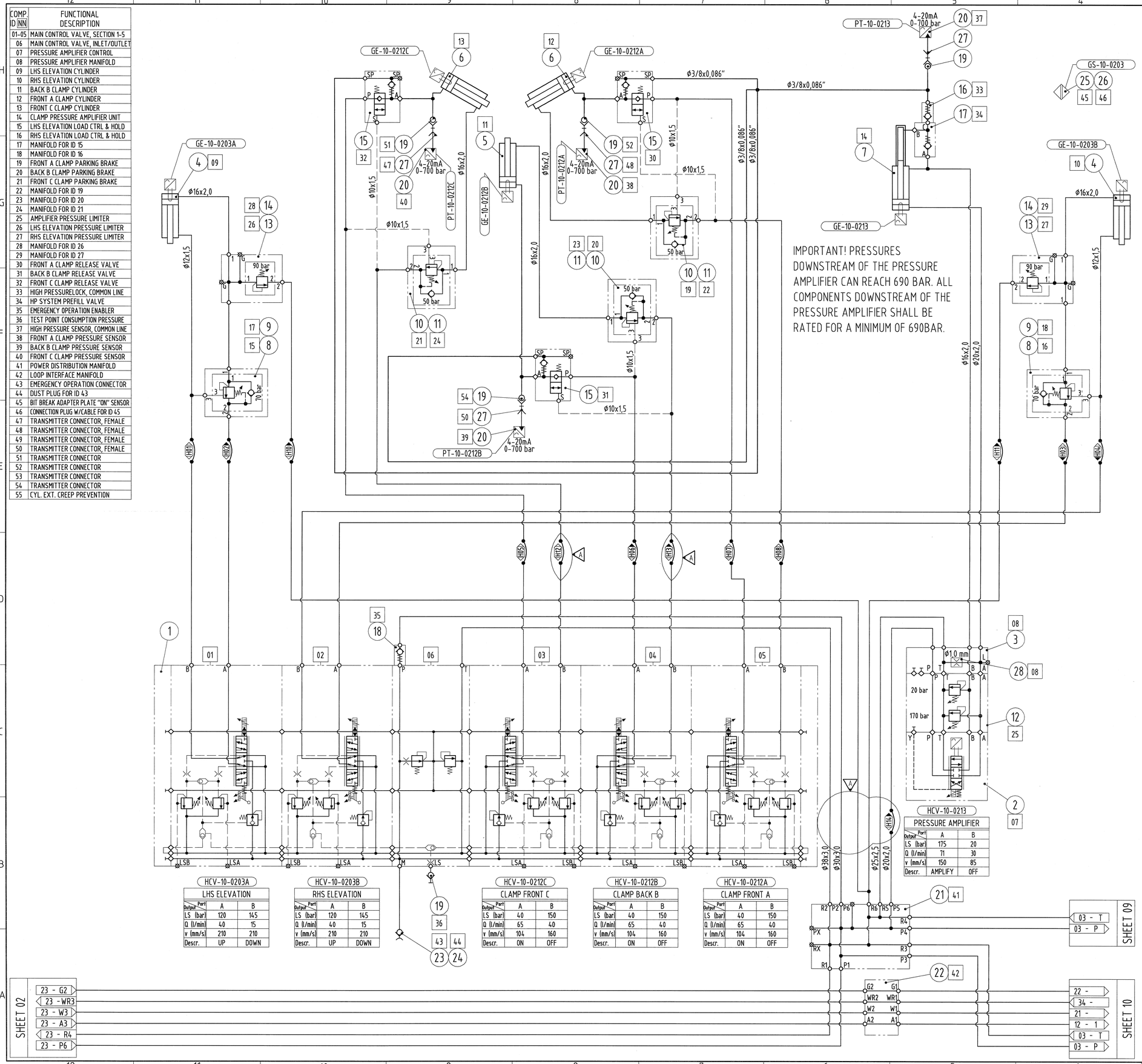
COMP. ID NN	FUNCTIONAL DESCRIPTION
01-05	MAIN CONTROL VALVE, SECTION 1-5
06	MAIN CONTROL VALVE, INLET/OUTLET
07	PRESSURE AMPLIFIER CONTROL
08	PRESSURE AMPLIFIER MANIFOLD
09	LHS ELEVATION CYLINDER
10	RHS ELEVATION CYLINDER
11	BACK B CLAMP CYLINDER
12	FRONT A CLAMP CYLINDER
13	FRONT C CLAMP CYLINDER
14	CLAMP PRESSURE AMPLIFIER UNIT
15	LHS ELEVATION LOAD CTRL & HOLD
16	RHS ELEVATION LOAD CTRL & HOLD
17	MANIFOLD FOR ID 15
18	MANIFOLD FOR ID 16
19	FRONT A CLAMP PARKING BRAKE
20	BACK B CLAMP PARKING BRAKE
21	FRONT C CLAMP PARKING BRAKE
22	MANIFOLD FOR ID 19
23	MANIFOLD FOR ID 20
24	MANIFOLD FOR ID 21
25	AMPLIFIER PRESSURE LIMITER
26	LHS ELEVATION PRESSURE LIMITER
27	RHS ELEVATION PRESSURE LIMITER
28	MANIFOLD FOR ID 26
29	MANIFOLD FOR ID 27
30	FRONT A CLAMP RELEASE VALVE
31	BACK B CLAMP RELEASE VALVE
32	FRONT C CLAMP RELEASE VALVE
33	HIGH PRESSURELOCK, COMMON LINE
34	HP SYSTEM PREFILL VALVE
35	EMERGENCY OPERATION ENABLER
36	TEST POINT CONSUMPTION PRESSURE
37	HIGH PRESSURE SENSOR, COMMON LINE
38	FRONT A CLAMP PRESSURE SENSOR
39	BACK B CLAMP PRESSURE SENSOR
40	FRONT C CLAMP PRESSURE SENSOR
41	POWER DISTRIBUTION MANIFOLD
42	LOOP INTERFACE MANIFOLD
43	EMERGENCY OPERATION CONNECTOR
44	DUST PLUG FOR ID 43
45	BIT BREAK ADAPTER PLATE "ON" SENSOR
46	CONNECTION PLUG W/CABLE FOR ID 45
47	TRANSMITTER CONNECTOR, FEMALE
48	TRANSMITTER CONNECTOR, FEMALE
49	TRANSMITTER CONNECTOR, FEMALE
50	TRANSMITTER CONNECTOR, FEMALE
51	TRANSMITTER CONNECTOR
52	TRANSMITTER CONNECTOR
53	TRANSMITTER CONNECTOR
54	TRANSMITTER CONNECTOR
55	CYL. EXT. CREEP PREVENTION



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THIS IS A COMPUTER AIDED DRAWING AND MUST NOT BE ALTERED MANUALLY

Tolerances except as noted

Welding except as noted

Rev.	Description of revision	Chck.	Appr.	Date / Sign.
0	ISSUED FOR CONSTRUCTION	BRT	OH	06-MAR-07/KE
A	ADDED HOSE H12,H13 & H14, ADDED INSERT NO 2 ON HOSES,REM H09	BRT		04-JUL-07/KE

NOTE!

HYDRAULIC TUBE / PIPE / FITTING:

PROPERTIES ACC. TO MH STD. PIPING SPECIFICATION, SA17-0001, PIPING CLASS SHEET(S):
ISO1 MH / AUTOCLAVE 20000 psi
TUBE / PIPE: DIMENSIONS ACC. TO FLOW DIAGRAM.
FITTING TYPE: ISO 8434-2 (SAE J514), WITHOUT SOFT SEAL IN FITTING NOSE (O-RING)
FLANGE TYPE: ISO 6162-1 & 2 (SAE J518C 61 & 62)

PRESSURE FLUID:

HYDRAULIC MINERAL OIL ISO HV TYPE (DIN HVLP)
PERMISSIBLE UPPER OPERATIONAL CONTAMINATION LIMIT:
ISO 4406, CODE 16 / 13 (SAE AS4059, CLASS 7).

GRAPHICAL SYMBOLS:

HYDRAULIC & PNEUMATIC DIAGRAMS BASED ON ISO 1219.
ELECTRIC INSTRUMENTS BASED ON ISO 1219 AND IEC617

ARROWHEAD: FLOW DIRECTION
COMPONENT ID-NO.
UTILISED PORT NAME

NNNN-NNNA = INT. ID-NOZZLE (INTERCONNECTION BY MH)
NNNN-NNNA = EXT. ID-NOZZLE (INTERCONNECTION BY OTHERS)

SHEET NO	MH DRWG NO	CONTENTS OF DRAWING
13	1818059	TORQUE MASTER, HOSE SCHEDULE FOR SHEET 07-10
12	1818058	TORQUE MASTER, HOSE SCHEDULE FOR SHEET 04-06
11	1818057	TORQUE MASTER, HOSE SCHEDULE FOR SHEET 01-03
10	1818056	TORQUE MASTER, TWL
09	1818055	TORQUE MASTER, CASING STABBING GUIDE
08	1818054	TORQUE MASTER, BACK-UP TONG
07	1818053	TORQUE MASTER, SPINNER
06	1818052	TORQUE MASTER, MAIN TONG CHUCK
05	1818051	TORQUE MASTER, MAIN TONG CHUCK CONTROL
04	1818050	TORQUE MASTER, MAIN TONG DRIVE
03	1818049	TORQUE MASTER, MAIN TONG DOLLY
02	1818048	TORQUE MASTER, MAIN FRAME
01	1818047	TORQUE MASTER, MANIFOLD IN DERRICK

Qty.	Item	Description	Drwg./Material	Unit weight	Part number
1	28	ORIFICE 1,0			5041225
4	27	DIRECT CONNECTION FOR PRESSURE			57877
1	26	15M CABLE W/QUICK CONNECTOR			55126
1	25	PROXIMITY SWITCH			55125
1	24	PLUG FOR QUICK COUPLING			24370
1	23	QUICK COUPLING, FEMALE			24360
1	22	MANIFOLD			5039046
1	21	DISTRIBUTION MANIFOLD			5039000
4	20	PRESSURE TRANSMITTER			58108
5	19	TEST COUPLING W/BALL M16x2/G1			11993
1	18	CHECK VALVE			19583
1	17	CHECK VALVE			48433
1	16	CHECK VALVE			48642
3	15	PILOT OPERATED CHECK VALVE			48432
2	14	MANIFOLD WITH CAVITY: T-10A			57584
2	13	PRESSURE RELIEF VALVE, CART.			29694
1	12	DOUBLE RELIEF VALVE			26165
3	11	MANIFOLD WITH CAVITY: T-11A			56755
3	10	COUNTERBALANCE VALVE,CART.			56810
2	9	MANIFOLD WITH CAVITY: T-11A			53580
2	8	COUNTERBALANCE VALVE, CARTR.			53579
1	7	PRESS.AMPLIFIER W/TEMP			48615
2	6	HYDRAULIC CYLINDER W/SENSOR			48617
1	5	HYDRAULIC CYLINDER W/SENSOR			48616
2	4	HYDRAULIC CYLINDER W/SENSOR			55596
1	3	MANIFOLD W/BLEED A-T, CETOP 5			5041027
1	2	SERVO VALVE COMPLETE			48277
1	1	CONTROL VALVE BLOCK			57776

Date	Drawn	Traced	Scale
29-NOV-05	JHB	KE	NA
Checked	Approved	Projection	
BRT	OH		

Maritime Hydraulics

HIGH EFFICIENCY JACK-UP B276
TORQUE MASTER, BACK-UP TONG
HYDRAULIC FLOW DIAGRAM, SHEET 08

Replaces	Replaced by	
Format	Drawing number	Rev.
A1	UM 1818054	A