Pioneer

WORKOVER PLATFORM (SEWOP)

OPERATIONAL ENVELOPE

WORKING AREA	Liverpool Bay
MAX WATERDEPTH	39.3m
@airgap	30m
@penetration	2.0m (max allow 3.96)
DESIGN CRITERIA	
WATER DEPTH	39.3m/36.0m
WAVE HEIGHT	9.45m/13.1m
WAVE PERIOD	10.2s/12.2s
WIND SPEED	Sea Level 60kt/70kt
CURRENT	Tidal 2.4kt, Wind driven at surface 1.02/1.38kt
TRANSIT MODE	
WAVE HEIGHT	2.0m
JACKING MODE	
WAVE HEIGHT	2.0m
WAVE PERIOD	9s
WIND SPEED	40kt
CURRENT	1.9kt
LOGISTICS	Elevated 30 days/46 POB
ENDURANCE	Transit 12.5 days

GENERAL

OWNER	Halliburton Manufacturing & Services Limited
OPERATOR	Halliburton Manufacturing & Services Limited
YEAR BUILT	Keel laid 11th August 1994 Entered service 1st April 1996
MISSION	SEWOP
CERTIFYING AUTHORITY	ABS +A1, +AMS, +ACCU, Self Elevating Unit
CERTIFICATION	
United Kingdom COF	Yes
Holland COF	No
MODU Code	MODU Code (modified MODU)
MARPOL 1978	Yes
USCG	No

HALLIBURTON MANUFACTURING & SERVICES LTD
REGISTERED IN ENGLAND NO. 611451. REGISTERED OFFICE: HILL PARK COURT, SPRINGFIELD DRIVE, LEATHERHEAD, SURREY KT22 7NL

XFM0766 March 2002

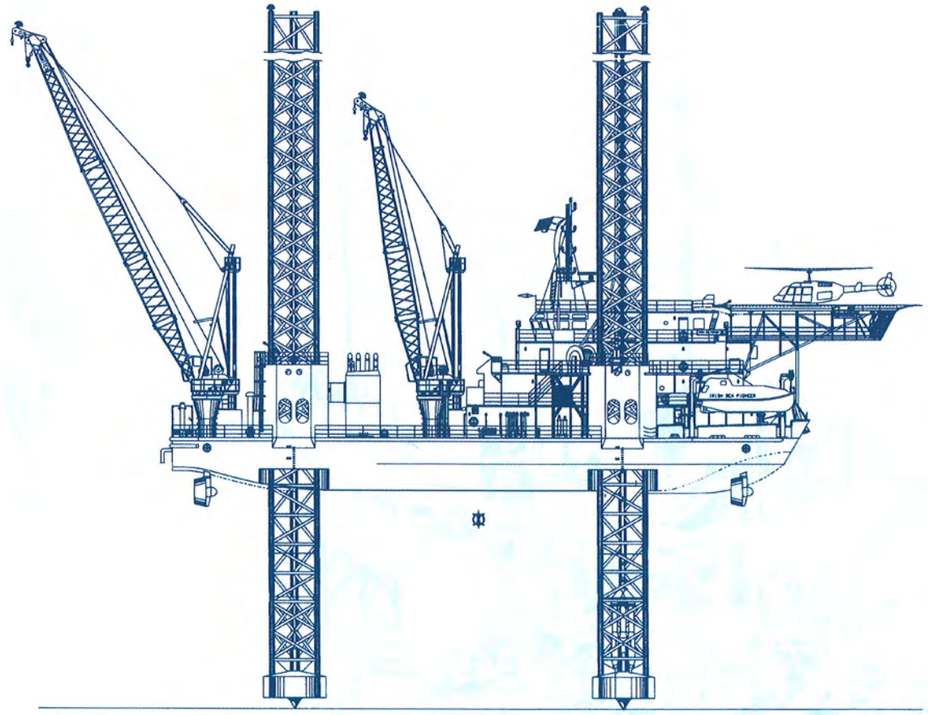
HALLIBURTON

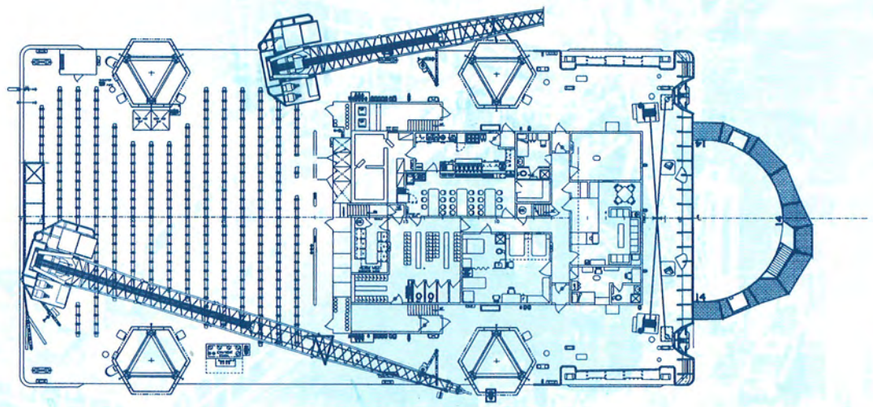
Irish Sea

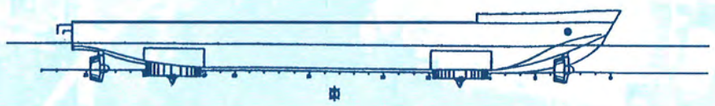
SELF ELEVATING

MARINE SPECIFICATION

LENGTH	55.168m
MAX LENGTH	56.61m
BREADTH	28.041m
DEPTH	4.876m
JACKHOUSE	6.4m main deck to house top
DRAFT	3.32m summer, actual add 1.6m to tip of spud can
MAX VDL MOVING	227te
MAX VDL ELEVATED	227te
NAVIGATION	Simrad Robertson
	AP9Mk2 Autopilot
	ROBPOS RDP600 joystick control
	CD109 course detector
PROPULSION CONFIG.	4 azimuthing thrusters, 2 on bow, 2 on stern 3928kW 8kt
MAIN PROPULSION	Aquamaster
DRIVE TYPE	Caterpillar 3512
PROPS TYPE	US401/3000
POWER	2 x 1119kW
OTHER	Aquamaster
THRUSTERS	
MANUFACTURER	Aquamaster
MODEL	US1401/3000
DRIVE TYPE	Elect var Hz
POWER	2 x 895kW
OTHER	
MAIN POWERPLANT	
ENGINES	3
MANUFACTURER	Caterpillar
MODEL	3512
TOTAL POWER	3210kW/600VAC
EMERGENCY GENERATOR	250kW/480v Caterpillar 3406
WINCHES	2
TYPE	Single drum
RATED PULL	5.5te
HOLDING CAP	8te
SPEED	6m/min
DRUM CAPACITY	300m
CABLE SIZE	50mm
ANCHORS	2
WEIGHT	1.5te
TYPE	-
LEGS	4
TYPE	Le Tourneau latice
SIZE	3.97 triangle
LENGTH	73.24
FOOTING AREA/LEG	23m^2
SPUDS RETRACTABLE	Semi 1.6m pr'tuson
JETTING SYSTEM	In cans only







CONTACT

ISP Rig Manager
Halliburton Manufacturing & Services Ltd
Forties Road, Montrose, Angus, Scotland DD10 9ET
Tel. +44 (0)1674 675959 • Fax +44 (0)1674 674385

MARINE SPECIFICATION cont.

JACKING SYSTEM	
TYPE	Rack & pinion
SPEED	3.7m/min raise & lower legs 1.8m/min raise hull
FUEL STORAGE	208m^3
POTABLE WATER	300m^3
INDUSTRIAL WATER	230m^3 (in Brine Tanks)
ACCOMODATION	
PERMANENT BEDS	46
1 MAN CABINS	4
2 MAN CABINS	21
4 MAN CABINS	0
DECK MODULES	Can fit if required
AIR CONDITIONED	TR yes
GALLEY SEAT	22
LIFEBOATS	
NR	2
MODEL	Watercraft 8.5 Mk IV
TYPE	Gravity Davit
CAPACITY	60
TOTAL CAPACITY	2 x 60
LIFERAFTS	6 each RFD
TOTAL CAPACITY	6 x 20
HELIDECK	
HELICOPTER TYPE	Dauphine 365N
REFUELLING FACILITIES	No

AUXILIARIES

AIR COMPRESSORS	3
PRESSURE	8.6 bar (125 psi)
CAPACITY	2 x 1.56cmm, 1 x 7cmm (2 x 55cfm, 1 x 250cfm)
WELDING PLANT	1
WATER MAKERS	None fitted
SEWAGE TREATMENT	Yes

WELL SERVICE FACILITIES

WORK DECK AREA	399/492m^2
WORK DECK CAPACITY	2.63 Te/m^2

Item	Units	Description
GENERAL		
OWNER		ENI UK Ltd
OPERATOR/DUTY HOLDER		Petrofac Facilities Management Ltd
YEAR BUILT		Keel laid 11th Aug 1994. First registered 1st April 1996.
MISSION		SEWOP
CERTIFYING AUTHORITY		ABS +A1, +AMS, +ACCU, Self Elevating Unit.
CERTIFICATION		
United Kingdom COF		Yes
Holland COF		No
MODU Code		MODU Code (modified MODU)
MARPOL 1978		Yes
USCG		No
OPERATIONAL ENVELOPE		
WORKING AREA		Liverpool Bay
MAX WATERDEPTH	m	39.3
@ airgap	m	30
@ penetration	m	2.0 (max allow 3.96)
DESIGN CRITERIA		
Water depth	m	39.3 / 36.0
Wave height	m	9.45 / 13.1
Wave period	s	10.2 / 12.2
Wind speed	kt	Sea level 60 / 70
Current	kt	Tidal 2.4, Wind driven at surface1.02 / 1.38
TRANSIT MODE		
Wave height	m	2.0
JACKING MODE		
Wave height	m	2.0
Wave period	s	9
Wind speed	kt	40
Current	kt	1.9
MARINE SPECIFICATION		
LENGTH	m	55.168
MAX LENGTH	m	56.61
BREADTH	m	28.041
DEPTH	m	4.876
JACKHOUSE	m	6.4 main deck to house top.
DRAFT	m	**3.32** summer, actual add 1.6 to tip of spud can.
DRAFT LIGHTSHIP	m	1.83
DISPLACEMENT	Te	2,692.0
MAX VDL MOVING	Te	227
MAX VDL ELEVATED	Te	227

Item	Units	Description
NAVIGATION		Simrad Robertson AP9Mk2 Autopilot ROBPOS RDP600 joystick control. CD109 course detector.
PROPULSION CONFIG.		4 azimuthing thrusters 2 on bow, 2 on stern 3928 kW 8 kt
MAIN PROPULSION		Aquamaster
drive type	-	Caterpillar 3512
props type	-	US 1401 / 3000
power	kW	2 x 1119 kW
other		
THRUSTERS		
Mnftr		Aquamaster
Model		US 1401 / 3000
Drive type		Elect var Hz
Power		2 x 895 kW
Other		
MAIN POWERPLANT		
Engines	qty	3
Mnftr	-	Caterpillar
Model	-	3512
Total power	kW/VAC	3210 / 600
EMERGENCY GENERATOR	kW	250 kw / 480 V Caterpillar 3406
WINCHES	each	2
Type	-	single drum
Rated pull	Te	5.5
Holding cap	Te	8
Speed	m/min	6
Drum capacity	m	300
Cable size	mm	50
ANCHORS	each	2
Weight	Te	1.5
Type	-	
LEGS	each	4
Type	-	LeTourneau lattice
Size	m	3.97 triangle
Length	m	73.24
Maximum Elevation Height	m	69.93
Footing area / leg	m^2	23
Spuds retractable		semi 1.6m protrusion
Jetting system		in cans only (No longer functioned)
JACKING SYSTEM		
Type	-	Rack & pinion
Speed	m / hr	219.6 raise & lower legs 109.8 raise hull Siemens var Hz
FUEL STORAGE	m^3	208
POTABLE WATER	m^3	300

Item	Units	Description
ACCOMODATION		
Permanent beds	beds	46
1 man cabins	-	6
2 man cabins		18
4 man cabins		0
Deck modules		can fit if required
Air conditioned		TR yes
Galley seats		22
LIFEBOATS		
Nr		2
Model		Watercraft 8.5 Mk IV
Type		Gravity davit
Capacity		46
Total capacity		2 x 46
LIFERAFTS	each	6 RFD
total capacity		6 x 20
HELIDECK		
Helicopter type		Dauphine 365N
Refuelling facilities		No
AUXILLIARIES		
AIR COMPRESSORS	qty	3
Pressure	bar (psi)	8.6 (125)
Capacity	cmm (cfm)	2 x 1.56, 1 x 7 (2 x 55, 1 x 250)
WELDING PLANT		1
WATER MAKERS		No
SEWAGE TREATMENT		Yes
WELL SERVICE FACILITIES		
WORK DECK AREA	m^2	399 / 492
WORK DECK CAPACITY	Te / m^2	2.63
DRILLING FLUID STORAGE		BRINE
Tanks	m^3	200
Total surface volume	m^3	2 x 100
HP pumping	y/n	no
ENVIRONMENTAL		OWS >15 ppm
Waste water treatment		no
CRANE 1		Port
Mnftr	-	Manitex
Model	-	ML 7200
boom length	m	24.38
max load	Te	36
radius @ max load	m	20.0
max radius	Te	25.47 m
max radius load	m	19.8 Te
CRANE 2		Aft

Item	Units	Description
mnftr	-	Manitex
model	-	ML 7200
boom length	m	33.53
max load	Te	36
radius @ max load	m	13
max radius	Te	34.6 m
max radius load	m	12.6 Te
GANGWAYS (personnel bridge)	Qty	1 (Fixed location Stb'd Aft)
Bridge Length	m	10.5m
Length from Transom	m	10.2

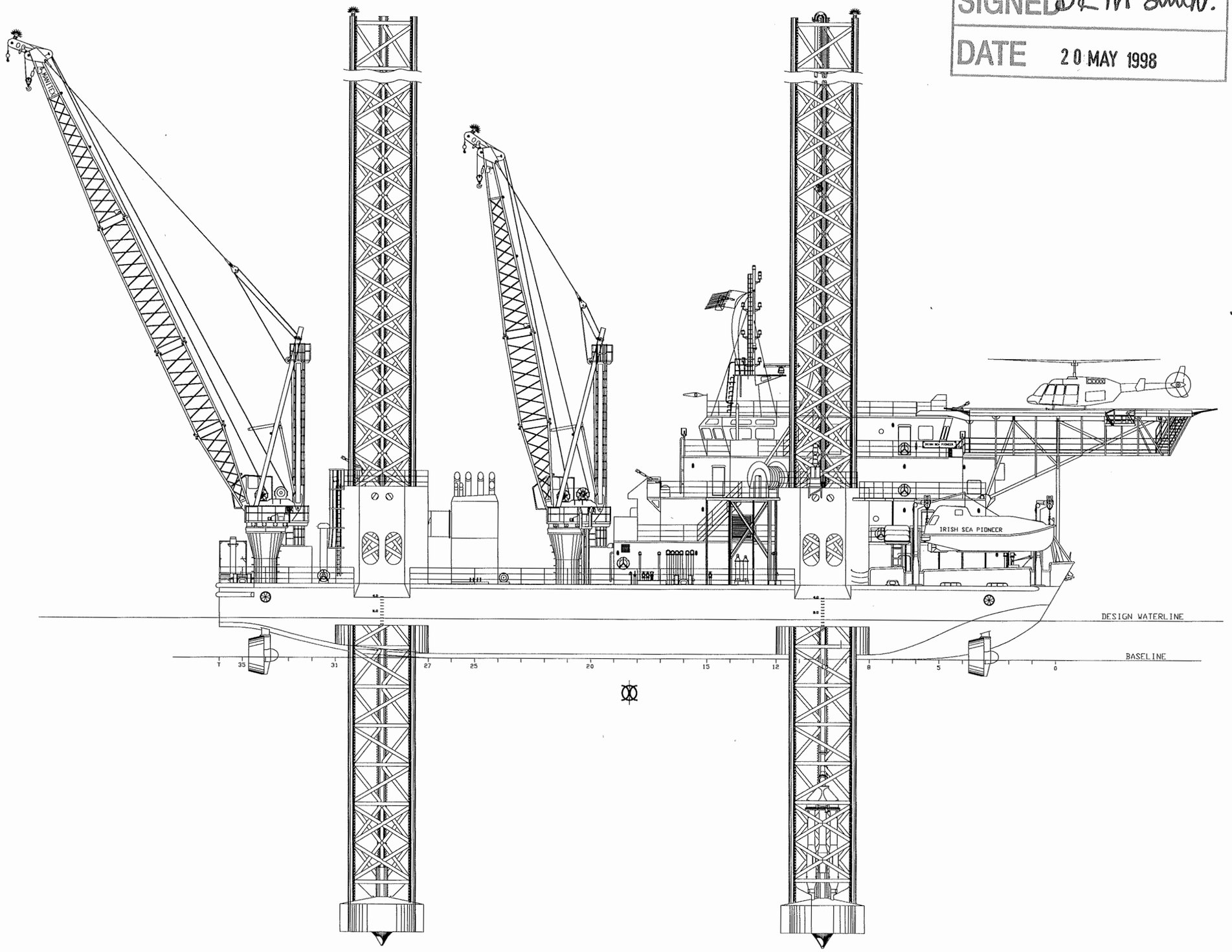
Further useful information

Distances from lowest point on leg:
Tip of spike to base of spud Can: 1.20 metres
Tip of spike to top of Spud Can: 3.42 metres
Tip of spike to first horizontal lacing: 4.49 metres
Tip of spike to submersible pumps suction strainers: 5.32 metres

Dimensions of leg components:
Lacing diameter: 9"
Height of one leg bay: 2.55 metres (8' 4.5")
One round = 4 leg bays = 10.21 metres (33' 6.125")

Detail on Spud Can Jetting System:
Jetting supply via 4" diameter X-HVY A-53 pipework.
Inlet flange 4" 150# FFSO
Jetting nozzles 1.5" diameter X-HVY A-53 pipe. Nine in total.
Jetting deflectors 4" Nine in total on base of Spud Can.

Power supply:
Based on 600 V, 60 Hz, 250 kW



REVISIONS

REV	DESCRIPTION	DATE	APPROVED
A	INCORPORATES MORE REALISTIC CONCEPT OF FINAL HELIPAD DESIGN. REMOVED ENGINE EXHAUST STACK. ADDS DEVELOPED CONCEPT OF JACKHOUSES. INCORPORATES LEG STRUCTURE OF CURRENT DESIGN W/SUBMERSIBLE PUMP CLUSTER.(FWD) ADDS: FIRE MONITORS, DEVELOPED MAST, INFLATABLE LIFE RAFTS, SELECTED CRANES, EXTERIOR DECKHOUSE LIGHTING, SEARCHLIGHTS, VESSEL NAME, AND RECESSES IN HULL FOR LEG CANS.	11/30/94 11/30/94 11/30/94 11/30/94	 RG LJB RJL
B	SHEET 1 1)REVISED PLATFORM BRIDGE, JACKHOUSES, BITTS, VENT TRUNK, MAST, LIFERAFTS ON 02 DECK, ANCHOR, DRAFT MARKS AND HELIPAD 2)ADDED VENTSAND LIFE RING	1/16/95 1/16/95 1/16/95	BB JCB RJL
C	REVISED TO INCORPORATE OWNER CHANGE AND TO REFLECT CURRENT CONFIGURATION.		

GENERAL NOTES

1) HELIPAD AS SHOWN IS CONCEPTUAL ONLY.
2) LIFEBOAT SHOWN REPRESENTS SCHAT PRODUCT MODEL V/1V 60-MAN.
3) ~~CABLE AND HOSE REEL AS SHOWN FOR SUBMERSIBLE PUMPS IS A GENERAL REPRESENTATION WHICH IS IN DEVELOPMENT. DETAILS OF REEL & LOCATION WILL BE FINALIZED PENDING REV. B OF THIS DWG.~~
4) ANCHOR AS SHOWN IS CONCEPTUAL ONLY.
5) ~~FINAL EXHAUST STACK ARRANGEMENT DEVELOPMENT IS PENDING JACKHOUSE DEVELOPMENT.~~

REF NO	DRAWING TITLE	DRAWING NO.

REFERENCES

BMS PLAN DISTRIBUTION

REVISION	-	A	B	C
DATE		11/30/94	01/16/95	08/05/95
OWNER		4	5	
ABS		4	4	
ENG		4	4	
PRODUCTION		2	2	
Q.A.		1	1	
T & T		1	1	
CHAND		1	1	
PROJECT MGR		1	1	

DRAWN: LJB	DATE: 04/29/94
CHKD.: B.K.	DATE: 06/14/94
REVW.: RJL	DATE: 06/14/94
Q.A.: RG	DATE:
APVD.: JMH	DATE: 06/14/94

CONTRACT NO:

BOLLINGER MACHINE SHOP & SHIPYARD
P.O. BOX 850, LOCKPORT LA. 70374
PHONE: (504) 532-2554 TELEX: 58-4127

181' X 92' X 16' LIFTBOAT OUTBOARD PROFILE

SIZE	HULL NO	DWG NO	REV
H	286	7955-G2	C

SCALE: 1/8"=1'-0" JOB NO: 7955 SHEET 1 OF 1

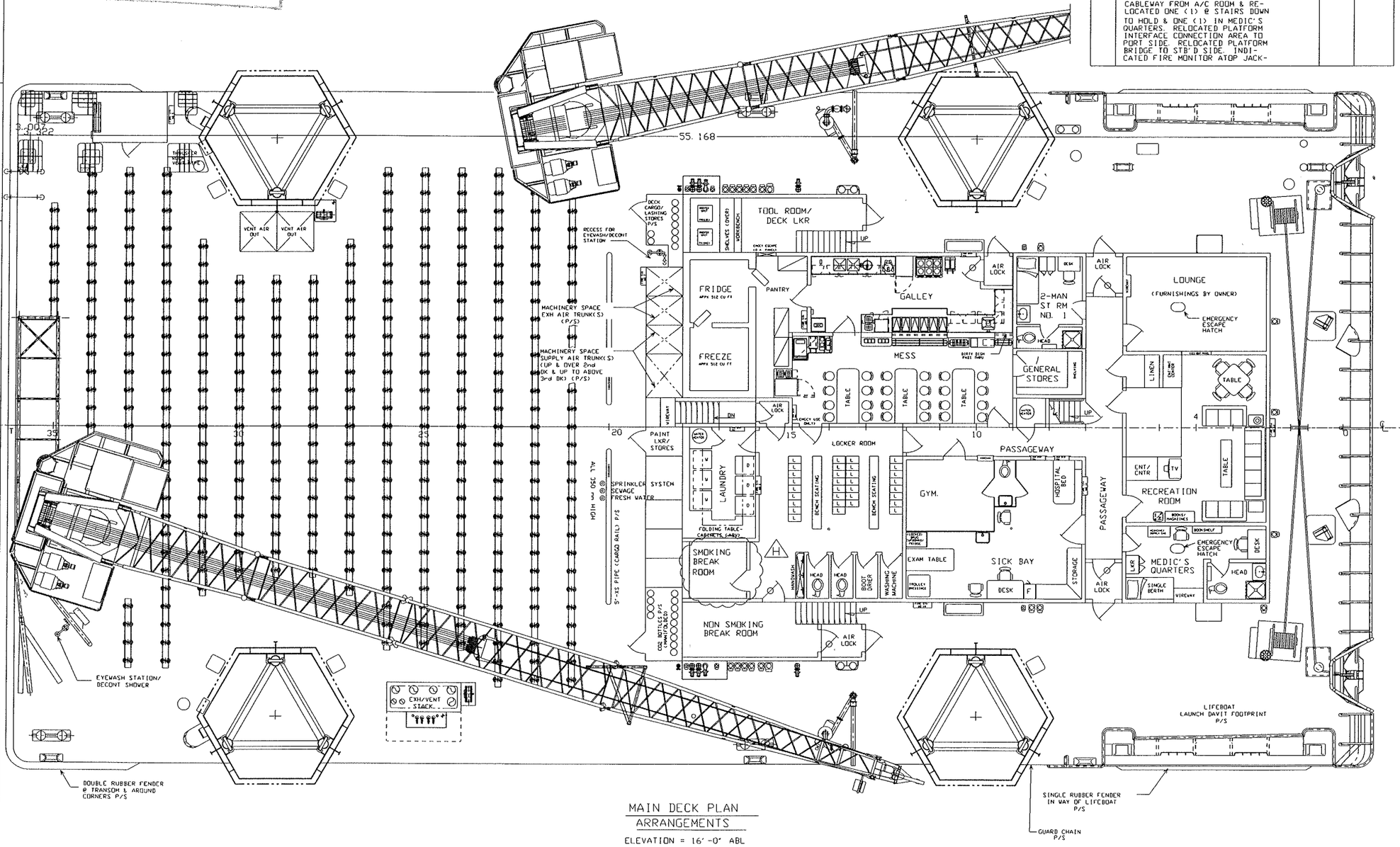
REVISIONS			
REV	DESCRIPTION	DATE	BY
C	FOR FOLLOWING SHTS 2 THRU 5: SEE EACH INDIVIDUAL SHT FOR ITS RELATIVE INFORMATION ON REVISIONS		
D	SHEET 1: REVISED TO INCORPORATE OWNER CHANGES & TO REFLECT CURRENT CONFIGURATIONS.		
E	SPRINKLER, SEWAGE AND FRESH WATER SERVICES TO TEMPORARY ACCOMMODATION	17th AUGUST 1999	ASM
F	DOG-HOUSE DOOR AND THRUSTER ROOM VENT MOVED FOR SAT SPREAD.	04/09/01	ASM
G	ADDITION OF GYMNASIUM AND TOILET	09/06/03	ASM
H	NEW SMOKING BREAK ROOM DOCK VISIT 2004	13/01/05	SE

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B CONT	HOUSE P/S. ADDED EYEWASH/DECONTAMINATION SWR @ AFT(STBD) JACKHOUSE(NEAR BRIDGE). ADDED CONFIGURATION OF ANCHOR HANDLING @ BOW P/S. NOTE: PENDING FINAL TOWING & VENTILATION REQMTS FOR P/S THRUSTER COMPTS, ANCHOR HANDLING IS TO BE CONSIDERED "PRELIMINARY".		
C CONT	ALL SHEETS REVISED TO SUIT REV. 4 OF "DESIGN PREMISE". SHEET 1: ADDED CRANE BOOM REST, VENTS, FILL & DISCHARGE STATIONS & CABLEWAY. MODIFIED PLATFORM BRIDGE, JACKING TOWER, EXH/VENT STACK, EXH/SUPPLY AIR TURNK, BITTS, DECONT STA, & CARGO RAILS PER DESIGN DEVELOPMENT	1/6/95 LJB	

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B CONT	SELECTED CRANES (MANITEX MOD ML 7200). ADDED TRASH COMPACTOR AND REFRIGERATION UNITS INSIDE TOOL ROOM. RELOCATED CO2 CYLINDERS FROM MACHINERY SPACES IN HOLD TO AFT DK LKR P/S. SYSTEM WILL NOW BE MANIFOLDED TO COMMON BANK OF CYLINDERS W/100% CYLINDER BANK AVAILABILITY. INDICATED ID FOR 2-MAN ST RM AS BEING NO 1. REMOVED AREA RESERVED FOR SUBMERSIBLE PUMPS OUTB'D BETWEEN FR 12 & 16 P/S. REVISED WIDTH OF DOOR TO LAUNDRY, WAS 30", NOW IS 36". ADDED DOORS @ WATER HEATER (BELOW STAIRS), A/C ROOM @ FR 6 & FROM SICKBAY FOR "EMERGENCY USE ONLY". REMOVED CABLEWAY FROM A/C ROOM & RELOCATED ONE (1) @ STAIRS DOWN TO HOLD & ONE (1) IN MEDIC'S QUARTERS. RELOCATED PLATFORM INTERFACE CONNECTION AREA TO PORT SIDE. RELOCATED PLATFORM BRIDGE TO STB'D SIDE. INDICATED FIRE MONITOR ATOP JACK-		

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
–	INCORPORATES OWNER/OPERATOR COMMENTS FOR RELEASE AS CONTRACT DOCUMENTARY DRAWING.	6/1/94 LJB	
A	INCORPORATES OWNER COMMENTS FROM RETURNED PRINTS DATED 6/7/94. ALSO INCORPORATES COMMENTS FROM DESIGN REVIEW MEETING MINUTES DATED 6/27/94.	7/14/94 LJB	
	REVISIONS ARE AS FOLLOWS: SHT 1, MN DK, RELOCATED PORT SIDE CRANE TO FR 21, ADDED EMGCY ECSAPE SCUTTLE OUT FROM PANTRY, ADDED "EMGCY USE ONLY" DOOR OUT OF MESS, RELOCATED BHD FOR HEAD (PORT SIDE 2-MAN ST RM), REDUCED SIZE OF MEDIC QUARTERS, CHANGED BENCH SEATING IN MESS TO STOOLS, ADDED AIRLOCK DOWN TO HOLD, WHICH RELOCATES STAIRS (DOWN). IND PLATFORM BRIDGE & INTERFACE AREAS. IND FWD & AFT THRUSTER COMPT ACCESS P/S. REVISED JACKHOUSE CONFIGURATION & IND OVERHANGS (ABV MN DK). ADDED DBL BITTS & FENDERING, ADDED CARGO RAILS, ADDED EYEWASH & DECONT SWRS, REV VENT TRUNK ROUTING LABELS TO COMPARTMENTS BELOW, RELOCATED WATER HEATER FROM HOUSEKEEPING TO BELOW STAIRS, ADDED BULWARKS @ BOW, INDICATED LIFEBOAT LAUNCH DAVIT FOOTPRINT P/S, ADDED AFT DK STORAGE LKRS P/S, SHT 2, 2ND DK, REMOVED AIRLOCK ENTRY AND ADDED DOOR INTO EMGCY GEN RM, ADDED EQUIPMENT INSIDE PCC & EMGCY GEN RM. SHT 3, 3RD DK, CLARIFIED NOTES FOR VENTILATION, ADDED SHELVING IN REC/DEBRIEF AREA, REVERSED CH ENG/OFFICER ST RM, INDICATED WASHER/DRYER REQMTS. SHT 4, BRIDGE DK, REVISED LOC OF AFT HOUSE BHD TO FR 15, ADDED AIRLOCK @ P/S ENTRANCE INTO HOUSE (UNDER STAIRS). ALL DECKS, ADDED PORTLIGHTS @ EXTERIOR DOORS INTO ALL DECK HOUSES.		
A	SHT 5, TANK ARRANGEMENT, ADDS GEAR OIL & MISC OIL TKS, RENAMED TREATED SEWAGE TKS TO BRINE WATER TKS, ADDED SEACHEST & SEAWATER HOLDING TKS, RENAMED ALL BALLAST TANKS TO PRELOAD TANKS, REVISED CONFIGURATION OF FRESH WATER TANK BHD FWD OF FR 22.	7/14/94 LJB 7/21/94 RJL 7/22/94 BB 7/22/94 JAM	
B	ALL DECKS: ADDS FIRE STATIONS AND POWER DISTRIBUTION PNLS. SHT 1, MAIN DECK: REVISED TO INDICATE CORRECT ORIENTATION	10/6/94 LJB	

Date 7/2/05
Signed
MASTER COPY



MAIN DECK PLAN
ARRANGEMENTS
ELEVATION = 16'-0" ABL

REFERENCES

BMS PLAN DISTRIBUTION

REVISION	-	A	B	C	D				
DATE	6/3/94	7/14/94	10/6/94	1/6/95	8/16/95				
OWNER	3	3	4	5					
USCG	0	0	-	-					
ABS	0	3	4	4					
PRODUCTION	0	3	2	2					
ENGINEERING	1	2	5	4					
Q A	0	1	1	1					
TEST & TRIALS	0	1	1	1					
STA	0	1	1	1					

DRAWN LJB	DATE 04/19/94
CHKD BK	DATE 06/01/94
RVWD RJL	DATE 06/02/94
Q A RG	DATE 06/02/94
APVD JAM	DATE 06/03/94

CONTRACT NO

BOLLINGER MACHINE SHOP & SHIPYARD
P.O. BOX 250, LOCKPORT, LA. 70374
PHONE: (504) 532-2554 TELEX 58-4127

181' X 92' X 16' LIFTBOAT
GENERAL ARRANGEMENTS

SIZE	DRWG NO	REV
H	7955-G3	H

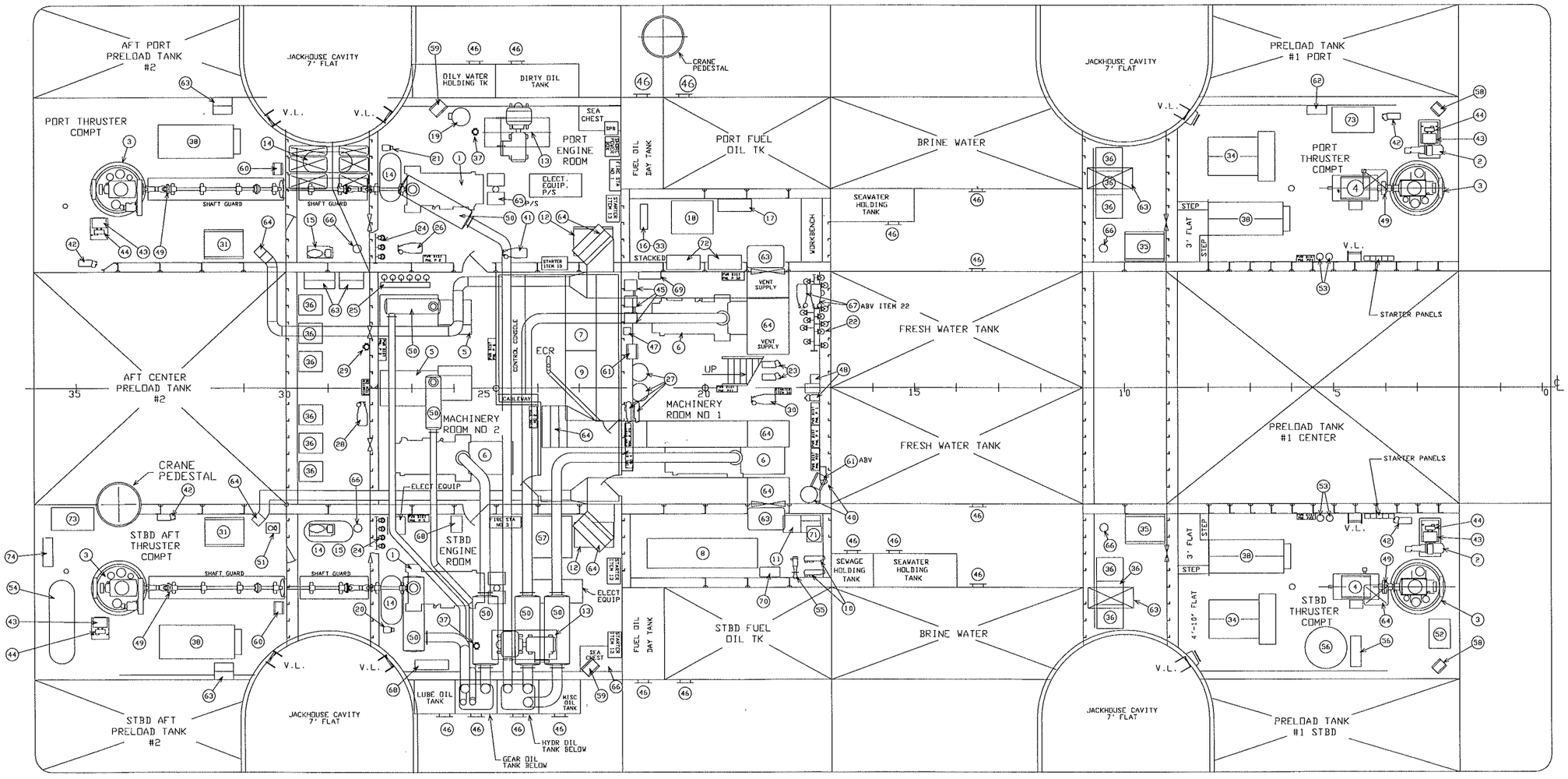
SCALE 3/16"=1'-0" JOB NO 7955 SHEET 1

8/10/95 8:30

MASTER COPY

SIGNED DK M Smith.

DATE 20 MAY 1998



MACHINERY ARRANGEMENT

SIZE	HULL NO	DWG NO	REV
H	286	7955-M1	D
SCALE=3/16"= 1'-0"	JOB NO=7955	SHEET 2 OF 2	

08/23/95 11:00

EQUIPMENT LISTING

NO.	DESCRIPTION	QTY
1	MN ENG FOR PROPULSION - CAT 3512	2
2	AQUAMASTER STEERING PUMP (REMOTE MOUNTED)	2
3	360G THRUSTER - AQUAMASTER 1401	4
4	ELECTRIC MOTOR	2
5	GENERATOR (SHIP SERVICE) - CAT 3408	2
6	GENERATOR (AUXILIARY) - CAT 3512	3
7	SWITCHBOARD (SHIP SERVICE)	1
8	SWITCHBOARD (AUXILIARY NO.1)	1
9	SWITCHBOARD (AUXILIARY NO.2)	1
10	SEWAGE VACUUM PUMP	2
11	MARINE SANITATION DEVICE	1
12	S.S. XFMR BANK (3) 150 KVA, 1 PH, XFMRS	2
13	FIRE PUMP (PLATFORM SERVICE) (OVER & UNDER)	4
14	COMPRESSED AIR RECEIVER	4
15	AIR COMPRESSOR	2
16	FUEL OIL TRANSFER PUMP	1
17	FUEL OIL MANIFOLD	1
18	FUEL OIL CENTRIFUGE	1
19	OILY WATER SEPARATOR	1
20	LUBE OIL PUMP	1
21	DIRTY OIL PUMP	1
22	BILGE MANIFOLD	1
23	BILGE PUMP	2
24	BILGE MANIFOLD (LOCAL)	2
25	PRELOAD MANIFOLD	1
26	PRELOAD/BILGE PUMP	1
27	FRESH WATER PRESSURE SET	2
28	FIRE PUMP (VESSEL SERVICE)	1
29	FIRE PUMP (VESSEL SERVICE) JOCKEY PUMP	1
30	PRELOAD PUMP/EMERGENCY FIRE PUMP	1
31	PHASE SHIFTING TRANSFORMER (JACKING MOTOR)	2
32	REMOVED	
33	FUEL OIL STAND-BY PUMP	1
34	MODULATED VARIABLE FREQUENCY CONVERTER	2
35	ISOLATION TRANSFORMER (THRUSTER MOTOR)	2
36	DYNAMIC BRAKING SYSTEM (JACKING MOTOR)	12
37	FIRE PUMP (PLATFORM SERVICE) JOCKEY PUMP	2
38	VARIABLE FREQUENCY DRIVES	4
~~39~~	~~PORTLIGHT (12' DIA)~~	~~2~~
40	GENERAL SERVICE SEAWATER PRESSURE SET	1

EQUIPMENT LISTING

NO.	DESCRIPTION	QTY
41	BRINE WATER PUMP (OVER & UNDER)	2
42	COOLING WATER PUMP (STEERING & GEAR OIL)	4
43	AQUAMASTER HYD OIL TK (REMOTE MOUNTED)	4
44	AQUAMASTER HD TK/PROP OIL SEAL (REMOTE MT)	4
45	TRANSFORMER (LIGHTING) (12.5 KVA)	3
46	15'X 23' RAISED MULTIBOLT W.T. MANHOLE	17
47	TRANSFORMER(SERVICE RECEPTACLES) (1)7.5 KVA	1
48	BROMINATOR FILTRATION SYSTEM	1
49	SHAFTING SYSTEM	AS REQD
50	EXHAUST SYSTEM	AS REQD
51	HYDRAULIC POWER UNIT (STERN FIRE MONITORS)	1
52	LIFE BOAT AIR COMPRESSER	1
53	LIFE BOAT AIR RECEIVERS	4
54	AIR RECEIVER (INSTRUMENT AIR)	1
55	SEWAGE TRANSFER PUMP	1
56	SPRINKLER PUMP & TANK	1
57	ECR AIR HANDLER	1
58	P/S FWD THRUSTER RM SPACE HEATERS 20KW	2
59	P/S ENG RM SPACE HEATERS 30KW	2
60	P/S AFT THRUSTER RM SPACE HEATERS 12.5KW	2
61	MACHINERY SPACE NO 1 SPACE HEATER	2
62	BATTERY CHARGER	1
63	EXHAUST AIR VENT	A/R
64	SUPPLY AIR VENT	A/R
65	SOUND POWERED PHONE P/S	2
66	SEA CHEST	6
67	A/C CHILLER PUMP ABV	2
68	MACHINERY LATHE	1
69	24 VOLT DC PANEL	1
70	CHLORINATER	1
71	BLEACH TANK	1
72	ACC 4 POWER SUPPLY ABV	2
	BATTERY BOXES AND BATTERIES BELOW	2
	ABT-1 PANEL 29	1
73	HYDRAULIC POWER UNIT FOR RATCHET CHOCKS	2
74	HYDRAULIC POWER UNIT FOR PLATFORM BRIDGE	1

REVISIONS

REV	DESCRIPTION	DATE	APPROVED
B	RELOCATED ITEM# 2,4,8,9,12,24,26,27,28,29,31,37, 38,41,43, & 45. MODIFIED THE EQPT LIST-QTY(ITEM#) 14,38,41, & 42. RELOCATED VERTICAL LADDERS AS NEEDED.	12/2/94 CAL 12/5/94	LJB RG RJL
C	CHANGED ECR'S AFT BHD PER ENGINEERING DESIGN DEVELOPMENT. ADDED: VENTILATION DUCTS, SHAFT GUARDS, & PWR DIST PNL. RELOCATED SEACHEST IN THRUSTER COMPT TO LEG CONTROL RM. REVISED JACKING TOWER STRUCTURE TO REFLECT CURRENT DESIGN DEVELOPMENT. RELOCATED ITEM# 5,6, & 50. MODIFIED ITEM# 5. MODIFIED EQPT LIST(ITEM#) 51 & 53. MODIFIED EQPT LIST-QTY(ITEM#) 16.	1/13/95 CAL 1/16/95	LJB RG RJL
D	RELOCATED SEACHEST IN FWD LEG CONTROL RM TO 30' AFT OF FR 10 MODIFIED OIL HOLDING TANKS MODIFIED ITEM# 50 ADDED SEWAGE TRANSFER KIT & SPRINKLER PUMP & TANK ADDED TO EQPT LIST(ITEM#) 55 THRU 74 MODIFIED VENTILATION PER ENGINEERING DESIGN DEVELOPMENT ADDED SPACE HEATERS TO ALL THRUSTER COMPARTMENTS P/S ENGINE ROOMS & MACHINERY SPACE #1 RELOCATED ITEM #35 AFT OF BHD 9 P/S IN THRUSTER RM RELOCATED ITEM #36 IN FWD THRUSTER RM AND REVISED SIZE ADDED LIFT BOAT AIR RECEIVERS AND TANKS IN FWD THRUSTER RM P/S REVISED DESCRIPTION TO ITEM #54 (WAS VENTILATION DUCTS)& ITEM #52 (WAS VERTICAL LADDED) DELETED PORT LIGHTS IN ECR ITEM NO 39 PER DEVELOPMENT ADDED ADDITIONAL AIR RECEIVERS IN PORT AND STBD ENGINE ROOMS PER DEVELOPMENT RELOCATED FIRE STATION #3 PER DEVELOPMENT ALSO, ADDED MACHINERY LATHE AND ELECTRICLA EQUIPMENT IN THE STBD ENGINE ROOM THE ABOVE REVISION CLOSES SKETCH #32		

REVISIONS

REV	DESCRIPTION	DATE	APPROVED
A	REVISED TH FOLLOWING PER: HAZOP ACTION NO.105: SEPERATES AIR RECVRS & COMPRESSORS TO MAIN ENGINE ROOM P/S. HAZOP ACTION NO.110: ADDS CO SYSTEM FOR ALL THRUSTER COMPARTMENTS. HAZOP ACTION NO.133: RELOCATES AFT JACKING MOTOR CONTROLLER CABINETS TO THRUSTER COMPARTMENT WITH MIN COMBUSTIBLES P/S. HAZOP ACTION NO.240: ADDS JOCKEY PUMP TO BOTH SHIP AND PLATFORM FIRE MAIN SYSTEMS. HAZOP ACTION NO.253: REPLACES FUEL FILTER COALESCER WITH CENTRIFUGAL SEPERATOR. HAZOP ACTION NO.260: REVISES TO REFLECT INSTALLATION OF BRINE SYSTEM PUMP LOCATION. REVISED THE FOLLOWING PER ENGINEERING DEV.: ADDED FLG PL STRUCTURE WITHIN COMPARTMENTS FOR EQUIPMENT LOCATION CONSIDERATIONS. MOVED MAIN ENGINE AFT P/S. (FACE OF FLY-WHEEL NOW @ FR 27). REMOVED WINDOWS IN E.O.S. XVSE BHD & RE-PLACED WITH TWO (2) 12' DIA PORTLIGHTS. REVERSED FORE/AFT ORIENTATION OF CAT 3512 GENERATORS (MACH RM NO 1). RELOCATED FUEL OIL SERVICE COMPONENETS TO MACH RM NO 1 (PORTSIDE). RE-ORIENTATED MAIN SHIP SERVICE & AUX NO 2 SWBD IN E.O.S. WHICH DELETES WT DOOR @ BHD 22 (PORTSIDE) INDICATED JACKING SYSTEM MOTOR CONTROLLERS AND RESISTOR BANKS FORE/AFT,P/S. RELOCATED PRELOAD PUMP FROM MACH RM NO 2 TO MACH RM NO 1. RELOCATED PRELOAD/BILGE PUMP FROM PORT ENG RM TO MACH RM NO 2. REMOVED HEATING UNIT (ITEM NO 30) & RE-DESIGNATED AS PRELOAD PUMP. REMOVED HPU FOR CRANES (ITEM NO 12) & RE-DESIGNATED AS SHIP SERVICE REDUCED VOLTAGE TRANSFORMERS. HP UNITS ARE NOW LOCATED TOP-SIDE LOCAL TO CRANES. RELOCATED ACCESS OPNGS @ BHD 30 TO 20'-0' OFF CENTERLINE P/S. REVISED LOCATION & ORIENTATION OF PLATFORM SERVICE FIRE PUMPS P/S. ADDED LIGHTING XFMR IN MACH RM NO 1. CLARIFIED & SEGREGATED AQUAMASTER'S REMOTE MOUNTED EQUIPMENT. (ALL 4 THRUSTER COMPTS) ADDED TWO (2) ISOLATION XFMRS FOR JACKING SYSTEM: 1-AFT/1-FWD.(BOTH ON STBD SIDE) RE-ORIENTATED CONVERTOR & XFMR FOR FWD THRUSTER MOTOR P/S. RELOCATED (LOCAL) BILGE MANIFOLD AFT NEAR BHD 28 & OUTB'D P/S. RELOCATED PORTSIDE CRANE PEDESTAL TO 42'-3' OFF CENTERLINE TO SUIT TAILSWING CLEARANCE TO SUPERSTRUCTURE. REVISED JACKING TOWER INTERNAL STRUCTURE TO REFLECT CURRENT DESIGN DEVELOPMENT.	LJB 9/12/94 9/13/94	RJL RG JB
B	RECONFIGURED ITEM# 2,7,8,9,12,24,25,31,34,35,36, 38,43,44,& 45. ADDED SHAFTS, EXHAUST SYSTEMS, W.T. MANHOLES, 7.5 KVA XFMR, PWR DIST PNLS, STARTER PNLS, FIRE STA, BROMINE FILTERATION SYS, HPU, VERTICAL LADDERS, SEACHEST, COOLING WTR PMP, & AIR RECIEVER. ADDED TO EQPT LIST-ITEM # 46 TO 53. MODIFIED EQPT LIST-DESCRIPTION(ITEM #) 12,13,30,31, 36,38,40,41, & 45. MOVED(ITEM #32)ACTIVE FIRE SYSTEM CYLINDERS TO MAIN DK & REMOVED CALLOUT. CHANGED CALLOUT FOR EOS TO ECR(ENGINE CONTROL RM). ADDED STANCHON @ FR 6 P/S, & @ FR 25 ON CL.		

SEE ZONE 3-H FOR CONTINUATION OF REVISIONS

GENERAL NOTES

REF NO	DRAWING TITLE	DRAWING NO.

REFERENCES

BMS PLAN DISTRIBUTION

REVISION	-	A	B	C	D
DATE	7/22/94	9/13/94	12/6/94	1/13/95	—/—/95
OWNER	3	4	4	4	
USCG	-	-	-	-	
ABS	3	4	4	4	
PRODUCTION	3	2	2	2	
ENGINEERING	2	4	4	4	
QUAL ASSUR	1	1	1	1	
TEST & TRIALS	1	1	1	1	
S.T.A.	1	1	-	-	
CHAND	1	1	1	1	
PROJECT MGR	1	1	1	1	

DRAWN	LJB	DATE: 5/10/94
CHKD.	BK	DATE: 7/21/94
RVWD.	RJL	DATE: 7/21/94
Q.A.	BB	DATE: 7/22/94
APPD.	JHH	DATE: 7/22/94

BOLLINGER MACHINE SHOP & SHIPYARD
P.O. BOX 250,LOCKPORT LA. 70374
PHONE: (504) 532-2554 TELEX: 58-4127

181' X 92' X 16'
LIFTBOAT
MACHINERY ARRANGEMENT

CONTRACT NO:

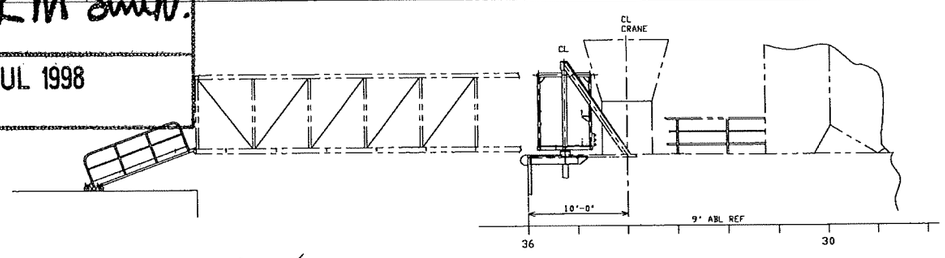
SIZE	HULL NO	DWG NO	REV
H	286	7955-M1	D

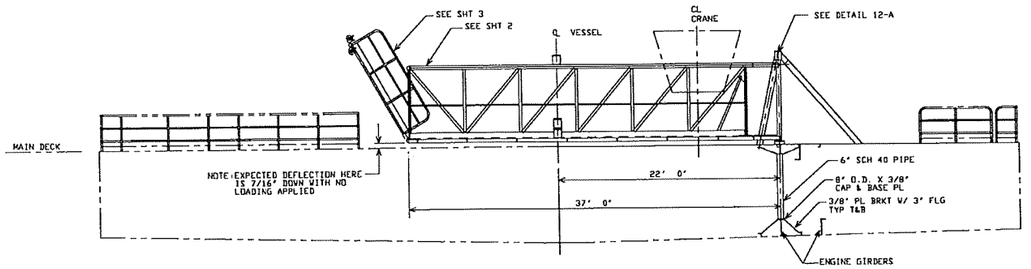
SCALE: 3/16"= 1'-0" JOB NO: 7955 SHEET 1 OF 2

D	D	REV	REV STATUS OF SHEETS
2	1	SHEET	

11:00 08/23/95

MASTER COPY
SIGNED DK M Smith.
DATE 20 MAY 1998



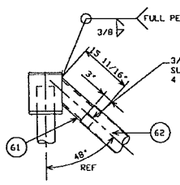


PLATFORM BRIDGE-VIEW TO PORT

-STOWED & DEPLOYED POSITIONS
-SCALE: 3/16"=1'-0"

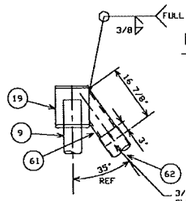
PLATFORM BRIDGE-STOWED POSITION

-VIEW ON TRANSOM
-SCALE: 3/16"=1'-0"



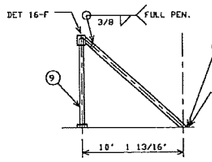
DETAIL 16-F

-3/4"=1'-0"



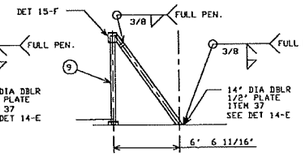
DETAIL 15-F

-3/4"=1'-0"



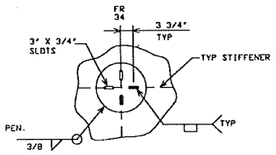
SECTION 16-E

-SHAFT SUPPORT
-SCALE: 3/16"=1'-0"



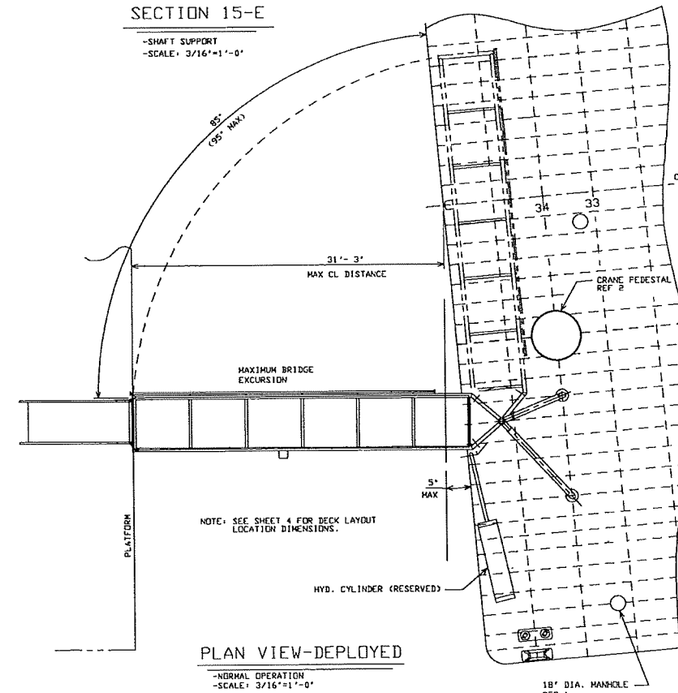
SECTION 15-E

-SHAFT SUPPORT
-SCALE: 3/16"=1'-0"



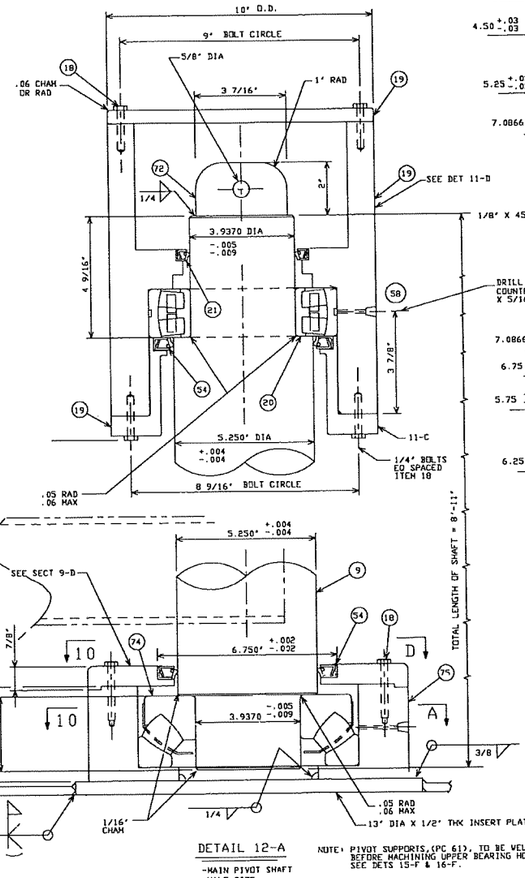
DETAIL 14-E

-DBLR PLUG WELDS
-3/4"=1'-0"



PLAN VIEW-DEPLOYED

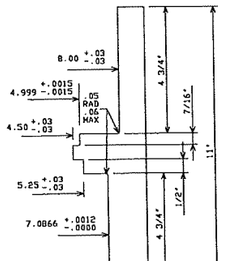
-NORMAL OPERATION
-SCALE: 3/16"=1'-0"



DETAIL 12-A

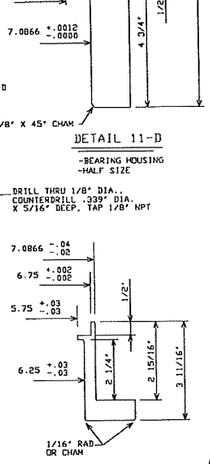
-MAIN PIVOT SHAFT
-HALF SIZE

NOTE: PIVOT SUPPORTS (PC 61) TO BE WELDED IN PLACE BEFORE MACHINING UPPER BEARING HOUSING (PC 19) SEE DETS 15-F & 16-F.



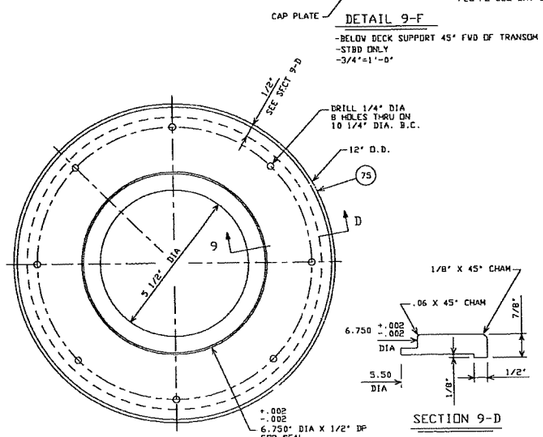
DETAIL 11-D

-BEARING HOUSING
-HALF SIZE



DETAIL 11-C

-SEAL RETAINER
-HALF SIZE

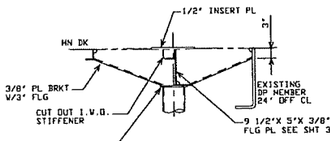


SECTION 10-D

-COVER PLATE
-HALF SIZE

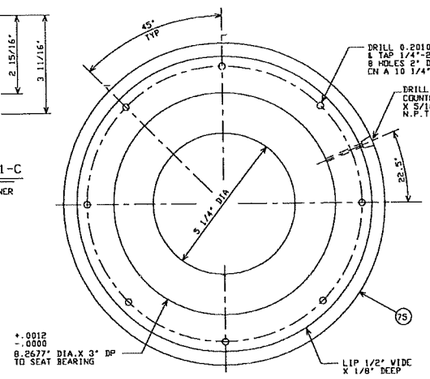
SECTION 9-D

TYP SECTION



DETAIL 9-F

-BELOW DECK SUPPORT 45° FWD OF TRANSOM
-STBD ONLY
-3/4"=1'-0"



SECTION 10-A

-BEARING SEAT
-HALF SIZE

SIZE	MULL NO	DWG NO	REV
H	286	7955-S16	B
SCALE: AS SHOWN	JOB NO: 7955	SHEET 2	

06/27/95 3:30

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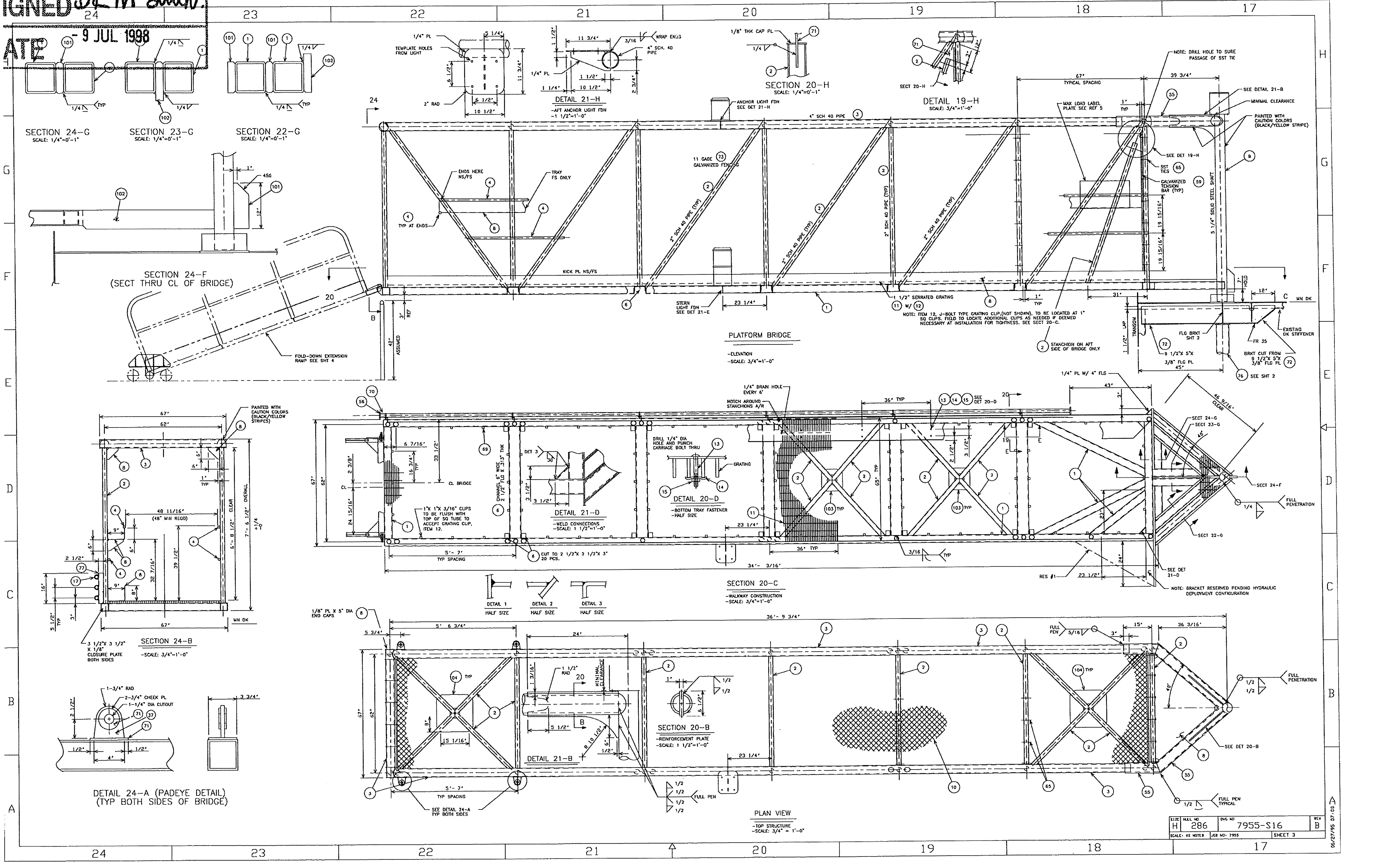
DATE - 9 JUL 1998



SECTION 24-G
SCALE: 1/4"=0'-1"
SECTION 23-G
SCALE: 1/4"=0'-1"
SECTION 22-G
SCALE: 1/4"=0'-1"
DETAIL 21-H
-AFT ANCHOR LIGHT FDN
-1 1/2"=1'-0"
SECTION 20-H
SCALE: 1/4"=0'-1"
DETAIL 19-H
SCALE: 3/4"=1'-0"
SECTION 24-F
(SECT THRU CL OF BRIDGE)
FOLD-DOWN EXTENSION RAMP SEE SHT 4
PLATFORM BRIDGE
-ELEVATION
-SCALE: 3/4"=1'-0"
4" SCH 40 PIPE
2" SCH 40 PIPE (TYP)
11 GAGE GALVANIZED FENCING
KICK PL NS/FS
1 1/2" SERRATED GRATING
NOTE: ITEM 12, J-BOLT TYPE GRATING CLIP,(NOT SHOWN). TO BE LOCATED AT 1" SQ CLIPS. FIELD TO LOCATE ADDITIONAL CLIPS AS NEEDED IF DEEMED NECESSARY AT INSTALLATION FOR TIGHTNESS. SEE SECT 20-C.
STANCHION ON AFT SIDE OF BRIDGE ONLY
NOTE: DRILL HOLE TO SURE PASSAGE OF SST TIE
MAX LOAD LABEL PLATE SEE REF 5
PAINTED WITH CAUTION COLORS (BLACK/YELLOW STRIPE)
5 1/4" SOLID STEEL SHAFT
GALVANIZED TENSION BAR (TYP)
EXISTING DK STIFFENER
SECTION 24-B
-SCALE: 3/4"=1'-0"
3 1/2"X 3 1/2" X 1/8" CLOSURE PLATE BOTH SIDES
DETAIL 21-D
-WELD CONNECTIONS
-SCALE: 1 1/2"=1'-0"
DETAIL 20-D
-BOTTOM TRAY FASTENER
-HALF SIZE
SECTION 20-C
-WALKWAY CONSTRUCTION
-SCALE: 3/4"=1'-0"
NOTE: BRACKET RESERVED PENDING HYDRAULIC DEPLOYMENT CONFIGURATION
DETAIL 1 HALF SIZE
DETAIL 2 HALF SIZE
DETAIL 3 HALF SIZE
DETAIL 24-A (PADEYE DETAIL)
(TYP BOTH SIDES OF BRIDGE)
DETAIL 21-B
SECTION 20-B
-REINFORCEMENT PLATE
-SCALE: 1 1/2"=1'-0"
PLAN VIEW
-TOP STRUCTURE
-SCALE: 3/4" = 1'-0"
SEE DETAIL 24-A TYP BOTH SIDES
H 286 7955-S16 B
SCALE: AS NOTED JOB NO: 7955 SHEET 3

CONTROLLED COPY NUMBER 1

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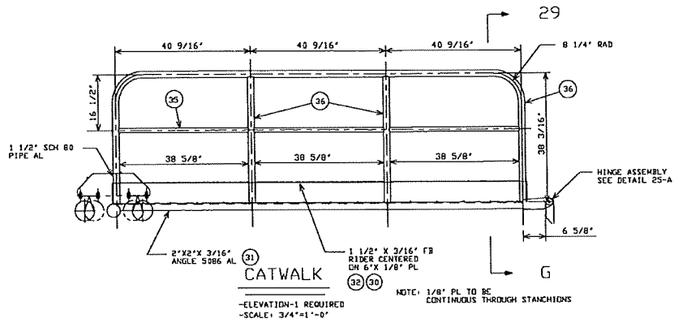
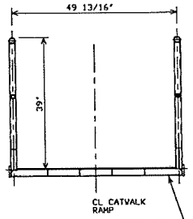


CATWALK

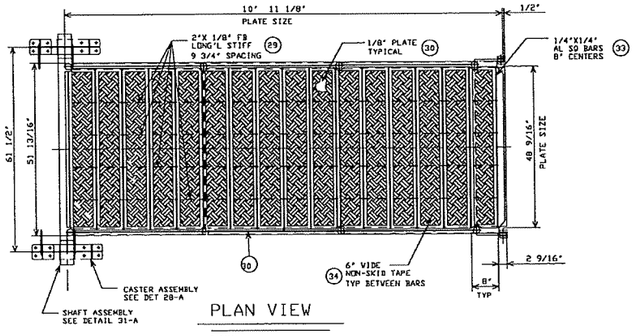
-ELEVATION-1 REQUIRED
-SCALE: 3/4"=1'-0"

NOTE: 1/8" PL TO BE CONTINUOUS THROUGH STANCHIONS



SECTION 29-G

-SCALE: 3/4"=1'-0"



PLAN VIEW

-CATWALK
-SCALE: 3/4"=1'-0"

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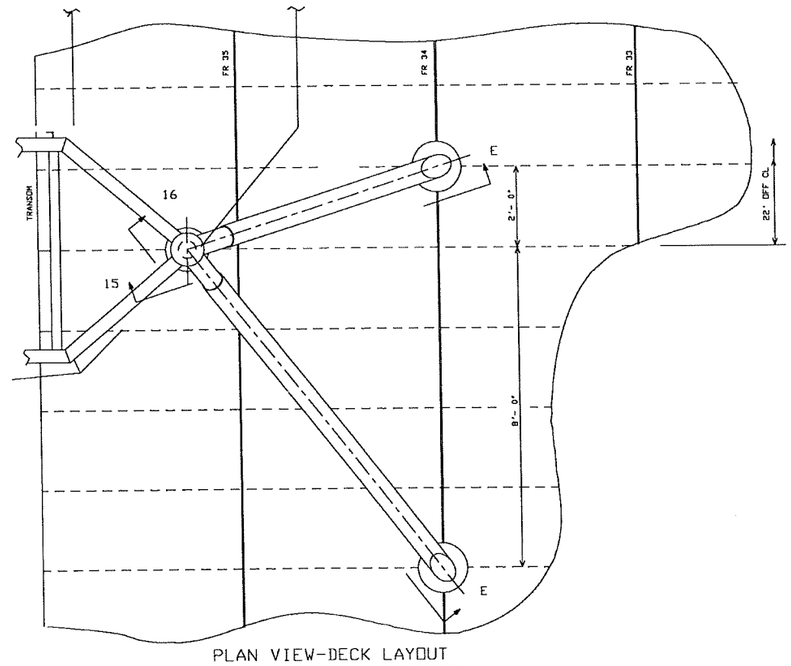
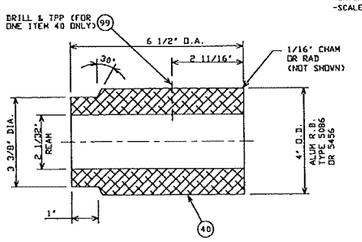
DATE - 9 JUL 1998



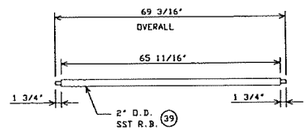
PLAN VIEW-DECK LAYOUT

-SCALE: 3/4"=1'-0"



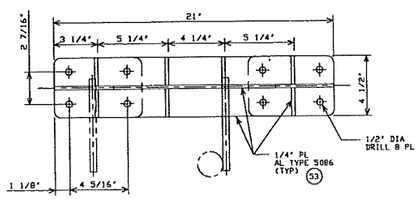
DETAIL 32-C

-BEARING HOUSING ALUMINUM INSERT
-HALF SIZE



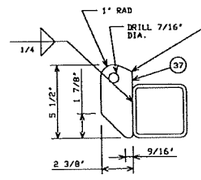
DETAIL 30-E

-CASTER MAIN SHAFT
-SCALE: 3/4"=1'-0"



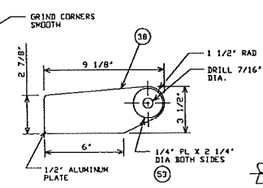
PLAN VIEW

-CASTER ASSEMBLY
-3"=1'-0"



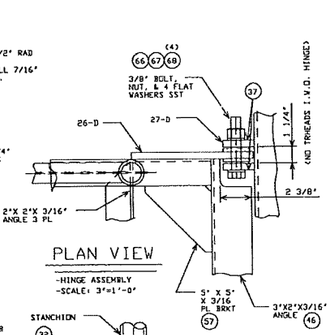
DETAIL 27-D

-HINGE PAD 4 REQUIRED
-SCALE: 3"=1'-0"



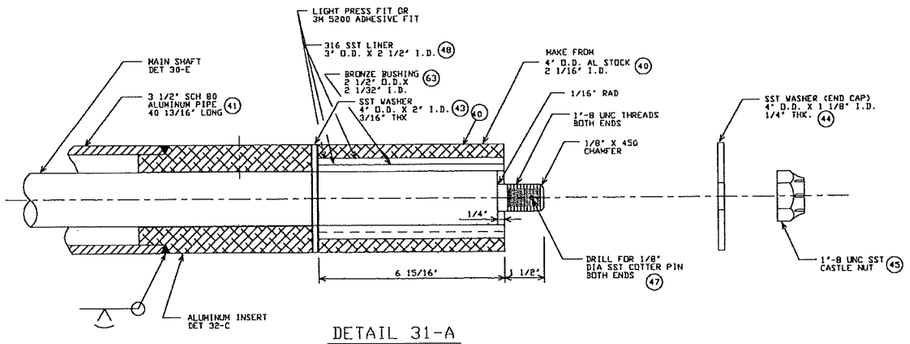
DETAIL 26-D

-HINGE 2 REQUIRED
-SCALE: 3"=1'-0"



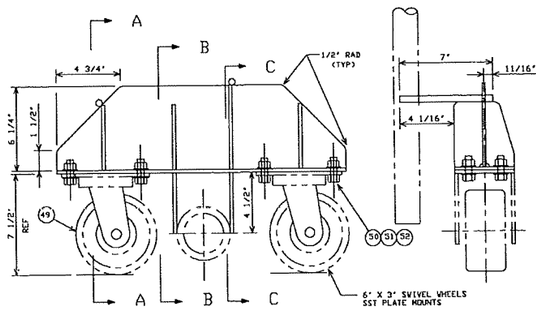
PLAN VIEW

-HINGE ASSEMBLY
-SCALE: 3"=1'-0"



DETAIL 31-A

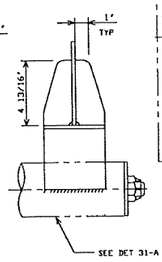
-CASTER SHAFT ASSEMBLY
-TYPICAL BOTH ENDS
-HALF SIZE



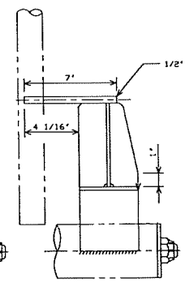
DETAIL 28-A

-CASTER ASSEMBLY
-1 AS SHOWN- 1 OPP HAND
-SCALE: 3"= 1'-0"

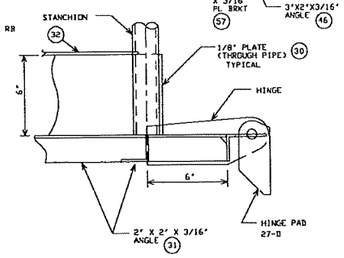
SECTION A-A



SECTION B-B



SECTION C-C



NOTE: 1/8" TOP PL NOT SHOWN

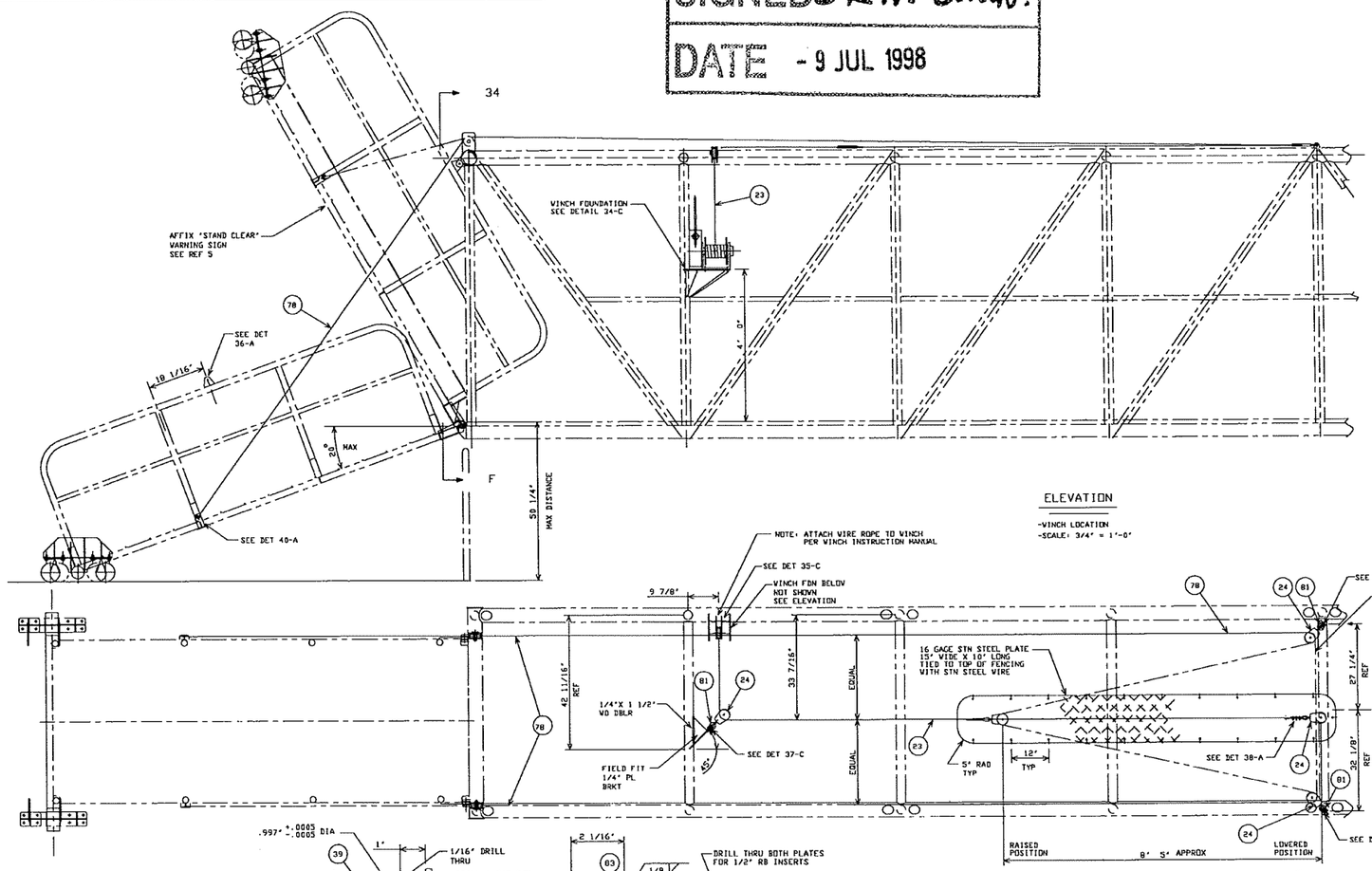
DETAIL 25-A

-HINGE ASSEMBLY
-SCALE: 3"=1'-0"

SIZE	MALL NO	DWG NO	REV
H	286	7955-S16	B
SCALE: AS SHOWN	JOB NO: 7955	SHEET 4	

06/27/95 16:45

CONTROLLED COPY NUMBER 1
VALID ONLY IN RED

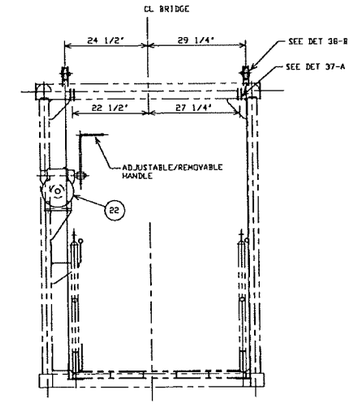


ELEVATION

-WINCH LOCATION
-SCALE: 3/4" = 1'-0"

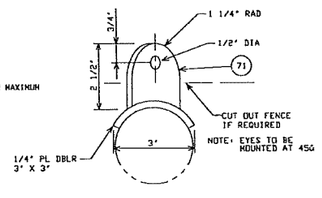
PLAN VIEW

-CABLE ARRANGEMENT
-SCALE: 3/4" = 1'-0"



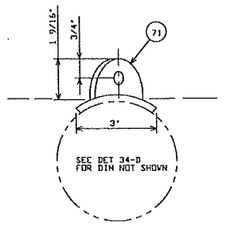
SECTION 34-F

-SCALE: 3/4"=1'-0"



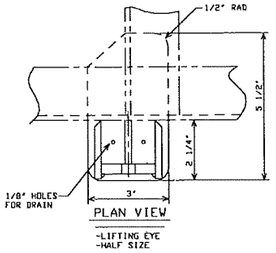
DETAIL 34-D

-BLOCK SHACKLE EYE
-HALF SIZE



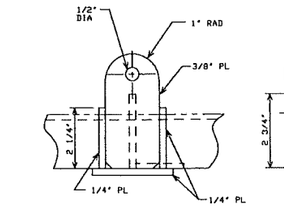
DETAIL 33-D

-BLOCK SHACKLE EYE
-HALF SIZE



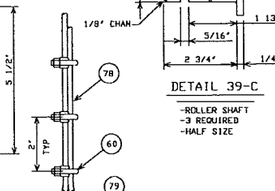
PLAN VIEW

-LIFTING EYE
-HALF SIZE



DETAIL 40-A

-LKNG INBD TO CL OF RAMP
-HALF SIZE

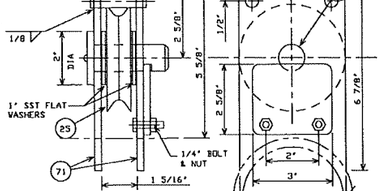


DETAIL 39-C

-ROLLER SHAFT
-3 REQUIRED
-HALF SIZE

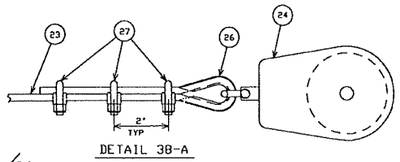
SECTION 39-A

-LIFTING EYE
-HALF SIZE



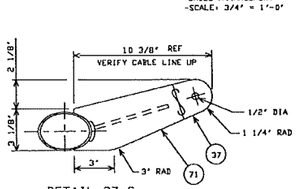
DETAIL 38-B

-SHEAVE ASSY
-TYP 2 PLACES
-HALF SIZE



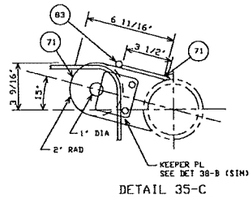
DETAIL 38-A

-PULL CONNECTION
-HALF SIZE



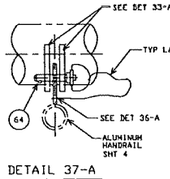
DETAIL 37-C

-CENTER BLOCK HOLDER
-1 REQD
-3'-1'-0"



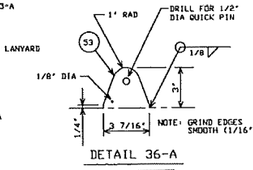
DETAIL 35-C

-SHEAVE ASSY
-3'-1'-0"



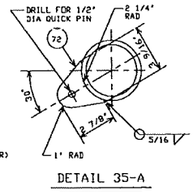
DETAIL 37-A

-STOWAGE PIN
-3'-1'-0"



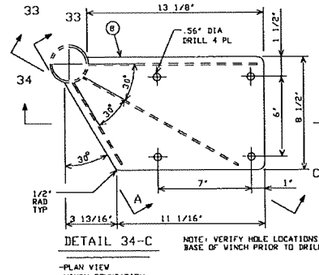
DETAIL 36-A

-HANDRAIL PADEYE
-2 REQUIRED
-3'-1'-0"



DETAIL 35-A

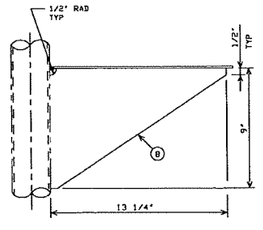
-STOWAGE PAD
-TOTAL 4 REQD
-3'-1'-0"



DETAIL 34-C

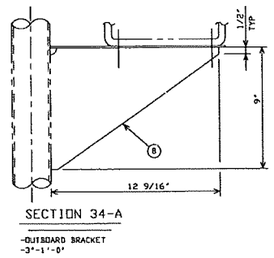
-PLAN VIEW
-WINCH FOUNDATION
-3'-1'-0"

NOTE: VERIFY HOLE LOCATIONS FROM BASE OF WINCH PRIOR TO DRILLING.



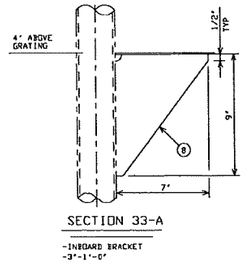
SECTION 33-C

-CENTER BRACKET
-3'-1'-0"



SECTION 34-A

-OUTBOARD BRACKET
-3'-1'-0"



SECTION 33-A

-INBOARD BRACKET
-3'-1'-0"

SIZE	HULL NO	DWG NO	REV
H	286	7955-S16	B
SCALE: AS SHOWN	JOB NO: 7955	SHEET 3	

06/26/95

PARTS LIST

ITEM #	NOMENCLATURE OR DESCRIPTION	MATERIAL SPECIFICATION	REMARKS	QTY REQD
1	SQUARE TUBE: TS4X4X .250	STEEL ASTM A-36 (GRADE A)		114'
2	2" SCH 40 PIPE	STEEL ASTM A-53 (GRADE B)		260'
3	4" SCH 40 PIPE	STEEL ASTM A-53 (GRADE B)		71'
4	1" SCH 10S PIPE	STEEL ASTM A-53 (GRADE B)		132'
5	PLATE: 1"	STEEL ASTM A-36 (GRADE A)		4 SQ FT
6	CHANNEL: MC 6 X 12	STEEL ASTM A-36 (GRADE A)		30'
7	ROUND BAR: 1/2" DIA	ALUMINUM TYPE 5086		3'
8	PLATE: 1/8"	STEEL ASTM A-36 (GRADE A)		140 SQ FT
9	ROUND BAR: 5 1/4" DIA.	STEEL 1018 CF PER ASTM A108	MIN YIELD 40 KSI	9'-1 1/2"
10	FENCE: 11 GAGE CHAIN LINK KNUCKLED & KNUCKLED	GALVANIZED	(5' WD ROLL)	35'
11	SERRATED GRATING: 1 1/4" X 1/8" STEEL 1 3/16" CTR MAX	GALVANIZED STEEL	7 LBS/SQ FT	185 SQ FT
12	GRATING CLIP: J-BOLT TYPE W/ HOLDER PLATE	GALVANIZED STEEL	MCMASTER-CARR # 6268128	112
13	CARRIAGE BOLTS: 1/4"X 2" LONG	SST TYPE 316	(BOTTOM TRAY)	30
14	SADDLE CLIPS: FOR 1 3/16" CTRS	SST TYPE 316	(BOTTOM TRAY)	30
15	NUTS: 1/4" HEX	SST TYPE 316	(BOTTOM TRAY)	30
16	ANGLE: 2"X 2"X 3/16"	STEEL ASTM A-36 (GRADE A)		8.3'
17	U-BOLT: 1/4" X 1.9" MIN I.D.	SST TYPE 316	FOR 1 1/2" PIPE	21
18	BOLT: 1/4" X 2" LONG (BEARING ASSY)	SST TYPE 316		24
19	10"O.D. STOCK (TOP BEARING HSG)	STEEL ASTM A-36 (GRADE A)		1'
20	BEARING: 3.9370" STRAIGHT BORE X 7.086" O.D.		MFG-TORRINGTON #22220-W33	1
21	BEARING SEAL: 3.937" SHAFT	LIP CODE V	CR SEALS TYPE CRWH1 STOCK #35277	1
22	HAND WINCH: WORM GEAR W/2000# LOAD RATING	STEEL/ CORROSION RES.PAINT FINISH	THERN INC.MODEL #4B2	1
23	WIRE ROPE: 1/4" DIA 7 X 19 STRAND CORE 7000# BRK	GALVANIZED STEEL		40'
24	3" WIRE ROPE BLOCK: (6" D.A.) 3/16" MAX WIRE SIZE 3300 SWL	COATED ALUMINUM	HARKEN #504	4
25	WIRE ROPE SHEAVE: 1/4"-3/8" ROPE SIZE W/ROLLER BEARING	STEEL	MCKISSICK #472517	3
26	WIRE ROPE THIMBLE: 1/4" ROPE SIZE	SST TYPE 316	MCMASTER-CARR #3868T25	1
27	WIRE ROPE CLIP: 1/4" ROPE DIA U-BOLT W/SADDLE TYPE	SST TYPE 316	MCMASTER-CARR #8913T14	3
28	SHACKLE: BOLT PIN TYPE 3/8" STOCK DIA 1050# WK LD LIMIT	SST TYPE 316	MCMASTER-CARR #3583T38	4
29	FLAT BAR: 2" X 1/8"	ALUMINUM TYPE 5086		44'
30	PLATE: 1/8"	ALUMINUM TYPE 5086		44 SF
31	ANGLE: 2" X 2" X 3/16"	ALUMINUM TYPE 5086		34'
32	FLAT BAR: 1 1/2" X 3/16"	ALUMINUM TYPE 5086		20'
33	SQUARE BAR: 1/4"	ALUMINUM TYPE 5086		66'
34	NON-SKID STRIP: 6" WIDE	MARINE GRADE	MCMASTER-CARR #6970T53	66'
35	PIPE: 1" SCH 80	ALUMINUM TYPE 5086		20'
36	PIPE: 1 1/2" SCH 80	ALUMINUM TYPE 5086		47'
37	PLATE: 1/2"	STEEL ASTM A-36 (GRADE A)		3 SQ FT
38	PLATE: 1/2"	ALUMINUM TYPE 5086		.5 SQ FT
39	ROUND BAR: 2" O.D.	SST TYPE 316		7'
40	4" O.D. STOCK	ALUMINUM TYPE 5086 OR 5456		1 1/2'
41	PIPE: 3 1/2" SCH 80	ALUMINUM TYPE 5086 OR 5456		5 1/2'
42	FLAT BAR: 1" X 1/4"	ALUMINUM TYPE 5086 OR 5456		6'
43	FLAT WASHER: 4" O.D. X 2 1/16" I.D. 3/16" THICK	SST TYPE 316		2
44	FLAT WASHER: 4" O.D. X 1 1/8" I.D.X 1/4" THICK	SST TYPE 316		2
45	CASTLE NUT: 1" UNC	SST TYPE 316		2
46	ANGLE: 3" X 2" X 3/16"	ALUMINUM TYPE 5086		4'
47	COTTER PIN: 1/8" DIA.	SST TYPE 316		2
48	LINER: 3" O.D. X 2 1/2" I.D.	SST TYPE 316		2'
49	CASTER: 6" X 3" SWIVEL WHEEL 2500 LB CAPACITY	SST TYPE 304	MCMASTER-CARR 2270ST11	4
50	BOLT: 1/2"-13 UNC (FOR 1 3/4" LONG CASTERS)	SST TYPE 316		16
51	FLATWASHER: 1/2"	SST TYPE 316		32
52	LOCKNUT: 1/2"-13 UNC	SST TYPE 316		16

PARTS LIST CONTINUED

ITEM #	NOMENCLATURE OR DESCRIPTION	MATERIAL SPECIFICATION	REMARKS	QTY REQD
53	PLATE: 1/4"	ALUMINUM TYPE 5086		6 SQ FT
54	BEARING SEAL: 5.250" SHAFT	LIP CODE V	CR SEALS TYPE CRWH1 STK #52649	2
55	PIPE: 5" SCH 120	STEEL ASTM A-53 (GRADE B)		15'
56	PIPE FLANGE: 150# ANSI SLIP ON	STEEL ASTM A105 ANSI B16.5	SIZE 1"	6
57	PLATE: 3/16"	ALUMINUM TYPE 5086		1 SQ FT
58	GREASE FITTING, 1/8" N.P.T.	SST		5
59	TENSION BAR: 3/16" X 5/8"	GALVANIZED		2 @ 5'-0" 4 @ 6'-0"
60	WIRE ROPE CLIPS: 3/16" ROPE U-BOLT TYPE W/SADDLE	SST TYPE 316	MCMASTER-CARR #8913T13	6
61	MECH. TUBING: 6" O.D. X 5" I.D. (PIVOT SUPPORTS)	STEEL ASTM A-36 (GRADE A)		3'
62	PIPE: 6" SCH 80 (PIVOT SUPPORTS)	STEEL ASTM A-53 (GRADE B)		23'
63	BUSHING: 2 1/2" O.D. X 2 1/32" I.D.	BRONZE		2'
64	PIN: 1/2" DIA X 2" GRIP LENGTH PUSH BUTTON TYPE OR SIMILAR	SST TYPE 316	MCMASTER-CARR	2
65	TIE WIRE OR EXTERIOR ELECTRICAL TIC WRAP	CORROSION RES.		A/R
66	BOLT:3/8"-16 UNC	SST TYPE 316		2
67	LOCKNUT:3/8"-16 UNC	SST TYPE 316		2
68	FLATWASHER: 3/8"	SST TYPE 316		8
69	PLATE: 3/16"	STEEL ASTM A-36 (GRADE A)		3 SQ FT
70	PIPE: 1 1/2" SCH 40	STEEL ASTM A-53 (GRADE B)		109'
71	PLATE: 1/4"	STEEL ASTM A-36 (GRADE A)		7 SQ. FT
72	PLATE: 3/8"	STEEL ASTM A-36 (GRADE A)		2 SQ. FT
73	FENCE: 11 GAGE CHAIN LINK KNUCKLED & KNUCKLED	GALVANIZED STEEL	6' WIDE ROLL	70 FT
74	ROLLER BEARING: SELF-ALIGNING 3.9370" BORE X 8.2677" O.D.		SKF # 29420 E	1
75	12" O.D. STOCK (LOWER BEARING HOUSING)	STEEL ASTM A-36 (GRADE A)		5'
76	PIPE: 6" SCH 40	STEEL ASTM A-53 (GRADE B)		6 1/2'
77	ANGLE: 3"X 2"X 3/16"	STEEL ASTM A-36 (GRADE A)		8 1/2'
78	WIRE ROPE: 3/16" DIA 7 X 19 STRAND CORE 4200# MIN BK	GALVANIZED STEEL		80 FT
79	WIRE ROPE THIMBLE: 3/16"	SST TYPE 316		2
80	SHAFT: 1" DIA. X 2 1/2" LONG	SST TYPE 316	SEE SPECS FOR SHEAVE, ITEM 25	3
81	ANCHOR SHACKLE: 7/16 NOM SIZE 2.6 TON WK LOAD W/SCREW PIN	FORGED ALLOY STEEL QUENCHED TEMPERED	CROSBY #1017472	3
82	PLATE: 16 GAGE	SST		15" WD X 19' LONG
83	ROUND BAR: 1/2" DIA	STEEL ASTM A-36 (GRADE A)		9'
84	BOLT: 1/4"-20 UNC X 1" LONG	SST TYPE 316		6
85	HEX NUT: 1/4"-20 UNC	SST TYPE 316		6
86	NOT USED			
87	NOT USED			
88	NOT USED			
89	NOT USED			
90	NOT USED			
91	WOOD BLOCK: 2" THK X 3 5/16" HIGH X 4" WIDE	OAK		2
92	ROUND BAR: 1/8" DIA	STEEL ASTM A-36 (GRADE A)		6'
93	NOT USED			
94	NOT USED			
95	NOT USED			
96	NOT USED			
97	NOT USED			
98	NO. 14 FLAT PHILIPS HEAD WOOD SCREWS 1 1/2" LONG	GALVANIZED STEEL		8
99	SET SCREW 1/4" X 1-1/2" LONG	SST		1
100	FLAT BAR: 6-3/4" X 5/16" THK	STEEL ASTM A-36		25'
101	FLAT BAR: 4" X 1" THK	STEEL ASTM A-36		20'
102	FLAT BAR: 5" X 1" THK	STEEL ASTM A-36		12'
103	FLAT BAR: 4" X 1/4" THK	STEEL ASTM A-36		5'
104	FLAT BAR: 6" X 1/8" THK	STEEL ASTM A-36		12'

REVISIONS

REV	ZONE	DESCRIPTION	DATE	APPROVED
B		SHEET 1		
	7-D	1)REMOVED ITEM 86 THRU 90 AND 93 THRU 98		
	7-C	2)ADDED ITEMS 99 THRU 104 TO PARTS LIST		
	7-G	3)REVISED MATERIAL & REMARKS COLUMN ON ITEM 9 IN PARTS LIST		
		SHEET 2		
	14-C	4)REVISED DEPLOYMENT SYSTEM PLAN		
	15-C 11-H	5)ADDED NOTE IN ZONE 15-C & 11-H		
	15C 16E	6)IN ZONE 15C & 16C ADDED FULL PEN CALL OUT TO WELDING SYMBOL		
		SHEET 3		
	GEN	7)REVISED BOTTOM STRUCTURE FROM PIVET SHAFT TO THIRD BOTTOM CHANNEL FROM PIVET SHAFT ON 'SECT 20-C'		
	18-E	8)CUT BACK ON PIPE (ITEM 17) ON 'SECT 20-C'		
	20-G 19-G	9)REVISED VERT STANCHION LOCATION ON PLATFORM BRIDGE SIDE STRUCTURE		
	18-F	10)ADDED VERT STANCHION BTW FIRST AND SECOND STANCHION CLOSES TO PIVET SHAFT ON AFT SIDE OF BRIDGE ONLY.		
	19-E	11)ADDED FLAT BAR UNDER BOTTOM CHANNEL SEE 'SECT 19-E'		
	GEN	12)REMOVED DET 24-G,23-H,23-A, & 18-D		
	GEN	13)REMOVED SECT 23-G & 24-A		
	GEN	14)ADDED 'NEW' DET 24-A AND SECT 24-G,23-G,22-G, & 20-C		
	18-B 22-B	15)ADDED 6" X 1/8" F.B. TO PARTS LIST		
	21-A	16)IN ZONE 21-A ADDED FULL PEN WELD SYMBOL		
		SHEET 4		
	27-E	17)RESERVED 'PLAN VIEW - DECK LAYOUT' PENDING FURTHER ENG. DEVELOPMENT		
	32-C	18)COMPLETELY REVISED 'DET 32-C'		
	31-A	19)REVISED 'DET 31-A' TO SUIT REVISED 'DET 32-C'		
		SHEET 5		
	37-F	20)REVISED ELEVATION OF BRIDGE TO REFLECT 'NEW STRUCTURE SEE SHT 2'		

REVISIONS

REV	ZONE	DESCRIPTION	DATE	APPROVED
A	GEN	ADDED SHEET 5 TO DRAWING WHICH ADDS A HANDWINCH AND SHEAVE SYSTEM TO THE BRIDGE FOR RAISING AND LOWERING THE FOLD DOWN EXTENSION RAMP.		
		SHEET 1		
	GEN	ADDED PARTS 74-98. REVISED QUANTITIES OF ITEMS; 1,2,4,8,9,13,14,15,18,19,20,58, (NEW ITEM 60).		
	2-D	ADDED LABEL PLATE DWG TO REF LIST.		
	3-A	ADDED SHT 5 TO 'REV STATUS OF SHEETS'.		
	8-H	DELETED ITEM 5 AND REPLACED W/ 1" PLATE.		
	8-H	CHANGED ITEM 6 TO MC 6 X 12 CHANNEL.		
		SHEET 2		
	9-F	ADDED STANCHION AND BRACKETS BELOW DECK TO SUPPORT ADDITIONAL LOAD OF PIVOT SHAFT.		
	14-E	ADDED DBLR PLATE DETAIL 14-E; ADDITION OF PLUG WELDS.		
	12-A	REMOVED RESERVATION FROM DETAIL 12-A, WHICH ADDS A LARGER LOWER BEARING TO SUPPORT THE PIVOT SHAFT.		
		SHEET 3		
	20-C	ADDED KICK PLATE TO OPPOSITE SIDE OF WALKWAY FOR ADDITIONAL GRATING SECURITY.		
	18-F	ADDED MID PIPE RAIL ALSO TO OPPOSITE SIDE OF BRIDGE CENTERED VERTICALLY BETWEEN TOP OF KICK PLATE AND TOP HANDRAIL.		
	24-B	RAISED PIPE RACK 4" AND CUT ANGLE TO 2 1/2". (ITEM 77)		
	21-F	TRANVERSE BOTTOM MEMBERS ARE NOW 6" WIDE X 2 1/2" FLG X .313" THK CHANNEL.		
	GEN	REVISED PULLING PAD ARRANGEMENT.		
	GEN	REVISED BOTTOM TRAY BOLTING ARRANGEMENT AND ADDED 1/4" DRAIN HOLES.		
	24-G	ADDED BRIDGE STOP DETAILS AND PIN LOCK PADS.		
	GEN	ADDED STERN AND ANCHOR LIGHT FOUNDATIONS.		
	17-G 17-D 17-B	STRENGTHENED BRIDGE AT PIVOT SHAFT WITH 1" PLATE REINFORCEMENTS ON TOP AND 4" SQUARE TUBE BRKTS ON BOTTOM.(DET 21-D, DET 20-B)		
		SHEET 4		
	31-A	REVISED I.D. OF ITEMS 48,63, AND 44 FOR TOLERANCE FITTING.		
	32-C	ADDED 300 CHAM TO ALUMINUM INSERT FOR WELDING.		
	GEN	ADDED LARGER SCALE PLAN VIEW OF BRIDGE PIVOT SUPPORTS.		
		THIS REVISION CLOSES FIANS 286-082 AND 286-083.	4/17/95 4/17/95	J.C.B. R.G.

GENERAL NOTES

RESERVATION

1)HYDRAULIC DEPLOYMENT SYSTEM AND PADEYES FOR BRIDGE ATTACHMENT AND DECK ATTACHMENT.

REF NO	DRAWING TITLE	DRAWING NO.
5.	LABEL PLATES	7955-M5
4.	PROPULSION FOUNDATIONS	7955-S7
3.	LADDER AND HANDRAIL DETAILS	7955-S15
2.	TRANSVERSE FRAMES	7955-S4
1.	MAIN DECK PLATING & FRAMING	7955-S2

BMS PLAN DISTRIBUTION

BMS PLAN DISTRIBUTION

REVISION	-	A									
DATE	3 1 95	4 17 95									
OWNER	5	5									
ABS	4	-									
PRODUCTION	6	7									
ENGINEERING	5	5									
Q.A.	1	1									
T & T	1	1									
PROJECT M.	1	1									
CHAND	1	1									
MACHINE SHOP											

DRAWN BY: TDM	DATE: 02/22/95
CHKD: J COOK	DATE: 3/1/95
REVW: J COOK	DATE: 3/1/95
Q.A. RG	DATE: 3/1/95
APVD: JM	DATE: 3/1/95
CONTRACT NO:	

BOLLINGER MACHINE SHOP & SHIPYARD
P.O. BOX 250,LOCKPORT LA. 70374
PHONE: (504) 532-5504 TELEX: 58-4187

181' X 92' X 16' LIFTBOAT PLATFORM BRIDGE DETAILS

SIZE	HULL NO	DWG NO	REV
H	286	7955-S16	B
SCALE: NONE	JOB NO: 7955	SHEET 1 OF 5	

06/27/95

B	B	B	B	B	REV
5	4	3	2	1	SHT

REV STATUS OF SHEETS

MASTER COPY

SIGNED DK M Smith.

DATE - 9 JUL 1998