APPENDIX A
MICHAEL UHL SPECIFICATIONS

M/V MICHAEL UHL
M/V POINT ESTERO
M/V SURVEYOR

MARITIME LOGISTICS
P.O. BOX 426 CRESTON CA, 93432
805-431-7393

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M/V MICHAEL UHL

The M/V MICHAEL UHL was built by John Graham, in Bayou La Batre, Alabama in late 1972 as an Offshore Supply. She has a model bow, moderate sheer, hard chine, and transom stern with half round rub strakes at deck and mid level with tire fenders along each side and across her stern. Stoutly built, of 5/16 welded steel plate over 3"x 4" L, frames on approximate 27" centers. She is subdivided by 8, athwart bulkheads beginning with Focs'le forward followed by the potable water tank, then three fuel oil tank, followed by the engine room, ballast tank, lazarette and finally an aft ballast to trim the stern. Above the tankage between frames 9 & 26 is berthing for 14 persons, followed by the machinery room's frames 26 to 34. Her deck house sits well forward, with captains stateroom forward, then galley to port, two heads to starboard, followed by the lounge / dining area, then opening to clear decks aft and an A Frame mounted at the stern. She has recently undergone upgrades to her engines, re-issue of her COI for 30 Passengers + 4 crew in accordance with Subchapter T, and carries as stability letter.

Principal Characteristics

Length (oa):	100'	Length (wl):	95
Beam:	24	Draft:	7'1"
Load Deck:	48'x 20'	Deck Cargo:	59 Long tons (132,160#)
Passenger Cap:	30 max	Berths:	16 total (5 crew 11 riders)
Operating Crew:	4 to 5	COI Range:	Oceans
Total Ballast:	36923 gal	Fresh Water	12,000 gal
Fuel cap:	15475 gal.	Range:	5000 Miles
Cruising speed:	8.5 knots	Max speed:	10 knots

Machinery

Main engine:	(2) Detroit Diesel, 60 series, Port rebuilt 2004 Stb, rebuilt 2005 Main engines are in compliance with California Air quality regulations
Main Horsepower	Electronically controlled to 400 hp. Ea, 800 hp total @1800 rpm.
Generators:	2ea, tier 2 Northern Lights 60kw John Deer powered gen's installed 5/2006
Transmissions	Twin Disc 514 - 4:1 reduction (Pt, rebuilt 11-01 Stb, rebuilt 8-05)
Air	2 Quincy, two stage compressors
Propellers:	2 each Stainless 4 blade 52" diameter x 44 pitch (new Nov, 2002)
Shafts:	4" stainless steel (stb. new 6-2001 / port rebuilt 1-2005)
Centrifuge	Alfa Laval – MAB 103 B (new 6 – 2002)
Hydraulics	70gpm pumps running off of each generator

Deck equipment

Crane	Hydra Pro stiff arm HP 40/11T
A Frame	Five ton max capacity

Assorted small deck winches and pullers available upon request

Safety and Navigation

Radar:	#1 Furuno	FR7062 - 48 mile		
SSB:	# 1 ICOM	IC – M 700 Pro	#2 ICOM	IC - M802
GPS:	#1 Garman	GPS Map 180	#2 Garman	GPS Map 128
NAVTEX	Nav 4 Navtex NMEA			
Fathometer:	Furuno	FCV - 271		
Autopilot	Simrad	AP50 installed winter 2006		
VHF:	#1 Icom – M302 with DSC		#2 Standard	Quest with ram mic.
Compasses	Sperry / Ritchie	# 6031318		
Alarms	General	Engine	High-water temp / Bilge / low oil / eng, temp	

Elect, plotting	Nobeltec Admiral with MapTech charts
Spot light	Perko
EPIRB	ACR Satellite 406
SART	SEA 2ea – sea 20
Life raft	2each 25 man SOLAS - A
Life Rings	3 USCG approved 2 with lights
Life jackets:	(37)
Life sling:	1 Life Sling brand

Miscellaneous

Sleeping berths:	(16)	Full Galley:	YES
TV:	(2)	DVD player:	(1)
Satellite Television antenna system installed winter 2006			KVH G6
Shower:	(1)	Toilet:	(2)
Hot water	A.O. Smith 50 gallon electric new (6- 2002)		
Holding tank	Gray water 200 gallons		

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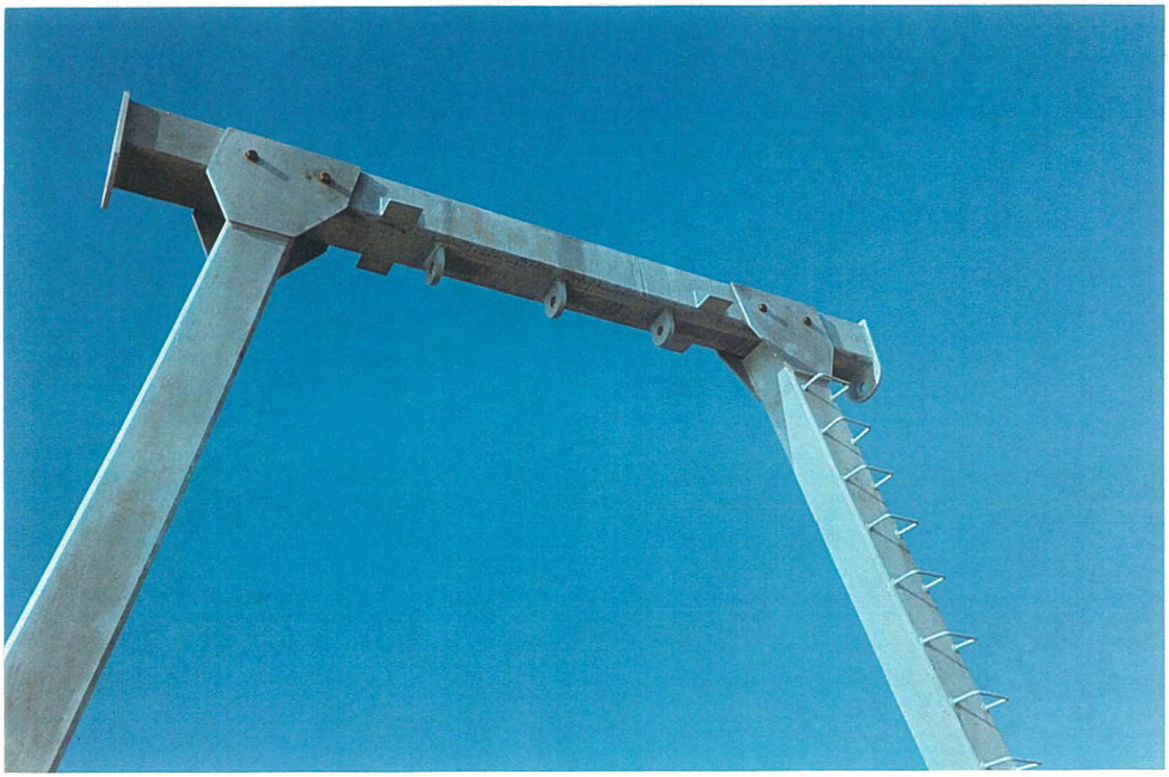
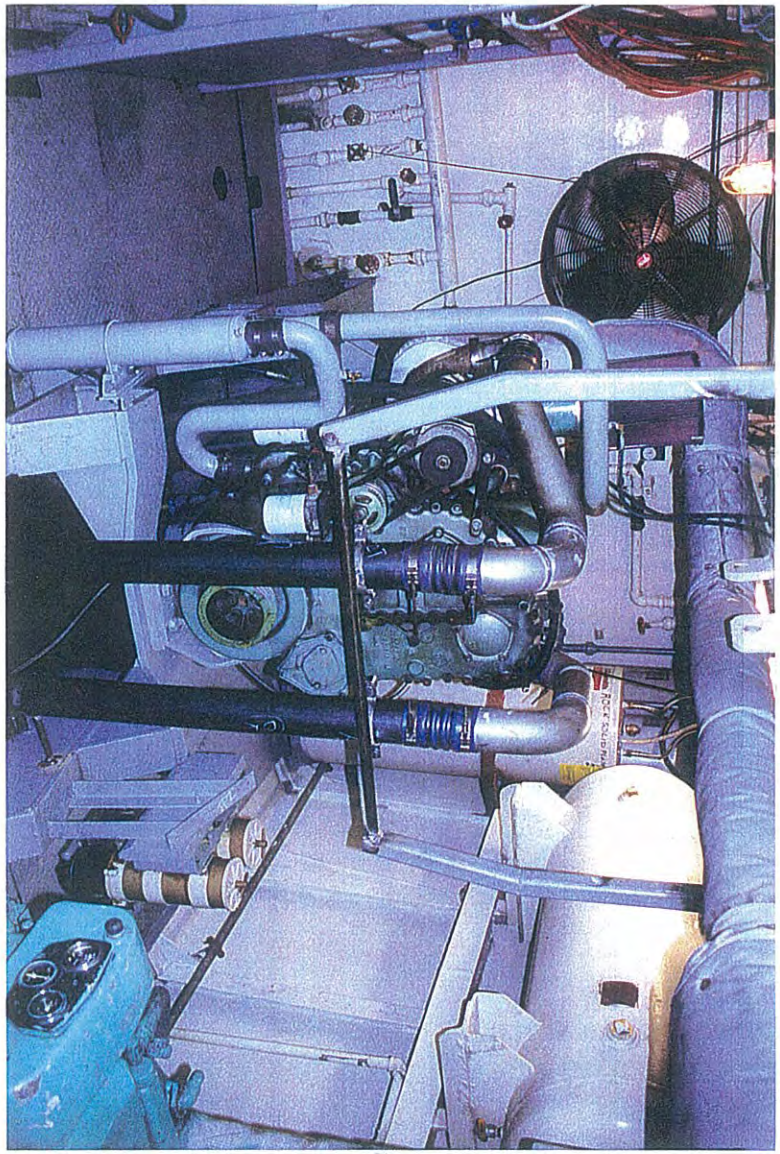
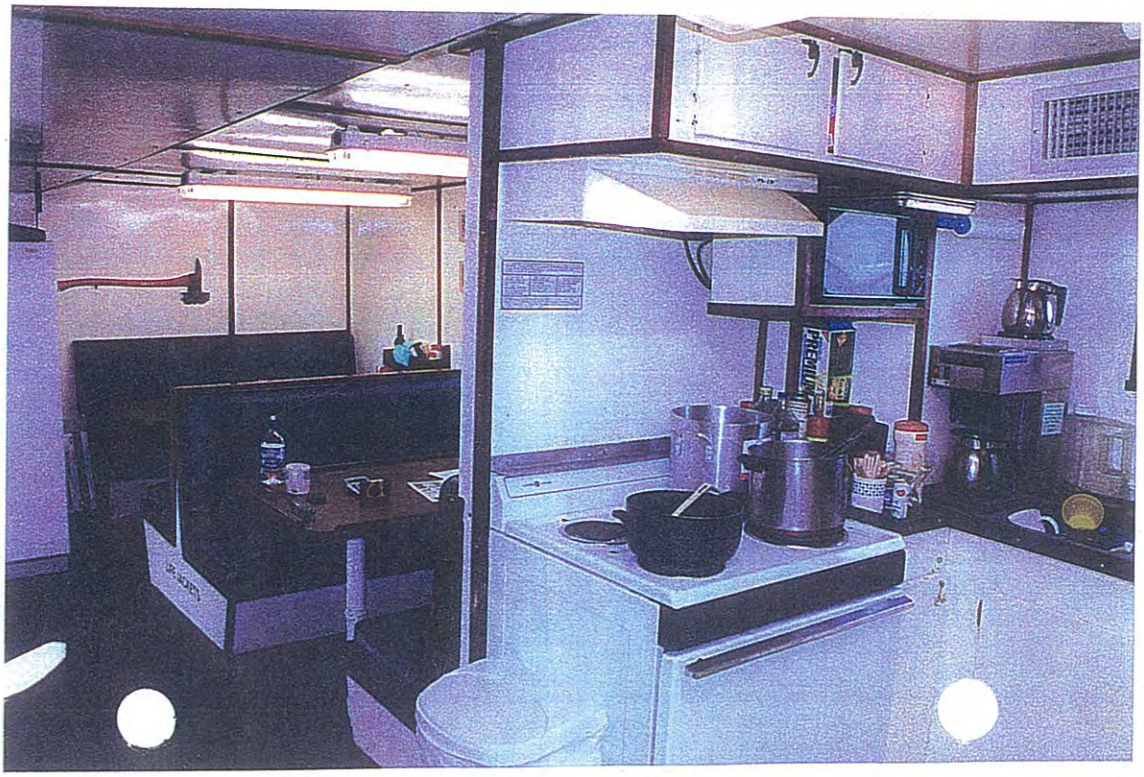




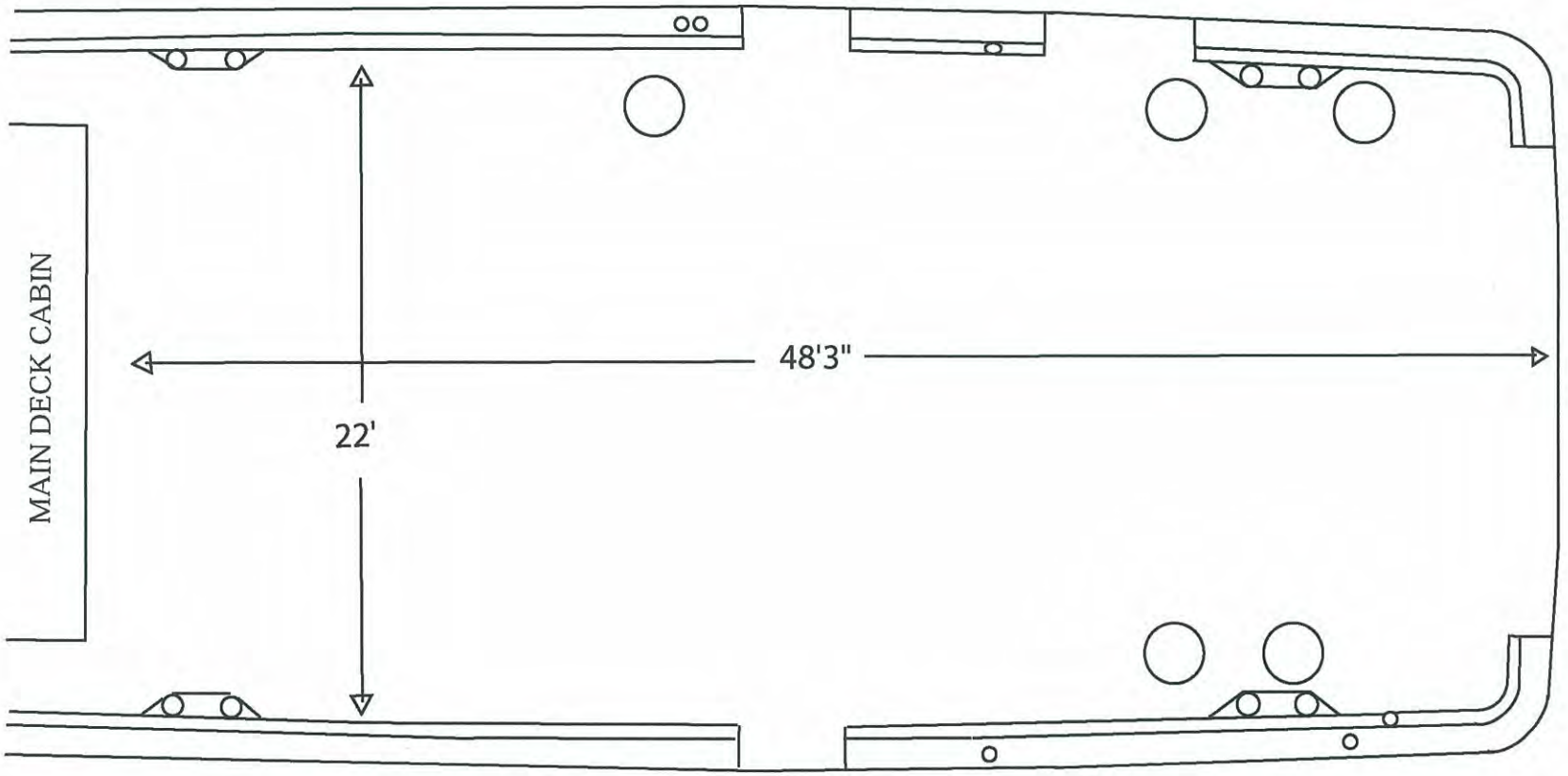
M/V MICHAEL UHL

Length (oa): 100’
Load Deck: 48’ x 20’
Cruising Speed: 10 knots
Deck Cargp: 59 long tons (132,160#)
Berths: 17 total (5 crew, 12 riders)
Fresh Water: 12,000 gal.
Range: 5000 miles

LIFE JACKETS
8 1 '95



M/V MACHAEL UHL LOAD DECK CONFIGURATION



Note: deck to rail top is 30"

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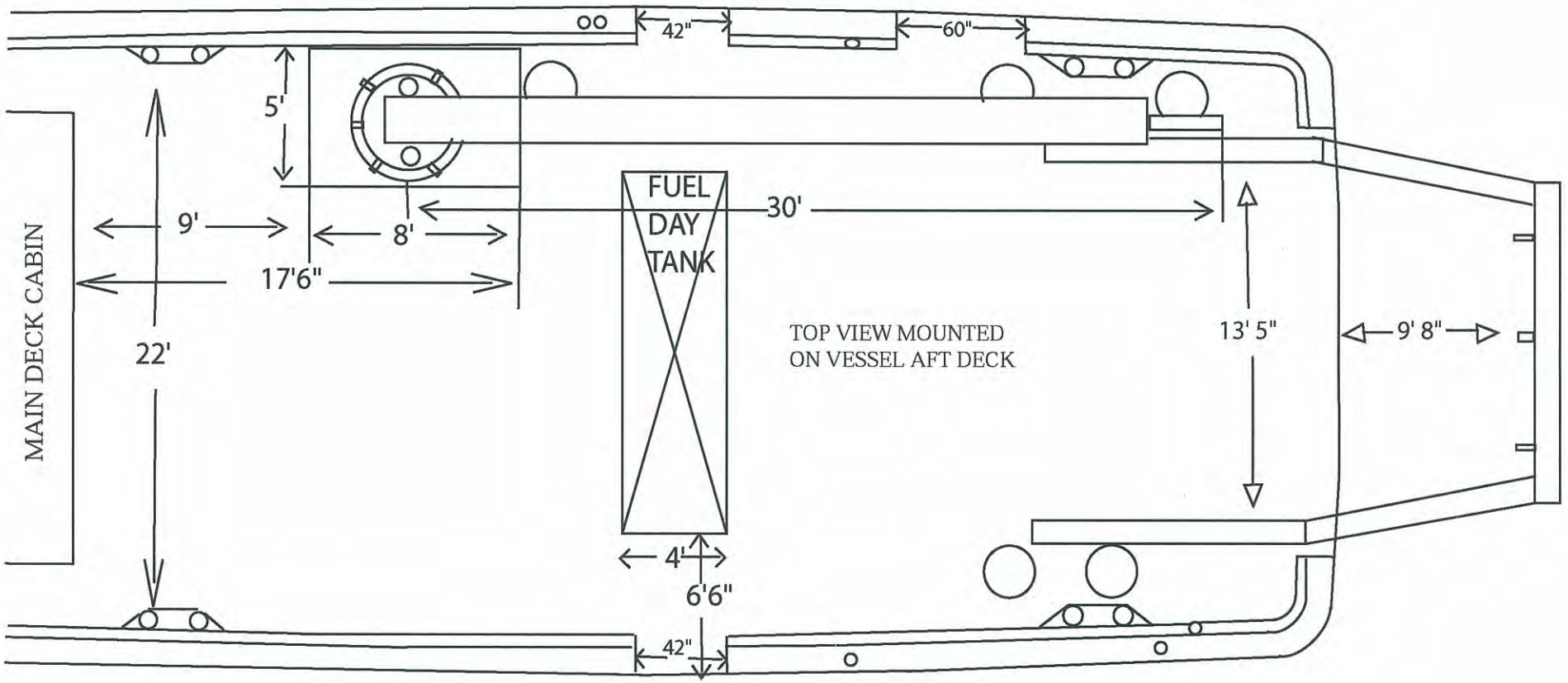

MICHAEL UHL A-FRAME CONFIGURATION
MAXIMUM INTEDED CAPACITY 5 TONS

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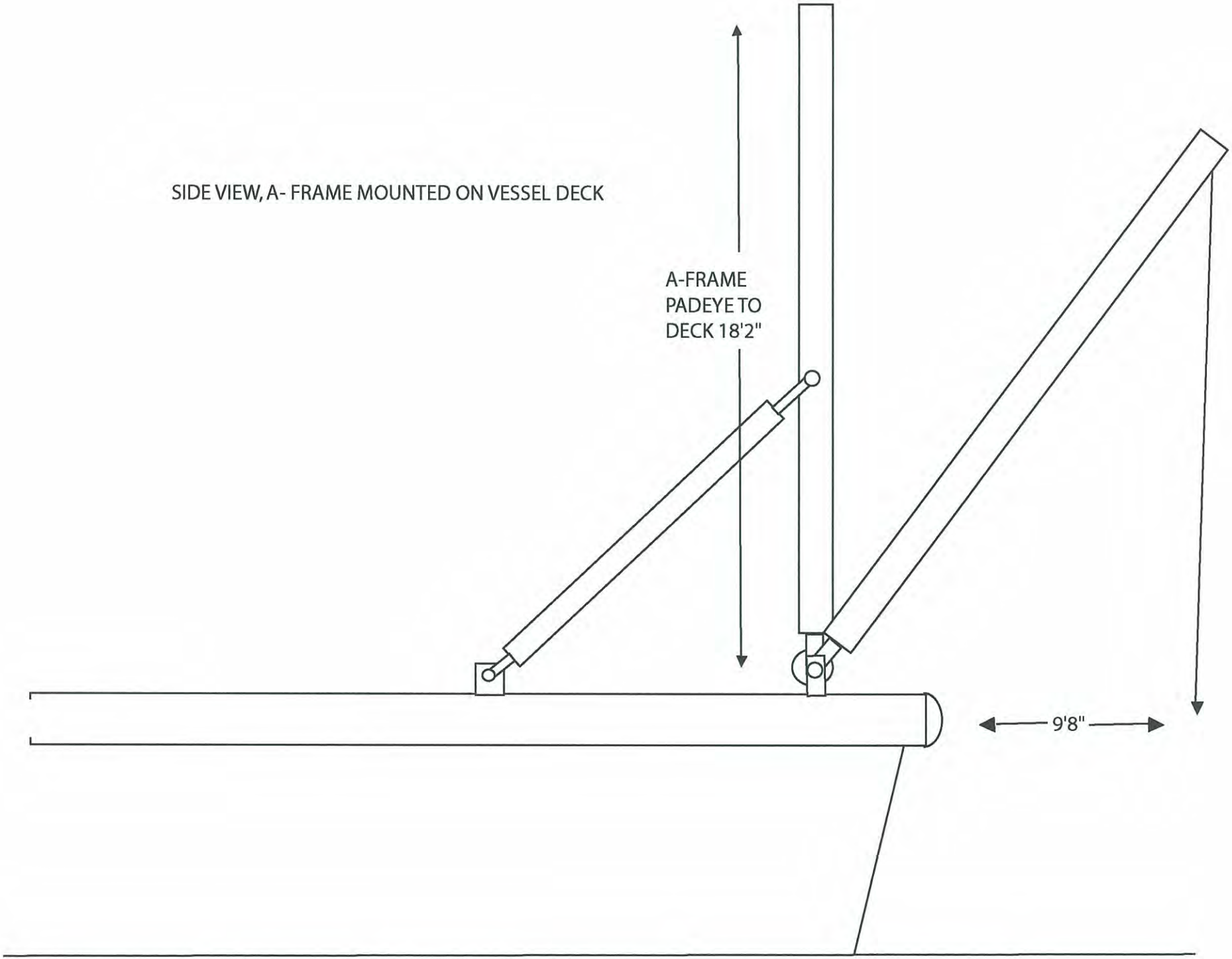
SIDE VIEW, A- FRAME MOUNTED ON VESSEL DECK