

FILE \_\_\_\_\_

Sheet 1 of 13

U.S. REGULATORY  
TONNAGE MEASUREMENT RECORD

PID 39568 RC

Nation US Rig O/S Vessel name (NASSCO HULL 490)

Official Number \_\_\_\_\_ Call Letters \_\_\_\_\_ Hull No. 490

Port of Documentation \_\_\_\_\_

Built by NATIONAL STEEL & SHIPBLD at SAN DIEGO, CA 2001

THE TONNAGES OF THE VESSEL ARE: GROSS 35825.00 NET 32666

Admeasured at ROARING SPRING, PA by D.W. GOEBEL date 9/30/01

PRINCIPAL DIMENSIONS

Length 817.2 Breadth 118.0 Depth 90.0

Number of Passengers (from Passenger Safety Certificate)  
in cabins with not more than 8 berths: \_\_\_\_\_  
Other Passengers: \_\_\_\_\_

RECORD OF OTHER ADMEASUREMENTS

Admeasured at \_\_\_\_\_ for \_\_\_\_\_ by \_\_\_\_\_ date \_\_\_\_\_  
Admeasured at \_\_\_\_\_ for \_\_\_\_\_ by \_\_\_\_\_ date \_\_\_\_\_  
Admeasured at \_\_\_\_\_ for \_\_\_\_\_ by \_\_\_\_\_ date \_\_\_\_\_

SUMMARY OF SPACES INCLUDED IN GROSS TONNAGE

Name of Space	Ref. Sht	Location	TONS	Length
Underdeck			30805.48	✓
TWEEN - 2ND DK			668.40	✓
TWEEN - MAIN DK			1299.80	✓
SPAR DECK			260.80	✓
FORECASTLE			1016.41	✓
"A" DECK			524.46	✓
"B" DECK			640.90	✓
"C" DECK			592.14	✓
NAV. BRIDGE DK			16.31	✓
			35825.00	GROSS
			- 3158.55	✓
			32666.1X	NET

FILE NASSCO HULL 490

SHEET 2 of

SUMMARY OF SPACES EXCLUDED FROM GROSS TONNAGE

Name of Space	Ref. Sht	Location				TONS	Length
L & A		"A" DECK				128.70	
COMP					21.22		
GALLEY					62.99		
W.C.	open						
MACHY	17953.83	409	52.6	109.2	1016.71	62.99	
L & A	15050.24	180.18	21.06	128.7		5.85	
COMP	<u>33004.07</u>	21.06	14.23	119.93		19.3	
W.C.		3.51	20.77	111.15		2.71	
MACHY		107.1	2.16	4.26		<u>27.86</u>	
L & A		<u>720.85</u>	<u>110.82</u>	<u>473.24</u>			
COMP							
MACHY							

SPACES INCLUDED IN NET TONNAGE

Name of Space	Ref. Sht	Location	TONS	Length
ENGINE ROOM		FRAMES 86-41		
		144.50 x 48.0 x 18.50 =	1283.16	
		$\frac{1283.16}{35825.00} = 4\%$		
		$\frac{37}{13} \times 1283.16 =$	3158.55	DEDUCTION

FILE NASSCO HULL 490

SHEET

SUMMARY OF SPACES EXCLUDED FROM GROSS TONNAGE				
Name of Space	Ref. Sht	Location	TONS	Length
VENTS		NAV. BRIDGE DK	426	
MACHY		↓	107.10	
COMP			2.16	
WIC.			2.71	
WHEEL		↓	200.66	
MACHY		SPAR DK	409.00	
COMP		↓	52.60	
L & A			109.20	
ANCHOR		FORECASTLE	599.07	
DRON.		MAIN DECK	17953.83	
OPEN		SECOND DECK	15050.24	
WATER BALLAST		↓	338.31	
WATER BALLAST		UNDERDECK	2847.54	

SPACES INCLUDED IN NET TONNAGE				
Name of Space	Ref. Sht	Location		Length

SHEET 4A

CALCULATION OF UNDERDECK TONNAGE ACCORDING TO USCG 1410 FORM AND CFR

Vessel name	NASSCO Hull 480
Builder	Nassco
Hull Number	490
ABS ID	
PID	

Tonnage length (ft)	815
Number of Divisions of Tonnage length, CFR 69.109(c)	16
Common Interval between sections	50.938
1/3 Common Interval between sections	16.979
Tonnage Depth (midships)	52
Number of Divisions of Tonnage Depth, CFR 69.109 (b)(4)(i)	6

No. of Breadths	Tonnage Depth Multiplier	Station 1		Station 2		Station 3		Station 4		Station 5		Station 6		Station 7		Station 8		Station 9		Station 10		Station 11	
		Breadths	Products	Breadths	Products	Breadths	Products	Breadths	Products	Breadths	Products	Breadths	Products	Breadths	Products	Breadths	Products	Breadths	Products	Breadths	Products	Breadths	Products
1	1	0	0	35	0	68	93	108	108	108	108	115	115	116	116	116	116	116	116	116	116	116	116
2	4	0	0	104	0	53	81.5	328	398	398	398	112	448	460	460	464	464	464	464	464	464	464	464
3	2	0	0	19	0	38	72	144	89	89	178	108.8	213.6	223	223	232	232	232	232	232	232	232	232
4	4	0	0	15	0	60	35.5	142	59	79	316	98	392	109	109	436	460	460	464	464	464	464	464
5	2	8	8	16	14	26	54	50	100	86	132	86	172	100	200	109	218	113.5	227	114	228	114	228
6	4	7.5	30	12	48	22	88	38	152	52	208	70	280	85	340	97	388	105	420	108.5	438	107.5	430
7	1	0	0	5	5	8	13	23	23	23	23	40	40	53	53	67	80	80	80	80	85	85	84
Totals		46	319	278	278	656	289	1064	1363	1363	1660.6	1660.6	1660.6	1660.6	1828	1945	1945	2003	2003	2027	2027	2018	2018
1/3 C.I.		2.3	2.78	2.89	2.89	6.56	2.89	3074.96	3938.07	3938.07	4789.134	4789.134	4789.134	4789.134	5287.92	5621.05	5621.05	5788.67	5788.67	5888.03	5888.03	5811.84	5811.84
Sq. feet carried to summary		14.5	865.82	1955.84	1955.84	3074.96	3938.07	3074.96	3938.07	4789.134	4789.134	4789.134	4789.134	5287.92	5621.05	5621.05	5788.67	5788.67	5888.03	5888.03	5811.84	5811.84	5811.84

No. of Breadths	Tonnage Depth Multiplier	Station 12		Station 13		Station 14		Station 15		Station 16		Station 17	
		Breadths	Products	Breadths	Products	Breadths	Products	Breadths	Products	Breadths	Products	Breadths	Products
1	1	116	116	116	116	116	116	116	116	116	116	113	113
2	4	462	462	464	464	462	462	460	460	455	455	444	444
3	2	115	230	145.25	290.5	114.25	228.5	112	224	105.5	211	168	336
4	4	114.5	458	112.5	450	108	432	102.5	410	96.5	386	104.5	418
5	2	111	222	108.5	217	98.5	197	82	164	86	172	97	194
6	4	104.5	418	100.5	402	92	368	76.5	306	56	224	82	328
7	1	83	83	71.5	71.5	71.5	71.5	76	76	57	57	0	0
Totals		1989	1989	1947	1947	1879	1879	1758	1758	1682	1682	1713	1713
1/3 C.I.		2.86	2.86	2.78	2.78	2.6	2.6	2.15	2.15	1.43	1.43	1.17	1.17
Sq. feet carried to summary		5888.34	5888.34	5412.86	5412.86	3779.7	3779.7	2262.26	2262.26	2004.21	2004.21	2004.21	2004.21

Sect. No.	UNDER TONNAGE DECK	
	Multiplier	Area (ft <sup>2</sup> ) Product
1	1	115
2	4	868.82
3	2	1895.84
4	4	3074.96
5	2	3938.07
6	4	4789.134
7	2	5282.92
8	4	5621.05
9	2	5788.67
10	4	5658.03
11	2	5811.84
12	4	5888.03
13	2	5412.66
14	4	4875
15	2	3779.7
16	4	2262.26
17	1	2004.21
Total		198203.8
1/3 C.I.		16.878
Under tonnage deck (ft <sup>2</sup> )		3365302
Under tonnage deck (TONS)		39653.02

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FR 167.0

UNDER DECK

NOTES and below		SECTION 1		SECTION 2		SECTION 3		SECTION 4		SECTION 5		SECTION 6	
		45.00		50.00		52.00		52.00		52.00		52.00	
		1.50		8.33		8.67		8.67		8.67		8.67	
No. of bundles	No. of plies	Bundles	Products	Bundles	Products	Bundles	Products	Bundles	Products	Bundles	Products	Bundles	Products
1	1	0.00		35.00		66.00		93.00		108.00		115.00	
2	4	0.00		26.00		53.00		81.50		99.50		112.00	
3	2	0.00		19.00		43.00		72.00		89.00		106.80	
4	4	0.00		15.00		35.50		59.00		79.00		98.00	
5	2	8.00		14.00		27.00		50.00		66.00		86.00	
6	4	7.50		12.00		22.00		38.00		52.00		70.00	
7	1	0.00		6.00		8.00		13.00		23.00		40.00	
TOTAL		46		319		456		1064		1363		1660.6	
M Cases loaded by Buss bundles		2.50		2.78		2.89		2.89		2.89		2.89	
AGE		115		886.82		1895.84		3074.96		3939.07		4799.13	

NOTES and below		SECTION 7		SECTION 8		SECTION 9		SECTION 10		SECTION 11		SECTION 12	
		52.00		52.00		52.00		52.00		51.75		51.50	
		8.67		8.67		8.67		8.67		8.63		8.58	
No. of bundles	No. of plies	Bundles	Products	Bundles	Products	Bundles	Products	Bundles	Products	Bundles	Products	Bundles	Products
1	1	116.00		116.00		116.00		116.00		116.00		116.00	
2	4	115.00		116.00		116.00		116.00		116.00		115.50	
3	2	111.50		116.00		116.00		116.00		116.00		115.00	
4	4	109.00		115.00		116.00		116.00		116.00		114.50	
5	2	100.00		109.00		113.50		114.00		114.00		111.00	
6	4	85.00		97.00		105.00		109.50		107.50		104.50	
7	1	53.00		67.00		80.00		85.00		84.00		83.00	
TOTAL		1828		1945		2003		2027		2018		1989	
M Cases loaded by Buss bundles		2.89		2.89		2.89		2.89		2.88		2.86	
AGE		5282.92		5621.05		5788.67		5858.03		5811.84		5688.54	

UNDER DECK

NOTE and below		SECTION 13		SECTION 14		SECTION 15		SECTION 16		SECTION 17		SECTION	
		50.00		46.75		38.75		25.75		21.00			
		8.33		7.79		6.46		4.29		3.50			
No. of Bridgels	No. of Piers	Bridgels	Piers	Bridgels	Piers	Bridgels	Piers	Bridgels	Piers	Bridgels	Piers	Bridgels	Piers
1	1	116.00		116.00		116.00		116.00		113.00			
2	4	116.00		115.50		115.00		114.00		111.00			
3	2	115.25		114.25		112.00		105.50		108.00			
4	4	112.50		108.00		102.50		96.50		104.50			
5	2	106.50		98.50		82.00		66.00		97.00			
6	4	100.50		92.00		76.50		56.00		82.00			
7	1	71.50		71.50		78.00		57.00		0.00			
TOTAL		1947		1875		1758		1582		1713			
X Comm. Invol. by Bridgels		2.78		2.60		2.15		1.43		1.17			
Area		5412.66		4875.00		3779.70		2262.24		2004.21			

No. of Bridgels	No. of Piers	Area	Piers	No. of Bridgels	No. of Piers	Area	Piers	Length
				1	1	115.00	115.00	815.00
				2	4	886.82	3547.28	TOTAL UNDERDECK; 33653.02
				3	2	1895.84	3791.68	LESS: WATERBALLAST
				4	4	3074.96	12299.84	FORE PEAK - 219.25
				5	2	3939.07	7878.14	AFT PEAK - 205.30
				6	4	4799.13	19196.54	DT1A - 336.10
				7	2	5282.92	10565.84	DT1B % - 514.70
				8	4	5621.05	22484.20	TK1C - 602.04
				9	2	5788.67	11577.34	DB2F % - 243.17
				10	4	5858.03	23432.12	DB2A % - 255.54
				11	2	5811.84	11623.68	LIST % - 300.54
				12	4	5688.54	22754.16	AFTPK % - 170.90
				13	2	5412.66	10825.32	TOTAL - 2847.54
				14	4	4875.00	19500.00	
				15	2	3779.70	7559.40	
				16	4	2262.24	9049.04	
				17	1	2004.21	2004.21	

TOTAL 198203.8

X Comm. Int. between sections 16,979

336530.2

Volume TONS 33653.02

TOTAL UNDERDECK 30805.48

Volume

WATERBALLAST

FOREPEAK TANK - LOWER

Length 54.75 Weight 51.25  
 Divisions 2 Com. br. 27.375  
 1/2 Com. br. 9.13

No.	MULT.	SECTION 1		SECTION 2		SECTION 3	
		Ton. D. <u>45.00</u>		Ton. D. <u>51.25</u>		Ton. D. <u>52.375</u>	
		c/l bet. br. ....		c/l bet. br. <u>12.81</u>		c/l bet. br. <u>13.09</u>	
1/2 c/l bet. br. ....		1/2 c/l bet. br. <u>4.27</u>		1/2 c/l bet. br. <u>4.365</u>			
		BR.	PROD.	BR.	PROD.	BR.	PROD.
1	1	C.S.E.E	17.75			37.50	
2	4	SERT 1	9.00	36.00	23.50	94.00	
3	2	OF U.D.K.	6.00	12.00	16.25	32.50	
4	4	CALCS.	10.00	40.00	13.75	55.00	
5	1		0.00		0.00		
Total				105.75		219.0	
1/2 c/l bet. br.				4.27		4.365	
		FROM U.D.K. SERT. 1					
Area		115.00		451.55		955.935	

SUMMARY

No. of Sec.	MULT.	AREA	PRODUCTS
1	1		115.00
2	4	451.55	1806.21
3	1		955.935

Total 2877.145

common interval between sections 9.125

Volume 26253.95  
 $\div 100 = 262.54$

LESS:  
 CHAIN LOCKER  
 $13.00 \times 18.00 \times 18.50 = 43.29$   
~~VOLUME~~ TONS 219.25

AFT PEAK TANKS P/S

Length 23.0 Weight 5.75  
 Divisions 2 Com. br. 11.5  
 1/2 Com. br. 3.83

No.	MULT.	SECTION 1		SECTION 2		SECTION 3	
		Ton. D. <u>11.50</u>		Ton. D. <u>11.00</u>		Ton. D. <u>10.50</u>	
		c/l bet. br. <u>2.88</u>		c/l bet. br. <u>2.75</u>		c/l bet. br. <u>2.63</u>	
1/2 c/l bet. br. <u>0.96</u>		1/2 c/l bet. br. <u>0.92</u>		1/2 c/l bet. br. <u>0.88</u>			
		BR.	PROD.	BR.	PROD.	BR.	PROD.
1	1	107.50		106.0		104.0	
2	4	103.50	414.00	102.00	408.00	100.0	400.0
3	2	94.50	189.00	93.00	186.00	91.0	182.0
4	4	69.50	278.00	68.00	272.00	66.00	264.0
5	1	0.00		0.00		0.00	
Total		988.50		972.00		950.00	
1/2 c/l bet. br.		0.96		0.92		0.88	
Area		947.31		894.24		836.00	

SUMMARY

No. of Sec.	MULT.	AREA	PRODUCTS
1	1	947.31	947.31
2	4	894.24	3576.96
3	1	836.00	836.00

Total 5360.27

common interval between sections 3.83

Volume 20529.84

TONS 205.30

WATERBALLAST TANKS

LENGTH \_\_\_\_\_ HEIGHT \_\_\_\_\_  
DIVISIONS \_\_\_\_\_ CON. INT. \_\_\_\_\_  
1/3 C.I. \_\_\_\_\_

LENGTH \_\_\_\_\_ HEIGHT \_\_\_\_\_  
DIVISIONS \_\_\_\_\_ CON. INT. \_\_\_\_\_  
1/3 C.I. \_\_\_\_\_

# DT 1A FR 141-136

L = 46.50      D = 33.0  
 sec 1            sec 2            sec 3  
 19.50            36.00            40.00  
 16.00            29.00            33.00  
 14.75            24.50            28.50  
 10.75            16.50            20.50  
 6.00              7.00              8.00  
162.00            274.00            319.00  
 x 2.75              x 2.75              x 2.75  
 445.50              753.50              877.25  
x 1                  x 4                  x 1  
 445.50      +      3014.00      +      877.25 =

4336.75  
 x 7.75  
 33609.81  
 ÷ 100  
336.10 TONS

# TK 1-C FR 131-121

L = 93.0      D = 14.50  
 sec 1            sec 2            sec 3  
 41.00            60.00            76.00  
 35.00            55.00            69.00  
 31.00            46.00            62.00  
 23.50            36.00            49.00  
 13.00            22.00            36.00  
350.00            538.00            708.00  
 x 1.21              x 1.21              x 1.21  
 423.50            650.98            859.10  
x 1                  x 4                  x 1  
 423.50      +      2603.92      +      856.68 =

3884.10  
 x 15.50  
 60203.55  
 ÷ 100  
602.04 TONS

# DT 1B P/S FR 136-131

L = 46.50      D = 33.0  
 sec 1            sec 2            sec 3  
 40.00            51.00            62.00  
 33.00            43.00            51.00  
 28.50            35.00            42.00  
 20.50            25.00            32.00  
 8.00              9.00              10.00  
319.00            402.00            488.00  
 x 2.75              x 2.75              x 2.75  
 877.25              1105.50              1342.00  
x 1                  x 4                  x 1  
 877.25      +      4422.00      +      1342.00 =

6641.25  
 x 7.75  
 51469.69  
 ÷ 100  
514.70 TONS

# DB 2F- P/S FR 121-110

L = 93.0      D = 4.50  
 sec 1            sec 2            sec 3  
 52.00            66.50            79.50  
 46.00            63.00            76.00  
 41.00            57.00            70.00  
 38.00            53.00            65.00  
 36.00            50.00            61.00  
506.00            694.50            844.50  
 x 0.38              x 0.38              x 0.38  
 192.28              263.91              320.91  
x 1                  x 4                  x 1  
 192.28      +      1055.64      +      320.91 =

1568.83  
 x 15.50  
 24316.87  
 ÷ 100  
243.17 TONS



**WATERBALLAST TANKS**

LENGTH \_\_\_\_\_ HEIGHT \_\_\_\_\_  
DIVISIONS \_\_\_\_\_ COM. INT \_\_\_\_\_  
1/3 C.I. \_\_\_\_\_

LENGTH \_\_\_\_\_ HEIGHT \_\_\_\_\_  
DIVISIONS \_\_\_\_\_ COM. INT \_\_\_\_\_  
1/3 C.I. \_\_\_\_\_

# DB 2A - P/S FR 110-102

L = 711.50 D = 4.50

sec 1	sec 2	sec 3
79.50	90.00	96.50
76.00	83.20	93.00
70.00	79.00	88.50
65.00	72.00	82.00
61.00	70.00	80.00
<u>844.50</u>	<u>938.80</u>	<u>1043.50</u>
x 0.38	x 0.38	x 0.38
320.91	356.74	396.53
<u>x 1</u>	<u>x 4</u>	<u>x 1</u>
320.91	1426.98	396.53

2144.42

x 11.92

25554.34

÷ 100

255.54 TONS

# LIST P/S FR 99-89

L = 93.00 D = 14.50

sec 1	sec 2	sec 3
15.00	15.00	13.50
13.50	13.50	12.50
12.75	12.75	9.50
9.75	9.75	8.50
5.50	5.50	4.75
<u>139.00</u>	<u>139.00</u>	<u>106.25</u>
x 1.21	x 1.21	x 1.21
168.19	168.19	128.56
<u>x 1</u>	<u>x 4</u>	<u>x 1</u>
168.19	672.76	128.56

969.51

x 15.50

15027.41

÷ 100

= 150.27 x 2 (P/S) = 300.54 TONS

ART PEAK P/S FR 34-5

L = 78.75

CUFT = 16,254.27 x 7/6 =

13545.23 ft<sup>3</sup>

NOTE:

NOT ENOUGH  
DETAILS ON  
PLANS TO  
SIMPSONIZE  
TANKS.

÷ 100

135.45 TONS

x 2 P/S

170.90 TONS

FILE NAASSCO HULL 490

MAIN DK (TWEEN)	SECOND DK (TWEEN)
LENGTH <u>831.75</u> DIVISIONS <u>16</u> HEIGHT <u>21.50</u> CON. INT <u>5.98</u> 1/2 C.I. <u>17.33</u>	LENGTH _____ DIVISIONS _____ HEIGHT _____ CON. INT. _____ 1/2 C.I. _____
$831.75 \times 21.50 = 19,253.63$ (10767) <ul style="list-style-type: none"> <li>0.00</li> <li>58.00</li> <li>98.00</li> <li>112.00</li> <li>116.00</li> <li>116.00</li> <li>116.00</li> <li>116.00</li> <li>116.00</li> <li>116.00</li> <li>116.00</li> <li>116.00</li> <li>116.00</li> <li>116.00</li> <li>116.00</li> <li>116.00</li> <li>116.00</li> <li>116.00</li> <li>116.00</li> </ul>	$820.75 \times 18.50 = 16,056.95$ (10575) <ul style="list-style-type: none"> <li>0.00</li> <li>54.00</li> <li>86.50</li> <li>102.00</li> <li>109.50</li> <li>116.00</li> <li>116.00</li> <li>116.00</li> <li>116.00</li> <li>116.00</li> <li>116.00</li> <li>116.00</li> <li>116.00</li> <li>116.00</li> <li>116.00</li> <li>116.00</li> <li>116.00</li> <li>116.00</li> <li>116.00</li> </ul>
LESS EXEMPTIONS: <del>             MACHY:  <math>21.0 \times 14.0 \times 21.50 \times (2) = 126.42</math>  <math>28.0 \times 14.0 \times 21.50 \times (2) = 168.56</math>  <math>12.0 \times 14.0 \times 21.50 \times (2) = 92.24</math>  <u>367.22</u>               L&amp;A  <math>39.0 \times 14.0 \times 21.50 \times (2) = 234.78</math> </del>	LESS EXEMPTIONS: OPEN: AS MEASURED ABOVE = 16,056.95 LESS: $12.0 \times 14.0 \times 18.50 \times (2) = -626.78$  $61.0 \times 35.0 \times 18.50 = -379.93$ (33.6) 48.00 62.00 TOTAL OPEN 15,050.24
OPEN AS MEASURED ABOVE = 19,253.63 LESS: MACHY - 367.22 L&A - 234.78  FRS 175-140 $75.00 \times 20.00 \times 21.50 = 708.60$ (49.94) <ul style="list-style-type: none"> <li>0.00</li> <li>33.00</li> <li>45.50</li> <li>57.00</li> <li>68.00</li> <li>77.00</li> </ul> LESS: $-3.0 \times 16.75 \times 21.50 = -10.80$ <u>17953.83</u> TOTAL OPEN TO GROSS 12,998.80	WATER BALLAST AS MEASURED ABOVE 379.93 LESS: $12.50 \times 18.00 \times 18.50 = -41.63$ } = 338.31  TOTAL EXEMPT 15,388.55 TO GROSS 668.40

\* CAN NOT EXEMPT SUCH ITEMS BELOW THE UPPER DECK (OR LINE OF SAME) DWG

**SPAR DK (UPPERMOST COMPLETE DK)**

**FORECASTLE**

LENGTH \_\_\_\_\_ HEIGHT \_\_\_\_\_  
DIVISIONS \_\_\_\_\_ CON. INT \_\_\_\_\_  
1/2 C.I. \_\_\_\_\_

LENGTH \_\_\_\_\_ HEIGHT \_\_\_\_\_  
DIVISIONS \_\_\_\_\_ CON. INT \_\_\_\_\_  
1/2 C.I. \_\_\_\_\_

120.0 x 14.0 x 20.00 x (2) = 612.00 /  
+ 60.0 x 23.0 x 10.00 = 138.00 /  
12.0 x 18.0 x 10.00 = 21.60 /  

---

831.60 /

74.0 x	11.70	9.00	
	23.40	11.00	
	41.60	13.00	= 599.07
(54.25)	56.80	15.00	
	70.00	17.00 (4.93)	
	82.00	19.00	
	93.00	19.50	

LESS EXEMPTIONS:

MACHY:  
60.0 x 23.0 x 10.00 = 138.00 /  
9.0 x 14.0 x 10.00 x (2) = 25.20 /  
27.50 x 14.0 x 20.00 x (2) = 154.0 /  
- 1/2 x 15.50 x 4.00 x 10.00 x (2) = -6.20 } = 147.80  
22.0 x 14.0 x 10.00 = 30.80 /  
12.0 x 14.0 x 20.00 x (2) = 67.20 /  

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409.00 /

COMP  
9.0 x 4.0 x 10.00 = 3.60 /  
12.0 x 14.0 x 10.00 x (2) = 33.60 /  
12.50 x 14.0 x 10.00 = 17.50 } = 15.40 /  
- 3.50 x 6.00 x 10.00 = -2.10 } = 52.60 /

1/2 A  
19.50 x 14.0 x 20.00 x (2) = 109.20 /  

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570.80 /

TD GROSS 260.80

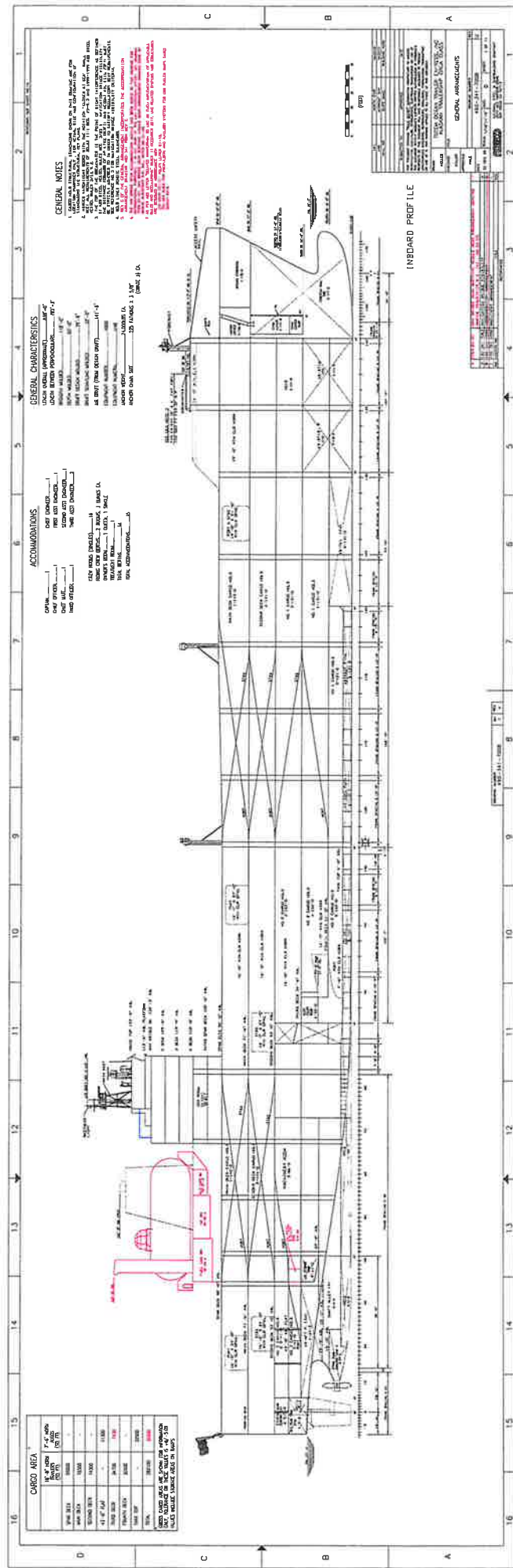
LESS EXEMPTIONS:

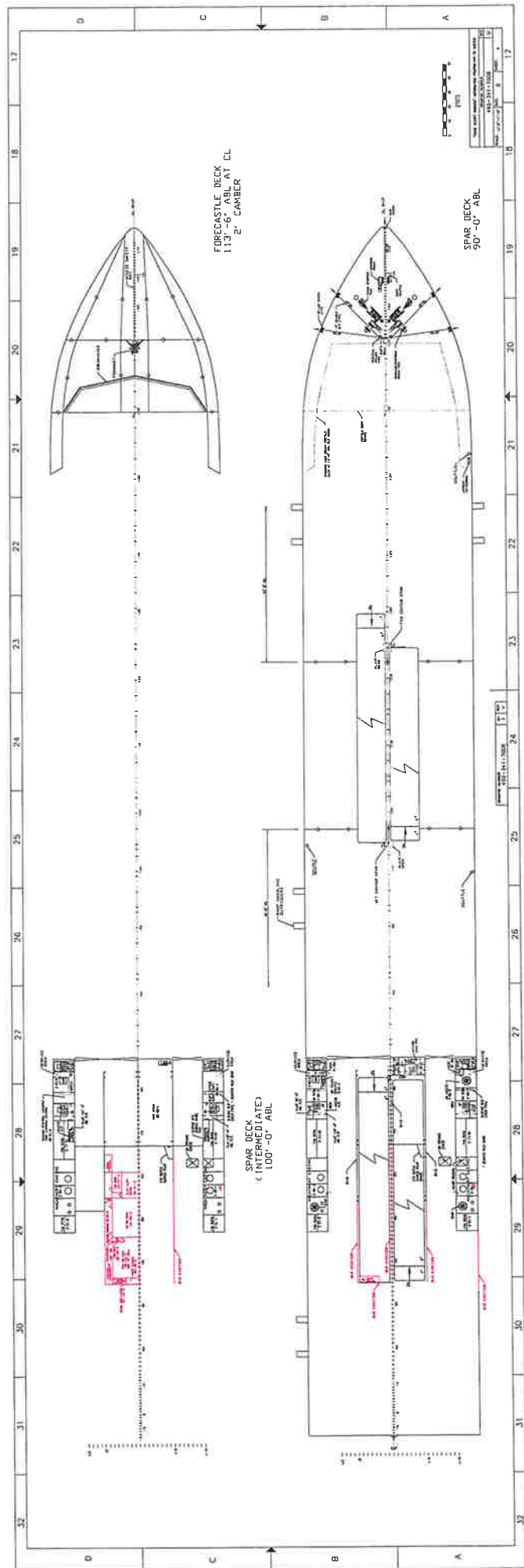
ANCHOR  
AS MEASURED ABOVE = 599.07

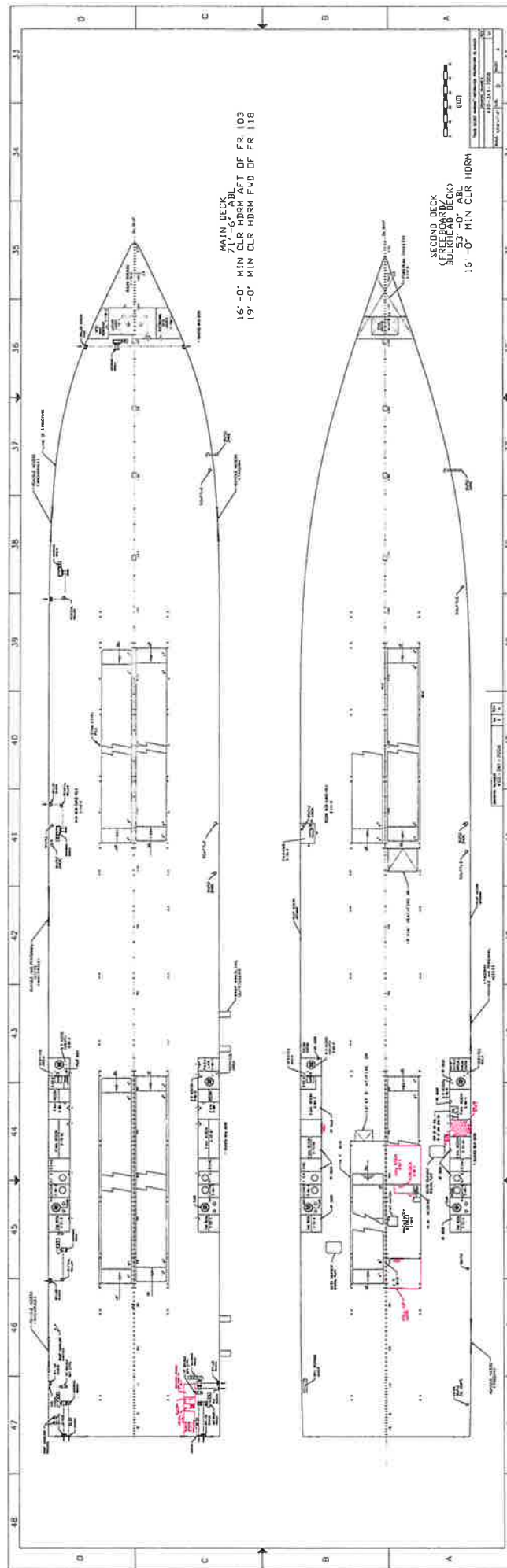
TD GROSS 1016.71 /

"A" DECK	"B" DECK
<p>LENGTH _____ HEIGHT _____ DIVISIONS _____ COM. INT. _____ <math>\frac{1}{2}</math> C.I. _____</p>	<p>LENGTH _____ HEIGHT _____ DIVISIONS _____ COM. INT. _____ <math>\frac{1}{2}</math> C.I. _____</p>
<p>41.50 x 116.50 x 9.75 = 471.39 ✓ + 18.00 x 88.75 x 9.75 = 155.76 ✓ + (2) x 12.0 x 4.50 x 9.75 = 10.53 ✓ + 44.0 x 19.50 x 9.75 = 83.66 ✓ + 38.50 x 19.50 x 9.75 = 73.20 ✓ + (2) x 44.0 x 15.00 x 9.75 = 128.70 ✓ <hr/>923.24 ✓</p>	<p>41.50 x 116.50 x 9.75 = 471.39 ✓ + 18.00 x 87.0 x 9.75 = 152.69 ✓ + 6.00 x 20.50 x 9.75 = 11.99 ✓ + 38.50 x 19.50 x 6.25 = 46.92 ✓ + 28.50 x 19.50 x 2.25 = 12.50 ✓ + (2) x 41.0 x 15.00 x 9.75 = 119.93 ✓ <hr/>815.42 ✓</p>
<p><u>LESS EXEMPTIONS:</u></p> <p><u>L &amp; A</u> AS MEASURED ABOVE = 128.70</p> <p><u>COMP.</u> 8.00 x 13.50 x 9.75 = 10.53 (2) x 12.0 x 4.50 x 9.75 = 10.53 } = 21.06 <u>GALLEY</u></p> <p>17.00 x 38.0 x 9.75 = 62.99 ✓</p> <p><u>W.C.</u> 6.0 x 4.50 x 9.75 = 2.63 6.0 x 5.50 x 9.75 = 3.22 } = 5.85</p> <p><u>MACHY</u> 18.0 x 38.0 x 9.75 = 66.69 18.0 x 23.50 x 9.75 = 41.24 } = 107.93 38.0 x 19.50 x 9.75 = 72.25 <hr/>398.78</p> <p style="text-align: right;">TO GROSS 524.46</p>	<p><u>LESS EXEMPTIONS:</u></p> <p><u>L &amp; A</u> AS MEASURED ABOVE = 119.93</p> <p><u>COMP</u> <math>\frac{1}{2}</math> x 8.0 x 13.50 x 9.75 = 5.27 <math>\frac{1}{2}</math> x 10.50 x 17.50 x 9.75 = 8.96 } = 14.23</p> <p><u>W.C.</u> 6.00 x 5.50 x 9.75 x (6) = 19.30</p> <p><u>MACHY</u> 12.00 x 15.00 x 9.75 = 17.55 6.00 x 6.00 x 9.75 = 3.51 } = 21.06 <hr/>174.52</p> <p style="text-align: right;">TO GROSS 640.90</p>

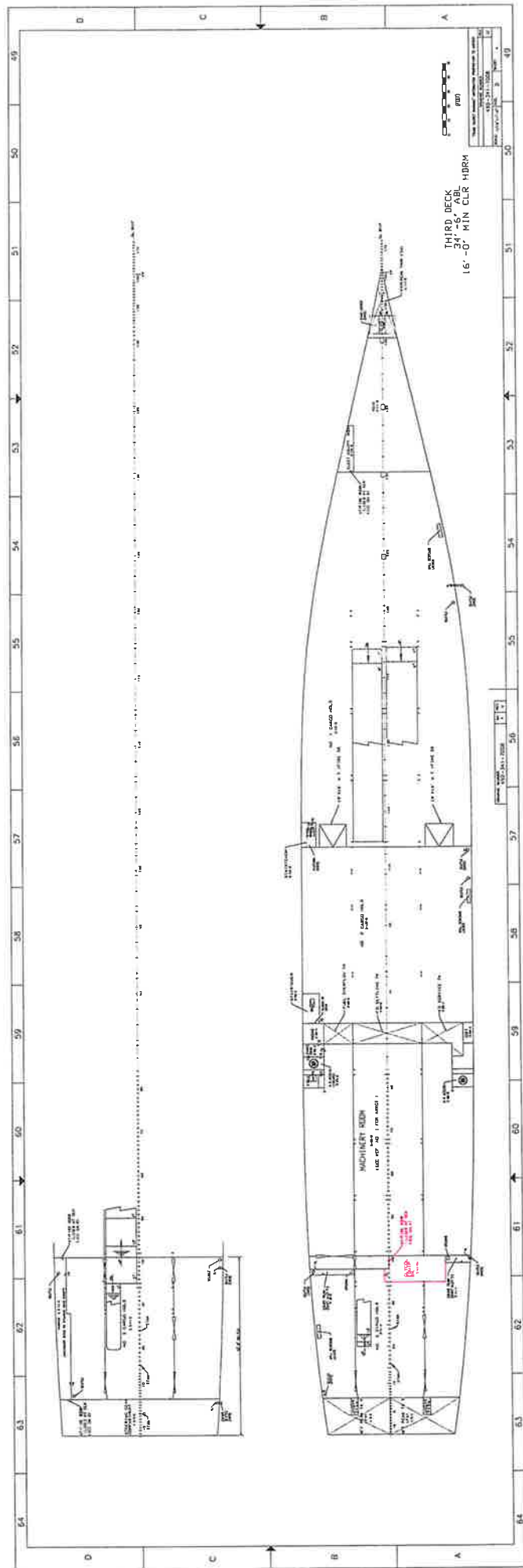
"C" DECK	NAV. BRIDGE DIC
LENGTH _____ HEIGHT _____ DIVISIONS _____ COM. INT. _____ 1/2 C.T. _____	LENGTH _____ HEIGHT _____ DIVISIONS _____ COM. INT. _____ 1/2 C.T. _____
$41.50 \times 116.50 \times 9.75 = 471.39$ ✓ $+ 17.00 \times 87.50 \times 9.75 = 145.03$ ✓ $+ (2) \times 38.00 \times 15.00 \times 9.75 = 111.15$ ✓ <hr/> <b>727.57</b> ✓	VOID UNDER W.H. $36.00 \times 70.0 \times 4.25 = 107.10$ ✓ $+ (2) \times 9.25 \times 11.50 \times 4.25 = 9.04$ ✓ <hr/> <b>116.14</b> ✓  $32.00 \times 70.0 \times 9.50 = 212.80$ ✓ $10.0 \times 6.00 \times 4.25 = 2.55$ } $+ 3.0 \times 6.00 \times 9.50 = 1.71$ } = <b>4.26</b> ✓ <hr/> <b>333.20</b> ✓
LESS EXEMPTIONS: L 1/2 A AS MEASURED ABOVE = <b>111.15</b>	LESS EXEMPTIONS:
COMP. $8.00 \times 13.50 \times 9.75 = 10.53$ ✓ $12.00 \times 4.75 \times 9.75 = 5.56$ } $+ 8.00 \times 6.00 \times 9.75 = 4.68$ } = <b>10.24</b> ✓	VENTS AS MEASURED ABOVE = <b>4.26</b>
MACHY $6.00 \times 6.00 \times 9.75 = 3.51$ ✓ <hr/> <b>135.43</b> TO GROSS <b>592.14</b> ✓	MACHY AS MEASURED ABOVE = <b>107.10</b>
	COMP. $3.50 \times 6.50 \times 9.50 = 2.16$ ✓
	W.C. $6.00 \times 4.75 \times 9.50 = 2.71$ ✓
	WHEEL AS MEASURED ABOVE = <b>212.80</b> LESS: COMP. - <b>2.16</b> $6.00 \times 12.75 \times 9.50 = 7.27$ W.C. - <b>2.71</b> <hr/> <b>200.66</b> <hr/> <b>316.89</b>
	TO GROSS <b>16.31</b> ✓

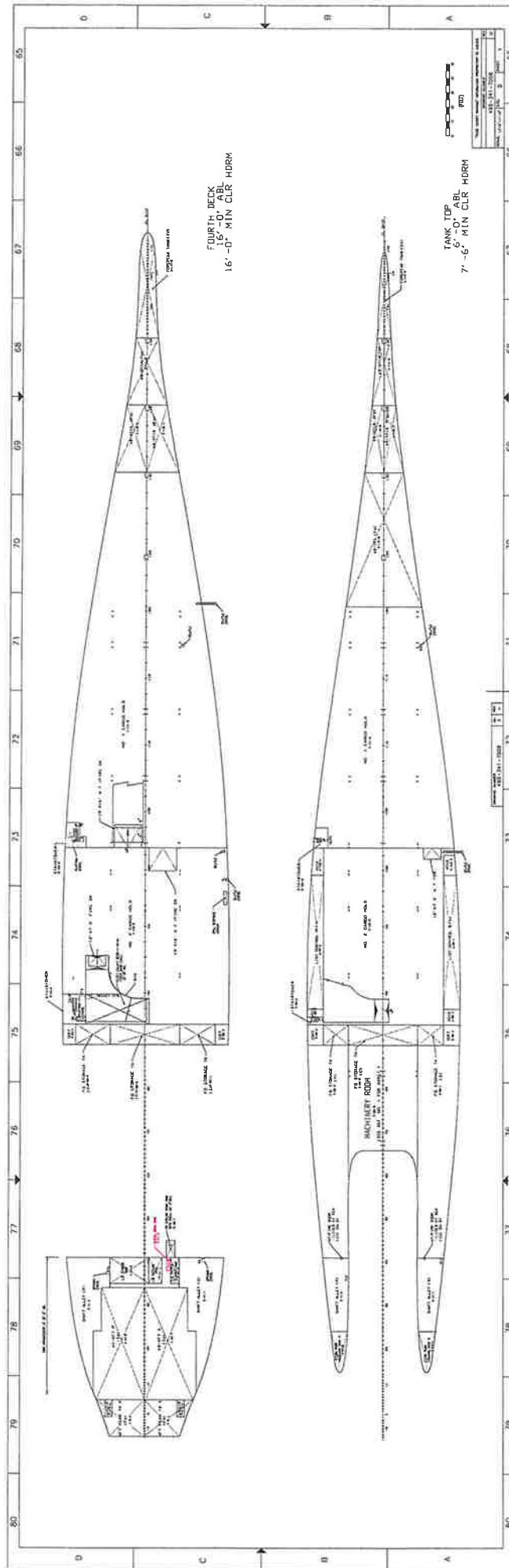






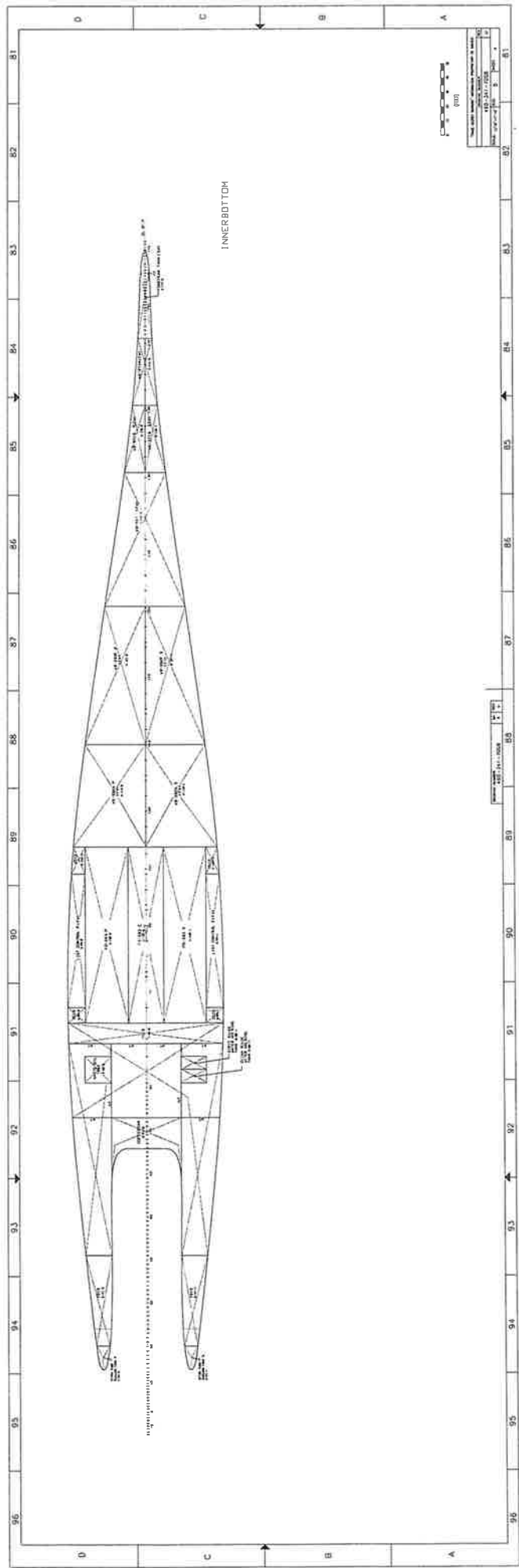


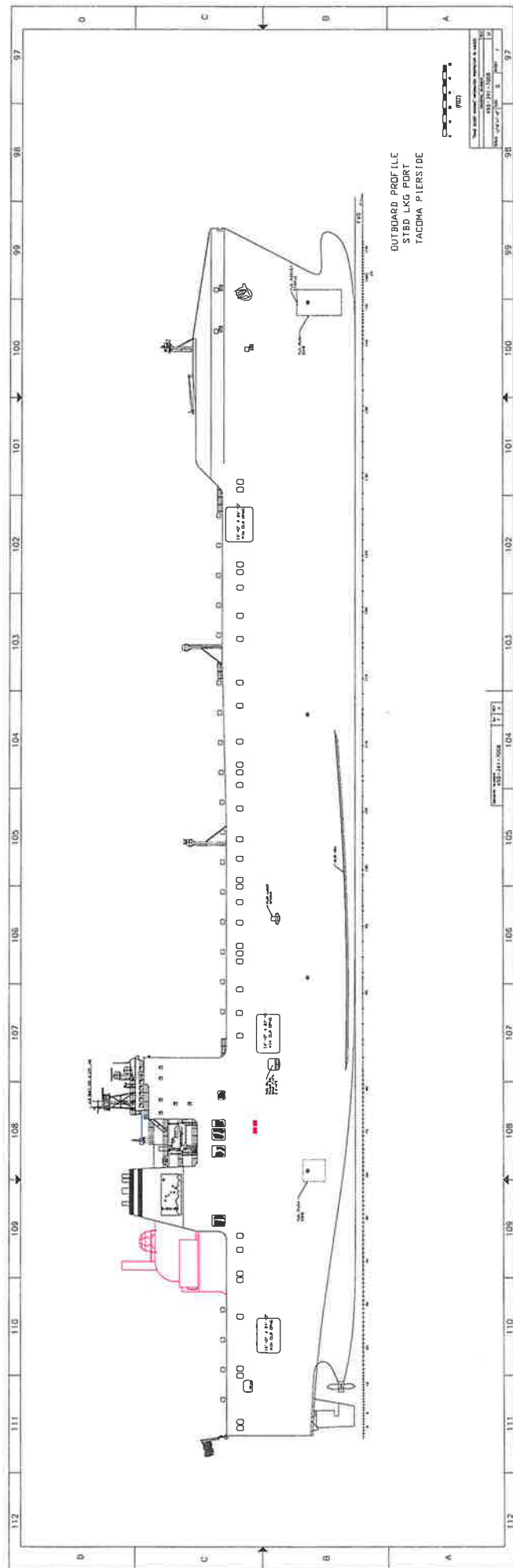


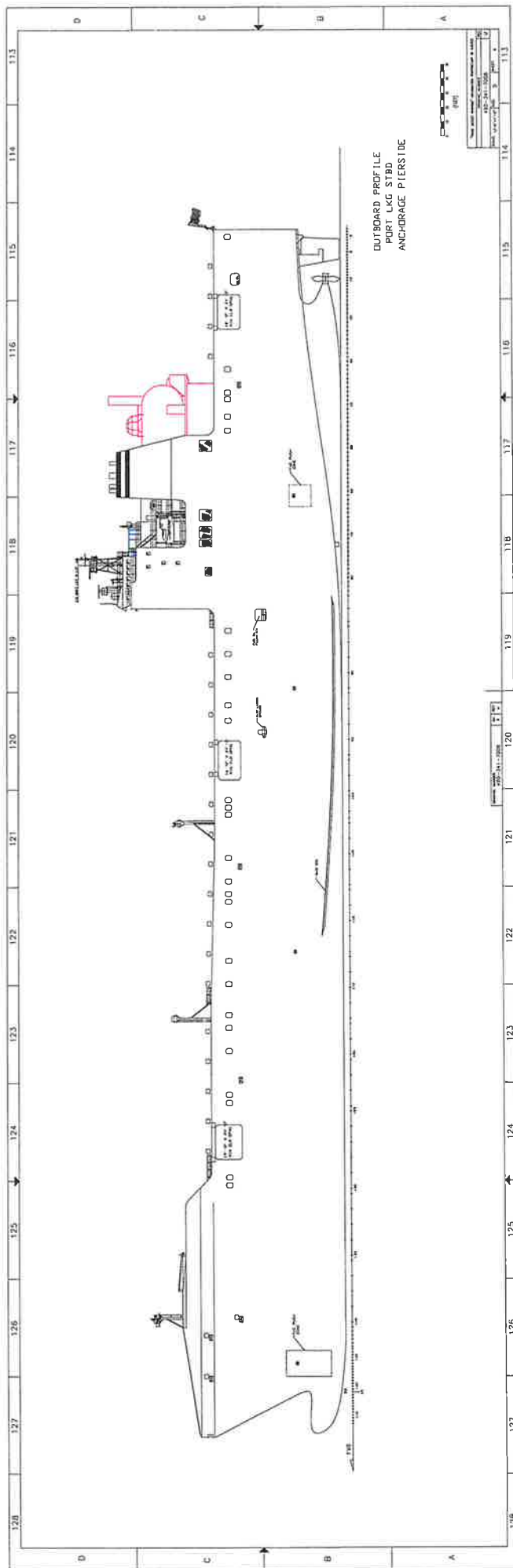


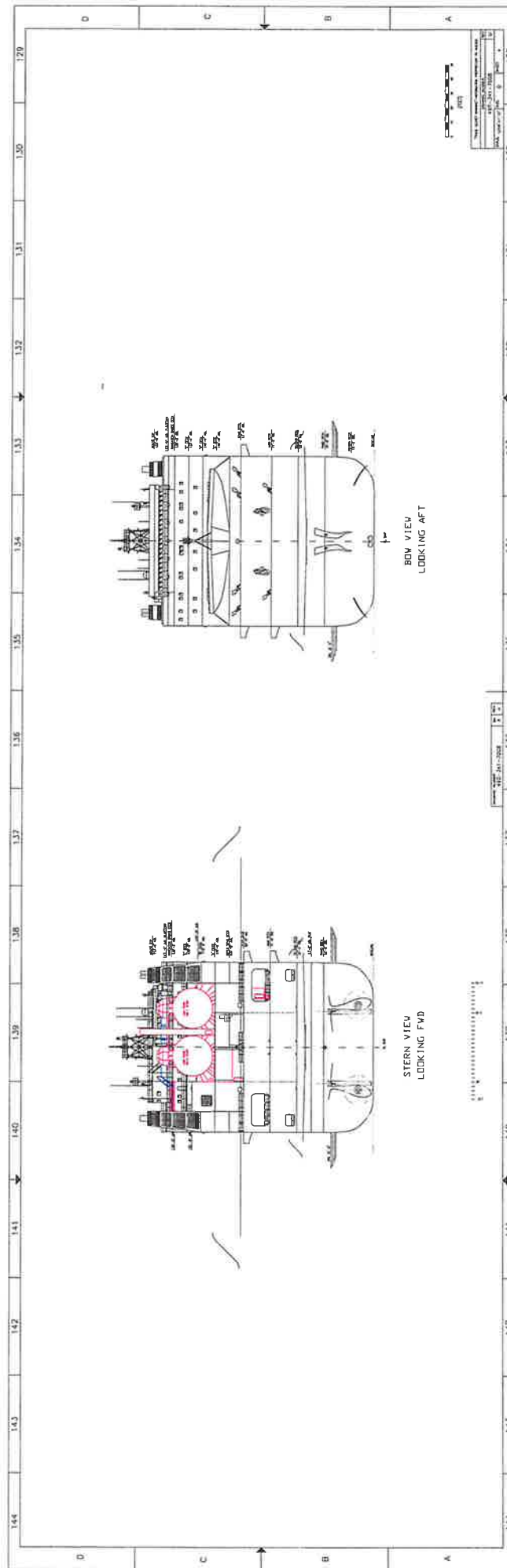
DECK, TOP  
16'-0" MIN CLR HDRM

TANK, TOP  
6'-0" ABL  
7'-6" MIN CLR HDRM

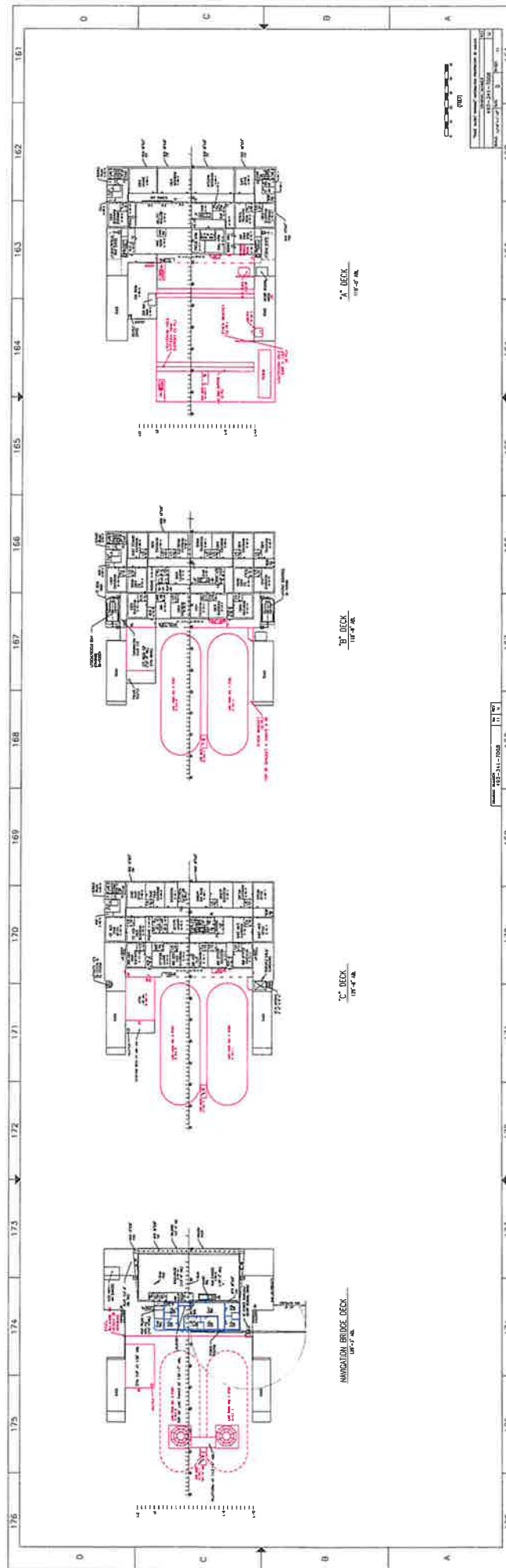














**From:** [Phil Morrell](#)  
**To:** [Joe Misenti](#)  
**Cc:** [Phil Morrell](#)  
**Subject:** Dispute With Puget Sound Pilots Association  
**Date:** Wednesday, October 26, 2022 2:24:40 PM

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Joe,

This statement of fact confirms that the Midnight Sun and North Star are identical sister vessels as shown in Midnight Sun General Arrangement drawing which has been provided, as requested.



**Phil Morrell** | Vice President of Marine Operations | **TOTEServices,LLC**  
500 Alexander Avenue, Tacoma, WA 98421 O: 253.238.8419 | M: 253.370.6234 | [www.toteservices.com](http://www.toteservices.com)

CERTIFICATE OF SERVICE  
TP-220513

I certify that on November 3, 2022, I served TOTE MARITIME ALASKA, LLC'S RESPONSES TO PSP'S DATA REQUESTS NOS. 1-3 and documents numbered TOTE\_00001 through TOTE\_00025 **via email** to the following parties:

*Utilities and Transportation Commission*

Julian Beattie  
Assistant Attorney General  
Jeanne Roth  
WUTC  
P.O. Box 47250  
Olympia, WA 98504  
(360) 664-1225  
julian.beattie@atg.wa.gov  
jeanne.roth@utc.wa.gov

*Pacific Merchant Shipping Association*

Michelle DeLappe  
FOX ROTHSCHILD LLP  
1001 Fourth Avenue, Ste 4400  
Seattle, Washington 98154  
(206) 389-1668  
seasalt@foxrothschild.com  
mjacob@pmsaship.com

*NW Marine Trade Association*

Jay Jennings  
Northwest Marine Trade Association  
1900 N. Northlake Way #233  
Seattle, WA 98103  
(206) 634-0911  
jay@nmta.net

*Respondent*

Michael E. Haglund  
Julie Weis  
Eric E. Brickenstein  
HAGLUND KELLY LLP  
2177 SW Broadway  
Portland, OR 97201  
(503) 225-0777  
mhaglund@hk-law.com  
jweis@hk-law.com  
ebrickenstein@hk-law.com  
cbrown@hk-law.com

*Pacific Yacht Management*

Monique Webber  
Pacific Yacht Management  
2284 W. Commodore Way, Ste 120  
Seattle, Washington 98199  
(206) 285-1449  
monique@pacificyachtmanagement.com

Ivan Carlson  
president@pspilots.org

Courtesy Service: betsy.demarco@utc.wa.gov;  
mmoore@pmsaship.com; harry.fukano@utc.wa.gov;  
mjacob@pmsaship.com; daniel.teimouri@utc.wa.gov;

DATED at Seattle, Washington this 3rd day of November, 2022.

LANE POWELL pc

  
NINA MARIE

Paralegal  
1420 Fifth Avenue, Suite 4200  
P.O. Box 91302  
Seattle, Washington 98111-9402  
[marien@lanepowell.com](mailto:marien@lanepowell.com)