

## LIFTBOAT "MACY LYN"

**Class 105'**  
**USCG CERTIFIED**  
**Official No.: D683249**

### DIMENSIONS

Overall Length	70'
Length (Hull Only)	62'
Overall Beam	46'
Beam (Hull Only)	30'
Hull Depth	7'

### CHARACTERISTICS

Open Deck	1,200 sq. ft.
Maximum Deck Capacity (Afloat)	80,000 lbs.
Maximum Deck Capacity (Elevated)	120,000 lbs.
Deck Strength (max. point load)	750 lbs./sq. ft.

### LEGS

Quantity	3
Length	105'
Diameter	30" O.D.
Wall Thickness	9/16"

### PADS

Length	20' - 8"
Width	7' - 8"
Depth	24"

### CRANES

Quantity	2
Capacity of Port Crane	15 Tons
Boom Length	60' Fixed
Capacity of Stbd. Crane	10 Tons
Boom Length	50' Tele.

### GENERATORS

Two (2) 3-71 Detroit Diesel

### GROSS TONNAGE

Under 100

### LIVING QUARTERS

Berths	12 + (4 Crew)
Satellite TV & Central Air and Heat	
Heads	3
Showers	2
Galley Seats	12
Refrigerators	2
Freezers	2
Ice Maker	Yes
Range	Yes
Washer & Dryer	Yes

### COMMUNICATION/NAVIGATION

VHF Radio	Yes
GPS	Yes
Radar	Yes

### PROPULSION

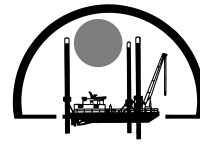
(2) Main Engines Detroit Diesel	8V-71N
Estimated Speed (knots)	8.0

### WORKING CONDITIONS

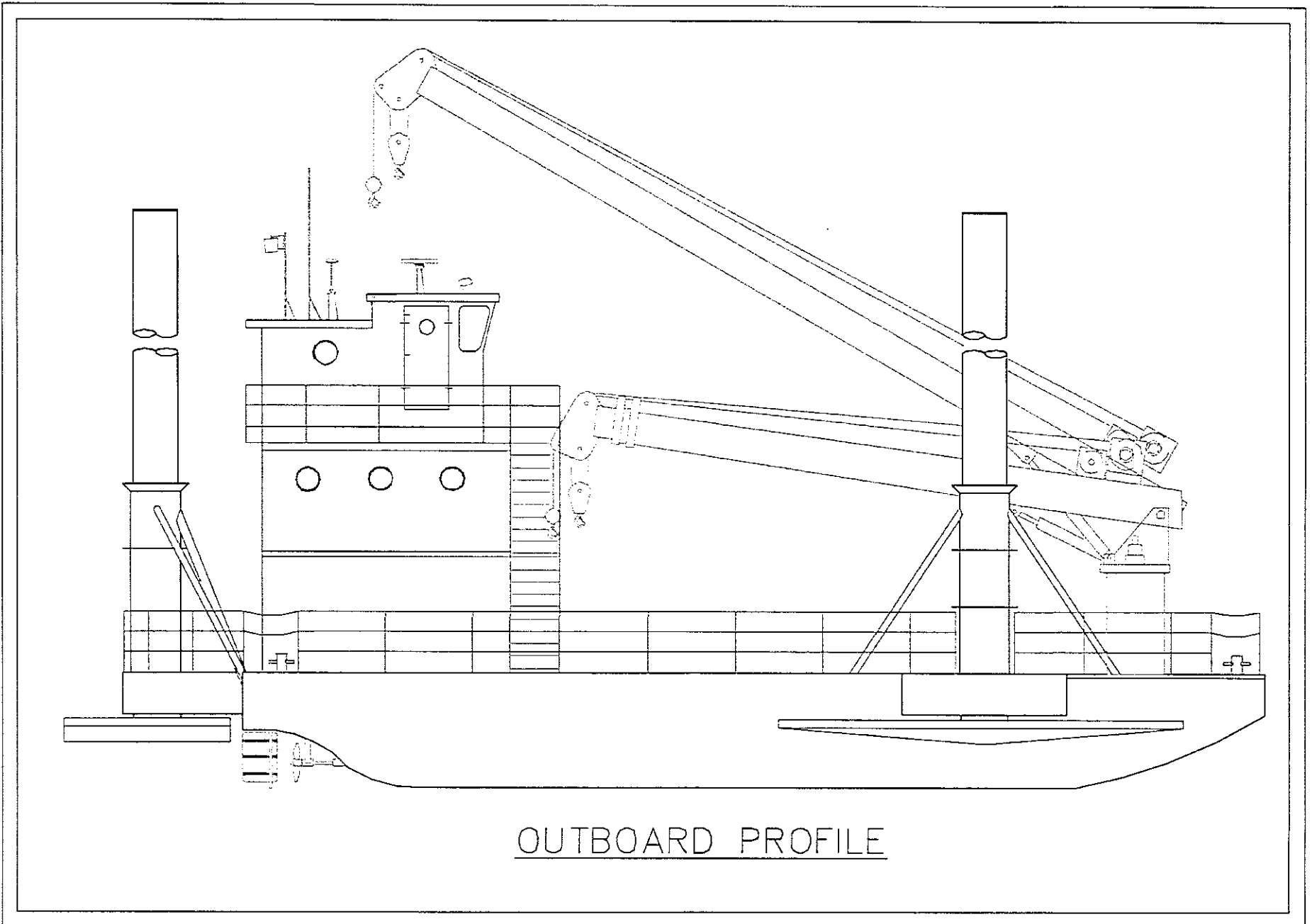
Maximum Water Depth	60'
Maximum Jacking Seas	5'

### CAPACITIES

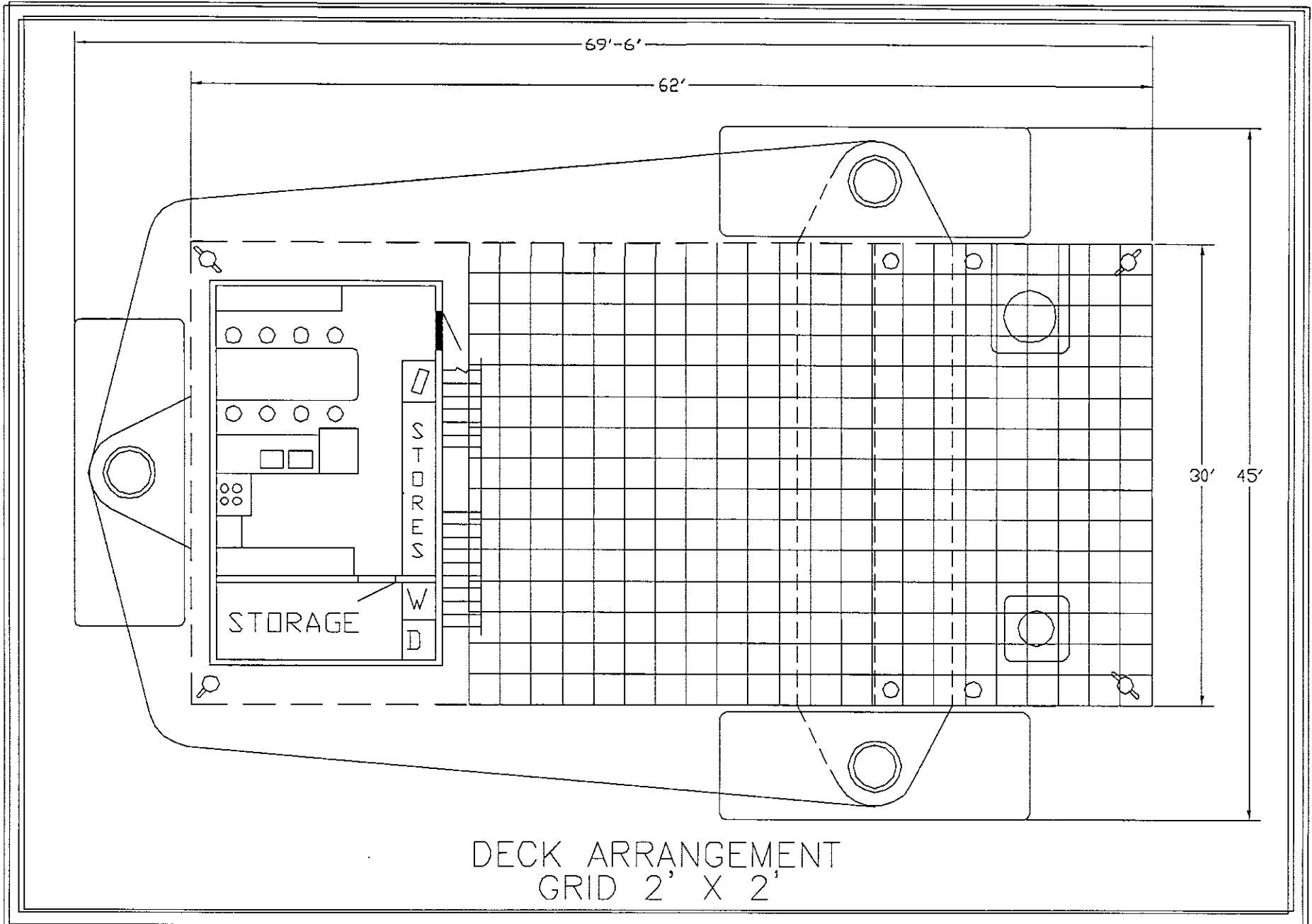
Fuel	1,500 Gal.
Potable Water	3,100 Gal.



L/B MACY LYN

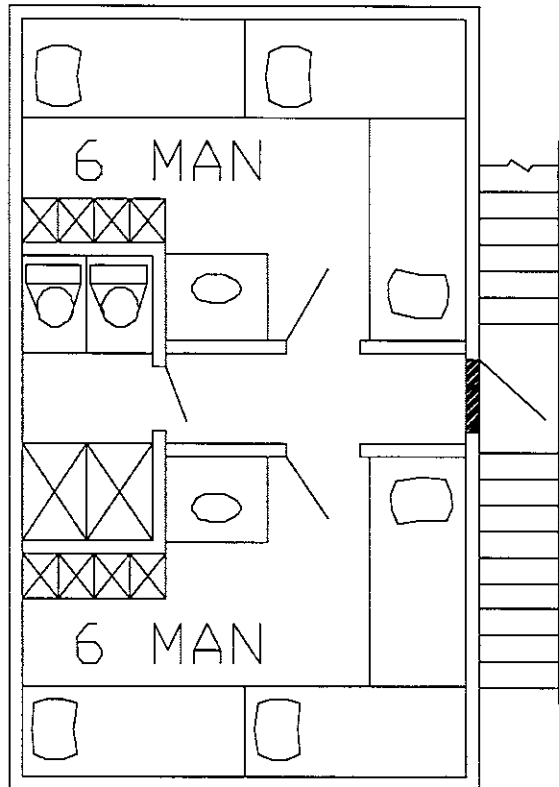


L/B MACY LYN

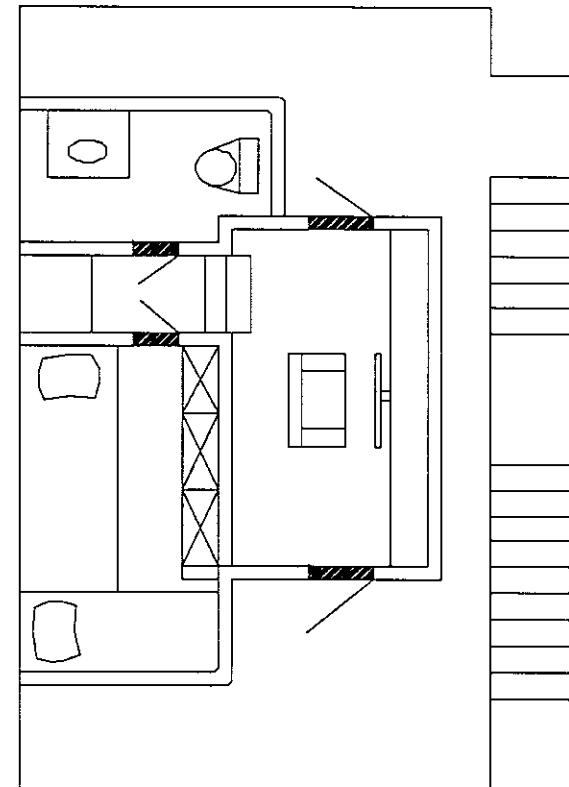


DECK ARRANGEMENT  
GRID 2' X 2'

L/B MACY LYN



SECOND LEVEL



PILOT HOUSE LEVEL

QUARTERS ARRANGEMENT

**EBI TC20-33-60 DYNAMIC LOAD CHART (1000 lb's)**

Boom Length	Reach (FT)													
		5	10	15	20	25	30	33	35	40	45	50	55	60
Retracted	Angle	82.0	72.0	63.0	52.0	40.0	24.0	3.0						
	Capacity	20.0	20.0	15.4	11.4	8.3	6.7	4.0						
Extended	Angle		81.0	75.0	70.0	65.0	60.0		54.0	48.0	41.0	34.0	23.0	3.0
	Capacity		10.0	10.0	10.0	8.0	6.7		5.5	4.7	4.0	3.3	2.6	1.2

- \* Static Capacity = Dynamic Capacity x 1.5
- \* These Charts are based on four part reeving with 9/16" Nonrotating EIPS-IWRC wire rope. The winch is 5000 pound line pull. If the number of reevings is reduced, the maximum capacity of the crane will be limited by the winch capacity.

**PEDESTAL REACTIONS FOR THE TC20-33-60**

BOOM LENGTH	MAX. OTM* LB's	AXIAL LOAD @ MAX OTM (lb's)	MAX AXIAL LOAD (lb's)	OTM @ MAX. AXIAL LOAD (FT - LB's)
33' - 60'	760,435	35,837	69,050	628,779

- \* OTM = Over Turning Moment.  
Based on twice the static load plus dead load.

**EBI C30 DYNAMIC LOAD CHART (1000 lb's)**

Boom Length	Reach (FT)	10	15	20	25	30	35	40	45	50	55	60
	30' Boom	Angle	70.0	60.0	48.0	41.0	3.0					
Capacity		30.0	24.3	18.6	14.6	8.6						
40' boom	Angle	75.0	68.0	60.0	51.0	41.0	29.0	3.0				
	Capacity	30.0	22.5	17.3	14.0	11.5	9.4	5.4				
50' boom	Angle	79.0	72.0	66.0	60.0	53.0	45.0	37.0	26.0	3.0		
	Capacity	30.0	20.9	16.3	13.4	11.2	9.4	8.1	6.7	3.9		
60' boom	Angle	80.0	75.0	70.0	65.0	60.0	54.0	48.0	41.0	33.0	23.0	3.0
	Capacity	30.0	20.0	15.3	12.5	10.6	8.9	7.8	6.7	5.7	4.7	2.8

- \* Static Capacity = Dynamic Capacity x 1.5
- \* These Charts are based on three part reeving with 3/4" Nonrotating EIPS-IWRC wire rope. The winch is 10,000 pound line pull. If the number of reevings is reduced, the maximum capacity of the crane will be limited by the winch capacity.

**PEDESTAL REACTIONS FOR THE TC20-33-60**

BOOM LENGTH	MAX. OTM* LB's	Ft	AXIAL LOAD @ MAX OTM (lb's)	MAX AXIAL LOAD (lb's)	OTM @ MAX. AXIAL LOAD (FT - LB's)
30 ' Boom	1,175,160		56,135	101,853	945,041
40 ' Boom	1,123,712		45,078	103,247	955,372
50 ' Boom	1,092,442		39,046	103,900	963,912
60 ' Boom	1,045,322		34,013	104,755	974,627

- \* OTM = Over Turning Moment.  
Based on twice the static load plus dead load.