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Delphi Maritime, LLC

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Car/Passenger Ferry M/V "Guemes"

Condition and Value Survey

Survey No. 2019-0753

Date of Survey: March 4 & 14, 2019

Date of Report: July 31, 2019



Delphi Maritime, LLC 22431 91st Ave. W. Edmonds, WA 98026 (206) 793-5680 (Mobile) jeff@delphimaritime.com

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THIS IS TO CERTIFY

that the undersigned Surveyor at this port did at the request of Mr. Marty McKay, PE, Art Anderson, 202 Pacific Avenue, Bremerton, WA 98337 and Captain Rachel Rowe, Ferry Operations Division Manager, Skagit County Public Works, 500 Ave. Anacortes, WA 98221 survey the welded steel:

Passenger/Car Ferry M/V "Guemes"

91 Gross Registered Tons of Anacortes, Washington

Owners:

Skagit County A Municipal Group

Operators:

Skagit County Public Works 1800 Continental Place, Mt. Vernon, W

for the purpose of ascertaining the condition and value of the vessel and 5- and 10-year cost to cure outlook.

On March 4 and 14, 2019 the attending Surveyor proceeded to Foss Shipyard, Seattle, Washington where the vessel lay in dry-dock subsequently undergoing maintenance, repair, USCG Certificate of Inspection Examination and the subject survey and upon examination the following conditions were found:

"In accepting this report it is agreed that the extent of the obligation of Delphi Maritime, LLC, with respect thereto is limited to furnishing a Surveyor believed to be competent, and in the making of this report the Surveyor is acting on behalf of the person requesting the same, and no liability shall attach to Delphi Maritime, LLC for the accuracy thereof."

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EXECUTIVE SUMMARY

The "M/V Guemes" is an all steel single deck, open car deck, double-ended ferry boat with elliptical ends outfitted with large skegs. Two [2] azimuthing Z-drives, mounted through the deck apron are configured such that they are diagonally opposed on opposite ends of the vessel. Decks have no sheer forward and with the deckhouse amidships, starboard side with single-drum anchor winch forward (No.1 end).

The main engines are Cummins Model KTA 19-M3, 6-cylinder, 530 horsepower each (1,060 H.P. total), 1800 RPM, driving bronze four [4] blade 52" x 36" fixed pitch propellers through ZF Model 550 reduction gear, 0.936:1 ratio with drive shaft to Ulstein Model DF-370 azimuthing thruster, 4.2.1:1 ratio.

Condition Summary

The vessel is forty [40] years old and in active service as a passenger/car ferry. The hull was recently gauged and found with minimal wastage with the exception of the car deck in way of car ramp. This area was cropped and renewed in March 2019. The vessel's machinery, equipment, electrical systems, lifesaving and firefighting equipment meet regulatory requirements for compliance with a USCG Certificate of Inspection for inspected passenger service. The remaining useful life of the hull structure is estimated at 20-years. However, the machinery and equipment, although well maintained, is approaching technological obsolescence with regard to propulsion, air emission, noise, and environmental standards.

Valuations

The three generally accepted methods of valuation (Cost, Income, and Sales Comparison) were all considered for the purposes of this analysis. The Cost Approach was used with adjustments made for capital investments that extend the life of the vessel and major maintenance or renewal due within the next five [5] years.

Current Fair Market Value

The following factors and assumptions were considered in estimating the fair market value of the "M/V Guemes":

- \$10,980,000.00 estimated replacement cost
- 10-year remaining useful life
- \$40,000 Scrap Value
- 2019 Dry-docking maintenance and repair
- 2019 Gauging Report
- Vessel to hold a valid USCG Certificate of Inspection

The results of this analysis yield a current:

Estimated current fair market value \$2,975,000.00 Estimated replacement cost \$10,980,000.00 Date: July 31, 2019 Case No.: 2019-0753
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EXECUTIVE SUMMARY (Cont)

Projected Valuations

The following factors and assumptions were considered in estimating the future fair market value of the "M/V Guemes":

- \$10,980,000.00 estimated replacement cost (2019)
- Remaining Economic Useful Life (instead of remaining useful life)
- 5-year remaining Economic Useful life in present condition (Terminal date 2024)
- \$273,500.00 depreciation per annum until 2024
- \$750,000 cost to cure per annum pre-upgrade
- Upgrade with addition of mid-body extension in 2024
- \$5,100,000.00 cost of 2024 upgrade
- \$4,700,000.00 FMV in 2025 after upgrade
- 15-year extended economic useful life in upgraded condition (Terminal date 2039)
- \$314,000 depreciation per annum after upgrade
- \$300,000 cost to cure per annum post upgrade
- \$40,000 Scrap Value
- Vessel to hold a valid USCG Certificate of Inspection

2-year Projection

The estimated costs/values of the M/V Guemes in two [2] years (2024) is as follows:

| Fair Market Value | \$2,188,000.00 |
|------------------------------------|----------------|
| Cumulative Cost to Cure | \$1,500,000.00 |
| Difference of between cost and FMV | \$688,000.00 |

5-year Projection

The estimated costs/values of the M/V Guemes in five [5] years (2024) is as follows:

| Fair Market Value | \$1,367,500.00 |
|------------------------------------|------------------|
| Cumulative Cost to Cure | \$3,750,000.00 |
| Difference of between cost and FMV | (\$2,383,500.00) |

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EXECUTIVE SUMMARY (Cont)

10-year Projection

The estimated costs/values of the M/V Guemes in ten [10] years (2024) is as follows:

Fair Market Value \$3,444,000.00 Cumulative Cost to Cure \$9,818,322.00 Difference of between cost and FMV \$(6,374,322.00)

Note that the increase in FMV from 5-years to 10-years is due to the extensive renewal, betterments and upgrade during year 2024. The estimated \$5,100,000.00 cost to lengthen and refurbish the vessel creates a new depreciation schedule and revised cost to cure.

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MAIN PARTICULARS OF THE "M/V GUEMES"

Official Number: 601686 Year Built: 1979

Builder: Gladding-Hearn Shipbuilding, Somerset, Massachusetts

Call Sign: WDE 7121

Length (registered): 124'
Length (BP) 100'
Breadth (molded): 34'
Depth (molded): 7'

Registered Gross Tons: 91 GRT Registered Net Tons: 91 GRT

Main Engine(s) Two [2] Cummins KTA-19-M3

Horsepower (Total): 1,060 HP Total

Propulsion Type: Z-drive

Fuel Capacity: 6,352 Gallons

Passenger Capacity: 100 Car Capacity: 20

PREVIOUSLY DRY-DOCKED

The vessel was last in dry-dock in March 2019 at Foss Shipyard, Seattle, WA for maintenance, repair, and USCG Certificate of Inspection dry-dock and internal structural examination. The next full dry-docking is scheduled in 2021.

CLASSIFICATION AND LOAD LINE

The vessel is not classed and does not hold a Load Line Certificate (Not required).

INTENDED SERVICE

The vessel is intended to engage in a car and passenger ferry service between Anacortes, Washington and Guemes Island Washington not more than one [1] mile from land.

FLAG AND CREW

The vessel is of United States coastwise registry

Port of Registry: Anacortes, Washington

The crew reportedly numbers three [3] and may only work 12 hours in any 24-hour period:

Master

Deckhands [2]

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DOCUMENTATION

| Certificate | Yes/No | Expiration Date | Notes |
|--|--------|------------------------|--------------------------|
| Certificate of Documentation | Yes | Feb 29, 2020 | Issued: January 11, 2019 |
| U.S.C.G. Certificate of Inspection | Yes | April 13, 2023 | Issued: April 13, 2018 |
| A.B.S. Load Line Certificate | No | | Not required |
| A.B.S. Class Certificate | No | | Not required |
| A.B.S. Tonnage Certificate | No | | Not required |
| A.B.S. Int Tonnage Certificate | No | | Not required |
| Stability Letter | Yes | | Issued: December 5, 2007 |
| Stability Booklet | No | | Not required |
| FCC License | Yes | Dec 31, 2028 | Issued: October 12, 2018 |
| Communications Safety Radio Telephone Certificate | Yes | Nov 5, 2023 | Issued: November 5, 2018 |

GENERAL DESCRIPTION AND ARRANGEMENT

HULL AND DECKS

The "M/V Guemes" is an all steel single deck, open car deck, double-ended ferry boat with elliptical ends outfitted with large skegs. Two [2] azimuthing Z-drives, each mounted through the deck apron are configured such that they are diagonally opposed on opposite ends of the vessel. Decks have no sheer forward and with the deckhouse amidships, starboard side with single-drum anchor winch forward (No.1 end).

It should be noted that frames are numbered from amidships (0) to No.1 and No. 2 ends. Henceforth in this report the No. 1 end will be "forward" and the No. 2 end will be "aft". Voids are numbered from forward to aft, No. 1 Void forward at the No. 1 end; No. 8 Void aft at the No. 2 end.

The deckhouse is two-level level of welded steel construction from Frame No. 14 forward to No. 11 aft and divided into passenger lounge, deck gear locker, and crew's day room. The raised pilothouse is accessed by an interior stairway from the main deckhouse and is outfitted with navigation/communication equipment, engine and Z-drive controls, gauges and alarms and inclined windows to reduce glare.

MAIN DECK

The main deck is open with access at both ends for passengers and drive-on vehicles. The main deck has a capacity for twenty [20] standard sized vehicles and is outfitted with anchor winch No. 1 end starboard, eight [8] cast cleats and four [4] closed chocks. Main engines are mounted on suitable engine beds welded to the main deck at No. 1 end port and No.2 end starboard and

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GENERAL DESCRIPTION AND ARRANGEMENT (Cont)

MAIN DECK (Cont)

housed in steel compartment equipped with hinged access doors. Main engines are protected from vehicles by a 3" pipe guard rail. The auxiliary engine is housed in a similar steel cabinet No. 2 end starboard side aft of the No. 2 main engine. The deckhouse described above is located on the starboard side

A 42" high steel bulwark reinforced by flat bar stanchions and stiffeners surrounds the perimeter of the main deck port and starboard to No. 1 and No. 2 end loading aprons.

Four [4] steel watertight doors provide access to the accommodation spaces into the main deckhouse.

O1-DECK

The exterior of the 01-Deck has two life jacket storage boxes with top opening covers, one mounted forward and one aft of the raised pilothouse. Each box stows eleven [11] children and twenty-two [22] adult life jackets. An additional job box is mounted forward. The 01-Deck interior is occupied by a crawl space below the pilothouse which houses emergency batteries, battery charger and potable water tank.

PILOTHOUSE

The raised pilothouse is accessed by an interior stairway from the from the crew's day room. The raised pilothouse is equipped with center console containing main engine and azimuthing drive controls, wood chart desk with cabinets forward, navigation and communication equipment mounted on the overhead, and gauge, alarm and electrical panels located throughout. The top of the pilothouse has one [1] 18" diameter quick opening escape hatch.

The vessel is fitted with one freestanding, mast located on top of the pilothouse supporting navigation and communication equipment antennas and radar.

ACCOMMODATIONS

The main deck passenger lounge is accessed from the No. 1 end and deck side and can accommodate twenty-eight [28] walk-on passengers. It is outfitted with electric heat, bench seats, lifesaving and firefighting equipment. The crew's day room is electric heated, has wood cabinet with laminate counter and single basin stainless sink forward, chairs and laminate table.

HEAD

There are no toilet facilities on the vessel.

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GENERAL DESCRIPTION AND ARRANGEMENT (Cont)

UNDERDECK COMPARTMENTS

There are seven [7] water tight transverse bulkheads located at Frame No. 0 and 7, 14 and 20 forward and aft. Underdeck compartments are defined by the above transverse bulkheads and part length longitudinal bulkheads dividing the underdeck space into ten [10] compartments:

- Two [2] forepeaks
- Two [2] pump tank compartments
- Two [2] voids
- Two [2] ballast tank voids
- Two [2] ballast tank compartments.

STRUCTURAL DETAILS

The "M/V Guemes" hull, deckhouse and pilothouse are of welded mild steel plate and steel framing construction. Frames are on 24" centers.

4/411

Hull Scantlings

| Deck | Plate | 1/2" steel plate |
|--------|-------|-----------------------------|
| Sides | Plate | 3/8" steel plate |
| | | 5/16" plate above the chine |
| Dottom | Diete | 2/0" at a al miat a |

Bottom Plate 3/8" steel plate

ы.

Bulkheads

| Plate | 1/4" steel plate |
|------------|------------------------------|
| Stiffeners | 3" x 2-1/2"" x 1/4" L |
| Plate | 1/4" steel plate |
| Stiffeners | 3" x 2-1/2" x 1/4" L |
| Plate | 5/16"" steel plate |
| Stiffeners | 5" x 3-1/2" x 1/4" L |
| | Plate Stiffeners Plate |

Frames

| Underdeck | Transverse | 6" x 3-1/2" x 3/8" L |
|-----------|-------------|-------------------------|
| Sides | Shell Frame | 5/16" x 4" FlgPlt |
| | Stiffeners | 3" x 2-1/2" x 1/2" L |
| Bottom | Transverse | 36" x 4" x 5/16" FlgPlt |
| | Stiffeners | 3" x 2-1/2" x 1/4" L |

Girders

| Underdeck | Longitudinal | 14" x 4" x 3/8" FlgPlt |
|-----------|--------------|------------------------|
| Bottom | Longitudinal | 18" x 4" x 3/8" FlgPlt |

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Scantlings (Cont)

Skegs Plate 5/16" plate

Bulwarks Plate 3/8" (estimate)

Stanchions 6" x 1/2" FB Stiffeners 3" x 1/2" FB

Cap rail 6" x 1-1/2" x 1/4" L

Full Builder's plans and scantlings were not available at the time of survey. Scantlings referenced off International Inspection Ultrasonic Gauging survey March 2019.

WELDING

Fastenings are electric welded.

TERMINOLOGY

The following terminology is used through this report to describe the condition of the inspected parts of the vessel:

| Good: | Like new condition. Better than average in all respects, or strength; performance unimpaired; no maintenance or repair required |
|-----------------|--|
| Satisfactory: | Light wear. Condition average; minor deficiencies not in need of correction, wear and tear evident but original strength/performance not significantly affected. |
| Serviceable: | Moderate wear. Condition below average; wear and tear evident and original strength/performance affected but not in need of immediate maintenance or repairs. |
| Unsatisfactory: | Heavy wear. Below average: deficiencies in need of immediate maintenance or repairs |
| Poor: | Requires immediate attention or repair. Condition deteriorated in all respects; beyond practical repair, and requires renewal or replacement. |
| NA | Not applicable |
| NI | Not inspected—i.e. functionality and performance not verified |

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STRUCTURAL DETAILS (Cont)

WATERTIGHT INTEGRITY

The watertight integrity of the vessel appears satisfactory. The passenger lounge, crew day room, and deck gear locker are accessed by watertight doors from the main deck. Underdeck voids are accessed by 18" diameter single action Baier type hatches.

CONDITION: Accessed by visual inspection only. Doors, hatches, windows and portlights were not chalk tested or otherwise tested for tightness.

Doors Number: Three [3]

Type: Hinged 2-dog

Material: Steel Size: 30" x 72"

Location: Deckhouse No. 1 end and main deck

Sill: 6"

Condition: Satisfactory, visual inspection only

Number: One [1]

Type: Hinged 2-dog

Material Steel Size: 26" x 72"

Location: Deckhouse gear locker

Sill: 6"

Condition: Satisfactory, visual inspection only

Hatches Number: Eighteen [18] (approximate)

Style: Hinged Single acting Baier

Size: 18" diameter

Material: Steel

Location: Main deck

Coaming Flush

Condition: Satisfactory, visual inspection only

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STRUCTURAL DETAILS (Cont)

WATERTIGHT INTEGRITY (Cont)

Windows Number: Ten [10]

Located: Passenger Lounge [8]

Crew Day Room [2]

Size: 35" x 29"

Style: Metal frame fixed

Condition: Satisfactory

Number: Eight [8]
Located: Pilothouse
Size: Various

Style: Four [4] slide opening

Four [4] Fixed

Portlights Number: Four [4]

Size: 10" Round Type: Bronze frame

Located: Main deckhouse doors

Condition: Satisfactory

CONDITION: Accessed by visual inspection only. Doors, hatches, windows and portlights were not chalk tested or otherwise tested for tightness. It should be noted that watertight integrity was found satisfactory by the attending USCG Inspectors for Certificate of Inspection Examination.

STAIRS AND LADDERS

Stairs and ladders providing access to the different levels of the vessel, both in the interior and exterior were found satisfactory with either grated treads or satisfactory non-skid coating.

Stairs Material: Welded steel

Location: Main deckhouse (Exterior)

Crew Day Room to Pilothouse (Interior)

Condition: Satisfactory, found with suitable non-skid

Ladders Material: Welded Steel

Location: Access to underdeck voids Style: Side rails 3" x 3/8" steel

Rungs 3/4" square stock

Rung spacing 12"

Condition: Satisfactory

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STRUCTURAL DETAILS (Cont)

Handrails Location: Bulwarks

Material: Steel Height: 25"

Size: 1-1/2" pipe, 1-1/2" pipe stanchions

Style: 2-course Condition: Satisfactory

Location: 01 Deck (Main deckhouse roof)

Material: Steel Height: 42"

Size: 1-1/2" pipe, 1-1/2" pipe stanchions

Style: 2-course Condition: Satisfactory

Location: Pilothouse Material: Steel

Height: Steel

Size: 1-1/2" pipe, 1-1/2" pipe stanchions

Style: 2-course Condition: Satisfactory

Deck Fittings Describe Number Size Material Location

Cleats Eight [8] 30" Cast steel Bow/Stern

Port/Starboard

Closed Chock Four [4] 12" Cast Steel Port/Starboard Condition: Satisfactory, visual inspection only, Not NDT tested

Hull

Guards/Fendering

Type Formed steel guard encircling main deck apron extensions

Condition: Satisfactory

Anodes Number: Thirty [30] ZHS-23 Zinc on hull

Six [6] each on Z-drive lower legs Two [2] on generator grid cooler

Condition: Removed and replaced new at 2019 dry-docking

Sea Valves Number: Two [2]

Location: Forward and aft centerline

Condition: Good—Inspected at 2019 dry-docking

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PROPULSION AND MACHINERY

The main engines are Cummins Model KTA 19-M3, 6-cylinder, 530 horsepower each (1,060 H.P total), 1800 RPM, driving bronze four [4] blade 52" x 36" fixed pitch propellers through ZF Model 550 reduction gear, 0.936:1 ratio with drive shaft to Ulstein Model DF-3270 azimuthing thruster, 4.2.1:1 ratio.

Engines are controllable from the raised pilothouse. The main engines are electric started and cooled by channel keel coolers. Exhaust is dry exhaust by flexible steel piping lagged in engine cabinet and muffler located in stack.

The vessel is also equipped with one [1] auxiliary engine, Fiat Power Train (FPT), Model NEF45 4-cylinder, 1800 RPM, 480v, 3-phase, 60 kW auxiliary engine located main deck starboard side aft of No. 2 main engine starboard cabinet. Auxiliary engine is electric started. Cooling for the auxiliary engines is grid cooler.

Steering is hydraulic consisting by way of azimuthing thrusters mounted forward port side and aft starboard side. Steering solenoids are actuated by electric azimuthing control handles in the pilothouse.

VESSEL MACHINERY

| NAME | MAKE/ MODEL | SERIAL# | H.P. /kW/ Ratio | RPM | Last Overhaul | Hrs. since overhaul |
|----------------|----------------|---------------|-----------------------|------|------------------|---------------------------|
| No. 1 ME | Cummins KTA-19 | 3721-7216 | 530 HP | 1800 | 2017 | 8,480 |
| No. 2 ME | Cummins KTA-19 | 3721-9054 | 530 HP | 1800 | 2017 | 6,190 |
| Red Gear No. 1 | ZF Model 550 | 2006-5972 | 0.936:1 | | 2019 | 0 |
| Red Gear No. 2 | ZF Model 550 | 2007-0386 | 0.936:1 | | 2019 | 0 |
| No. 1 Z-drive | Ulstein DF-370 | 3721-9054 | 4.2:1 | | 2015 | 8747 |
| No. 2 Z-drive | Ulstein DF-370 | 3721-7217 | | | 2019 | New |
| Auxiliary | FPT NE 45 | J600-00881229 | 65.5 | 2800 | 2019 | |
| Generator | Stamford | | 60 kW | | | |

Propellers Number: Two [2]

Blades: Four [4]
Diameter: 52"
Pitch: 36"

Manufacturer: Kruger & Sons

Material: Bronze

Condition: Good, Inspected and polished 2019 dry-dock

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MACHINERY AND EQUIPMENT

Additionally, the vessel carries the following equipment:

| <u>No.</u> | <u>ITEM</u> | MAKE/MODEL/SPEC | <u>Location</u> |
|------------|-------------|--------------------------------------|------------------|
| One [1] | Fire Pump | 15 H.P. Electric Barnes Series 25CCE | No. 2 Void No. 7 |

Two [2] Fire Pump Hydraulic Barnes Series 25ICU-1 No. 1 and No. 2 Main Engines

Note that fire pumps were installed new at the 2019 Dry-docking at Foss Shipyard

PILOTHOUSE

| No. | <u>ITEM</u> | MAKE/MODEL/SPEC |
|-----------|----------------------------|-----------------------------------|
| Two [2] | Radar | Furuno 8062 with RP 150 Display |
| Three [3] | VHF Radios | SEA 157 |
| One [1] | VHF Radio | Standard Horizon GX 2150 |
| One [1] | Loud Hailer | One SEA -857 |
| One [1] | UHF Radio | Kenwood TK-8180 |
| One [1] | Intercom | Elctro Voice PAA-60 |
| One [1] | GPS Navigator | Garmin GPS Map-7608 |
| One [1] | Depth Sounder | Furuno FCV-620 |
| One [1] | Magnetic Compass | Dirigo 6" Adjusted 2019 |
| One [1] | Satellite Compass | Furuno SC-502 |
| One [1] | AIS | Furuno FA-150 |
| Two [2] | Search light | Carlisle Finch 12" Diameter |
| Two [2] | Binoculars | |
| Two [2] | Trim Gauges | Lev-o-gauge |
| Two [2] | Windshield Wipers | |
| One [1] | Ship's clock | Tempo Atomic |
| One [1] | Barometer | Swift 5" |
| One [1] | Anemometer | Sou'wester |
| One [1] | Computer | Laptop |
| One [1] | Bilge Alarm Panel | Murphy 7-station |
| One [1] | 24-volt Distribution Panel | Equipped with Volt gauge |
| One [1] | Emergency light | Navy Style |
| Two [2] | Ship's Whistle | |
| Two [2] | Azimuth Controls | Ulstein Combi handle and joystick |

ELECTRICAL SYSTEM

Pilothouse, accommodation spaces and electrical machinery are all served by the 110/220-volt A.C. electric system serviced by one [1] FPT generator and shore power receptacle and 24-volt DC from storage batteries. Wiring is of all electrical conductors of plastic and basket weave armor covered, multi-strand, marine type wiring. Fixtures and switches are of marine grade.

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ELECTRICAL SYSTEM (Cont)

Dead front circuit switchboards with circuit breakers and master switches are located in engine compartments and battery room.

The 12/24-volt D.C. system is served by two [2] battery banks located in No. 1 and No. 2 Engine Compartments. Each bank consists of two [2] 12-volt marine type 8-D batteries in series and one [1] 12-volt battery connected to plastic covered, multi-strand, copper cables located in corrosion proof, covered, well ventilated boxes in each engine compartment. The vessel is additionally equipped with a 24 to 12-volt converter.

Pilothouse equipment is served by one [1] bank of three [3] 12-volt batteries located under the pilothouse.

Batteries are kept charged by 100 ampere alternators mounted on each main engine and by 24-volt battery charger and 12-volt constavolt.

Lighting consists of dual white/red illumination for bridge and stairwell, sodium and quartz lights for deck illumination and vapor proof globe lights on the deckhouse.

TANKS

The following tank capacity of the vessel is as follows:

Fuel oil tanks (Four) 6,352 gallons Fresh water 275 gallons Ballast Water 23,747 gallons

Fuel Oil

Capacity & Tanks: 6,352 U.S. Gallons reported in four [4] freestanding, independent

tank

Material & Location: 1/4" Welded mild steel in:

No. 3 Void (two [2] tanks) No. 6 Void (two [2] tanks)

Fill and Sounding: Raised steel pipe fill with containment on main deck.

Raised pipe vents with ball checks.

Supply Lines & Shutoff: Steel pipe supply and return lines through strainer and filters to

engine with flexible lines and shutoff valves at engines

Components: Dual gang primary filters, secondary filters on auxiliary and main

engines

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TANKS (Cont)
FUEL OIL (Cont)

Ventilation: Natural to containment

Fresh Water

Capacity & Tanks: 275 U.S. Gallons

Material & Location: One [1] independent galvanized mild steel tank located in

pilothouse void

Fill and Sounding: Standpipes

Supply Lines & Shutoff: Galvanized steel piping with in-line filters/strainers

Components: One electric driven Jabsco Pump, 4.2 GPM diaphragm pump.

Ventilation: Natural

Lubricating Oil

Capacity & Tanks: Pail Storage

Hydraulic Oil

Capacity & Tanks: Pail Storage

Waste Lubricating Oil

Capacity & Tanks: Portable 5-gallon pails, transferred ashore

Gray Water/Slop Holding

None

Black Water Treating

Capacity & Tanks: No toilet facilities onboard

VENTILATION Location: Accommodation Areas

Type: Natural and mechanical Location: Engine Compartment

Type: Natural through vent openings

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DECK MACHINERY

The vessel is outfitted with one hydraulically powered anchor winch located forward of the passenger lounge on the No. 1 end foredeck. Anchoring gear consists of One [1] 400 lb. Danforth type anchor and ground tackle of 5/8" x 300' wire rope.

FIRE FIGHTING & LIFE SAVING EQUIPMENT

The "M/V Guemes" is protected from fire by a combination of portable fire extinguishers, remote fuel and machinery shutoffs and fire pump.

Fire Detection

The owner has installed Detect-A-Fire sensors in engine compartments

Fire Hose

The vessel is equipped with two [2] fire stations each with 50' of 1-1/2" fire hose and nozzle stowed on deck, No. 1 and No. 2 ends pressurized by an electrically driven pump Void No. 7 and engine mounted hydraulic pump.

Portable Fire Extinguishers

Portable fire extinguishers are reportedly of the following types and sizes are located as indicated:

| <u>Number</u> | <u>Type</u> | <u>Location</u> |
|---------------|--------------------|------------------|
| One [1] | Halon B-1 | Wheelhouse |
| One [1] | Halon B-1 | Ladder |
| Three [3] | Halon B-II | Crew Day Room |
| Two [2] | Dry Chemical B-II | Crew Day Room |
| Three [3] | Sodium B-III | Car Deck |
| One [1] | Dry Chemical B-III | Car Deck |
| Three [3] | Dry Chemical B-II | Passenger Lounge |
| A II £: | | |

All fire extinguishers serviced January 2019.

Fire Axe

The vessel is equipped with one fire axe mounted in pilothouse.

General Alarm

The vessel is not equipped with a general alarm—not required.

Alarms and Monitoring System

A Murphy Electric monitoring bilge level system panel with a visual and audio alarm is located in the pilothouse. Main engine oil pressure and temperature audible and visual alarms for the

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FIRE FIGHTING & LIFE SAVING EQUIPMENT (Cont)

Emergency Lighting

Emergency lighting consists of battery powered navy style emergency lights mounted in the pilothouse and crew day room.

LIFESAVING EQUIPMENT

Life Rings Quantity: Three [3] Total. One [1] with light, one [1] with line

Life Raft Number: None required for this route

Life Jackets Quantity: One hundred three [103] adult/ forty-six [46] Child

Manufacturer: Various Type: Type 1

Where Stowed: 01-Deck Lockers and passenger lounge

Man Overboard

Retrieval

Quantity: Two [2]

Type: Rescue lines, one swimmer's suite with harness and

tether, one [1] marker buoy

First Aid Equipment Quantity: One [1]

Type: Industrial First Aid Kit

Where Stowed: Crew Day Room

Quantity: One [1]

Type: Eye Wash Station Where Stowed: Crew Day Room

Quantity: Two [2]

Type: Fire Blankets

Where Staward: Grow Day Boom

Where Stowed: Crew Day Room

Quantity: One [1] Type: AED

Where Stowed: Crew Day Room

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LIFESAVING EQUIPMENT (Cont)

Flares (Reportedly) Number: Fourteen [14]

Type: Six [6] smoke

Four [4] handheld Four [4] rocket

Expiry: Note not sighted or inspected

EXTERNAL INSPECTION

Hull

Butts and seams appeared satisfactory with no significant wastage. Hull plating found fair with light washboarding between frames, particularly in areas that are subject to wheelwash from the Z-drive propulsion---No. 1 end port, No. 2 end starboard. Coatings and zincs renewed (reference dry-docking report).

It should be noted that the hull condition was found satisfactory by attending USCG Inspectors for Certificate of Inspection dry-dock exam.

Main Deck

Butts and seams appeared satisfactory with no significant wastage. Approximately 50" of wasted deck plate on each end apron were being cropped and renewed at the time of survey. This area was identified on the 2019 gauging report and is subject to normal heavy wear due to ramp and traffic loads. Deck coatings and non-skid were in the process of being renewed at the time of survey (Reference dry-docking report)

INTERNAL INSPECTION

Internal tanks and voids were open for inspection. All tanks excepting No. 1 Void were entered or viewed by the undersigned surveyor. Visible areas were well coated and free of significant structural deformities.

It should be noted that the hull condition was found satisfactory by attending USCG Inspectors for Certificate of Inspection internal structural exam.

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DRY-DOCKING

The "M/V Guemes was dry-docked March 2019 at Foss Shipyard, Seattle Washington. The following work was reportedly completed during dry-docking:

Sea Valves/Sea Chests

- Remove two [2] 3" sea chest gate valves
- Inspect and reinstall sea chest valves

Propellers

- Inspect propellers
- No. 1 propeller removed and replaced.
- No. 1 propeller seal replaced
- No. 2 propeller seal replaced

Keel Coolers

- Channel Coolers
- Pressure tested to 20 psi
- Replace discharge butterfly valves on No. 1 and No. 2 engines

Anodes

- Thirty [30] 23# zinc anodes installed on hull
- Twelve total [12], six [6] each, zinc anodes installed on Z-drive lower leg
- Two [2] ZHS-26 zinc anodes installed on generator grid cooler

Gauging

- Vessel was gauged while in dry-dock. Wasted areas renewed at drydocking
- Report attached

Voids

• Open and clean voids

Fire Pumps

- Remove and replace fire pumps
 - o One [1] Electric Motor Driven Barnes Series 25CCE
 - o Two [2] Hydraulic Pumps—one [1] in void No. 2 and one [1] in No. 2 Engine room

Fuel Tanks

• Strip and clean

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DRY-DOCKING (Cont)

Steel Renewals

- Crop and renew four [4] wasted fuel tank sounding tubes.
- Crop and renew 5' 8" x 12' 6" x 1/2" plate in main deck apron in way of No. 1 and No. 2 car ramp areas
- No. 1 and No. 2 Z-drive hull mounting brackets found with fractures-v-out and reweld.

Machinery Repairs

- No. 1 and No. 2 Reduction gears removed, overhauled by 3rd party and reinstalled
- Auxiliary Generator removed, overhauled by 3rd party and reinstalled
 - New head gasket
 - o New oil cooler
- Main Engines
 - o Flush cooling system with fresh water
 - o Engine No. 1
 - Replace FW pump and drive
 - Clean and replace aftercooler core
 - Replace fuel pump
 - o Engine No. 2
 - Replace all heads
 - Replace turbocharger
 - Clean and replace aftercooler core
 - Replace fuel pump
 - Replace FW pump

Coatings

- Keel to Waterline
 - Low pressure wash and prepare to SP-6 or similar standard
 - Spot coat Amercoat 240 Epoxy Buff
 - Spot coat Amercoat 240 Gray
 - o One [1] full coat ABC #3 AF Black
 - One [1] full coat ABC #3 AF Red
- Freeboard (Waterline to top of Guard Rail)
 - Low pressure wash and prepare to SP-6 or similar standard
 - o Spot coat Amercoat 240 Epoxy Buff
 - Spot coat Amercoat 240 Gray
 - o One [1] full coat Amershield Urethane Black
 - o One [1] full coat Amershield Urethane White (Boot Stripe)

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DRY-DOCKING (Cont)

COATINGS (Cont)

- Freeboard (Waterline to top of Guard Rail)
 - o Low pressure wash and prepare to SP-6 or similar standard
 - Spot coat Amercoat 240 Epoxy Buff
 - Spot coat Amercoat 240 Gray
 - o One [1] full coat Amershield Urethane Black
 - One [1] full coat Amershield Urethane White (Boot Stripe)
- Car Deck
 - Low pressure wash and prepare to SP-6 or similar standard
 - Track blast to remove existing deck coatings
 - o One [1] full coat 302 Zinc Rich Epoxy Green
 - One [1] full coat Amercoat 240 Epoxy Dark Gray
 - o One [1] full coat Amercoat 138 heavy Duty Non-Skid Epoxy Dark Gray

GENERAL CONDITION

The vessel was dry-docked March 2019 for inspection, maintenance and renewal of coatings (Reference dry-docking section in this report for details). The hull was found satisfactory with widely scattered light to moderate washboarding between side shell frames which are considered normal wear and tear for a vessel of this age. Exterior hull surfaces are newly painted and the deckhouse are satisfactorily coated and generally well maintained. Decks have suitable non-skid and coatings are in satisfactory condition. The hull has satisfactory cathodic protection with paint and anodes.

The vessel is forty [40] years old and in active service as passenger/car ferry. The hull was recently gauged and found with minimal wastage with the exception of the car deck in way of car ramp. This area was cropped and renewed in March 2019. The vessel's machinery, equipment, electrical systems, lifesaving and firefighting equipment meet regulatory requirements for compliance with a USCG Certificate of Inspection for inspected passenger service. The remaining useful life of the hull structure is estimated at 20-years. However, the machinery and equipment, although well maintained, is approaching technological obsolescence with regard to propulsion, air emission, noise, and environmental standards.

Interior surfaces are satisfactorily preserved by paint.

SURVEYORS NOTES

A. Underwater portions of hull and bottom plating and outboard fittings and zinc anodes were examined as the vessel was in dry-dock at time of survey.

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SURVEYORS NOTES (Cont)

B. Propellers and Z-drive propulsion units were examined visually at the time of survey.

- **C.** Wasted steel on the main deck in way of the car ramps was cropped and renewed. repairs were in process at the time of survey.
- **D.** Owner provided written documentation and photographs of new installed equipment and machinery and steel repairs.
- **E.** Internal tanks and voids were inspected at the time of survey as tanks and voids were open and certified as safe for entry.
- **F.** Vessel systems including main engines, diesel generator, electric motors, pumps and valves were not operated for the purposes of this survey.

REGULATORY REFERENCES

The following regulatory and industry standards were referenced in this survey and in the construction, maintenance and repair of the vessel. Relevant sections of:

33 CFR 26, 81, 130, 155, 156 & 173; 46 CFR 25, 26, 28 & 105; 47 CFR 80; 46 USC 4505, 8103, 11101, 10601 & 10602

RECOMMENDATIONS

- **Certification** Vessel to be maintained in compliance with USCG Certificate of Inspection.
- **Regulatory Compliance**--Vessel to be maintained in compliance with the rules, regulations and certifications required for its intended service.
- **Housekeeping-** Vessel is noted as being disheveled at time of survey due to shipyard maintenance and repair activities. Clean and re-stow safety, lifesaving, firefighting and critical equipment in orderly, organized fashion.
- **Z-drive Mounts**-Continue to monitor Z-drive mounting brackets and bolts for fractures and disturbed or deformed mounting hardware.
- Qualifications- All recommendations to be carried out by qualified technicians to best marine practice standards.
- **Lifesaving and Firefighting Equipment** To be inspected and certified to the satisfaction of the attending USCG Certificate of Inspection Inspectors.

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VALUATION

Definitions

DEFINITIONS:

The following definitions are from the American Society of Appraisers Machinery & Technical Specialties Committee.

- **Fair Market Value** is the estimated amount, expressed in terms of money that may be reasonably expected for a property in an exchange between a willing buyer and a willing seller, with equity to both, neither under any compulsion to buy or sell, and both fully aware of all relevant facts, as of a specific date.
- **Replacement Cost** is the current cost of a similar new property having the nearest equivalent utility as the property being appraised.
- **Economic Life** is the estimated number of years that a new property may be profitably used for the purpose for which it was intended.

• Normal Economic Life

The designed life of an income producing asset.

Remaining Economic Life

The time an asset can continue to be used to earn income in its original design and purpose.

Normal Useful Life

The estimated number of years that a new asset can be operated before it becomes unusable as to physical condition, usually used with non-income producing assets.

Remaining Useful Life

The estimated number of years that an asset in use can continue to be operated before it becomes unusable due to physical condition.

Highest and Best Use

A use for the purpose to which the vessel was designed

Highest and Best Use

The highest and best use of the subject vessel is a car and foot passenger ferry on short routes in protected waters.

Methodology

The appraisal process that is applied to most vessels is designed to evaluate all factors, which influence value. A detailed description of the subject vessel is an important component of this process. The characteristics of the subject vessel establish its utility and desirability.

The as-is market value of the 100% ownership interest in the subject vessel is reported in this

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VALUATION (Cont)

appraisal. The three standard approaches to value (Cost, Income, and Sales Comparison Approaches) have been considered in this analysis. The definitions of these approaches to value are as follows:

Cost Approach - this approach is based upon the principle that the value of the vessel is significantly related to its physical characteristics, and that a prudent buyer will not pay more for an asset than the cost of acquiring a substitute property of equivalent utility. In this approach the replacement cost of the asset is estimated and the value is adjusted for depreciation caused by physical deterioration, functional obsolescence, and economic obsolescence.

Income Approach - this approach estimates value by calculating the present value of the future economic benefits of owning the asset.

Sales Comparison Approach - this approach estimates value through the analysis of recent sales or offering prices of property that is similar to the subject property. If the comparables are not exactly like the asset being appraised, adjustments are made to the selling prices of the comparables to equate them to the characteristics of the asset being appraised.

The three generally accepted methods of valuation (Cost, Income, and Sales Comparison) were all considered for the purposes of this analysis.

We were not provided the information necessary to perform an Income Approach analysis. We were unable to locate a sufficient number of sales/sales listings of comparable sales/sales listing data for similar vessels. Buyers of vessels this age tend to look at the usable life remaining, any additional cost to make the vessel suitable for the buyers intended service; the condition, history of maintenance and renewals and the cost of a new like-in-kind vessel.

For this reason the Cost Approach was used with adjustments made for capital investments that extend the life of the vessel and major maintenance or renewal due within the next 5-years.

We were provided information by Skagit County relating to the recent upgrades and capital expenditures made to the subject vessel. This information has been incorporated into the following analysis. The vessel is 40-years old. However, its age is offset by the recent maintenance, refurbishment and renewals completed by the owner. Generally, an asset of this type may be expected to have a 40-year life span. However, the service life can go beyond this average with upgrades and renewals. The recent maintenance and renewals completed by the

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VALUATION (Cont)

current owner has added approximately 10 years to the vessel's serviceable life in its current condition.

Industry sources indicate the current replacement cost for the subject vessel was approximately \$10,000,000 in 2012 for a new built, in-kind vessel, constructed at a Pacific Northwest Shipyard. The Bureau of Labor Statistics Producer's Price Index for Shipyards indicates a 9.8% rise in costs since that time resulting in an estimated 2019 \$10,980,000.00 replacement cost.

The designed life-span of this type of vessel is 40-years which would indicate that this vessel is at the end of its useful life. However, it is estimated that the owner's capital investments have extended the vessel useful life. Based upon the information provided it is the undersigned's opinion with continued timely and professional maintenance the subject vessel should have ten [10] years remaining useful life. We utilized a scrap value of \$40,000 and a remaining useful life of ten [10] years.

The following factors and assumptions were considered in estimating the fair market value of the "M/V Guemes":

- \$10,980,000.00 estimated replacement cost
- 10-year remaining useful life
- \$40,000 Scrap Value
- 2019 Dry-docking maintenance and repair
- 2019 Gauging Report
- Vessel to hold a valid USCG Certificate of Inspection

Using this information, the cost approach to valuation yielded the following valuation estimates based on the previously detailed premises of value. These values are statements of opinion. No guarantee can be given that these opinions of value will be sustained or that they will be realized in an actual transaction.

| Replacement Cost | \$10,980,000.00 |
|---|-------------------|
| Salvage Value | (\$40,000.00) |
| Replacement Cost Adjusted | \$10,940,000.00 |
| 40-year straight line depreciation | \$10,940,000/40 = |
| | \$273,500/year |
| 10-year remaining useful life | \$2,735,000.00 |
| Salvage Value | \$40,000.00 |
| 2019 Certificate of Inspection Dry-dock and ISE | \$200,000.00 |
| Fair Market Value | \$2,975,000.00 |

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VALUATION (Cont)

Surveyor Notes:

It should be noted that the above values are estimates for value of the physical asset only in the condition as found on the day of the survey with no consideration for future economic factors such as required equipment upgrades, replacement or economic obsolescence.

Projected 5-year and 10-year Valuation

NARRATIVE

The future value of the M/V Guemes is inextricably tied to its value as an income producing asset. The M/V Guemes is a special purpose vessel—double ended passenger/car ferry with limited range and operating in protected waters. These types of vessels can be sold to be repurposed but at significantly lower values than in its highest and best use. Any private or public buyer of this asset in the future must also consider the cost of the shoreside infrastructure required to accommodate a passenger/car ferry.

The vessel's future value is dependent on it remaining suitable for its highest and best use and retaining the certifications and equipment required to retain its Certificate of Inspection as a passenger/car ferry vessel.

Additional factors to consider are the future investments required to accommodate growth on the M/V Guemes current route, noise and air emission standards, equipment upgrades and the ongoing "cost to cure" to keep the M/V "Guemes" in service. Cost to cure is the cost to remedy a depreciation factor such as physical depreciation, obsolescence or class, load line or Certificate of Inspection Renewal.

We were provided information by Skagit County that included current and legacy documents of maintenance & repair costs (Reference list of Documents Reviewed). It is estimated that the average of future annual maintenance and repair costs is approximately \$750,000/year.

From a physical condition standpoint the hull plating and internal structure are in sound condition and with continued diligent maintenance can be expected to remain structurally sound for another 20-years. However, critical machinery and equipment will require regularly scheduled replacement or overhaul. It is estimated the vessel operates approximately 6,000 to 7,000 hours per year. Scheduled engine overhauls are required every 15,000-20,000 hours and Z-drive overhauls at 40,000-hour intervals. It is estimated that main engine overhauls run approximately \$125,000 per engine and Z-drive overhauls run approximately \$250,000.00 per overhaul. Based on the current hours of installed machinery the following machinery maintenance costs are anticipated in the five [5] and ten [10] year period.

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VALUATION (Cont)

| Item | 2-year outlook | 5-year cost outlook | 10-year cost outlook |
|--------------|----------------|---------------------|----------------------|
| Main Engines | \$250,000.00 | \$500,000.00 | \$1,000,000.00 |
| Z-drives | \$250,000.00 | \$600,000.00 | \$1,200.000.00 |

Additional economic factors affecting future value of the M/V Guemes are:

- Capacity limitations
- Noise abatement Standards
- Underwater noise abatement standards
- Environmental Stewardship
- Air Emission Standards
- Technological advancement (e.g. LNG/Hybrid/Electric Propulsion)

The cost to cure for the M/V Guemes will rise over the next 5 to 10 years while the depreciated value decreases. In essence the M/V Guemes is on an economic voyage in which the hull is sound but the technology is aging toward obsolescence.

A conservative estimate of the cost to cure for the M/V Guemes is \$1,500,000.00 for 2-years, \$3,750,000.00 for five years and \$12,600,000.00 for ten years. The two and five-year estimate is the average annual maintenance and repair (5 x \$750,000) inclusive of the above noted propulsion machinery overhauls. The ten-year cost includes average annual maintenance and repair (10 x \$750,000) plus a major refit and extension of the vessel with a 20' mid-body (\$5,100,000.00 in 2024) required to accommodate projected population and commercial growth demands. The following factors and assumptions were considered in estimating the future fair market value of the "M/V Guemes":

- \$10,980,000.00 estimated replacement cost (2019)
- Use of Economic Useful Life (instead of remaining useful life)
- 5-year remaining Economic Useful life in present condition (Terminal date 2024)
- \$273,500.00 depreciation per annum until 2024
- \$750,000 cost to cure per annum pre-upgrade
- Upgrade with addition of mid-body extension in 2024
- \$5,100,000.00 cost of 2024 upgrade¹
 (Does not include cost of leased vessel for replacement service)
- \$4,700,000.00 FMV in 2024 after upgrade
- 15-year extended economic useful life from date of upgrade (2024) (Terminal date 2039)

¹ M/V Guemes, O.N. 601686: Ferry Replacement Plan, Elliott Bay Design Group, Reference No. 13039-001-043-3, Rev. B, 22 November 2013. Adjusted to 2019 Estimated Cost

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VALUATION (Cont)

- \$314,000 depreciation per annum after upgrade
- \$300,000 cost to cure per annum post upgrade
- \$40,000 Scrap Value
- Vessel to hold a valid USCG Certificate of Inspection

2-year Projection

The estimated costs/values of the M/V Guemes in two [2]-years (2021) is as follows:

| Fair Market Value | \$2,188,000.00 |
|------------------------------------|----------------|
| Cumulative Cost to Cure | \$1,500,000.00 |
| Difference of between cost and FMV | \$688,000.00 |

5-year Projection

The estimated costs/values of the M/V Guemes in five [5] years (2024) is as follows:

| Fair Market Value | \$1,367,500.00 |
|------------------------------------|------------------|
| Cumulative Cost to Cure | \$3,750,000.00 |
| Difference of between cost and FMV | (\$2,383,500.00) |

10-year Projection

The estimated costs/values of the M/V Guemes in ten [10] years (2029) is as follows:

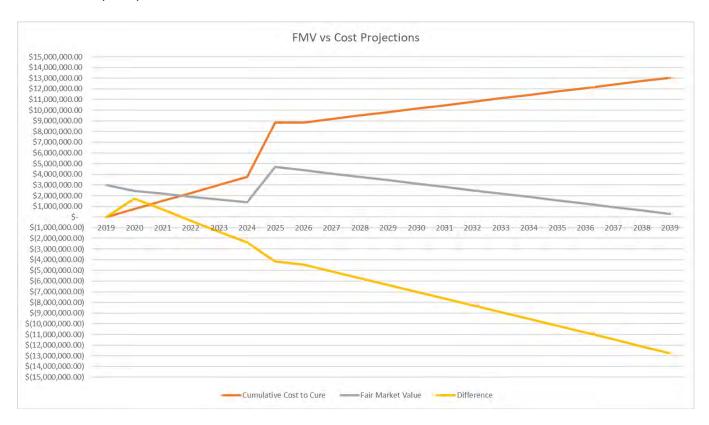
| Fair Market Value | \$3,444,000.00 |
|------------------------------------|------------------|
| Cumulative Cost to Cure | \$9,818,322.00 |
| Difference of between cost and FMV | \$(6,374,322.00) |

Note that the increase in FMV from 5-years to 10-years is due to the extensive renewal, betterments and upgrade during year 2024. The estimated \$5,100,000.00 cost to lengthen and refurbish the vessel creates a new depreciation schedule and revised cost to cure.

It should be noted that the above estimates are for costs and value of the physical assets with no adjustment for income/revenue to offset cost to cure. Income/revenue data was not available to the undersigned surveyor.

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VALUATION (Cont)



It should be noted the above graph captures the total projected costs and associated FMV with maintaining and extending the Guemes life to 2039 including the 2024 upgrade. In other words it is estimated that by the end of 2039 the owner would have spent a cumulative \$13,043,322 for maintenance and upgrades and own a vessel valued at \$304,000.

REFERENCES

- Guemes Island Ferry Replacement Project, Skagit County Public Works
- M/V Guemes, O.N. 601686: Ferry Replacement Plan, Elliott Bay Design Group, Reference No. 13039-001-043-3, Rev. B, 22 November 2013.
- Guemes 2019 Shipyard Contract Value, Skagit County Public Works
- Cummins Engine Repair/Overhaul Invoice No. 01-29583
- ZF Marine Propulsion Invoice No. RO-51382
- ZF Marine Propulsion Invoice No. RO-51381
- Plansk SKA-182-01 Rev A., Art Anderson Associates
- M/V Guemes Work Orders 2019, Foss Shipyard
- \$3603 MV Guemes Final Report, International Inspection (Gauging) March 2019
- 2017-CMS Guemes Condition and Value Survey
- 4086 CMS 2015 Condition and Value Survey

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REFERENCES (Cont)

• 77083-01-3 Rev A Deck Arrangements Plans, Nickum and Spaulding

- 15-01164 Guemes-Schedule
- 770083-0102 Rev A Inboard Profile and Hold Plan, Nickum and Spaulding
- 2019 Work Package Spec
- Operational Cost Estimate, 28-Car Electric Ferry, Glosten and Associates
- Foss Shipyard Invoice 92312612, April 27, 2017
- Foss Shipyard Invoice 92284334, March 23, 2017
- Foss Shipyard Invoice 92734671, October 30, 2018
- Foss Shipyard Invoice 91590714, September 24, 2014
- Foss Shipyard Invoice 92734671, October 30, 2018
- Lake Union Drydock Company Invoice 47813, December 28, 2015
- Dakota Creek Industries Invoice 30283, September 12, 2018

LIMITATIONS

I certify that, to the best of my knowledge and belief the statements of fact contained in this report are true and correct. The reported analyses, opinions, and conclusions are limited only by the reported assumptions and limiting conditions, and are my personal, unbiased professional analyses, opinions, and conclusions.

- 1. This survey is intended for the purpose of assessing condition and valuation only and is not intended to influence the purchase or non-purchase of the vessel. This survey is based on the facts presented and discovered, based on my opinion with no warranty either specified or implied. It is a statement of the condition of the vessel at the time of survey only. Any observations by the undersigned are strictly in the nature of opinion and should not be acted upon without verification
- 2. We have no present or prospective interest in the property that is the subject of this report and no personal interest with respect to the parties involved.
- 3. Our engagement in this assignment was not contingent upon delivering or reporting predetermined results.
- 4. We are currently unaware of ever having previously provided any professional services involving this marine asset within the last three years. While we attempt to follow owner and name changes, many are not recorded, or not recorded in a manner that provides reasonable transparency.

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LIMITATIONS (Cont)

5. The undersigned surveyor made a personal inspection of the property that is a subject of this report.

- 6. The undersigned surveyor conducted the Survey that is contained in this report.
- 7. Unless our representative indicates otherwise, the issuance of our condition and valuation survey report will be based upon:
 - external conditions observed by our representative without opening machinery or spaces normally closed and
 - b. upon information provided to him including documents and photos provided by subcontractors, regulatory agencies and owners.
 - Information supplied by others that was considered and utilized in constructing this
 report is from sources believed to be reliable and no further responsibility is
 assumed for its accuracy.
 - d. If our representative is provided misleading or erroneous information, our damage survey report shall be deemed withdrawn.
- 8. This examination has been made without making removals or opening parts normally concealed or testing for tightness or trying out machinery; only provided maintenance and other data has been recorded. Further, no determination of intact or damaged stability or inherent structural integrity has been made.
- 9. Equipment descriptions are included in the report for purposes of identification and classification. Descriptions are intended for informational purposes only but are not intended to detail all conditions or list all features associated with each item described.
- 10. The subject vessel was examined by the undersigned and the conditions of the underwater hull and appurtenances are known in the context of this survey. Further, the internal sections of the vessel tanks were examined during the subject survey and the specific condition is known in the context of this survey.
- 11. The values given in this appraisal are for the stated valuation dates only, and only for the stated purpose.
- 12. The vessel was appraised under the assumption that there was responsible ownership and management, competent crewing, and ongoing maintenance.

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LIMITATIONS (Cont)

13. The vessel was appraised on the premise that it was free and clear of all encumbrances, mortgage debt, and special liens.

14. Value is considered to be in cash. Contracts or charters, if any, are not considered in reaching the value.

As far as may be ascertained from a general examination of this vessel in dry-dock at Foss Shipyard on March 4, 2019 and subsequent dates the vessel was found to be capable of being used for its intended purpose.

The document is not a certificate of seaworthiness but a statement of opinion given WITHOUT PREJUDICE, that with the recommendation contained in the survey and submitted to owners being complied with, and the voyage and/or transportation contemplated represents no specific hazards beyond such as are normally accepted by the Underwriters.

Survey made without prejudice.

ATTENDING

Bob Martin Chief Engineer, M/V Guemes

Captain Rachel Rowe Ferry Operations Division Manager, Skagit County Public Works

Captain Jeff Slesinger Marine Surveyor, Delphi Maritime, LLC

PDF-Certified Digital Signature) Signed: July 31, 2019

Jeff Slesinger, Surveyor SAMS® Surveyor Associate

Delphi Maritime, LLC

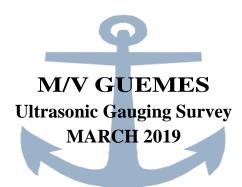
Attachments:

Gauging Report

Photographs



Specialists in Nondestructive Examination



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Ultrasonic thickness measurements were obtained for Art Anderson and Associates on the vessel M/V GUEMES on February 28^{th} , 2019 through March 2^{nd} , 2019 and on March 12^{th} , 2019 at the Foss Ship Yard in Seattle, Washington. The owners were represented by Mr. Connor Shannon and Mrs. Rachel Rowe. The survey was conducted by International Inspection personnel.

EXTENT OF SURVEY

The following items were ultrasonically gauged:

- Main Deck Plating.
- No.1 End Voids:
 - o Void 1 Internals.
 - o Void 2 Internals.
 - o Void 3 Internals.
 - o Void 4 Internals:
 - o No.1 End Ballast Water Tank Internals.
- No.2 End Voids:
 - No.2 End Ballast Water Tank Internals.
 - Void 5 Internals.
 - Void 6 Internals.
 - o Void 7 Internals.
 - Void 8 Internals.
- Side & Bottom Shell Plating.

RESULTS OF SURVEY

The results are shown within the following report.

Respectfully submitted,

INTERNATIONAL INSPECTION, Inc.

Gabe Graham

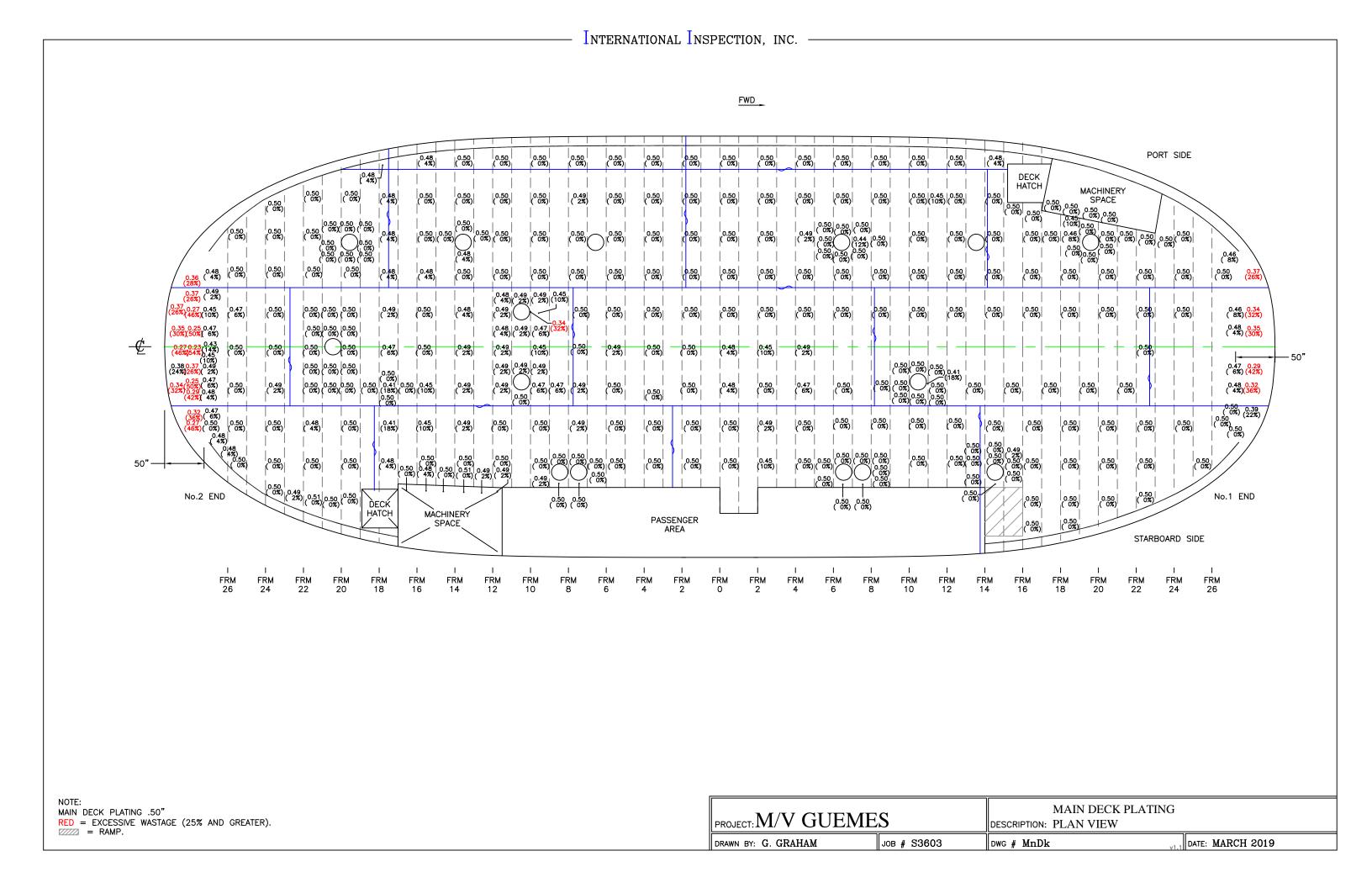
5. Ali Mh

Senior Field Supervisor

S3603

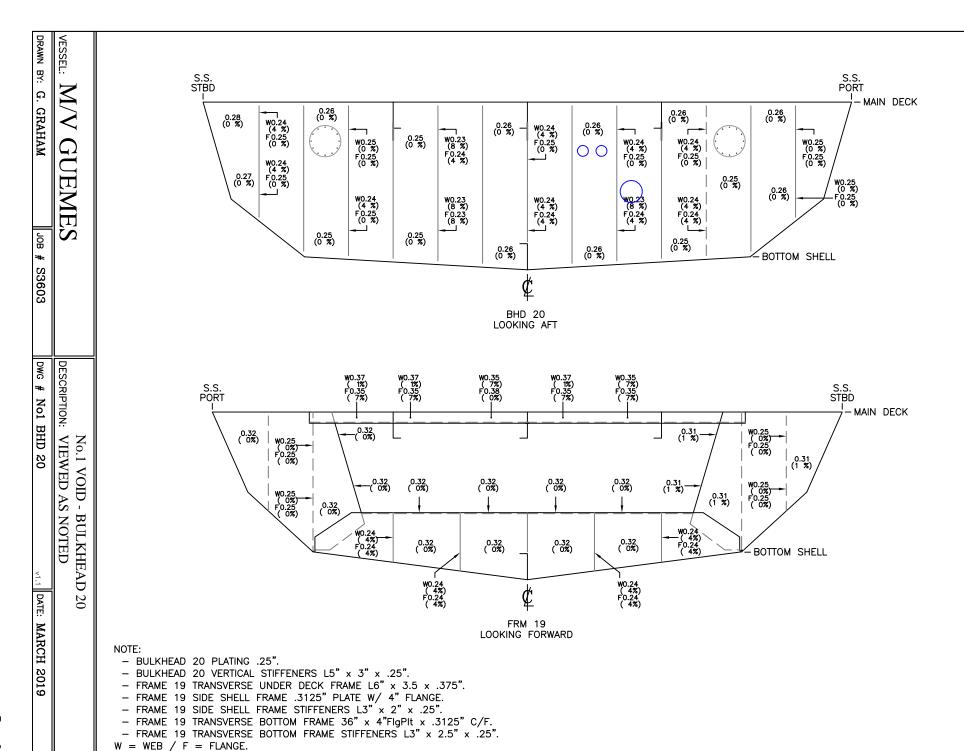


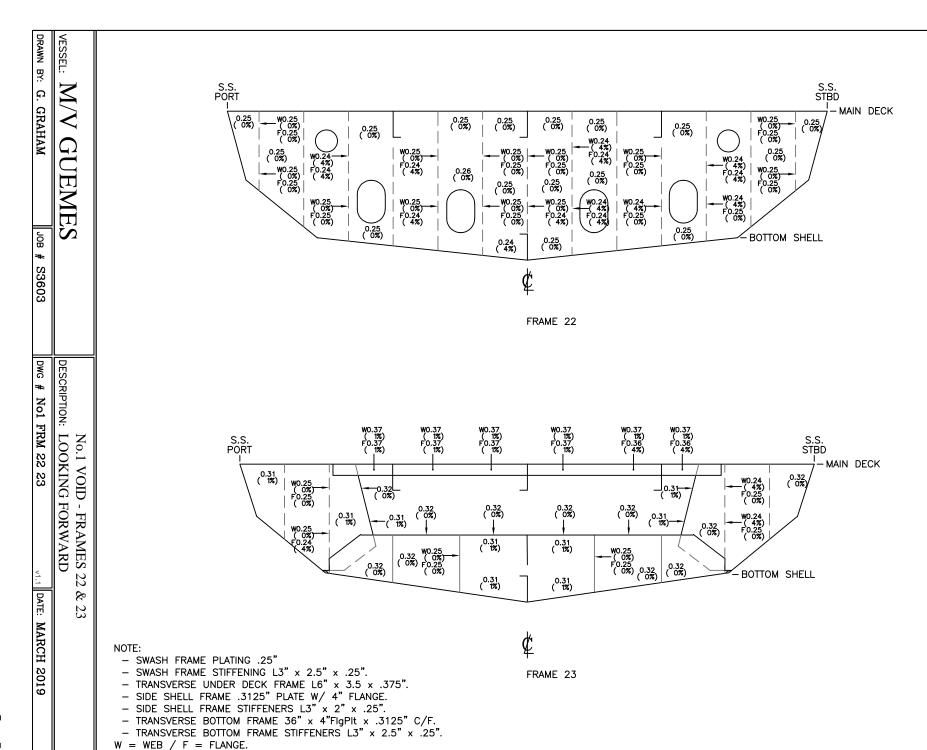
MAIN DECK PLATING

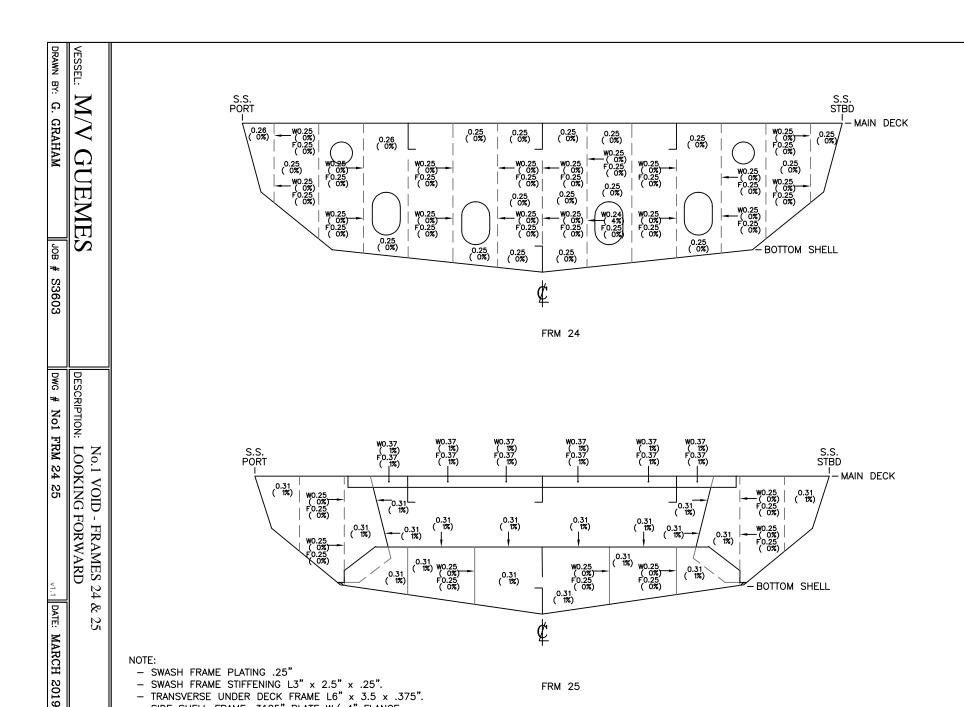




No.1 VOID INTERNALS







FRM 25

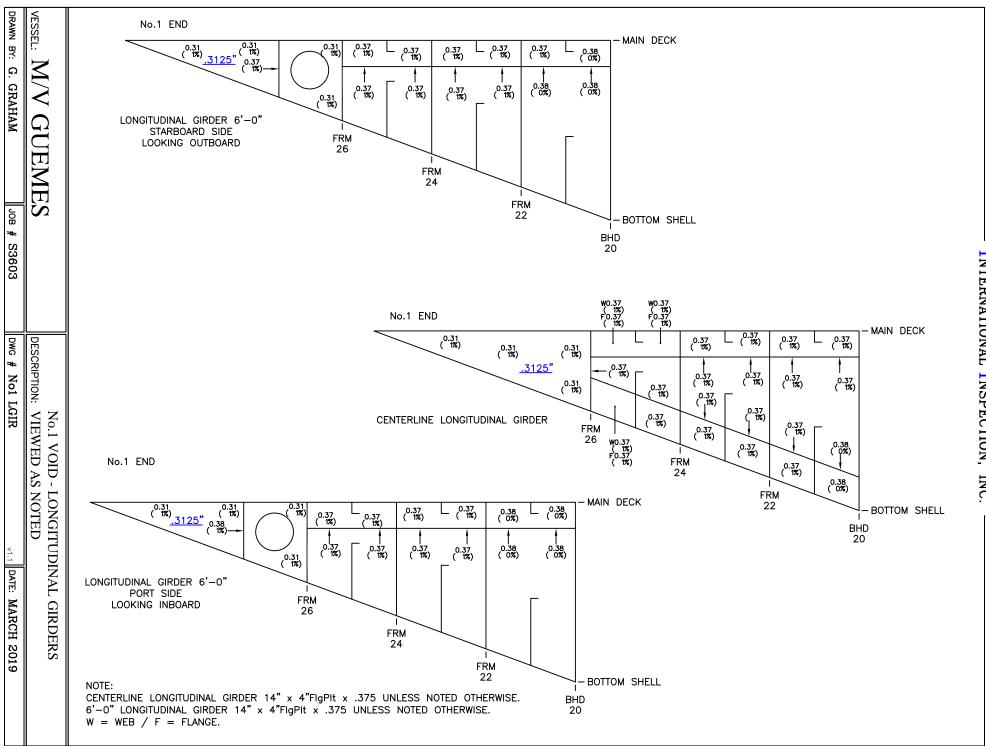
NOTE:

25

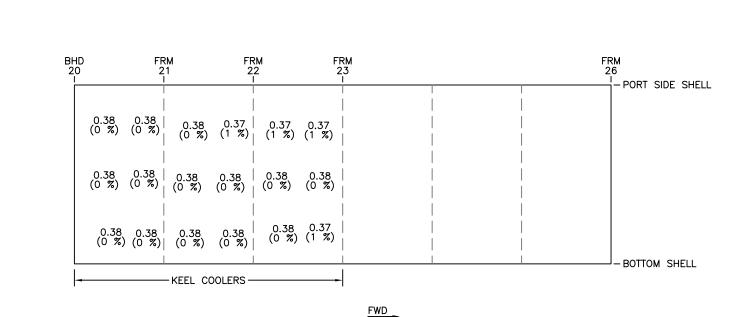
- SWASH FRAME PLATING .25"
- SWASH FRAME STIFFENING L3" x 2.5" x .25".
- TRANSVERSE UNDER DECK FRAME L6" x 3.5 x .375".
- SIDE SHELL FRAME .3125" PLATE W/ 4" FLANGE.
- SIDE SHELL FRAME STIFFENERS L3" x 2" x .25".
- TRANSVERSE BOTTOM FRAME 36" x 4"FIgPIt x .3125" C/F.
- TRANSVERSE BOTTOM FRAME STIFFENERS L3" x 2.5" x .25".

W = WEB / F = FLANGE.

NOTE: FRAME 26 PLATING .25". FRAME 26 STIFFENING .25". W = WEB / F = FLANGE.



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VESSEL: J

N/M

GUEMES

No.1 VOID - PLATING IWO KEEL COOLERS DESCRIPTION: PORT SIDE - PLAN VIEW

G. GRAHAM

JOB #

S3603

DWG # No2 VOID BTM PLT

V1.1 DATE: MARCH 2019

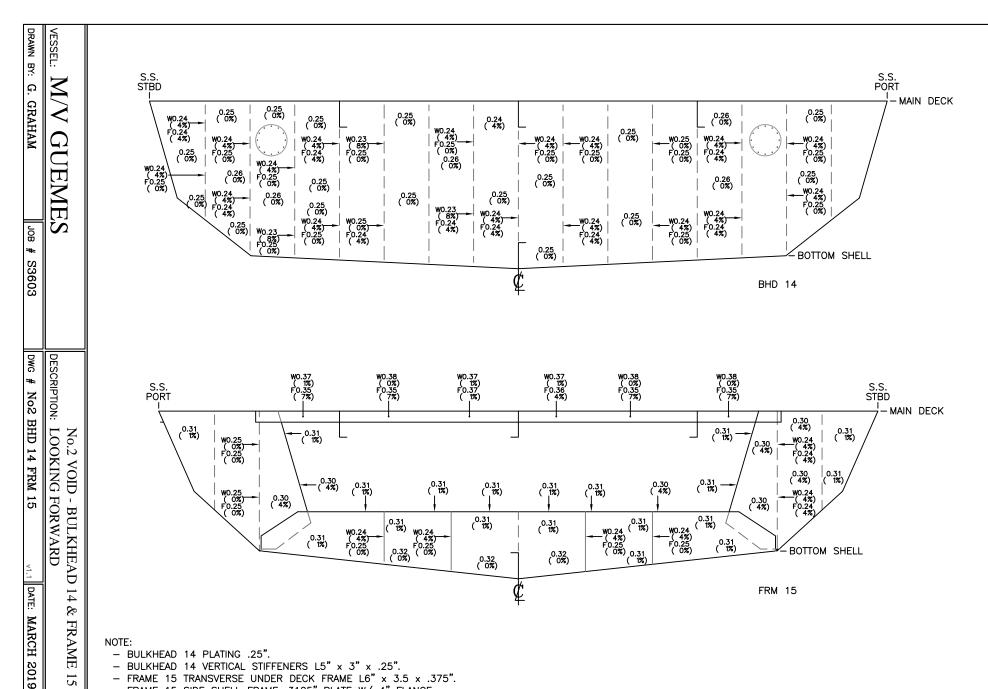
NO ORIGINAL SCANTLINGS AVAILABLE AT TIME OF SURVEY. NOMINAL THICKNESS MEASUREMENTS OBTAINED TO DETERMINE PERCENT WASTAGE.

NOMINAL THICKNESS USED:

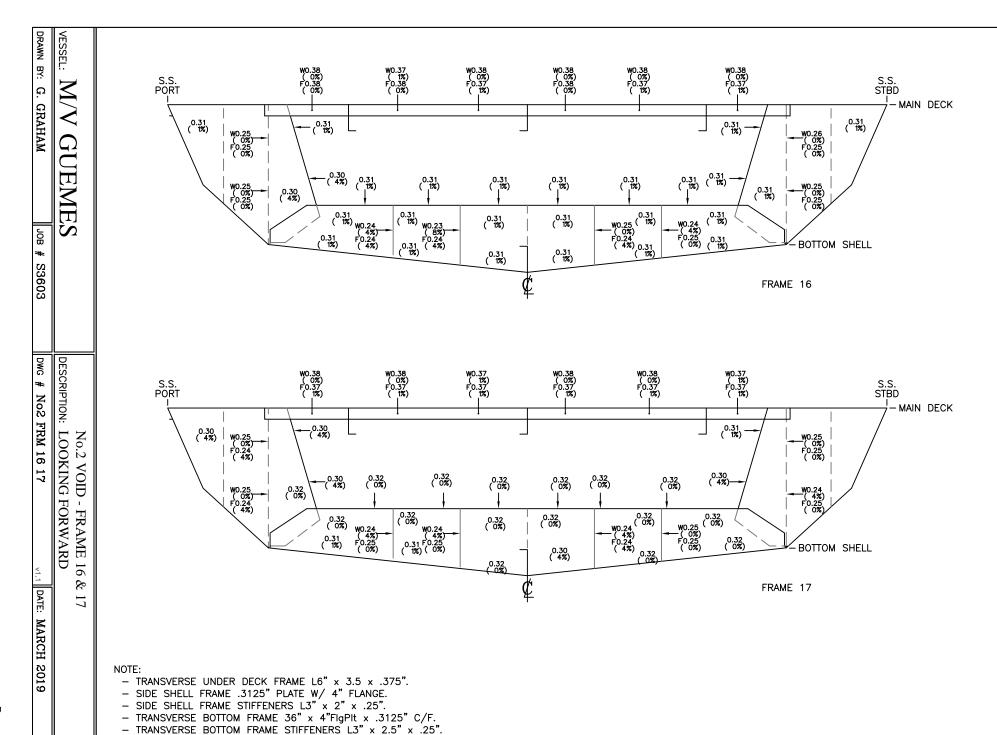
- TURN OF BILGE PLATING .375"



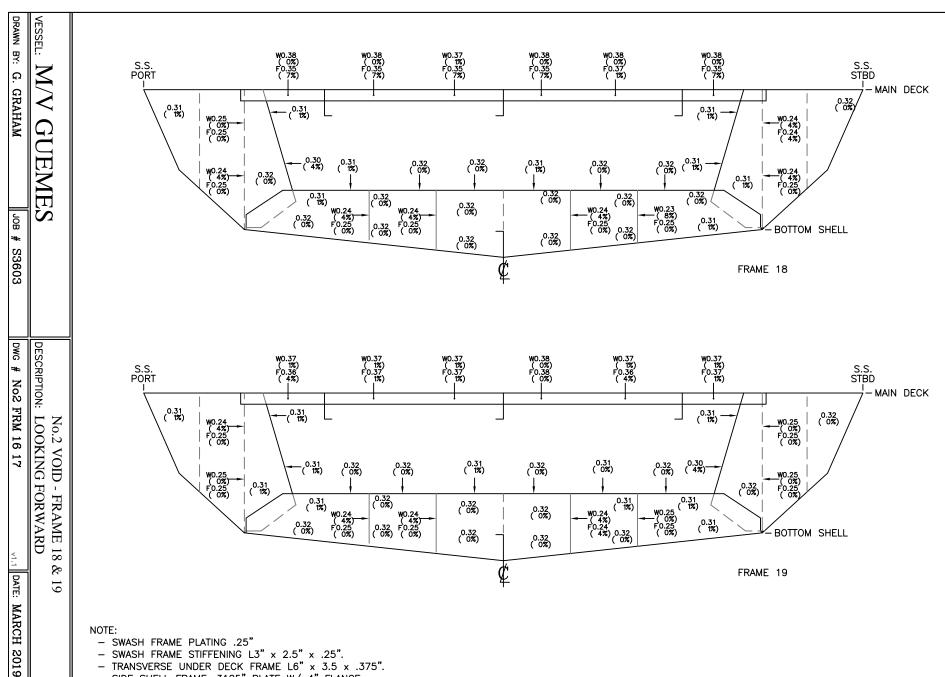
No.2 VOID INTERNALS



- BULKHEAD 14 PLATING .25".
- BULKHEAD 14 VERTICAL STIFFENERS L5" x 3" x .25".
- FRAME 15 TRANSVERSE UNDER DECK FRAME L6" x 3.5 x .375".
- FRAME 15 SIDE SHELL FRAME .3125" PLATE W/ 4" FLANGE.
- FRAME 15 SIDE SHELL FRAME STIFFENERS L3" x 2" x .25".
- FRAME 15 TRANSVERSE BOTTOM FRAME 36" x 4"FigPit x .3125" C/F.
- FRAME 15 TRANSVERSE BOTTOM FRAME STIFFENERS L3" x 2.5" x .25".
- W = WEB / F = FLANGE.

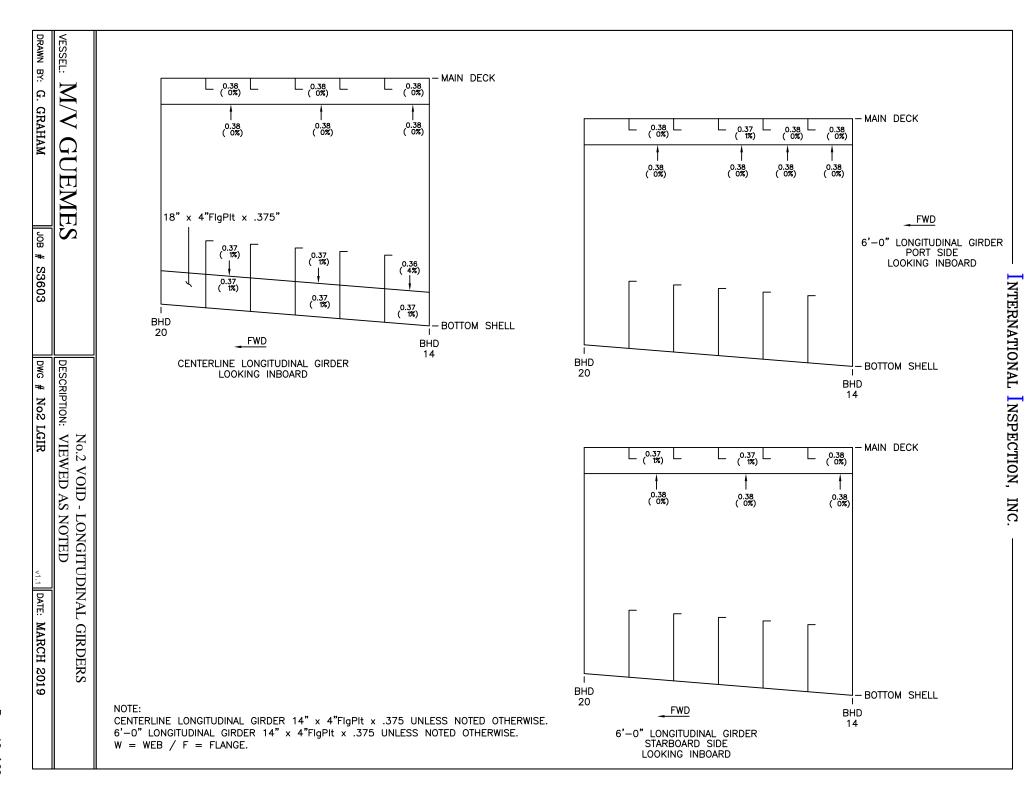


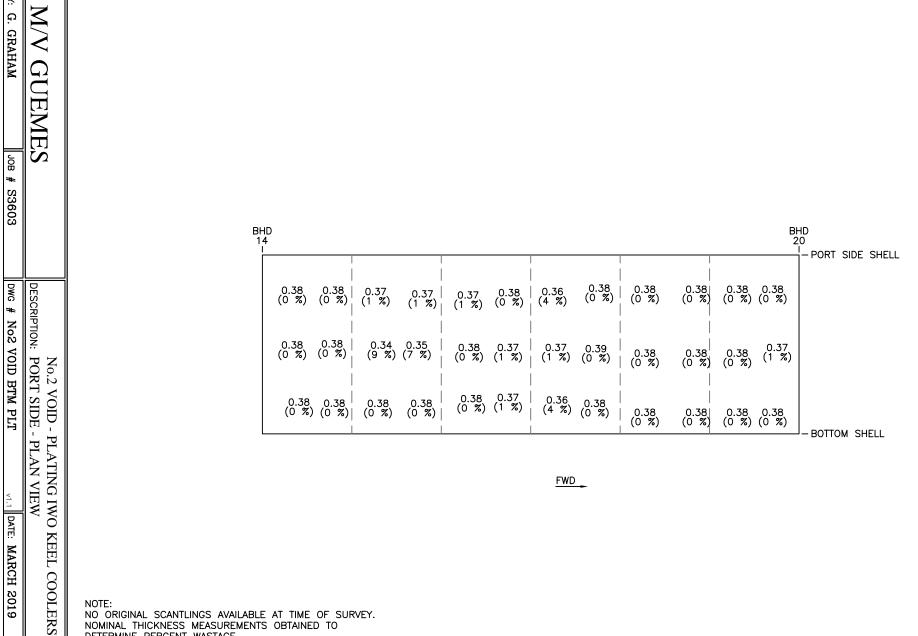
W = WEB / F = FLANGE.



- SWASH FRAME PLATING .25"
- SWASH FRAME STIFFENING L3" x 2.5" x .25".
- TRANSVERSE UNDER DECK FRAME L6" x 3.5 x .375".
- SIDE SHELL FRAME .3125" PLATE W/ 4" FLANGE.
- SIDE SHELL FRAME STIFFENERS L3" x 2" x .25".
- TRANSVERSE BOTTOM FRAME 36" x 4"FlgPlt x .3125" C/F.
- TRANSVERSE BOTTOM FRAME STIFFENERS L3" x 2.5" x .25".

W = WEB / F = FLANGE.





FWD _

NOTE: NO ORIGINAL SCANTLINGS AVAILABLE AT TIME OF SURVEY. NOMINAL THICKNESS MEASUREMENTS OBTAINED TO DETERMINE PERCENT WASTAGE.

NOMINAL THICKNESS USED:

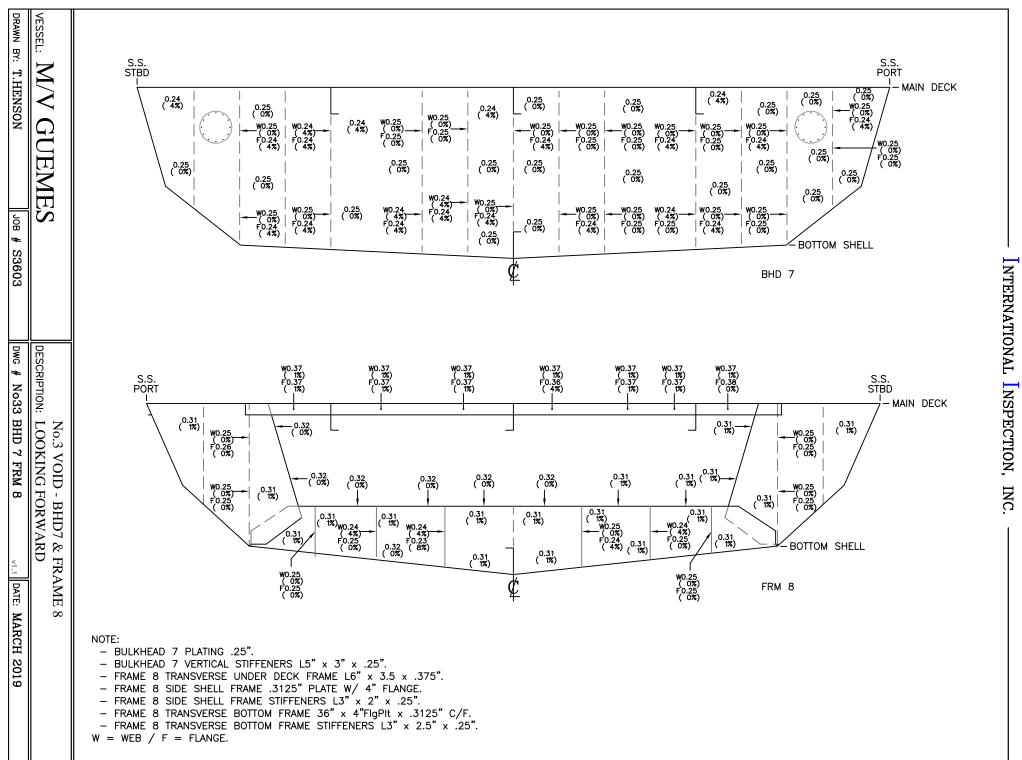
- TURN OF BILGE PLATING .375"

V1.1 DATE: MARCH 2019

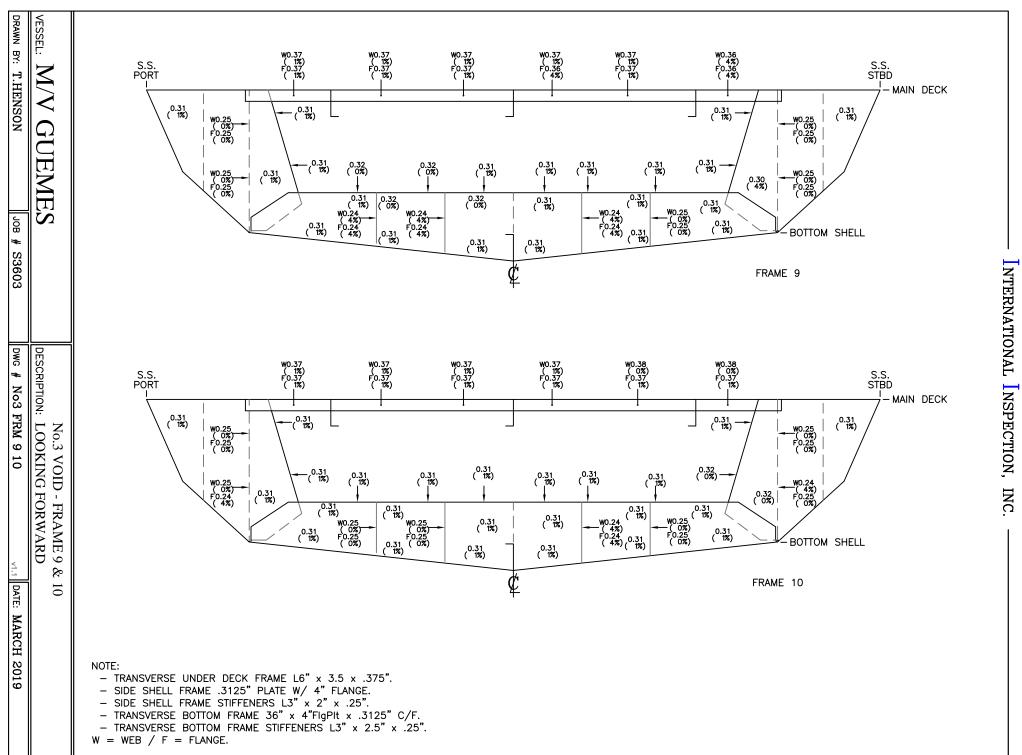
VESSEL: DRAWN BY:



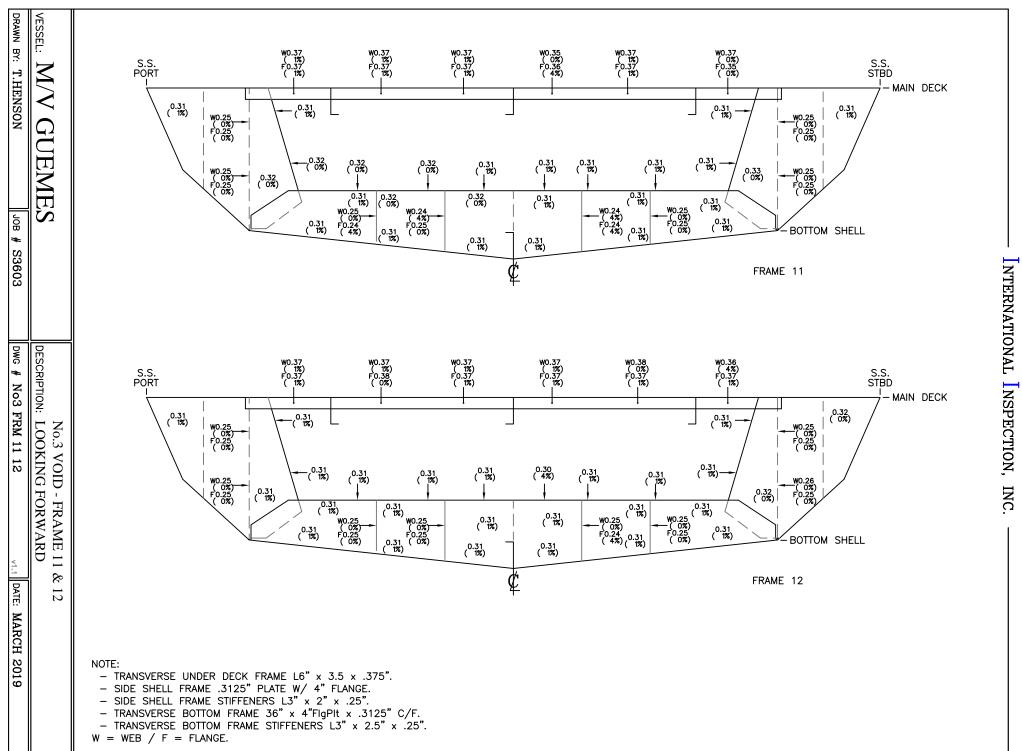
No.3 VOID INTERNALS



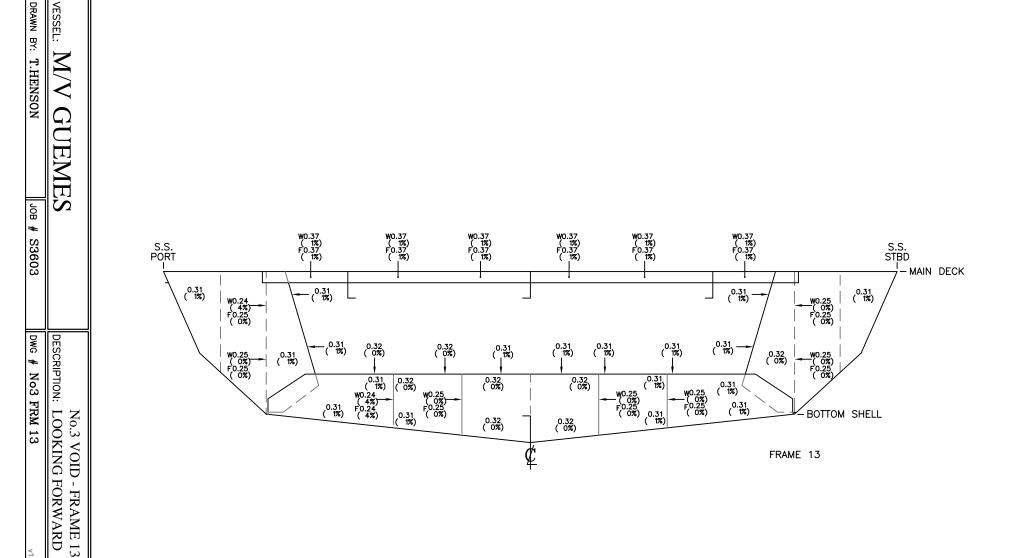
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- TRANSVERSE UNDER DECK FRAME L6" \times 3.5 \times .375". SIDE SHELL FRAME .3125" PLATE W/ 4" FLANGE.

- SIDE SHELL FRAME STIFFENERS L3" x 2" x .25".

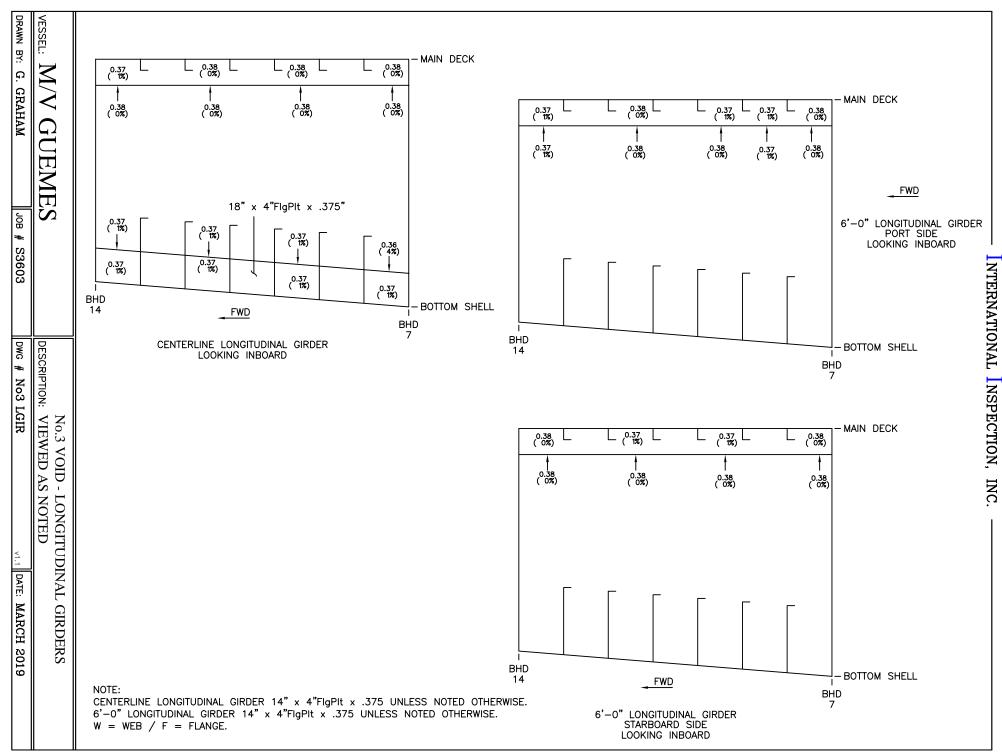
 TRANSVERSE BOTTOM FRAME 36" x 4"FIgPIt x .3125" C/F.

 TRANSVERSE BOTTOM FRAME STIFFENERS L3" x 2.5" x .25".

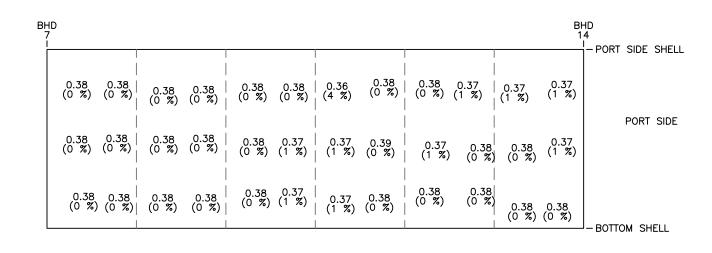
W = WEB / F = FLANGE.

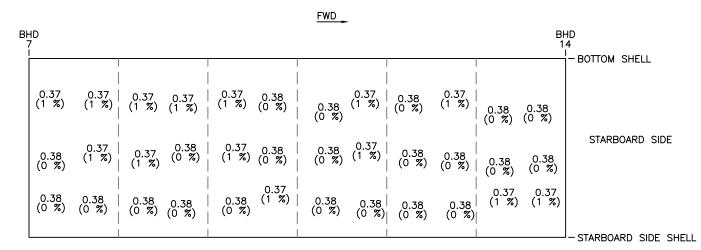
DATE: MARCH 2019

VESSEL:



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VESSEL: DRAWN BY:

M/M

GU

EME

G. GRAHAM

BOP

S3603

DWG

No3 VOID BTM PLT

DATE: MARCH 2019

DESCRIPTION:

No.3 VOID -PLAN VIEW

PLATING IWO KEEL COOLERS

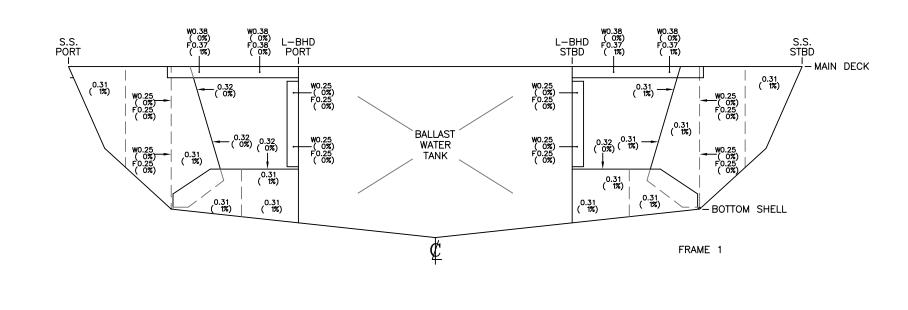
NO ORIGINAL SCANTLINGS AVAILABLE AT TIME OF SURVEY.
NOMINAL THICKNESS MEASUREMENTS OBTAINED TO
DETERMINE PERCENT WASTAGE.

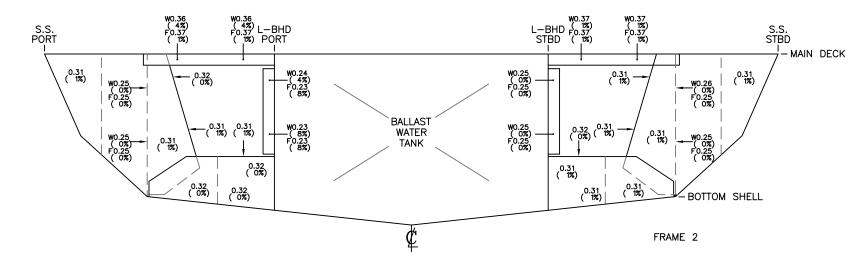
NOMINAL THICKNESS USED:

- TURN OF BILGE PLATING .375"



No.4 VOID INTERNALS





- TRANSVERSE UNDER DECK FRAME L6" x 3.5 x .375".
- LONGITUDINAL BULKHEAD STIFFENERS L5" x 3" x .25".
- SIDE SHELL FRAME .3125" PLATE W/ 4" FLANGE.
- SIDE SHELL FRAME STIFFENERS L3" x 2" x .25".
- TRANSVERSE BOTTOM FRAME 36" x 4"FigPit x .3125" C/F.

W = WEB / F = FLANGE.

DATE: MARCH 2019

VESSEL: DRAWN BY:

T.HENSON

JOB # S3603

DWG # No4 FRM 1 2

DESCRIPTION:

No.4 VOID - FRAME 1 & LOOKING FORWARD

1

GUEMES

S.S. PORT

S.S. PORT

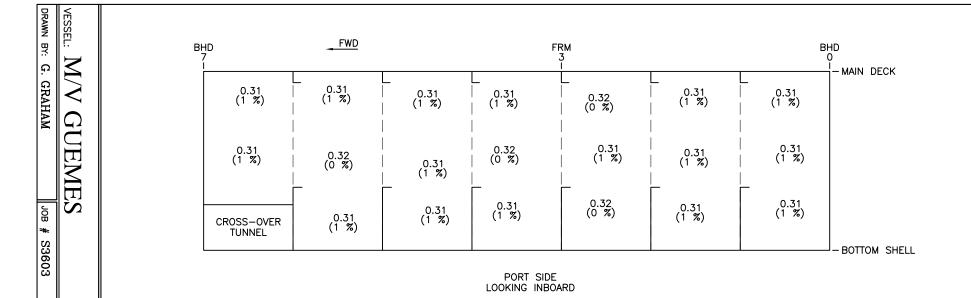
NOTE:

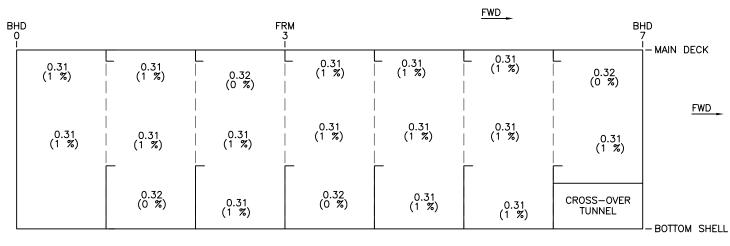
0.31 (1%)

0.31 (1%)

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STARBOARD SIDE LOOKING INBOARD

NOTE: 6'-0" LONGITUDINAL BULKHEAD PLATING .3125"

DWG

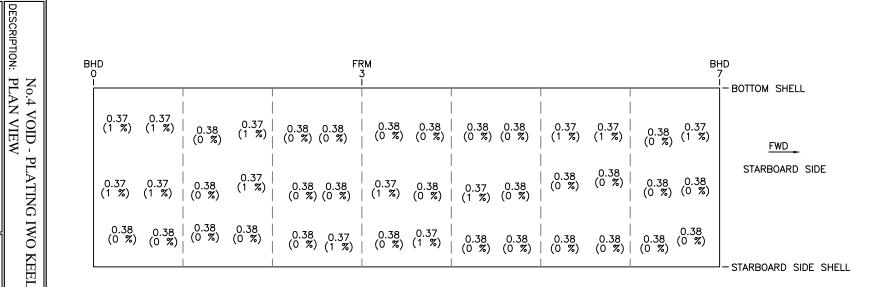
No4 VOID LBHD

DATE: MARCH 2019

DESCRIPTION: LOOKING INBOARD

No.4 VOID - 6'-0" LONGITUDINAL BULKHEAD

| 1 | | FRM 3 I | | BHD 7 |
|--------------------------|---|--|--|-------------------------------------|
| 0.38 | 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 | 38 0.38 0.38 0.37 %) (0 %) (0 %) (1 %) | 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 | 0.37 |
| 0.38 0.38 (0 %) (0 %) | | 38 0.38 0.38 0.38 %% (0 %) (0 %) (0 %) | 0.38 0.37 0.37 0.38 | PORT SIDE 3 0.38 0.37 3 (0 %) (1 %) |
| 0.38 0.38 (0 %) (0 %) | 0.38 (0 %) 0.38 0.3 (0 %) (0 | 38 0.38 0.37 0.38 %) (0 %) (1 %) (0 %) | 0.37 0.38 0.38 0.38 (1 %) (0 %) (0 %) (0 % | 0.38 0.37 0.8 (1 %) 0.5 (1 %) |



VESSEL: DRAWN BY:

M/M

GUEMES

G. GRAHAM

JOB #

S3603

DWG # No4 VOID BTM PLT

DATE: MARCH 2019

PLATING IWO KEEL COOLERS

NO ORIGINAL SCANTLINGS AVAILABLE AT TIME OF SURVEY. NOMINAL THICKNESS MEASUREMENTS OBTAINED TO DETERMINE PERCENT WASTAGE.

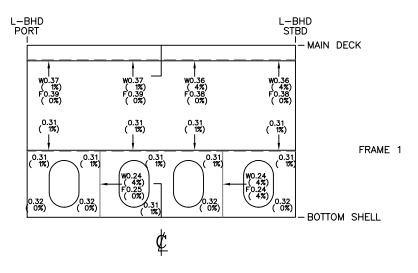
NOMINAL THICKNESS USED:

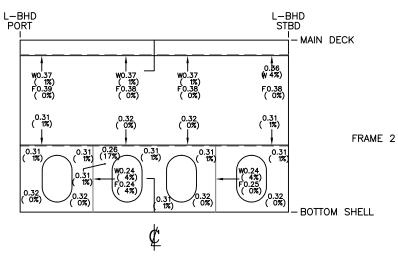
- TURN OF BILGE PLATING .375"

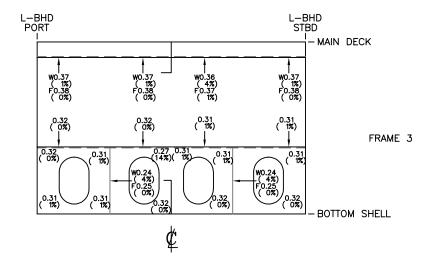


No.1 END BALLAST WATER TANK INTERNALS

INTERNATIONAL INSPECTION, INC.





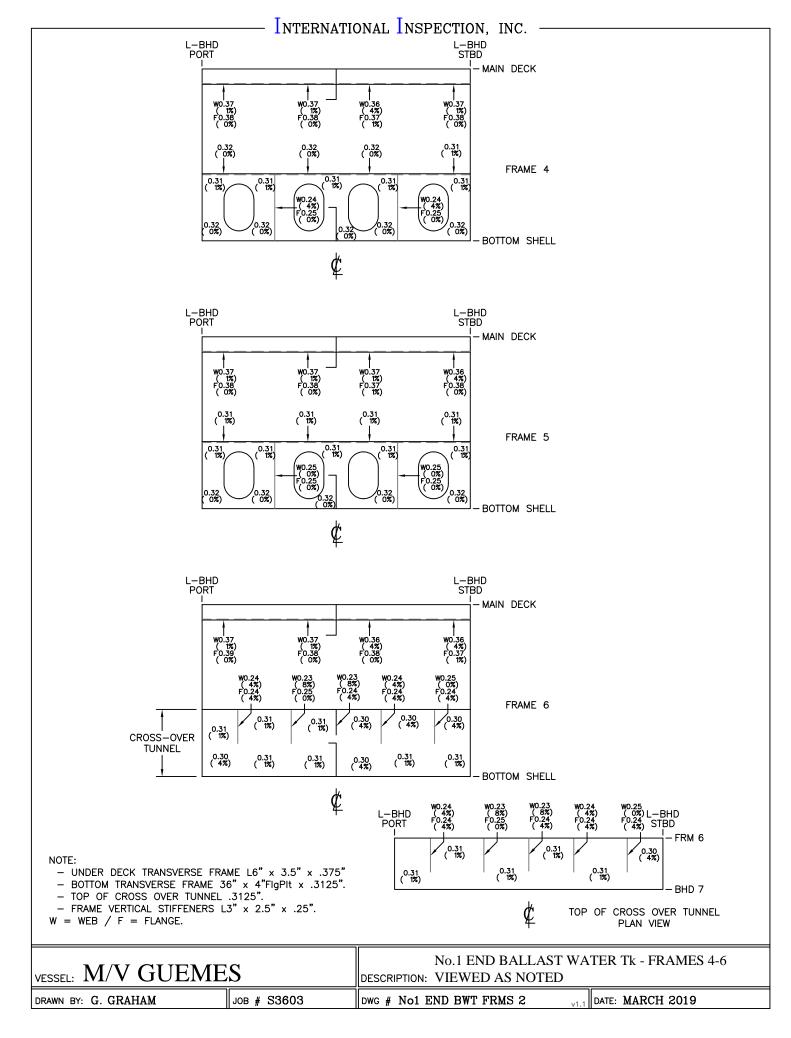


NOTE:

- UNDER DECK TRANSVERSE FRAME L6" x 3.5" x .375"
- BOTTOM TRANSVERSE FRAME 36" x 4"FIgPIt x .3125".
 FRAME VERTICAL STIFFENERS L3" x 2.5" x .25".

W = WEB / F = FLANGE.

| VESSEL: M/V GUEMES | | No.1 END BALLAST WATER Tk - FRAMES 1-3 DESCRIPTION: LOOKING FORWARD | |
|---------------------|-------------|---|-----------------------|
| DRAWN BY: G. GRAHAM | Joв # S3603 | DWG # No1 END BWT FRMS 1 | V1.1 DATE: MARCH 2019 |



INTERNATIONAL INSPECTION, INC. FWD BḤD FRM 5 I FRM 3 1 BHD 0 I MAIN DECK 0.37 0.37 (1%) 0.37 (1%) 0.37 (1%) 0.38 0.38 (0%) 0.37 (1%) 0.38 (0%) 0.37 (1%) CROSS-OVER TUNNEL 0.37 (1%) 0.37 (1%) 0.37 (1%)

BOTTOM SHELL

NOTE:

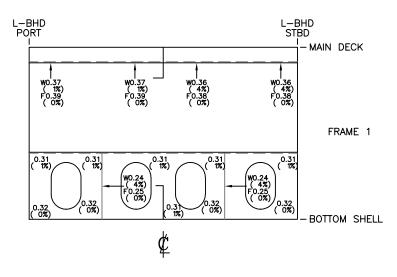
- UNDER DECK LONGITUDINAL GIRDER 14" x 4"FigPit x .375" - BOTTOM LONGITUDINAL GIRDER 18" x 4"FigPit x .375". W = WEB / F = FLANGE.

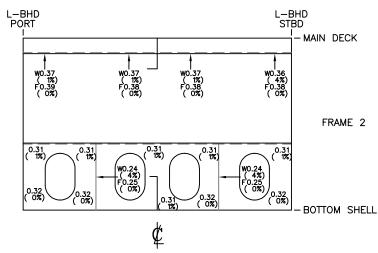
| VESSEL: M/V GUEMES | | No.1 END BALLAST WATER Tk - LONG'L GIRDER DESCRIPTION: LOOKING INBOARD | |
|---------------------|-------------|--|-----------------------|
| DRAWN BY: G. GRAHAM | JOB # S3603 | DWG # No1 END BWT LGIR | v1.1 DATE: MARCH 2019 |

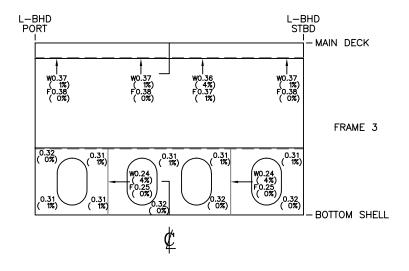


No.2 END BALLAST WATER TANK INTERNALS

INTERNATIONAL INSPECTION, INC.





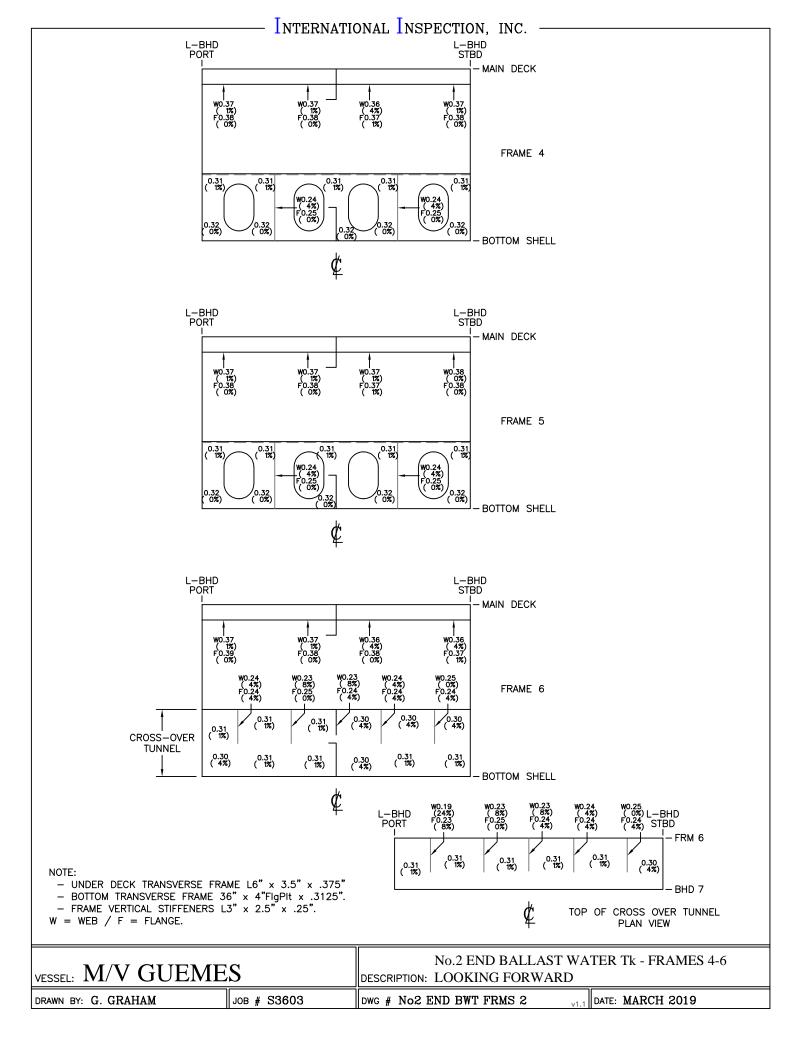


NOTE:

- UNDER DECK TRANSVERSE FRAME L6" x 3.5" x .375"
- BOTTOM TRANSVERSE FRAME 36" x 4"FIgPIt x .3125".
 FRAME VERTICAL STIFFENERS L3" x 2.5" x .25".

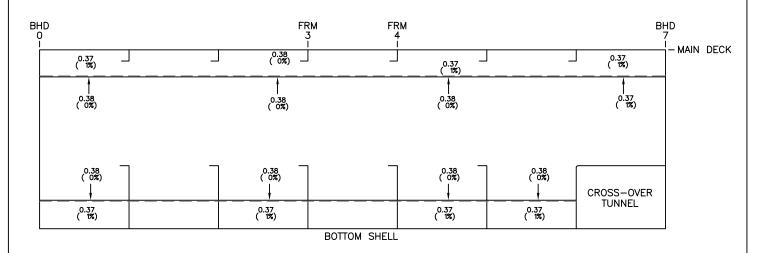
W = WEB / F = FLANGE.

| VESSEL: M/V GUEMES | | No.2 END BALLAST WATER Tk - FRAMES 1-3 DESCRIPTION: LOOKING FORWARD | |
|---------------------|-------------|---|----------------------------------|
| DRAWN BY: G. GRAHAM | JOB # S3603 | DWG # No2 END BWT FRMS 1 | _{v1.1} DATE: MARCH 2019 |



INTERNATIONAL INSPECTION, INC.

FWD



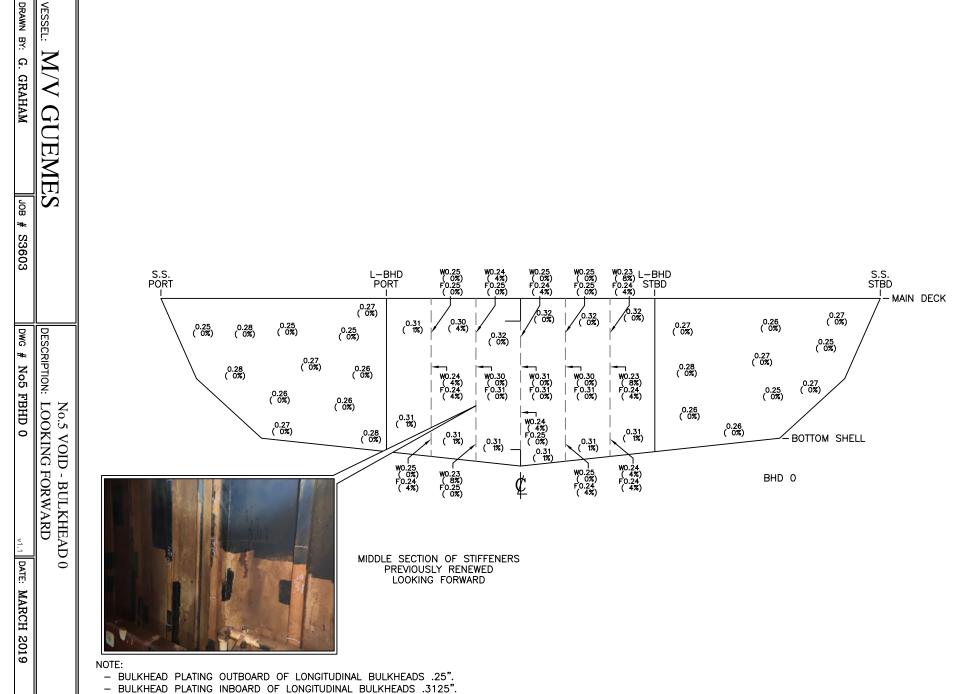
NOTE:

– UNDER DECK LONGITUDINAL GIRDER 14" x 4"FigPit x .375" – BOTTOM LONGITUDINAL GIRDER 18" x 4"FigPit x .375". W = WEB / F = FLANGE.

| VESSEL: M/V GUEMES | | No.2 END BALLAST WATER Tk - LONG'L GIRDER DESCRIPTION: LOOKING INBOARD | | | | |
|---------------------|-------------|--|-----------------------|--|--|--|
| DRAWN BY: G. GRAHAM | JOB # S3603 | DWG # No2 END BWT LGIR | v1.1 DATE: MARCH 2019 | | | |

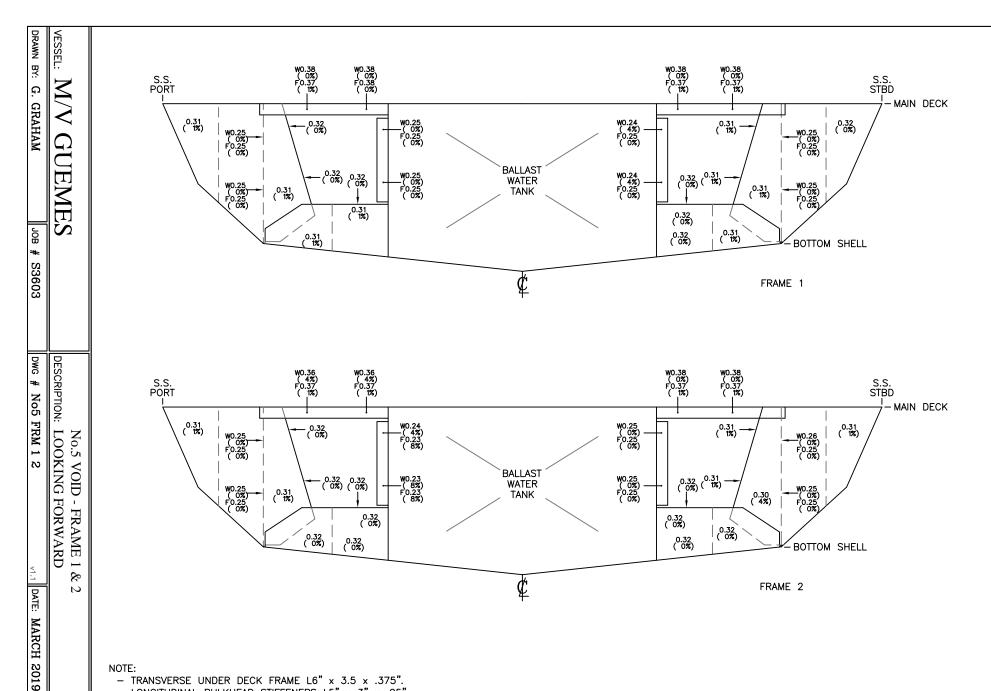


No.5 VOID INTERNALS



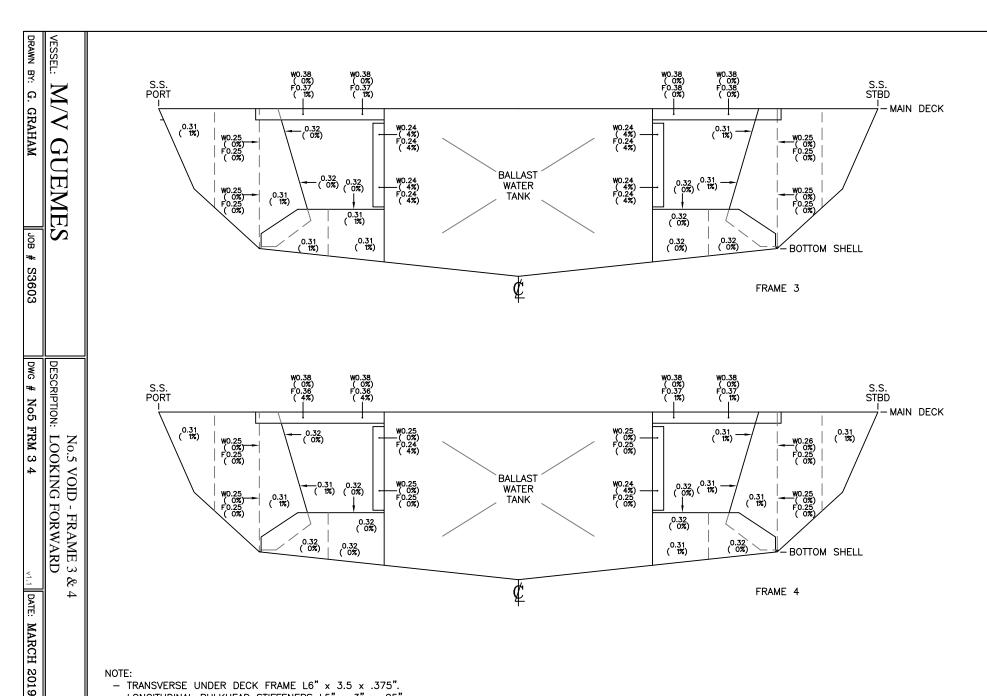
- VERTICAL STIFFENERS L5" x 3" x .25".

W = WEB / F = FLANGE.



- TRANSVERSE UNDER DECK FRAME L6" x 3.5 x .375".
- LONGITUDINAL BULKHEAD STIFFENERS L5" x 3" x .25".
- SIDE SHELL FRAME .3125" PLATE W/ 4" FLANGE.
- SIDE SHELL FRAME STIFFENERS L3" x 2" x .25".
 TRANSVERSE BOTTOM FRAME 36" x 4"FIgPIt x .3125" C/F.

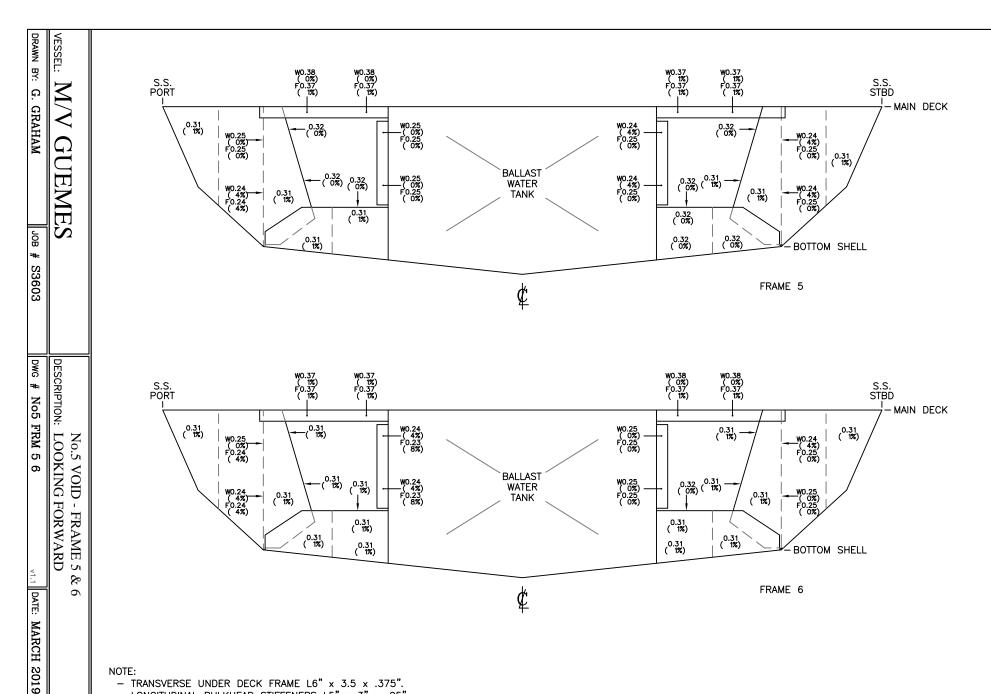
W = WEB / F = FLANGE.



W = WEB / F = FLANGE.

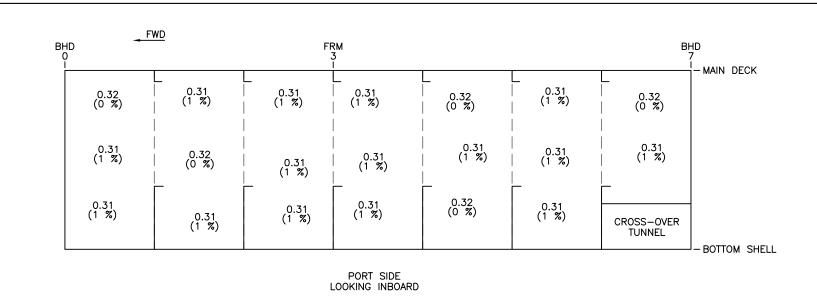
- TRANSVERSE UNDER DECK FRAME L6" \times 3.5 \times .375". - LONGITUDINAL BULKHEAD STIFFENERS L5" x 3" x .25". - SIDE SHELL FRAME .3125" PLATE W/ 4" FLANGE.

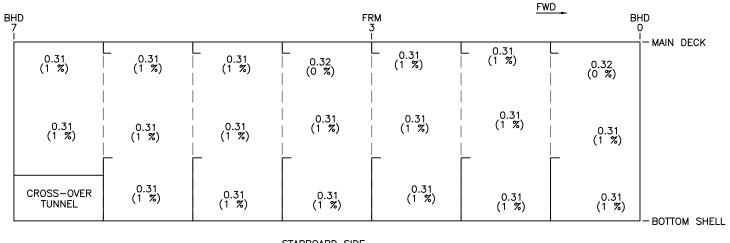
SIDE SHELL FRAME STIFFENERS L3" x 2" x .25".
 TRANSVERSE BOTTOM FRAME 36" x 4"FIgPIt x .3125" C/F.



- TRANSVERSE UNDER DECK FRAME L6" x 3.5 x .375".
- LONGITUDINAL BULKHEAD STIFFENERS L5" x 3" x .25".
- SIDE SHELL FRAME .3125" PLATE W/ 4" FLANGE.
- SIDE SHELL FRAME STIFFENERS L3" x 2" x .25".
 TRANSVERSE BOTTOM FRAME 36" x 4"FIgPIt x .3125" C/F.

W = WEB / F = FLANGE.





STARBOARD SIDE LOOKING INBOARD

6'-0" LONGITUDINAL BULKHEAD PLATING .3125"

VESSEL: DRAWN BY:

M/M

GUEMES

G. GRAHAM

JOB#

S3603

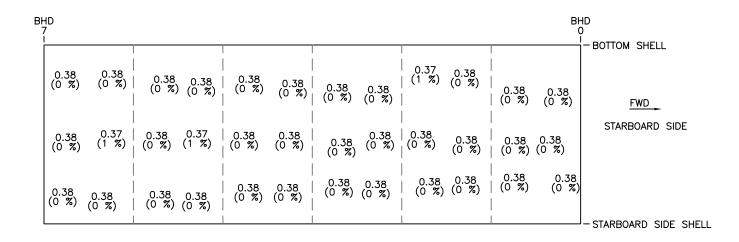
DWG # No5 LBHD

No.5 VOID - DESCRIPTION: PLAN VIEW

6'-0" LONGITUDINAL BULKHEAD

DATE: MARCH 2019

| HD 7 | | | | | | | Bl | HD O |
|---------------|---------------|--------------------------|----------------------|--------------------------|----------------------------------|---------------|---------------|-------------------------|
| 1 | | | | | | | | PORT SIDE SHELL |
| 0.38 (0 %) | 0.38 (0 %) | 0.38 0.38 (0 %) (0 %) | 0.38 | 0.38 0.38 (0 %) (0 %) | 0.38 0.38 (0 %) (0 %) | 0.38 (0 %) | 0.38 (0 %) | <u>FWD</u> PORT SIDE |
| 0.38 (0 %) | 0.38 (0 %) | 0.38 0.38 (0 %) (0 %) | 0.38 0.38 | 0.38 0.37 (0 %) (1 %) | 0.38 0.38 (0 %) | 0.37 | 0.38 (0 %) | |
| 0.38 (0 %) | 0.38 (0 %) | 0.38 0.38 (0 %) | 0.38 0.38 0.38 (0 %) | 0.38 0.38 (0 %) (0 %) | 0.38 0.38 0.38 (0 %) | 0.38 | 0.38 (0 %) | |
| | | | <u>l</u> | | L | | | - BOTTOM SHELL |



NOTE: NO ORIGINAL SCANTLINGS AVAILABLE AT TIME OF SURVEY. NOMINAL THICKNESS MEASUREMENTS OBTAINED TO DETERMINE PERCENT WASTAGE.

NOMINAL THICKNESS USED:
- TURN OF BILGE PLATING .375"

VESSEL: J

M/M

GUEMES

G. GRAHAM

JOB#

S3603

DESCRIPTION: PLAN VIEW
DWG # No5 VOID BTM PLT

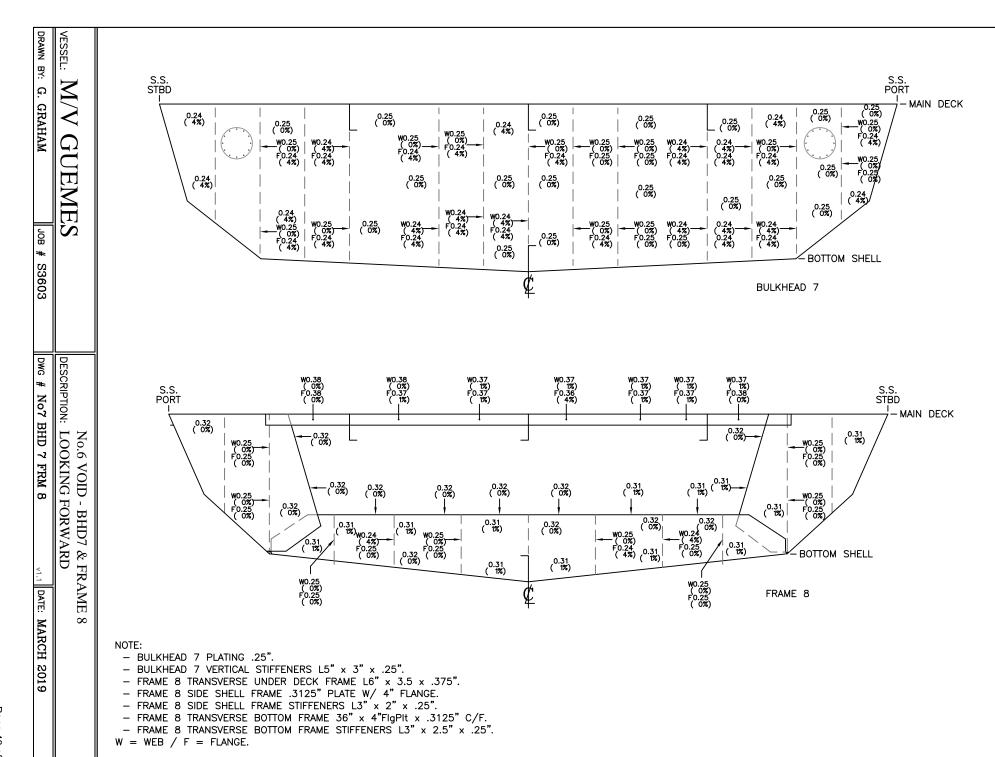
DATE: MARCH 2019

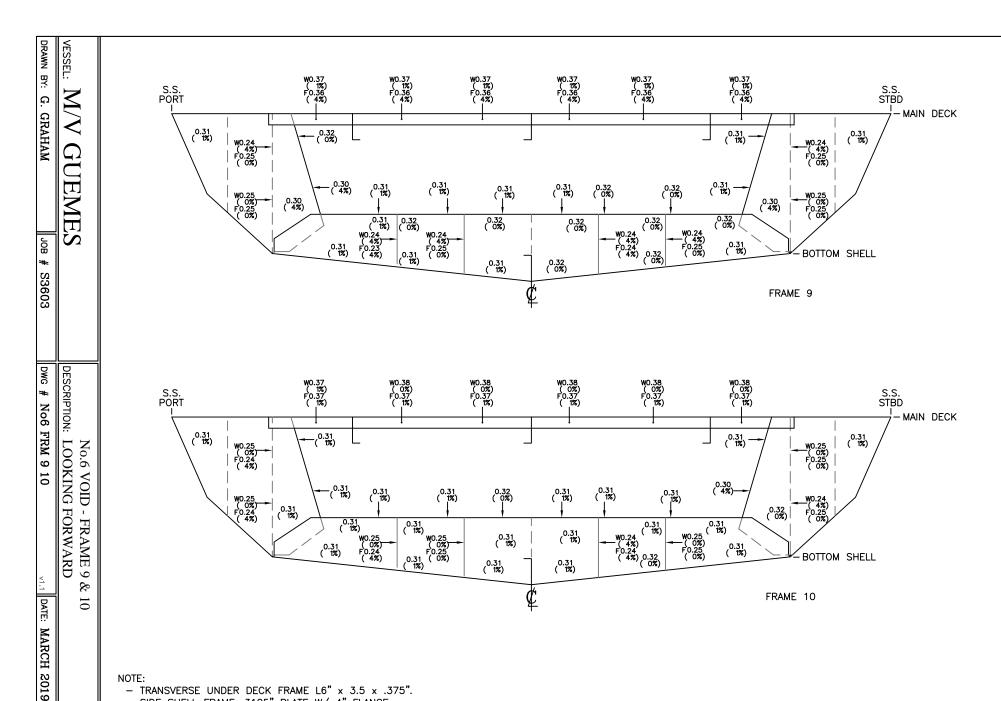
No.5 VOID -

PLATING IWO KEEL COOLERS



No.6 VOID INTERNALS

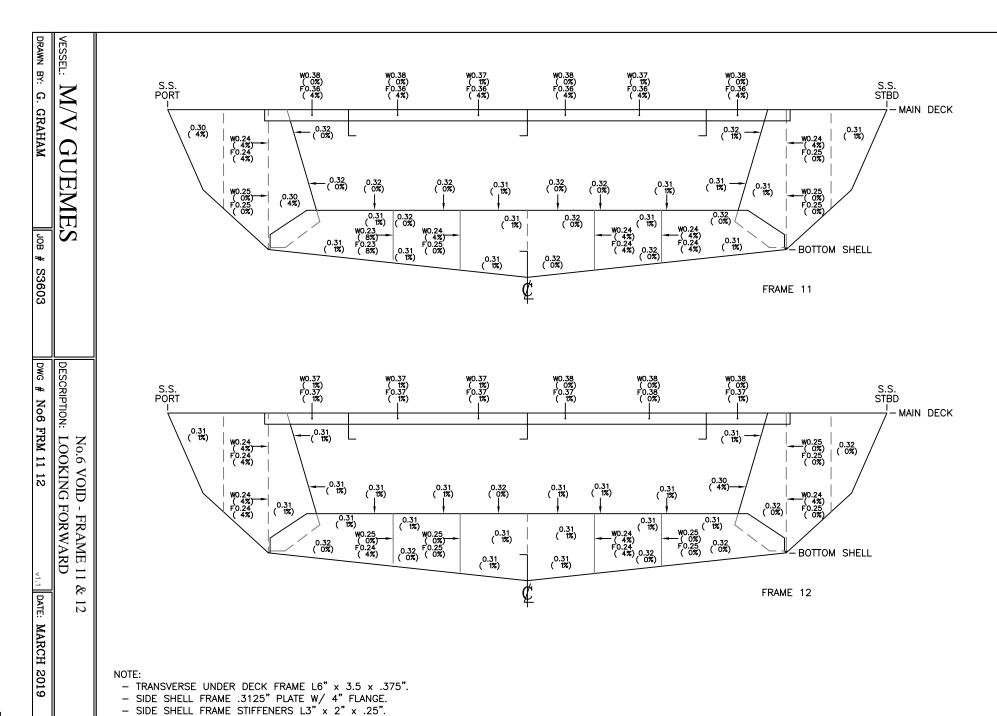




SIDE SHELL FRAME .3125" PLATE W/ 4" FLANGE.
 SIDE SHELL FRAME STIFFENERS L3" x 2" x .25".

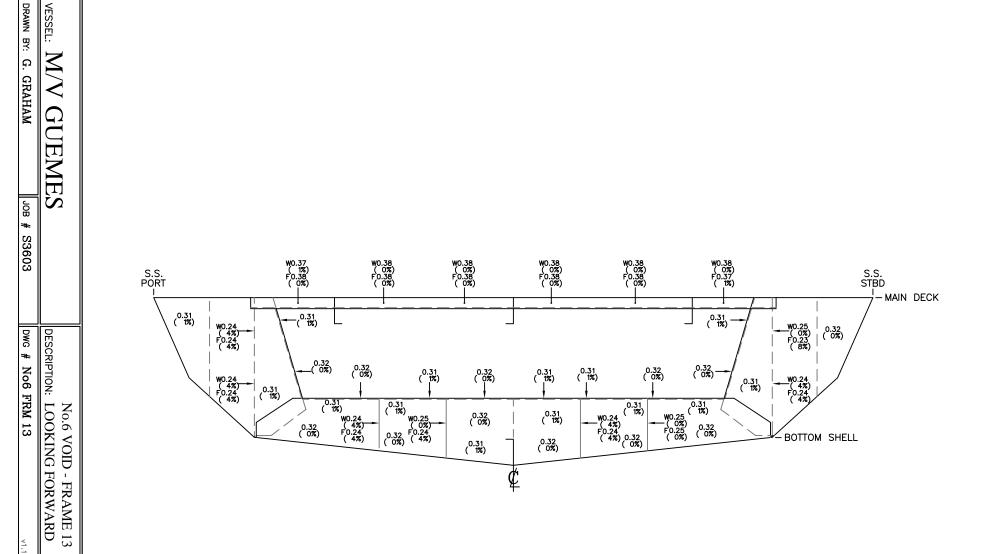
W = WEB / F = FLANGE.

TRANSVERSE BOTTOM FRAME 36" x 4"FigPit x .3125" C/F.
 TRANSVERSE BOTTOM FRAME STIFFENERS L3" x 2.5" x .25".



TRANSVERSE BOTTOM FRAME 36" x 4"FigPit x .3125" C/F.
 TRANSVERSE BOTTOM FRAME STIFFENERS L3" x 2.5" x .25".

W = WEB / F = FLANGE.



- TRANSVERSE UNDER DECK FRAME L6" x 3.5 x .375". SIDE SHELL FRAME .3125" PLATE W/ 4" FLANGE.

- SIDE SHELL FRAME .3125 FLATE W/ 4 FLANGE.

 SIDE SHELL FRAME STIFFENERS L3" x 2" x .25".

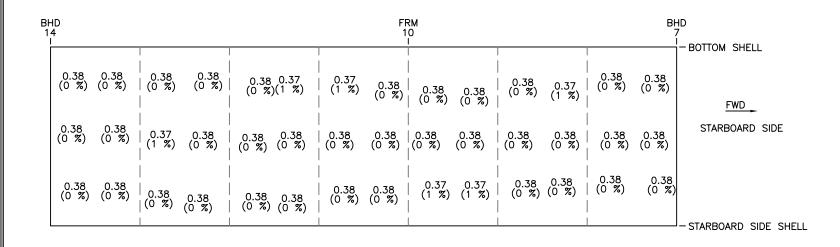
 TRANSVERSE BOTTOM FRAME 36" x 4"FigPit x .3125" C/F.

 TRANSVERSE BOTTOM FRAME STIFFENERS L3" x 2.5" x .25".

 W = WEB / F = FLANGE.

DATE: MARCH 2019

| BHD 14 | | | | RM 0 | | B <u>F</u> | 7 |
|--------------------------|--------------------------|-----------------|--|----------------------------|-------------------------|--------------------------------|-------------------|
| | 0.38 0.38 | | | i | | | - PORT SIDE SHELL |
| (0 %) (0 %) | 0.38 0.38 (0 %) | 0.38 0.38 (0 %) | 0.38 0.38 (0 %) | 0.38 | 0.38 | 0.38 (0 %) 0.38 (0 %) | FWD |
| 0.37 0.37 | 0.38 0.38 (0 %) (0 %) | 0.38, 0.38 | _{0.38} _{.0.38} | 0.38 0.38 | 0.38 0.38 | 0.38 | PORT SIDE |
| (1 %) (1 %) | (0 %) (0 %) | (0 %) (0 %) | (0 %) | ^(0 %) (0 %) | (0 %) (0 %) | 0.38 0.38 (0 %) (0 %) | |
| 0.37 0.37 (1 %) (1 %) | 0.38 0.38 | 0.38 0.38 (0 %) | 0.38 0.38 (0 %) (0 %) | 0.37 0.38 | 0.38 0.37 (0 %) (1 %) | 0.38 0.38 (0 %) (0 %) | |
| | | | <u> </u> | | i i | | - BOTTOM SHELL |



NO ORIGINAL SCANTLINGS AVAILABLE AT TIME OF SURVEY. NOMINAL THICKNESS MEASUREMENTS OBTAINED TO DETERMINE PERCENT WASTAGE.

NOMINAL THICKNESS USED: - TURN OF BILGE PLATING .375"

VESSEL: DRAWN BY:

M/M

GUEMES

G. GRAHAM

JOB

S3603

DWG # No6 VOID BTM PLT

DATE: MARCH 2019

No.6 VOID - DESCRIPTION: PLAN VIEW

PLATING IWO KEEL COOLERS



No.7 VOID INTERNALS

0.31 (1%)

FRAME 15

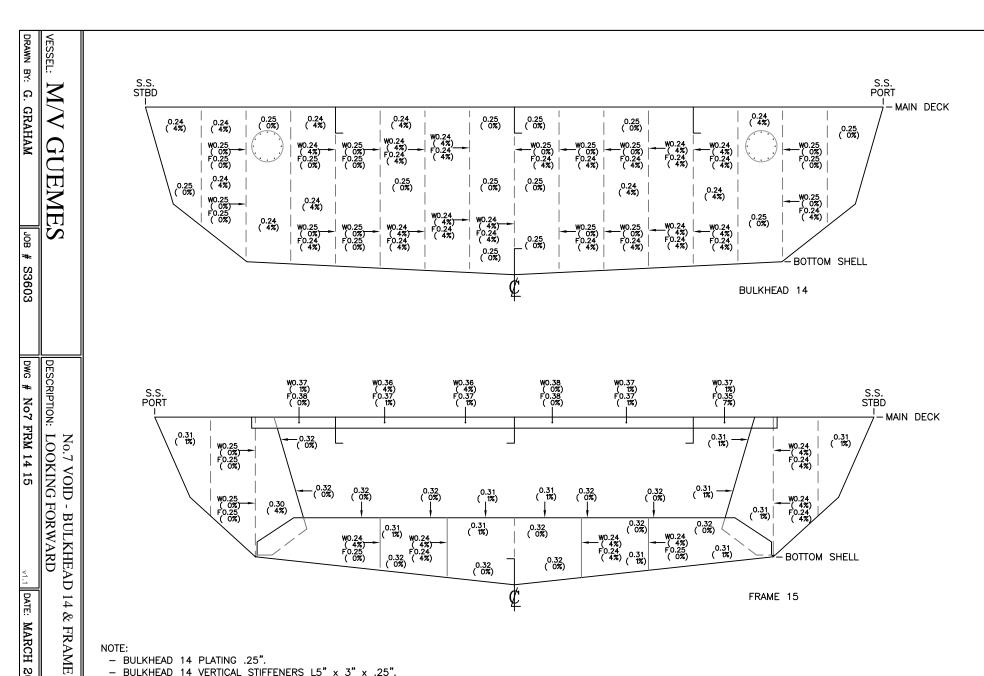
BOTTOM SHELL

0.32 (0%)

0.31 (1%)

0.32 (0%)

W0.24 - (4%) F0.24 (4%) (1%)



0.31 (1%)

0.32 (0%)

0.31

0.32 (0%)

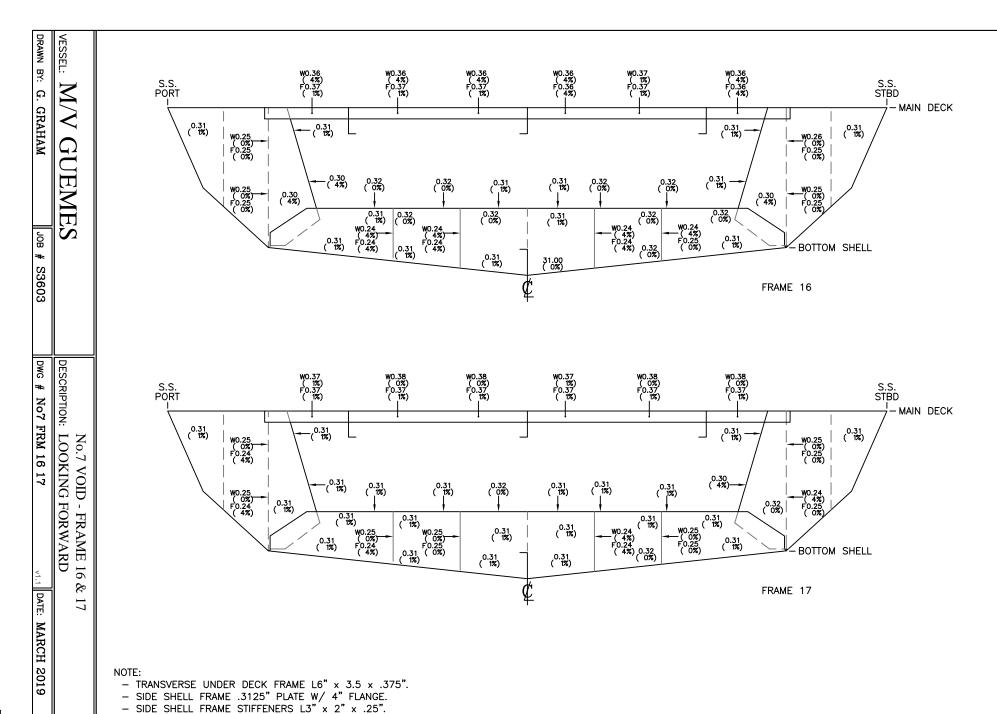
0.32 (0%)

NOTE:

- BULKHEAD 14 PLATING .25".
- BULKHEAD 14 VERTICAL STIFFENERS L5" x 3" x .25".
- FRAME 15 TRANSVERSE UNDER DECK FRAME L6" x 3.5 x .375".
- FRAME 15 SIDE SHELL FRAME .3125" PLATE W/ 4" FLANGE.
- FRAME 15 SIDE SHELL FRAME STIFFENERS L3" x 2" x .25".
- FRAME 15 TRANSVERSE BOTTOM FRAME 36" x 4"FigPit x .3125" C/F.
- FRAME 15 TRANSVERSE BOTTOM FRAME STIFFENERS L3" x 2.5" x .25".
- W = WEB / F = FLANGE.

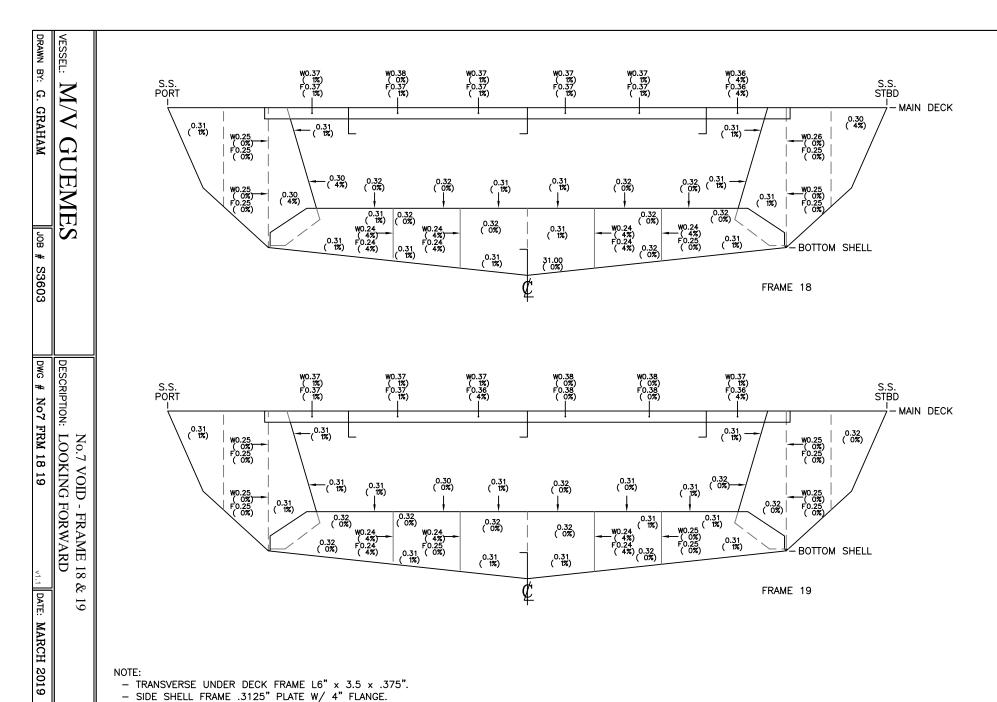
DATE:

MARCH 2019



TRANSVERSE BOTTOM FRAME 36" x 4"FigPit x .3125" C/F.
 TRANSVERSE BOTTOM FRAME STIFFENERS L3" x 2.5" x .25".

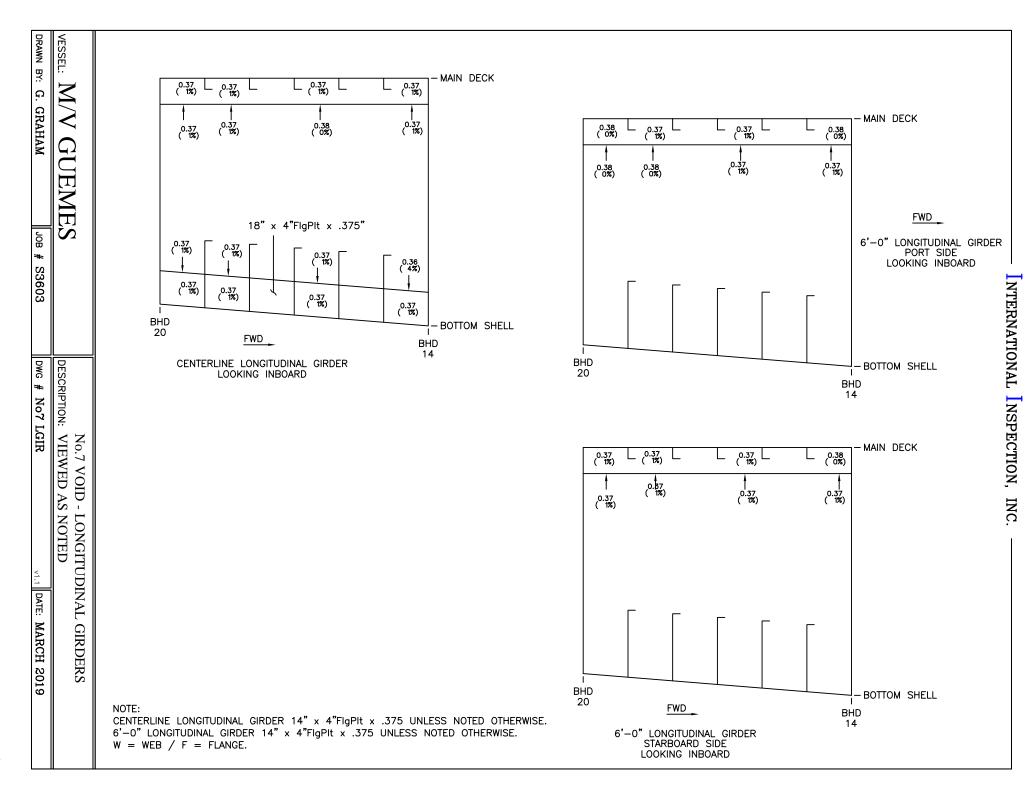
W = WEB / F = FLANGE.



- SIDE SHELL FRAME STIFFENERS L3" x 2" x .25".

W = WEB / F = FLANGE.

TRANSVERSE BOTTOM FRAME 36" x 4"FigPit x .3125" C/F.
 TRANSVERSE BOTTOM FRAME STIFFENERS L3" x 2.5" x .25".



| D | | | | | F\ | <u>WD</u> | | | | | HD 20 I — STARBOARD | SIDE | SHELI |
|---------------|---------------|---------------|---------------|-----------------------|---------------|---------------|---------------|---------------|---------------|--------------------------|---------------------------|------|-------|
| | | | | I | | | | | | 0.38 0.37 (0 %) (1 %) | | | |
| 0.38 (0 %) | 0.38 (0 %) | 0.37 (1 %) | 0.38 (0 %) | 0.38 (0 %) | 0.38 (0 %) | 0.38 (0 %) | 0.38 (0 %) | 0.38 (0 %) | 0.38 (0 %) | 0.37 0.37 (1 %) (1 %) | | | |
| 0.38 (0 %) | 0.38 (0 %) | 0.38 (0 %) | 0.38 (0 %) | 0.38 (0 %) | 0.38 (0 %) | 0.38 (0 %) | 0.38 (0 %) | 0.38 (0 %) | 0.37 (1 %) | 0.38 0.38 (0 %)(0 %) | BOTTOM SH | ELL | |

No.7 VOID - PLATING IWO KEEL COOLERS DESCRIPTION: STARBOARD SIDE - PLAN VIEW

VESSEL:

N/M

GUEMES

DRAWN BY: G. GRAHAM

JOB #

S3603

DWG # No7 VOID BTM PLT

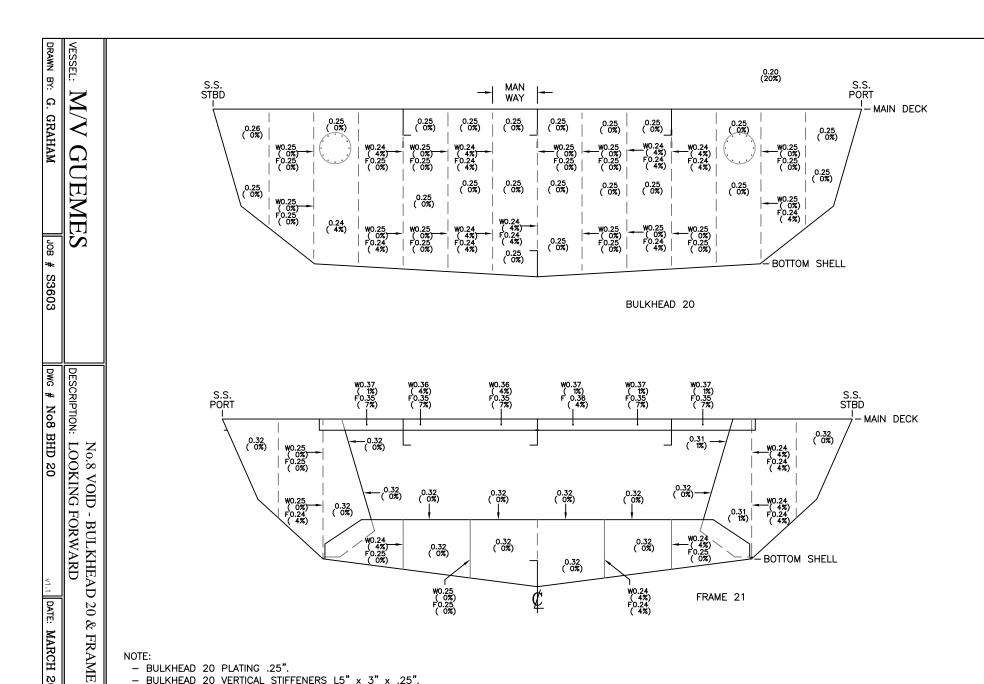
DATE: MARCH 2019

NOTE: NO ORIGINAL SCANTLINGS AVAILABLE AT TIME OF SURVEY.
NOMINAL THICKNESS MEASUREMENTS OBTAINED TO
DETERMINE PERCENT WASTAGE.

NOMINAL THICKNESS USED:
- TURN OF BILGE PLATING .375"



No.8 VOID INTERNALS



0.32 (0%)

0.32 (0%)

0.32 (0%)

0.32 (0%)

0.32 (0%)

W0.24 -(4%) F0.25 (0%)

FRAME 21

BOTTOM SHELL

0.32 (0%)

0.32

NOTE:

- BULKHEAD 20 PLATING .25".
- BULKHEAD 20 VERTICAL STIFFENERS L5" x 3" x .25".
- FRAME 21 TRANSVERSE UNDER DECK FRAME L6" x 3.5 x .375".

W0.25 (0%) F0.24 (4%)

0.32 (0%)

- FRAME 21 SIDE SHELL FRAME .3125" PLATE W/ 4" FLANGE.
- FRAME 21 SIDE SHELL FRAME STIFFENERS L3" x 2" x .25".
- FRAME 21 TRANSVERSE BOTTOM FRAME 36" x 4"FigPit x .3125" C/F.

- 0.32 (0%)

W0.24 (4%) F0.25 (0%)

0.32 (0%)

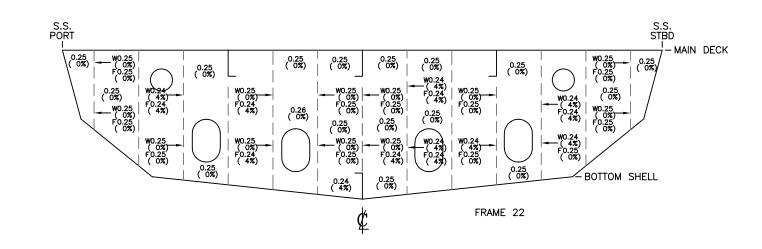
0.32 (0%)

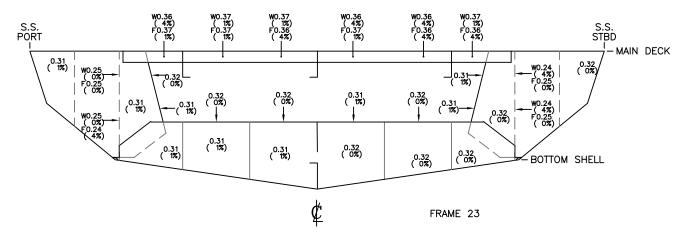
- FRAME 21 TRANSVERSE BOTTOM FRAME STIFFENERS L3" x 2.5" x .25".
- W = WEB / F = FLANGE.

DATE:

MARCH 2019

21





- SWASH FRAME PLATING .25"
- SWASH FRAME STIFFENING L3" x 2.5" x .25".
- TRANSVERSE UNDER DECK FRAME L6" x 3.5 x .375".
- SIDE SHELL FRAME .3125" PLATE W/ 4" FLANGE.
- SIDE SHELL FRAME STIFFENERS L3" x 2" x .25".
- TRANSVERSE BOTTOM FRAME 36" x 4"FigPlt x .3125" C/F.
- TRANSVERSE BOTTOM FRAME STIFFENERS L3" x 2.5" x .25".

W = WEB / F = FLANGE.

VESSEL: DRAWN BY:

G. GRAHAM

S3603

DWG

No8 FRM 22 23

DATE: MARCH 2019

DESCRIPTION: LOOKING FORWARD

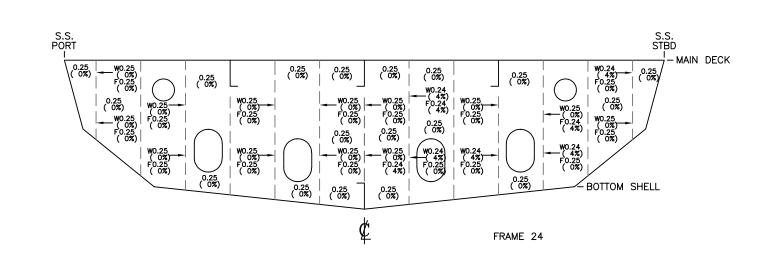
No.8 VOID - FRAMES 22

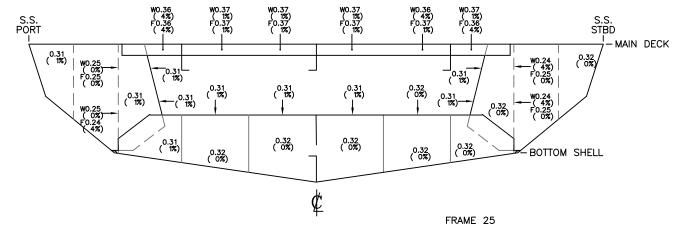
æ

23

N/W

GUEME





- SWASH FRAME PLATING .25"
- SWASH FRAME STIFFENING L3" x 2.5" x .25".
- TRANSVERSE UNDER DECK FRAME L6" x 3.5 x .375".
- SIDE SHELL FRAME .3125" PLATE W/ 4" FLANGE.
- SIDE SHELL FRAME STIFFENERS L3" x 2" x .25".
- TRANSVERSE BOTTOM FRAME 36" x 4"FlgPlt x .3125" C/F.
- TRANSVERSE BOTTOM FRAME STIFFENERS L3" x 2.5" x .25".

W = WEB / F = FLANGE.

VESSEL: DRAWN BY:

G. GRAHAM

S3603

DWG

No8 FRM 24 25

DATE: MARCH 2019

DESCRIPTION: LOOKING FORWARD

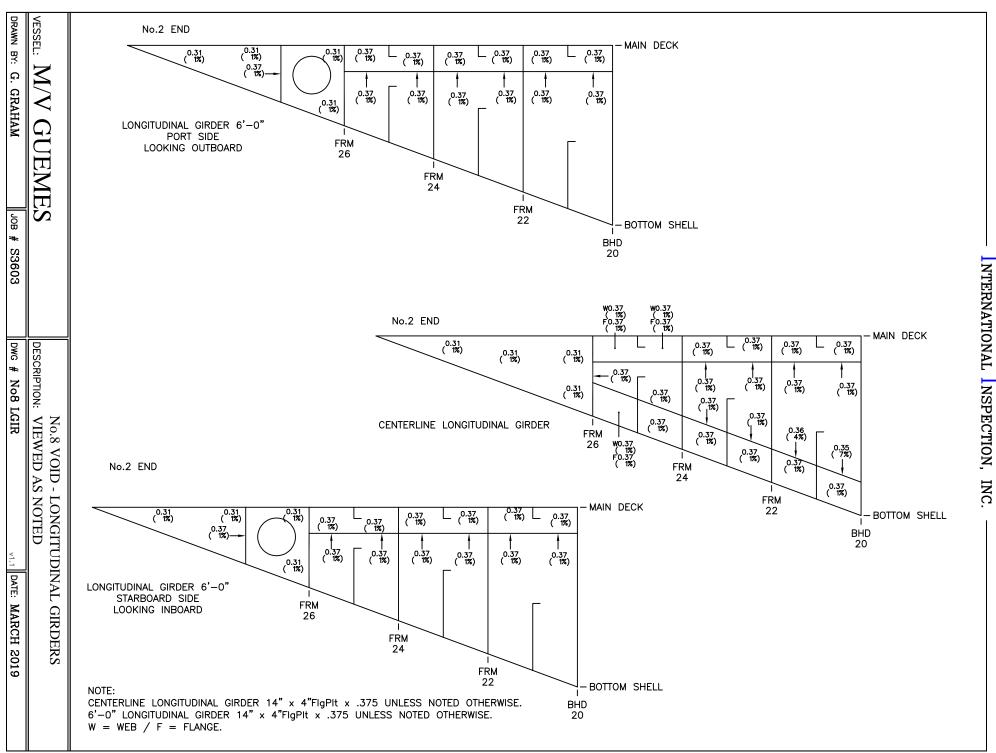
No.8 VOID - FRAMES 24 &

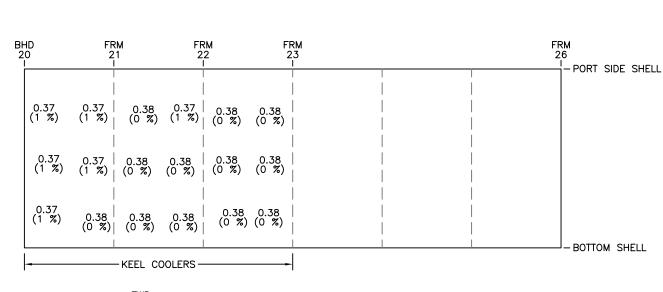
25

N/W

GUEME

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FWD

NOTE:

NO ORIGINAL SCANTLINGS AVAILABLE AT TIME OF SURVEY.
NOMINAL THICKNESS MEASUREMENTS OBTAINED TO
DETERMINE PERCENT WASTAGE.

NOMINAL THICKNESS USED:

- TURN OF BILGE PLATING .375"

VESSEL: J

G. GRAHAM

JOB #

S3603

DWG # No8 VOID BTM PLT

V1.1 DATE: MARCH 2019

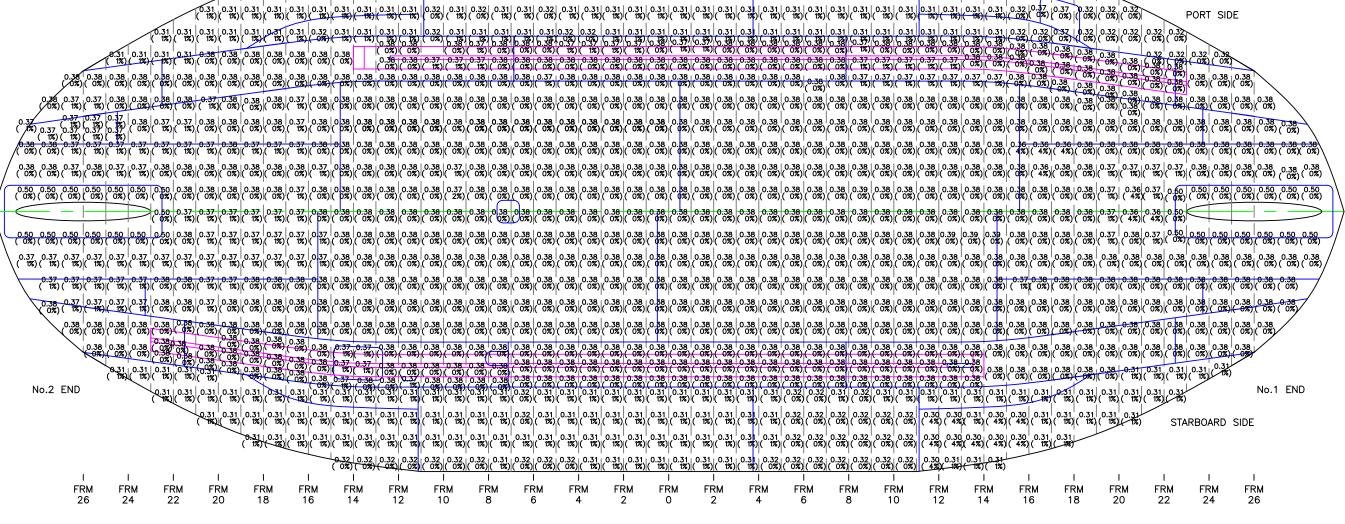
N/M

GUEMES

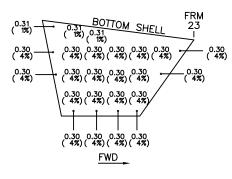
No.8 VOID - PLATING IWO KEEL COOLERS DESCRIPTION: PORT SIDE - PLAN VIEW



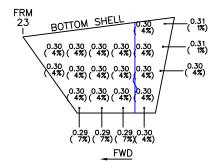
BOTTOM SHELL PLATING & SKEGS



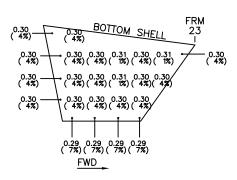
| VESSEL: M/V GUEME | S | BOTTOM AND SID | E SHELL PLATING |
|---------------------|-------------|----------------|------------------|
| DRAWN BY: G. GRAHAM | JOB # S3603 | DWG # HULL | DATE: MARCH 2019 |



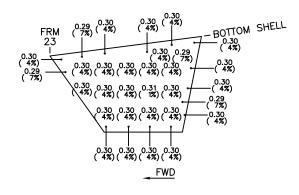
No1 END SKEG STARBOARD SIDE OOKING INBOARD



No1 END SKEG PORT SIDE OOKING INBOARD



No2 END SKEG STARBOARD SIDE OOKING INBOARD



No2 END SKEG PORT SIDE OOKING INBOARD

NOTE:

- SKEG .375" AS PER ORIGINAL SCANTLINGS.
ALL PREVIOUS REPORTS BY INTERNATIONAL INSPECTION SHOW INSTALLED PLATING WITH A NOMINAL THICKNESS OF .3125".
ALL UT MEASUREMENTS BASED OFF .3125" PLATING.

| VESSEL: M/V GUEMES | | SKEG PLA DESCRIPTION: LOOKING | ATING - No.1 END / No.2 END G INBOARD |
|---------------------|-------------|----------------------------------|--|
| DRAWN BY: G. GRAHAM | JOB # S3603 | DWG # Skeg | DATE: MARCH 2019 |



Photo No. 1 No. 1 end looking aft port side



Photo No. 2 No. 1 end Z-drive Unit



Photo No. 3 Refurbished propeller



Photo No. 4 No. 2 end looking forward port side



Photo No. 5 No. 2 end looking forward starboard side



Photo No. 6
Interior void, representative sample of internal coatings



Photo No. 7 Interior void, representative sample of internal coatings



Photo No. 8 Main deck looking aft from No. 1 end



Photo No. 9 Main engine and compartment



Photo No. 10 Z-drive assembly, upper unit



Photo No. 11 Main deck apron showing new insert



Photo No. 12 Passenger Lounge



Photo No. 13 Pilothouse Control Console