA. x 10" Lg. C.R.S. TAIL STEM
2	30798-5	1⅞" x 1⅞" O.D. x 1" I.D. - ⅝" Lg. BRONZE GLAND
8	30798-6	⅝" DIA. x 2⅝" Lg. STEEL MILLED STUDS
10	30798-8	RINGS ⅝" SQ. PACKING
1	30798-11	⅝" x 2⅝" C.R.S. PIN
20	30798-12	⅛" DIA. x 1" Lg. COTTER PIN
2	30798-13	9⅝" x 15½" x 1/16" COMP. GASKET
2	30798-14	6½" O.D. x 2⅝" I.D. x ⅛" COMP. GASKET
2	30798-15	½" CAST IRON SQ. HD. PIPE PLUG
1	31249-19	CAST STEEL CRANK-SHAFT
1	31249-1	⅝" x ⅝" x 4⅝" Lg. STEEL TAPERED GIB KEY
1	31249-2	⅝" x ⅝" x 4⅝" Lg. STEEL TAPERED GIB KEY
1	31254-A	CAST IRON GEAR CASE
1	31254-B	CAST IRON COVER
1	31254-C	CAST IRON COVER
1	31254-D-1	3" O.D. x 2⅜" I.D. x 4" Lg. BRONZE BUSHING
1	31254-D-2	3" O.D. x 2⅜" I.D. x 3½" Lg. SPLIT BRONZE BUSHING
1	31254-E	5" O.D. x 2½" I.D. x ½" THK. BRONZE THRUST WASHER
1	31254-F	5" O.D. x 3⅛" I.D. x ½" THK. BRONZE THRUST WASHER
1	31254-H	CAST IRON BEARING CAP
4	31254-1	⅝" x 4½" STEEL MILLED STUDS
2	31254-4	½" DIA. x 2⅝" Lg. STEEL DOWEL
19	31254-5	⅝" x 1" Lg. STEEL HEX HD. MACH. BOLTS
6	31254-7	⅝" x ⅝" Lg. STEEL HEX HD. CAP SCREWS
1	31254-8	1" CAST IRON SQ. HD. PIPE PLUG
11	31254-10	½" x 2" Lg. STEEL MILLED STUDS
1	31254-11	1" STEEL SHOULDER EYE BOLT
1	31254-12	⅜" DIA. x ⅜" Lg. BRASS DOWEL
2	31254-13	½" DIA. x 1" Lg. BRASS DOWEL
1	31254-14	½" x ⅝" BRASS OUTSIDE HEX PIPE BUSHING - REAMED ⅜"
1	31254-15	RING ⅝" SQ. COMP. PACKING
1	31254-16	⅝" x 5½" Lg. STEEL PIPE NIPPLE
1	31254-17	⅝" STD. STEEL PIPE COUPLING
1	31254-19	STEEL OIL GAUGE BUSHING
1	31254-20	¼" DIA. STEEL GAUGE ROD
1	31254-21	½" x 3" STD. STEEL PIPE NIPPLE
1	31254-22	⅝" STD. M.I. PIPE CAP
1	31254-23	STEEL COVER
2	31254-24	1/16" THICK COMP. GASKET
1	31276-1	2⅝" DIA. C.R.S. SHAFT
1	31276-2	2⅝" DIA. C.R.S. SHAFT
1	31276-3	⅝" x ⅝" x 4½" Lg. TAPER GIB KEY
1	31276-4	⅝" x ⅝" x 10" Lg. STRAIGHT KEY
1	31276-5	2⅝" BORE CAST IRON COMP. COUPLING
1	81314-1	48 T. 2 DP. CAST STL. CUT BEVEL GEAR
1	81314-2	10 T. 2 DP. FORGED STL. CUT BEVEL PINION
1	31276-C	CAST IRON STUFFING BOX
1	31276-D	CAST IRON GLAND
4	20561-4	⅝" STD. HY. HEX JAM NUTS

SPARE PARTS LIST

AMOUNTS GIVEN ARE FOR ONE VERTICAL WINDLASS ENGINE UNIT

2	20552-B	CROSSHEAD SHOES
2	201-B	6" DIA. PISTON RINGS
4	20561-5	3⅜" DIA. PISTON VALVE RINGS
1	2048-B	CONN. ROD CROSSHEAD BUSHING
1	20561-9	ECCENTRIC ROD BUSHING
3	10124-3	⅝" x 2½" CYL. HEAD STUDS
4	10124-4	⅝" CYL. HEAD STUD HEX NUTS
4	10124-6	½" x 2" VALVE COVER STUDS
4	10124-7	½" VALVE COVER STUD HEX NUTS
1	17-D	PISTON ROD GLAND
1	1882-5	⅝" x 5" PISTON ROD GLAND STUD
1	20560-D	VALVE STEM STUFFING BOX NUT
1	31254-D	GEAR CASE VERTICAL SHAFT BUSHING

PARTS LIST : AMOUNTS GIVEN ARE FOR ONE VERTICAL WINDLASS ENGINE UNIT

AMT.	PIECE MARK	DESCRIPTION
2	17-C	CAST IRON STUFFING BOXES
2	17-D	CAST IRON GLANDS
2	201-A	CAST IRON PISTON
4	201-B	CAST IRON PISTON RINGS
1	1881-A	CAST IRON CYLINDER
2	1882-A	CAST IRON COLUMNS
2	1882-B	CAST IRON VALVE STEM GUIDE
2	1882-C	CAST IRON GUIDE CAP
8	1882-1	⅝" x 4½" STEEL HEX. HD. MACH. BOLTS
46	1882-2	⅝" x 2½" STEEL STUDS
72	1882-3	⅝" STD. HVY STEEL HEX NUTS
4	1882-5	⅝" x 6" STEEL GLAND STUDS
2	1882-6	⅜" DIA. 1610 STEEL ALEMITE FITTING
1	1883-A	CAST IRON BED PLATE
2	1883-B	CAST IRON BED PLATE CAPS
8	1883-1	1" x 4½" STEEL SQ. HD. MACH. BOLTS
8	1883-2	1" STD. HVY. STEEL HEX NUTS
2	1883-3	⅝" x 3½" STEEL SQ. HD. MACH. BOLTS
8	1883-6	⅝" x 5½" STEEL SQ. HD. MACH. BOLTS
16	1883-7	⅝" STD. HVY STEEL HEX NUTS
12	1883-8	⅝" STD. HVY STEEL HEX JAM NUTS
10	1883-12	⅛" No. 1610 BRASS ALEMITE HYDRAULIC TYPE FITTING
2	2048-A	CAST STEEL CONNECTING RODS W. CAPS
2	2048-B	BRONZE BUSHING
8	10124-1	¾" x 2¾" STEEL STUDS
16	10124-2	¾" STD. HVY. STEEL HEX NUTS
20	10124-6	½" x 2" STEEL STUDS
56	10124-7	½" STD. HVY. STEEL NUTS
8	10124-	RINGS ⅝" SQ. COMP. PISTON ROD PACKING
4	10124-A	CAST IRON BUSHINGS - 2⅜" Lg.
2	20552-A	CROSSHEAD
4	20552-B	CROSSHEAD SHOE
6	20555-1	⅝" x 7½" STEEL COUPLING BOLTS
4	20555-2	⅝" STEEL D.C. HEX NUTS
	20555-5	S. STEEL SHIMS
2	20555-5	⅜" NO. 1610 STL. ALEMITE FITTING 1.75" ELBOW
2	20560-A	CAST IRON CYLINDER HEAD
2	20560-B	CAST IRON VALVE CHEST HEAD
2	20560-C	CAST IRON VALVE CHEST HEAD
2	20560-D	2" CAST IRON STUFFING BOX NUT
1	20560-E	CAST IRON GLAND
12	20560-1	RINGS ⅝" SQ. COMP. VALVE STEM PACKING
2	20560-2	½" GASKET "100 GARLOCK OR EQUAL
4	20560-3	½" GASKET "100 GARLOCK OR EQUAL
1	20561-B	CAST IRON VALVE STEM CROSSHEAD
2	20561-C	SEMI-STL. RECEIVING STRAP
2	20561-R	CAST IRON VALVE
8	20561-5	CAST IRON VALVE RING
1	20561-1	1½" DIA. C.R.S. PISTON ROD
1	20561-2	⅝" STD. HVY. HEX JAM NUT - STEEL
1	20561-3	⅝" x 10½" C.R.S. VALVE STEM
1	20561-5	⅝" x 1" x 3⅝" Lg. STEEL PIN
4	20561-7	⅝" x 4½" STEEL HEX HD. TURNED BOLT
1	20561-9	1" O.D. x ⅝" I.D. BRONZE BUSHING
1	2091-2	1½" STEEL STD. HEX JAM NUT
4	2091-3	⅝" x 1½" STEEL HEX HD. CAP SCREW
4	2091-4	½" STEEL STD. LOCK WASHER
2	2091-6	1⅛" DIA. x 2⅝" Lg. STL. CROSSHEAD PIN
1	20962-A	22" DIA. CAST IRON FLYWHEEL
1	22643-1	1½" DIA. C.R.S. SHAFT
1	22643-3	⅝" STD. WASHOUT STEEL WASHER
1	22643-4	⅛" x 1" STEEL COTTER PIN
1	22643-5	STEEL HAND LEVER
1	22643-6	1½" O.D. x 1⅛" I.D. x 1⅛" STEEL COLLAR
1	22643-7	½" x ⅝" STEEL SQ. HD. CUP PT. SET SCREW
1	22643-8	6" STEEL LEVER
1	22643-9	No. 6 STD. STEEL TAPER PIN 2¾" Lg.
1	22643-10	STEEL BRACKET BEARING
2	22643-11	⅜" DIA. 1610 STEEL ALEMITE FITTING
2	22643-12	½" x 2⅜" STEEL GLAND STUDS
4	22643-14	RINGS ⅝" SQ. FLAX PACKING

W-33-092	LT-784 TO		"
EC-1087	LT-793 INCL.		
W-2789	LT-633-640 INCL.		"
EC-1310	LT-649-653 INCL.		
W-2789	LT-317 TO	MARIETTA MFG. CO.	
EC-252	LT-231 INCL.		
CONTRACT NUMBER	ARMY DESIGNATION	BUILDER	

ORD No.	DATE	PURCHASER	LIST No.

MARIETTA MANUFACTURING COMPANY

POINT PLEASANT, WEST VIRGINIA

6" x 8" VERTICAL WINDLASS ENGINE UNIT

SECTIONAL ASSEMBLY & PARTS LIST

DR.	TR.	CK.	APPR.	CH. ENGR.
DATE 6-6-44	SCALE		DRAWING NUMBER 31403	
REVISED				

DWG 10 SECTIONAL ASSEMBLY & PARTS LIST 6" x 8" VERTICAL WINDLASS ENGINE UNIT 31403