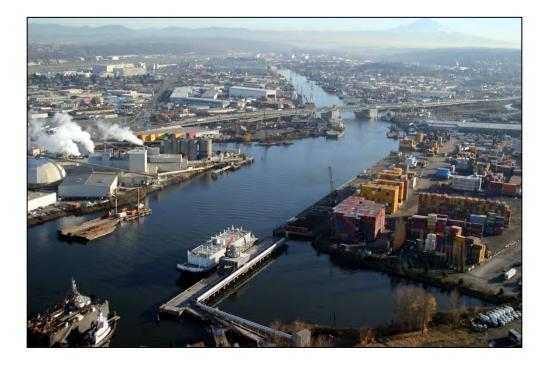
# Vessel Management Plan

Revision: 6 October 27, 2024



# LOWER DUWAMISH WATERWAY

**Upper Reach Remedial Action** 

Contract KC001065

**Prepared By:** 



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# **1. Introduction**

This Vessel Management Plan (VMP) outlines the procedures, safety measures, and coordination efforts for managing vessel traffic during construction activities in compliance with Section 35 10 00 (Navigation Safety and Marine Traffic Control). The plan aims to ensure safe and efficient navigation, minimize disruptions to marine traffic, and adhere to all regulatory requirements. The VMP is crucial for coordinating with other waterway users, ensuring environmental protection, and maintaining operational safety throughout the project duration.

# 2. Equipment

Please refer to Table 5-1 in the umbrella Remedial Action Work Plan (RAWP) for a detailed list of equipment on the project, their particular role, emissions, and other pertinent information.

# **2.1 Construction Barges**

- Lash 4: The Lash 4 barge, measuring 160' long x 50' wide x 12' deep, will be used for dredging and capping. It is a load-lined barge equipped with two spuds that can be raised and lowered to securely position the barge. The Lash 4 is also equipped with a 4-point anchoring system that can be utilized in areas where spuds are ineffective or not allowed (AC pilot areas, completed SMAs).
- WEB: This barge is 142 feet long, 58 feet wide, and 11 feet deep. It is outfitted with two heavyduty spuds for anchoring and stability. The spuds, which are 80 feet long, allow the barge to anchor itself in water depths exceeding 60 feet. The WEB does not have a secondary anchoring system.
- Flexi-Float: The FlexiFloat barge consists of 16ea 20' x 10' x 7' floats, which are combined to make a single float measuring 80' x 40' x 7' It is outfitted with two spuds for anchoring and stability once in its desired location. The FlexiFloat will have the 470 Excavator on the deck for all work activities in SMAs 1, 2, c1, and 14C.
- Judge Dredge: For material placement activities in SMA 13, PPM will utilize the Judge Dredge. The Judge Dredge is a 20'x50' modular barge that is equipped with two 40' spuds run by hydraulic winches that will be used to anchor the barge. The 270 excavator will be located on the deck of the Judge Dredge for material placement. This barge is a construction barge, so it does not have walls or lining, or scuppers. The barge will have an 8'x 7'x 10' steel hopper bin located on the deck of the barge to haul the amended sand cover in.
- **PamTay**: For bulkhead wall installation and pipe pile installation PPM will utilize the PamTay. PamTay is a 200' x 50' x 12. The barge is outfitted with two heavy duty spuds for anchoring and stability once it is in the desired location. The spuds on the PamTay are 90 feet long allowing it to anchor itself in 60+ feet of water



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### **2.2 Contaminated Sediment Barge**

- **KP-1, KP-2, KP-3, & KP-4**: These four identical barges are each 180 feet long, 50 feet wide, and 12 feet deep. They feature concrete wear decks and 4-foot-high steel fences around the perimeter to capture dredge water for collection and treatment, preventing overflow. Each barge has a capacity of 2,000 US short tons. Due to the barges being identical the displacement chart for the KP-1&2 also apply to the KP-3 and KP-4. Each barge will be made watertight with all scuppers sealed so that any water discharging from the barges must first pass through the passive dewatering process identified in Appendix J and Appendix V of the RAWP.
- Poseidon P2 Hopper Barge: For SMAs 1, 2, c1,and 14C the Poseidon P2 Hopper barge will be used to short-haul and store contaminated sediment. The barge is 40' x 20' wide and consists of two 40' Long x 10' Wide x 8' 5-3/4" Tall modular barges pinned together. The barge has two hoppers, one on each 40x10 unit. The hopper is set inside of the hull of the barge, it is 26'x 8' x 8.5' and capable of holding 50cubic yards. The hopper box has a 1.5' tall fence extending above the deck of the barge to mitigate the risk for spillage during transport. With both units pinned together the 40'x20' barge is capable of hauling 100 cubic yards per load. Prior to receiving imported clean material, barges will be decontaminated per Section No. 03 Appendix AD.
- **Porpoise:** The Porpoise will be utilized as a contaminated sediment barge in SMA 1A, 1B, 2A, and 2B in rotation with the P2 Hopper barge. The Porpoise barge dimensions are 140 feet long by 35 feet wide by 8.5 feet deep. The barge is equipped with a concrete wear deck and 4-foot high steel fence around the perimeter, which will be sealed to capture all dredge water for collection and dewatering, thereby avoiding overflow situations. Please refer to the Water Quality Control and Water Management Plan for details regarding dredge water collection, dewatering, and treatment. This barge can hold approximately 530 tons of material, with about 250 tons generated before the material is transloaded on to the KP barge. This will provide the barge with 24 inches of freeboard above the deck, minimizing the risk of spillage during transport to the transload location. Material will be stacked to ensure that it cannot be lost from the barge during transport.

# 2.3 Imported Clean Material Barge

- **Kumtux**: A 220' x 64' x 16' barge with a usable deck of 210' x 61'. It is capable of hauling 3,200 tons per load, facilitating efficient backfill operations. This barge is a dedicated imported clean material barge.
- **Eglon**: A 230' x 60' x 18' flat/deck barge with a usable deck space of 220' x 57'. It boasts a full load capacity of 3,800 short tons and is used for efficient dry cargo transport, operated by Boyer Towing, Inc. Prior to receiving imported clean material, barges will be decontaminated per Section No. 03 Appendix AD.
- **Poseidon P2 Hopper Barge**: For SMAs 1, 2, c1and 14C the Poseidon P2 Hopper barge will be used to short-haul and store aggregate materials for placement. The barge is 40' x 20' wide and consists of two 40' Long x 10' Wide x 8' 5-3/4" Tall modular barges pinned together. The barge has two hoppers, one on each 40x10 unit. The hopper is set inside of the hull of the barge, it is 26'x 8' x 8.5' and capable of holding 50cubic yards. The hopper box has a 1.5' tall fence extending above the deck of the barge to mitigate the risk for spillage during transport. With both units pinned together the 40'x20' barge is capable of hauling 100 cubic yards per load.



Prior to receiving imported clean material, barges will be decontaminated per Section No. 03 Appendix AD.

• **Porpoise Barge:** The Porpoise will be utilized to haul aggregates for material placement in SMA 1A, 1B, 2A, and 2B in rotation with the P2 Hopper barge. The Porpoise barge dimensions are 140 feet long by 35 feet wide by 8.5 feet deep. The barge is equipped with a concrete wear deck and 4-foot high steel fence around the perimeter. This barge can hold approximately 530 tons of material. Material will be stacked to ensure that it cannot be lost from the barge during transport. This barge will be used for both clean material placement and dredging activities. Prior to hauling clean aggregates for material placement the barge will undergo a decontamination process to assure all hazardous materials have been removed prior to loading with clean aggregates. Please refer to Section 2.1 in the Decontamination Plan (Appendix AD).

### **2.4 Tug Boats**

The Towing Safety Management System utilized by Boyer Towing that will be applicable to all tugs used on the project can be found in Attachment A.

- Halle H: The HALLE H. features a steel hull, providing durability and strength essential for the demanding conditions of towing services. The HALLE H. is a twin-screw tug rated at 680 horsepower. With a length of 44.7 feet, a breadth of 17 feet, and a depth of 5.8 feet, she is a compact yet powerful vessel. Her gross tonnage is 37, with a net tonnage of 25, making her well-suited for a variety of towing tasks. Boyer Towing has several similar tugboats available (Jennifer H) approximately 3,000 feet from the project site.
- Gretchen H: The GRETCHEN H. is a robust towing vessel powered by three Tier III compliant Cummins QSK19 diesel engines, providing a total rated horsepower of 2,250. These engines are coupled with Twin Disc MG5202DC reduction gears at a ratio of 6.1:1, driving three pitch propellers to ensure efficient and powerful propulsion. With a length of 80.6 feet, a breadth of 30 feet, and a depth of 11.1 feet, she is a substantial and capable vessel. Her gross tonnage is 96, with a net tonnage of 65, making her well-suited for the rigorous demands of towing operations. The GRETCHEN H. is registered with the US Coast Guard (1056824) and hails from Ketchikan, Alaska.
- Jennifer H: The Jennifer H. features a steel hull, providing the durability and strength essential for demanding towing services. The Jennifer H. measures 64 feet in length, 22 feet in breadth, and 7.4 feet in depth. This robust towing vessel has a gross and net tonnage of 87 and is powered by an 800-horsepower engine with a twin-screw propulsion, she is well-suited for various towing tasks along the coastlines of Puget Sound, Alaska, and the Pacific Coast. Registered under USCG Doc. No. 1022583 and with the call sign WDC3573, the Jennifer H. offers coastwise unrestricted towing services and is based in Ketchikan, AK.

# **2.5 Support Boats**

• Skiffs: Two to three small metal work skiffs ranging from 16' to 21' in length with outboard motors (50-100 horsepower). These skiffs will be used to transport personnel and supplies, as well as maintain turbidity curtains.



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 Fog Dog Survey Boat: A 27' Almar Aluminum hulled jet drive boat used for bathymetric surveying. It is equipped with a Norbit iWBMS multibeam head and an Applanix Wavemaster II RTK GPS system. The vessel features dual displays for the operator and survey technician, an inverter, an extra-large battery bank, and an auxiliary generator for ample power capacity. It also has onboard cellular internet access and Wi-Fi connectivity for remote survey operations and troubleshooting.

# 3. Certifications and Documentation

Certifications for all barges, including load line certificates, stability documentation, displacement charts, and any other relevant certifications, can be found in Attachment B. All equipment certifications will be kept up-to-date and available for inspection upon request.

# 4. Notifications and Procedures

Continuous coordination with the United States Coast Guard (USCG), other waterway users, and local authorities is essential to ensure safe and efficient operations. This section details the protocols for communication, compliance, and coordination.

### 4.1 Compliance with Regulations and Rules

- USCG Regulations: All activities within the Lower Duwamish Waterway will comply with USCG regulations and the International Regulations for Preventing Collisions at Sea 1972 (COLREGS). This includes adherence to navigation rules, vessel lighting, vessel flagging and communication protocols. Specific day shapes and lighting are described in Section 6.4. Additionally, vessels will utilize coded AIS signals to communicate their encumbered status to USCG vessel traffic control, ensuring optimal safety and coordination in the waterway.
- Navigation Channel: All vessel tows through the LDW should occur within the main navigation channel to avoid grounding and equipment damage. Traveling outside the channel, especially at low tides, is strictly prohibited unless approved by the Project Representative. Vessel movements within the SMAs for dredging, material placement, and other work activities will be allowed to occur outside the navigation channel.
- Safety Supplies and Radio Communications: All marine equipment must be equipped with the required safety supplies and maintain and monitor radio channels for emergencies (16), bridge to bridge (13), and vessel traffic control channel (14). Tribal fishing coordinators require contact to be done through cell phone communication, below are the various contact for the tribes:
  - Curtis Buchanan- Tribal Fisheries Coordinator Supervisor
    - (253) 545-1605

- o 24HR Port Op Tribal Fisheries Net Movement Hotline
  - (253) 740-1235
- Lee Foulkes Tribal Net Coordinator
  - (253) 876-2927



# 4.2 Right-of-Way Hierarchy

- Hierarchy Compliance: Right-of-way hierarchy is defined in the International Regulations for Preventing Collisions at Sea (COLREGS). Due to PPM having barges that are not under command (Rule 27a), restricted in ability to maneuver (Rule 27b) and constricted by draft (Rule 18b), it will have the highest priority on the Duwamish River, yielding to no other vessel. PPM's skiffs and tugboats will yield to boats engaged in fishing (Rule 18c) and sailing vessels (Rule 18a). Kayaks and other human powered vessels have the lowest priority and will yield to both barges and powered-driven vessels (skiffs and tugboats).
- **Communication Channels**: Use channels 16 and 19 for vessel-to-vessel communication to coordinate movements and avoid conflicts.

# 4.3 Coordinating with LDW Traffic

- Local Notice to Mariners (LNMs): All activities affecting access to the Lower Duwamish Waterway will be identified through LNM. PPM will check LNMs weekly during dredging and backfill activities to stay informed about navigation impacts. A LNMs request will be submitted to the Coast Guard 21 days before starting dredging activities.
- **Tribal Fishing Coordination**: Tribal fishing activities take precedence over construction operations. PPM will coordinate with the tribes and adjust operations to accommodate their activities.
- **Commercial Vessel Movements**: PPM will stop, move, adjust, and/or slow down operations to accommodate commercial vessel movements as required by project-specific agreements and coordination protocols. The tugboat captain and site superintendent will have a dedicated communication device for monitoring Channels 16 and 19. If a commercial vessel indicates it will be traveling through or near the work site or directly hails the captain, then the captain will let the superintendent know of the movement. The superintendent will then assess if repositioning is required, if repositioning is required the superintendent will notify the project manager and project representative prior to moving.
- **Daily Communication**: Daily coordination with the Waste Management Duwamish Reload Facility and each Tribe coordinator will ensure seamless operations. Updates will be provided to the Project Representative as part of the Daily Construction Report.

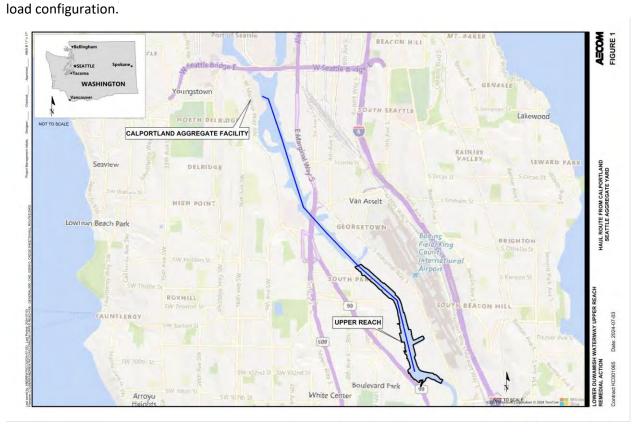
# 5. Vessel Routing and Towing Arrangements

### **5.1 Vessel Routes**

• Imported Clean Materials: Material Types 4 and 5 will be loaded at CalPortland's Seattle Rock Yard and transported approximately 5.0 miles to the project site (Figure 1). The Eglon will haul approximately 3,500tons in a full load configuration and the Kumtux will haul 3,000tons in a full



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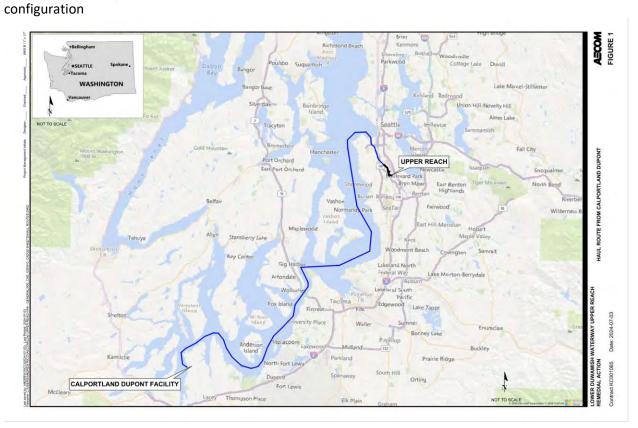


### Figure 1- Agg Yard Haul Route

Material Types 1, 1A and 2 will be loaded at CalPortland's DuPont yard and transported approximately 44 nautical miles to the project site (Figure 2). The Eglon will haul approximately 3,500tons in a full load configuration and the Kumtux will haul 3,000tons in a full load



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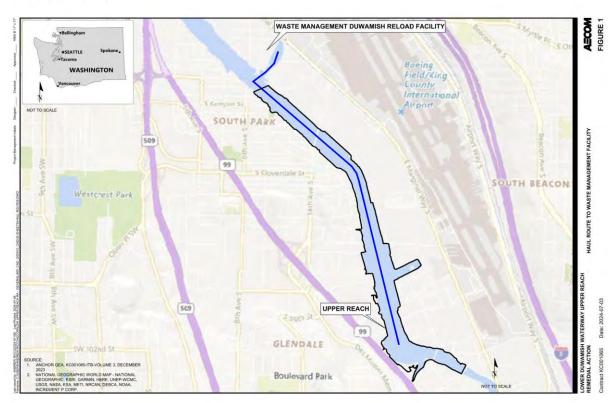


### Figure 2- Dupont Haul Route

• **Contaminated Sediment**: Contaminated sediment will be transported to Waste Management's Duwamish Reload Facility (DRF), approximately 2.0 miles from the project site (Figure 3).



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### Figure 3- Waste Management DRF Haul Route

• **Towing Arrangements**: Boyer Towing will perform the towing utilizing the tugs Halle H, Jennifer H and Gretchen H to transport the barges. PPM's skiffs will assist in moving vessels on the project site and be used as a rudder for positioning.

### **5.2 Towing Arrangements**

• **Tug Capacity and Power Requirements**: For moving the construction barges the Halle H will be utilized in a push arrangement, requiring 500hp of the Halle's 800hp capacity. The Halle H will also be utilized to move the contaminated sediment barges to the DRF. The Gretchen H will be utilized in the towing of the imported clean material barges from CalPortland's Dupont and Seattle Aggregate Yard. The Gretchen will also tow the contaminated sediment barges to the DRF. The Gretchen H will also use a push arrangement for these tows. The aggregate tows require a tug with a minimum of 1,500hp which the Gretchen is capable of 2,250hp. The Jennifer H will be available to assist in any of these tows as well.

# 6. Safety and Environmental Measures

### **6.1 Low Visibility Limitations**

The United States Coast Guard (USCG) has established protocols for operating in low visibility conditions to ensure the safety of navigation. Low visibility conditions can be caused by fog,



heavy rain, snow, or other weather phenomena that reduce visibility on the water. Here are the key protocols and requirements:

### Navigation Rules and Signals

- **Sound Signals**: Vessels must use sound signals to communicate their presence and movements. The specific signals are detailed in the International Regulations for Preventing Collisions at Sea (COLREGS) and the Inland Navigation Rules. For example:
  - **Underway, Making Way**: One prolonged blast at intervals of not more than two minutes.
  - **Underway, Not Making Way**: Two prolonged blasts with an interval of about two seconds between them at intervals of not more than two minutes.
  - **Anchored**: Rapid ringing of the bell for about five seconds at intervals of not more than one minute.
  - **Aground**: Three strokes of the bell, followed by the rapid ringing of the bell for about five seconds, followed by three strokes of the bell.

### Vessel Speed and Safe Navigation

- Safe Speed: Vessels must proceed at the speed restrictions indicated in Section 6.2
- **Lookout**: A proper lookout must be maintained at all times by sight and hearing, as well as by all available means to the prevailing circumstances to make a full appraisal of the situation and the risk of collision.

### Radar and Electronic Navigation Aids

- **Radar Use**: Vessels equipped with radar (Gretchen H, Jennifer H, and Halle H) will use it in the open waters of the Puget Sound to obtain early warning of risk of collision and to take required action. Operators must be proficient in radar use and interpretation. Radar will not be utilized on the river due to the restricted shape of the river and congested nature of the waterway.
- Automatic Identification System (AIS): Boyer tugboats will be equipped with AIS and will be operational to assist in identifying nearby vessels and their movements.

### Radio Communications

- VHF Radio:
  - Emergency Channel:
    - Channel 16 (156.800 MHz): This is the international distress, safety, and calling frequency. All vessels must monitor this channel while underway. It is used to call the U.S. Coast Guard or other vessels in an emergency situation.
  - Bridge-to-Bridge Communication:
    - Channel 13 (156.650 MHz): This channel is used for bridge-to-bridge communications between vessels. It is primarily used for navigating through narrow passages and during close quarters maneuvering to avoid collisions.
  - Vessel Traffic Service (VTS) Seattle:



- Channel 14 (156.700 MHz): This channel is used by the Vessel Traffic Service (VTS) in Seattle to manage vessel traffic in the area. Mariners must monitor this channel when navigating in VTS zones.
- **Communication Protocols**: Establish and maintain communication with nearby vessels to inform them of your position, course, and intentions. This helps in avoiding collisions and coordinating movements. Continuous monitoring of VHF Channel 16 (156.8 MHz) is required for distress and hailing. Communication with nearby vessels and the USCG should be maintained as necessary.

### Additional Precautions

- **Navigation Lights**: Ensure that navigation lights are operational and properly displayed as required by the COLREGS and Inland Navigation Rules.
- **Anchoring**: In extremely low visibility, it will be prudent to anchor in a safe location until conditions improve. Follow proper anchoring procedures and use sound signals as required.

### **Compliance and Training**

- **Crew Training**: Ensure that all crew members are trained and familiar with low visibility protocols and the use of navigation aids.
- **Regulatory Compliance**: Adhere to all relevant regulations and guidelines set forth by the USCG and other maritime authorities.

### **6.2 Speed Limits**

**Speed Restrictions**: Adhere to speed limits of 3 knots when repositioning vessels and 7 knots throughout the Lower Duwamish Waterway to ensure safe navigation and minimize environmental impact.

### **6.3 Mooring Locations**

**Mooring Plans**: PPM has identified estimated locations (Attachment D) for overnight or temporary mooring of dredging equipment and haul barges when not in operation. There will be over 100 unique mooring locations, most being decided the day of the required mooring between PPM and PR. These locations are close to active dredging areas to minimize unnecessary movement. These mooring locations will not interfere with the navigation channel. Equipment will be moored using cylinder spuds varying from 24" to 18", each construction barge using two spuds to anchor in place. The steel spuds are deployed by slowly lowering them from the barge into the waterway bed. This anchoring method provides a stable base, preventing the barge from drifting due to currents, wind, or tidal changes. Regular inspections of the spuds and their deployment mechanisms will be conducted to ensure they remain effective and secure throughout the dredging operations.

The use of spuds is permitted in the waterway bed for required dredging and contingency redredging activities within or adjacent to the Sediment Management Areas (SMAs), except in the following locations:

• SMAs where engineered cap material has been placed



- within the Enhanced Natural Recovery (ENR)/Activated Carbon (AC) Pilot Plots, as detailed in Drawing C106 and C107.
- Spudding is prohibited within 30 feet of the South Park Bridge active submarine cable, as detailed in Drawing C103.
- T-117 Cap Area, as detailed in Drawing C105.
- Outfall Z, as detailed in Drawing C105.
- In front of Duwamish Waterway Park, as detailed in Drawing C101.
- In SMA 10, as detailed in Drawing C106

The DREDGEPACK positioning software will be utilized to ensure spud deployment adheres to these requirements. All restricted areas will be created in the software and loaded into the operators screen to verify that spuds are not deployed in those areas. The Lash 4 is equipped with a 4-point mooring system consisting of 1-1/8" steel cable and 10ton anchors. The 4-point system is not anticipated to be used on this project. Dredge barges at anchor must display all-round white lights visible for at least two nautical miles. When engaged in dredging, they must show two vertical red lights on the obstructed side and two vertical green lights on the safe passage side, in accordance with COLREGs and USCG regulations.

### 6.4 Navigation Safety Measures

- Aids to Navigation: PPM will install, maintain, and operate aids to navigation in accordance with the International Rules ratified at the Convention on the International Regulations for Preventing Collisions at Sea, 1972, specifically Rule 24 and 27. PPM will inspect and repair or replace aids as necessary.
  - Day Shapes: During the day construction barge will display the following day shapes:
    - For the side of the dredger where vessels can safely pass:
      - **Two Black Diamonds**: In a vertical line to indicate that vessels can pass on this side.
    - At anchor:
      - **One Black Ball**: When the vessel is anchored but still engaged in dredging activities, this signals that the vessel is stationary but engaged in work.
  - Lighting: Construction barges must have proper lighting to ensure visibility to other vessels. This includes anchor lights and obstruction lights. Lights must be visible for at least two nautical miles.
    - **Obstruction lights** -Red on obstructed side, Green on safe side for passing.
    - Anchor lights- Two all-round white lights—one forward and one aft, both at the highest points of the vessel.
- **Signage**: Provide signage at strategic locations (Turning Basin at RM 4.7 and downstream boundary at RM 3.0) to request non-Project vessels operate at a maximum speed of 7 knots within the Work Site.
- **Radio Communications**: All vessels must have marine VHF radios capable of clear communication over the Project area. Radios should be operational throughout marine operations and monitored during work hours.
- **Recreational Users**: A minimum offset distance of 100 feet between dredging equipment and recreational users will be enforced. The offset will sent to as part of LNM(Local Notice to Mariners) to the USGC, no additional public notices are planned. PPM will utilize a portable



megaphone to communicate with users and/or work skiffs to monitor the area to ensure compliance and provide assistance.

# 7. Emergency Procedures & Communications

### 7.1 Emergency Management Systems

**Emergency Protocols** 

### **1. Extreme Weather Conditions**

- **Wind Warnings**: Establish a protocol for monitoring wind conditions using reliable weather forecasting services.
  - Action Steps:
    - The National Weather Service Marine Forecast website will be used to monitor wind speeds and issue warnings to crews when winds exceed 40mph.
    - Secure loose equipment and materials to prevent them from becoming hazards.
    - Cease operations and seek shelter if wind speeds reach gale force.

### • Gale Warnings:

- Action Steps:
  - Stop all non-essential operations and prepare the barge for heavy weather.
  - Ensure all personnel are aware of the impending gale and take necessary precautions.
  - Evacuate the barge if conditions become life-threatening.
- High-Flow Events:
  - Action Steps:
    - The U.S. Geological Survey website/app will be used to monitor water flow rates and issue alerts when flow exceeds 12 ft/second.
    - Implement measures to stabilize the barge and prevent it from drifting.
    - Suspend operations and move to a safe location if necessary.
- Extreme Cold Protocols:

### Action Steps:

- Implement regular inspections of the deck and all exposed machinery for the presence of ice.
- Use mechanical means (e.g., ice scrapers, heated surfaces) to remove ice buildup on decks, walkways, and critical equipment. Sand shall be used where possible to address worker safety on decks and other surfaces. If ineffective, 'salt-based ice melt' use is acceptable if applied only in the areas and amounts necessary. Ensure all personnel are equipped with prescribed cold-weather PPE, including insulated gloves and footwear with slip-resistant soles.
- Reduce or halt non-essential operations if ice accumulation on decks or machinery poses a safety risk.



- Increase monitoring and maintenance of machinery to prevent ice from affecting operational integrity.
- Ensure communication systems are fully operational and that all personnel are informed of the extreme cold conditions and the required precautions.
- Evacuate the barge or cease operations if ice buildup becomes unmanageable or conditions pose life-threatening risks.

### 2. Equipment Failures

- **Routine Inspections**: Conduct regular inspections and maintenance of all critical equipment per Attachment C.
- Failure Response:
  - Action Steps:
    - Immediately stop operations and assess the situation.
    - Notify the designated emergency contact and initiate repairs.
    - Evacuate personnel if the failure poses a significant safety risk.

### **Emergency Drills**

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- 1. Regular Drills: Conduct emergency response drills on a quarterly basis.
  - Types of Drills:
    - Fire drills
    - Man overboard drills
    - Spill containment drills
    - Severe weather drills
  - Procedure:
    - Schedule and announce drills in advance.
    - Simulate realistic scenarios to test preparedness.
    - Debrief after each drill to identify areas for improvement.
- 2. **Crew Training**: Ensure all crew members are trained in emergency procedures and HAZWOPER 40 and know their roles during an emergency.
  - Training Topics:
    - Use of personal protective equipment (PPE)
    - Emergency communication protocols
    - First aid and CPR
    - Evacuation procedures

### 7.2 Marine Emergency Resources

### **Response Resources**

- 1. Rescue Vessels
  - **Availability**: Work skiffs and survey boat will be ready with each dredge/placement barge for immediate deployment as rescue vessels
    - Types of Vessels: Work skiffs, survey boat
    - **Readiness**: Conduct regular maintenance and readiness checks.
  - Crew Training: Train crews in search and rescue (SAR) operations and emergency response techniques. HCSS Safety will be utilized to document training and provide records as requested.



### 2. Spill Containment Equipment

- Inventory: Maintain an inventory of spill containment equipment, including booms, skimmers, and absorbent materials on all construction barges as indicated in the Spill Prevention Control and Countermeasure Plan.
- **Deployment Procedures**: Develop clear procedures for deploying spill containment equipment.
  - Action Steps:
    - Assess the spill and determine the required equipment.
    - Deploy containment booms to prevent the spread of the spill.
    - Use skimmers and absorbents to clean up the spill.

### 3. Medical Response Teams

- **Availability**: At least two team members of each barge crew will be trained for CPR and First Aid response.
  - **Personnel**: Onboard first aid trained responders
  - Equipment: Stock medical supplies and first aid kits.
- Coordination with Local Authorities: Coordination protocols with local hospitals and emergency services for medical evacuations and advanced medical care are detailed in the HASP

# 8. Monitoring and Security

### **8.1 Monitoring Procedures**

- **Continuous Monitoring**: PPM's deck engineer and Boyer's tug captain will continuously monitor the Work Site for the presence of other waterway users. Adjust operations as necessary to ensure safe navigation and prevent conflicts.
- Security Measures: PPM and Boyer towing will lock all access hatches, containers, and equipment to restrict unauthorized access or interference. All loose materials will be secured in a fashion that individuals cannot access or move it by manual means.

# 9. Construction Submittals

### 9.1 Daily and Weekly Reports

- **Daily Records**: Maintain a daily record of vessel management coordination, including tracking of Project vessel movements, communications with Project and non-Project vessels, and interactions with tribal entities.
- Weekly Summaries: Provide weekly summaries of vessel management activities and planned movements for the following week.
- **Barge Certification Checks**: Include a checkbox in the Daily Construction Report to confirm that barges are properly loaded, seaworthy, and have no observable stability issues.
- After-Hours Contact: Marty Locke will be PPM's contact for after-hours personnel available to respond to and mitigate any issues related to vessel security and seaworthiness. Contact information for Marty can be found in the umbrella RAWP document.



• Marine Condition Surveys: Conduct regular marine condition surveys to identify and address any repair needs for barges and other marine equipment.



racific Pile & Marine, LP 700 South Riverside Drive Seattle, WA 98108 T 206 331-3873 F 206 331-3873 F 206 774-5958 License # PACIF

License # PACIFPM922J3

# **Attachment A- Towing Safety Management System**

www.pacificpile.com

# **BOYER TOWING INC.**

# SAFETY MANGEMENT SYSTEM



# BOYER TOWING, INC. SAFETY MANUAL



Document name:	Section No.: SM-00		
INTRODUCTION	Author: Safety Manager		
Controlled by: Safety Manager	Revision date:	Issue 00 1	
Approved by: President	1 October 2017	Page 1 of 3	

# 1.0 PURPOSE

The purpose of this manual is to ensure a healthy and safe working environment by implementing and maintaining reasonable and practical operating standards and policies of safety, health and environmental protection in compliance with recognized codes, standards and regulations.

# 2.0 SCOPE

This manual applies to all Boyer Towing, Inc. employees, in particular marine personnel and Operations and Engineering Department personnel.

Company policies shall take precedence when they are more stringent than other laws and regulations.

# 3.0 RESPONSIBILITY

The Safety Manager is responsible for maintaining the content and applicability of the sections within this manual.

All Boyer Towing, Inc. employees are responsible for familiarizing themselves and complying with the content of this manual.

# 4.0 DETAIL

### 4.1 Aims and Objectives

The instructions set out in this manual are issued to acquaint all employees of Company safety policies, procedures and guidelines. Employees should recognize that the various marine transportation functions performed are inherently dangerous and no such set of instructions can be completely comprehensive, cover every eventuality or ensure a completely safe operation without the support and vigilance of all employees.

Department Managers and vessel Masters should be guided at all times by their primary responsibilities which are for the safety of those entrusted to their care, the safety of the vessel, the safety of life, the safety of the cargo and the protection of the marine environment. All other considerations are secondary to these.

Document name:	Section No.: SM-00
INTRODUCTION	Author: Safety Manager
Controlled by: Safety Manager	Revision date: Issue 00
Approved by: President	1 October 2017 Page 2 of 3

The purpose of these instructions is to provide a framework within which employees can work safely and effectively without inhibiting the use of initiative or discretion when faced with an unusual situation.

# 4.2 Knowledge of Safety Policy, Procedure and Guidelines

It is the duty of all Department Managers, vessel Masters and Mates to be familiar with the content of this manual. Those instructions relevant to other employees should be brought to their attention by the appropriate supervisor.

### 4.3 Orientation of New Employees

All newly hired Boyer Towing, Inc. employees shall complete a general company orientation prior to their first work assignment or within a reasonable timeframe. Company orientation training, as detailed in <u>PM-06-01-4.2</u>, includes a review of essential personnel and safety procedures and programs.

All newly hired Boyer Towing, Inc. employees shall also complete functional safety orientation training.

# 4.4 Periodic Safety Training

After initial orientation/certification, all Boyer Towing, Inc. employees shall complete periodic functional training to review applicable safety procedures and programs as set forth in <u>PM-06-01-4.3</u>.

### 4.5 Safety Program Responsibilities and Authority

### 4.5.1 President

The President is responsible for overseeing and supporting all aspects of the Company safety program. The President shall direct appropriate investigations of personnel injuries, shore-based motor vehicle accidents, and vessel accidents/casualties in accordance with Company procedures.

### 4.5.2 Safety Manager

The Safety Manager is responsible for developing and managing the various processes necessary to support safety management systems on Boyer Towing, Inc. vessels and operate the Company yard facility, in compliance with all safety and environmental regulations at the Federal, State, and local levels. The Safety Manager shall manage various company policies, procedures and safety training programs/manuals to keep current with regulatory agencies. The Safety Manager shall also conduct personnel injury investigations and shall assist in the other investigations as directed by senior management.

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### 4.5.3 Operations and Engineering Management

Operations and Engineering Management are responsible for coordinating vessel and personnel schedules and providing oversight to ensure daily operations at sea and ashore are conducted in compliance with company policies and procedures, and in the safest manner possible. Operations and Engineering Management may assist incident investigations as directed by senior management.

# 4.5.4 Senior Port Captain

The Senior Port Captain is responsible for overseeing and supporting daily tug/barge operations and marine personnel for all operations. The Senior Port Captain shall conduct accident investigations for incidents on marine vessels and shall assist in the other investigations as directed by senior management.

### 4.5.5 Vessel Masters

Vessel Masters are responsible for providing appropriate instruction and supervision of crewmembers and oversight to vessel operations to ensure the highest attainable level of safety is achieved. Masters are responsible for taking corrective action for observed safety violations, unsafe equipment, nonconformities and non-compliance with established policies and procedures.

### 4.5.6 All Employees

All Boyer Towing, Inc. employees are responsible to conduct their work in the safest manner possible while adhering to established safety rules, policies and procedures. All employees should consider themselves safety inspectors at all times and be alert for safety hazards and violations of safety rules and policies. These should be immediately corrected when possible and reported to their immediate supervisor as soon as possible. All injuries, accidents, damage and near-misses must be reported to the immediate supervisor as soon as possible.

# 5.0 FORMS AND RECORDS

None.

# 6.0 REFERENCES

Boyer Towing, Inc. Procedure Manual



ACHIC PHE & Marine, LPT 206 331-3873700 South Riverside DriveF 206 774-5958Seattle, WA 98108License # DACIE

License # PACIFPM922J3

# **Attachment B- Vessel Certifications**

Certificate No.: 8202583-5892380-007



Deadweight: 0

# INTERNATIONAL LOAD LINE CERTIFICATE

Issued under the provisions of the International Convention on Load Lines, 1966, as modified by the Protocol of 1988 relating thereto under the authority of the Government of

United States of America

Commandant, U.S. Coast Guard

### by American Bureau of Shipping

Name of Sh	ip	Distinctiv	e Number or Letters
LASH 4			645664
Port of Registry	Length(L) as defi	ned in Article 2(8)	IMO Number <sup>1</sup>
Kodiak, AK	153 Feet 7-	3/16 Inches	-

Freeboard Assigned as: New

Type of Ship: Type B - Reduced

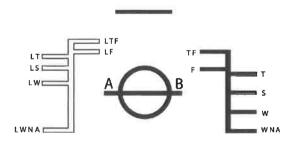
Freeboard from	Deck Line:		La	oad Line
Tropical	2 Feet 8-1/4 Inches	(T)	2-1/4 Inches	above (S)
Summer	2 Feet 10-1/2 Inches	(S)	Upper edge of line	e through center of ring
Winter	3 Feet 3/4 Inches	(W)	2-1/4 Inches	below (S)
Winter North Atlantic	3 Feet 2-3/4 Inches	(WNA)	4-1/4 Inches	below (S)
Timber Tropical	N/A	(LT)	N/A	above (LS)
Timber Summer	N/A	(LS)	N/A	above (S)
Timber Winter	N/A	(LW)	N/A	below (LS)
Timber Winter North Atlantic	N/A	(LWNA)	N/A	below (LS)
Allowance for fresh water for all	freeboards other than timber:	2-1/4 Inches		
Ear timber freeboards: N/A				

For timber freeboards: N/A

The upper edge of the deck line from which these freeboards are measured is:

### Opposite The Top of Upper Steel

deck at side.



"This certificate is valid only so long as the operating restrictions in the vessel's stability letter, issued by ABS and dated 1 June 2023, are observed. This certificate is valid for unmanned operations only."

1 In accordance with the IMO Ship Identification Number Scheme, adopted by resolution A.600(15).

### THIS IS TO CERTIFY:

- 1. That the ship has been surveyed in accordance with the requirements of article 14 of the Convention.
- 2. That the survey showed that the freeboards have been assigned and load lines shown above have been marked in accordance with the Convention.

This certificate is valid until 13 December 2027 <sup>2</sup>

Subject to the annual surveys in accordance with article 14(1)(c) of the Convention.

Completion date of the	survey on which this certificate is based:	02 March 2023		
Issued at	Seattle, Washington USA	on	12 June 2023	
	(Place of issue of certificate)		(Date of issue)	
		$\sim$		
		Electronie	Signed By	
		Cheng, Timothy 1	Tin Yuen Seattle Port	
		ASurveyor, America	en Bureau of Shipping)	
		/	SEATTLE	

### NOTES:

- 1. When a ship departs from a port situated on a river or inland waters, deeper loading shall be permitted corresponding to the weight of fuel and all other materials required for consumption between the point of departure and the sea.
- 2. When a ship is in fresh water of unit density the appropriate load line may be submerged by the amount of fresh water allowance shown above. Where the density is other than unity, an allowance shall be made proportional to the difference between 1.025 and the actual density.
- 3. It is the owner's responsibility to furnish the master with approved information and instructions for loading and ballasting this vessel to provide guidance as to stability of the vessel under varying conditions of service and to avoid unacceptable stresses in the vessel's structure, as defined in 46 CFR 42.09-1.
- 4. The Winter North Atlantic Load Line applies only to vessels of 328 ft. in length or less, which enter any part of the North Atlantic Ocean during the winter months as defined by the Load Line Regulations in 46 CFR 42.30-5 and 42.30-35. The periods during which the other seasonal load lines apply in different parts of the world are as stated in the Load Line Regulations in 46 CFR 42.30-5 to 42.30-30, inclusive.
- 5. This Load Line Certificate will be cancelled by the Commandant, U. S. Coast Guard, if...
  - a) The annual surveys have not been carried out within three months either way of each anniversary date of the certificate.
  - b) The certificate is not endorsed to show that the ship has been surveyed as indicated in (a).
  - c) Material alterations have been made to the hull or superstructures of the vessel such as would necessitate the assignment of an increased freeboard.
  - d) The fittings and appliance for the protection of the openings, guardrails, freeing ports, or the means of access to the crew's quarters have not been maintained in as effective a condition as they were when the Certificate was issued.
  - e) The structural strength of the ship is lowered to such an extent that the ship is unsafe.
- 6. When this Certificate has expired or been cancelled, it must be delivered to the Issuing Authority.



<sup>2</sup> Insert the date of expiry as specified by the Administration in accordance with article 19(1) of the Convention. The day and the month of this date correspond to the anniversary date as defined in article 2(9) of the Convention, unless amended in accordance with article 19(8) of the Convention.

Deadweight: 0

### **ENDORSEMENT FOR ANNUAL SURVEYS**

**THIS IS TO CERTIFY** that, at an annual survey required by article 14(1)(c) of the Convention, the ship was found to comply with the relevant requirements of the Convention.

Annual Survey:	Signed:	(Surveyor, American Bureau of Shipping)
	Place:	
Annual Survey:	Signed:	(Surveyor, American Bureau of Shipping)
	Place:	
Annual Survey:	Signed:	(Surveyor, American Bureau of Shipping)
	Place:	
	Date:	
Annual Survey:	Signed:	(Surveyor, American Bureau of Shipping)
	Place:	
	Date:	

### ANNUAL SURVEY IN ACCORDANCE WITH ARTICLE 19(8)(c)

**THIS IS TO CERTIFY** that, at a survey in accordance with article 19(8)(c) of the Convention, the ship was found to comply with the relevant requirements of the Convention.

	Signed:	
		(Surveyor, American Bureau of Shipping)
	Place:	
	Date:	
		CERTIFICATE IF VALID FOR ARTICLE 19(3) APPLIES
	quirements of the Conventior	and this certificate shall, in accordance with article 19(3)
ABS	Signed:	(Surveyor, American Bureau of Shipping)
	Place:	

Certificate No.: 8202583-5892380-007

Deadweight: 0

### ENDORSEMENT WHERE THE RENEWAL SURVEY HAS BEEN COMPLETED AND ARTICLE 19(4) APPLIES

The ship complies with the relevant requirements of the Convention, and this certificate shall, in accordance with article 19(4) of the Convention, be accepted as valid until

Signed:

(Surveyor, American Bureau of Shipping)

Place:

Date:

### ENDORSEMENT TO EXTEND THE VALIDITY OF THE CERTIFICATE UNTIL REACHING THE PORT OF SURVEY OR FOR A PERIOD OF GRACE WHERE ARTICLE 19(5) OR 19(6) APPLIES

This certificate shall, in accordance with article 19(5)/19(6)<sup>3</sup> of the Convention, be accepted as valid until

Signed:

(Surveyor, American Bureau of Shipping)

Place:

Date:

### ENDORSEMENT FOR ADVANCEMENT OF ANNIVERSARY DATE WHERE ARTICLE 19(8) APPLIES

In accordance with article 19(8) of the Convention, the new anniversary date is



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DHS, USCG, CG-1270 (REV. 01-23) **UNITED STATES OF AMERICA** 

OMB APPROVED 1625-0027

### DEPARTMENT OF HOMELAND SECURITY **UNITED STATES COAST GUARD**

NATIONAL VESSEL DOCUMENTATION CENTER

# **CERTIFICATE OF DOCUMENTATION**

VESSEL NAME	AME OFFICIAL NUMBER IMO OR OTHER I		THER NUMBER	YEAR COMPLETED	
JENNIFER H		1022583 9402			1994
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		DIRECTOR, NATION	AL VESSEL DOC	UMENTATION CEN	11ER 4190

PREVIOUS EDITION OBSOLETE, THIS CERTIFICATE MAY NOT BE ALTERED

This certificate is not valid for operation of the vessel until the vessel is marked with the name, official number, and hailing port as shown on the certificate. The original certificate must be kept aboard the vessel at all times when in operation and must be presented upon the demand of federal, state or local officials for law enforcement purposes. Vessels with only a recreational endorsement may not engage in commercial trade.

Documented vessels may be registered by states for tax and other purposes and may be required to display a state decal. Renewal is the responsibility of the owner. This certificate becomes invalid upon a change in ownership, change in state of incorporation, or a change in any other element shown on the certificate other than change of address. This certificate is invalid for any vessel other than one documented solely for recreation when the vessel is placed under the command of a person who is not a citizen of the U.S. The vessel and its equipment are liable to seizure and forfeiture to the U.S. government and the owner is liable for a civil penalty of not more than \$10,000.00 per violation. Each day of a continuing violation is a separate violation.

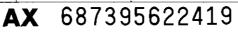
Any change in address of the managing owner must be reported promptly to the NVDC. You may contact NVDC at nvdc.w.webmaster@uscg.mil.

**Note:** The certificate on the face of this document is not conclusive evidence of title in any proceeding where ownership is in issue. Complete records are on file at the NVDC. The sale or transfer section below is provided for convenience only.

#### SALE OR TRANSFER OF VESSEL

100% OF THE VESSEL IDENTIFIED HEREIN IS SOLD (TRANSFERRED) BY THE OWNER(S) NAMED ON THE FACE OF THIS CERTIFICATE TO THE	
FOLLOWING PERSON(S). ADDRESS MUST BE INCLUDED.	

EQU	SOLD (TRANSFERRED) TO MORE THAN ONE PERSON, THE PURCHASER(S)/TRANSFEREE(S) ARE TENANTS IN COMMON, EACH OWNING AN JAL UNDIVIDED INTEREST, UNLESS OTHERWISE INDICATED HEREIN: CHECK ONLY ONE OF THE FOLLOWING BLOCKS TO SHOW ANOTHER RM OF OWNERSHIP.
	JOINT TENANCY WITH RIGHT OF SURVIVORSHIP TENANCY BY THE ENTIRETIES COMMUNITY PROPERTY
	OTHER
SIG	NATURE OF SELLER(S)/TRANSFEROR(S) OR PERSONS SIGNING ON BEHALF OF SELLER(S)/TRANSFEROR(S):
	DATE SIGNED:
NAN	ME(S) OF PERSON(S) SIGNING ABOVE, AND LEGAL CAPACITY IN WHICH SIGNED (E.G. OWNER, AGENT, TRUSTEE, EXECUTOR)
	KNOWLEDGMENT (TO BE COMPLETED BY NOTARY PUBLIC OR OTHER OFFICIAL AUTHORIZED BY A LAW OR A STATE OR E UNITED STATES TO TAKE OATHS.)
IIIL	STATE:
	ON THE PERSON(S) NAMED COUNTY:
	ABOVE ACKNOWLEDGED EXECUTION OF THE FOREGOING INSTRUMENT
	IN THEIR STATED CAPACITY(IES) FOR THE PURPOSES THEREIN CONTAINED.
	NOTARY PUBLIC MY COMMISSION EXPIRES:
	PRIVACY ACT STATEMENT
IN A	ACCORDANCE WITH 5 USC 552(A). THE FOLLOWING INFORMATION IS PROVIDED TO YOU WHEN SUPPLYING PERSONAL INFORMATION TO THE U.S. COAST GUARD:
1.	AUTHORITY. SOLICITATION OF THIS INFORMATION IS AUTHORIZED BY 46 USC CHAPTER 313 AND 46 CFR, PART 67.
2.	THE PRINCIPAL PURPOSES FOR WHICH THIS INSTRUMENT IS TO BE USED ARE:
	<ul> <li>(A) TO PROVIDE A RECORD, AVAILABLE FOR PUBLIC INSPECTION AND COPYING, OF THE SALE OR OTHER CHANGE IN OWNERSHIP OF A VESSEL WHICH IS DOCUMENTED, WILL BE DOCUMENTED, OR HAS BEEN DOCUMENTED PURSUANT TO 46 USC. CHAPTER 121.</li> <li>(B) RETENTION FOR EXAMINATION BY GOVERNMENTAL AUTHORITIES AND MEMBERS OF THE GENERAL PUBLIC.</li> </ul>
3.	THE ROUTINE USE WHICH MAY BE MADE OF THIS INFORMATION INCLUDES DEVELOPMENT OF STATISTICAL DATA CONCERNING DOCUMENTED VESSELS.
4.	DISCLOSURE OF THE INFORMATION REQUESTED ON THIS FORM IS VOLUNTARY. HOWEVER, FAILURE TO PROVIDE THE INFORMATION COULD PRECLUDE FILINO OF A BILL OF SALE AND DOCUMENTATION OF THE VESSEL NAMED HEREIN PURSUANT TO 46 USC CHAPTER 121. MOREOVER, BILLS OF SALE WHICH ARE NOT FILED ARE NOT DEEMED TO BE VALID AGAINST ANY PERSON HAVING ACTUAL KNOWLEDGE OF THE SALE. (46 USC 31321 (A)).
	AN AGENCY MAY NOT CONDUCT OR SPONSOR, AND A PERSON IS NOT REQUIRED TO RESPOND TO A COLLECTION OF INFORMATION UNLESS IT DISPLAYS A VALID OMB CONTROL NUMBER.
	THE COAST GUARD ESTIMATES THAT THE AVERAGE BURDEN FOR THIS FORM IS 20 MINUTES FOR COMPLETING AND 3 MINUTES FOR FILING. YOU MAY SUBMIT ANY COMMENTS CONCERNING THE ACCURACY OF THIS BURDEN ESTIMATE OR ANY SUGGESTIONS FOR REDUCING THE BURDEN TO: U.S. COAST GUARD, NATIONAL VESSEL DOCUMENTATION CENTER, 792 T J JACKSON DRIVE, FALLING WATERS, WEST VIRGINIA 25419 OR OFFICE OF MANAGEMENT AND BUDGET, PAPERWORK REDUCTION PROJECT (1625-0027), WASHINGTON, DC 20503.





United States of America Department of Homeland Security United States Coast Guard Certification Date:12 Jan 2024Expiration Date:12 Jan 2029

# **Certificate of Inspection**

For ships on international voyages this cartificate fulfills the requirements of SOLAS 74 as amended, regulation V/14, for a SAFE MANNING DOCUMENT.

Vessel Name			Official Number	IMC	) Number	Call Sign	Service			
JENNIFER H	4		1022583			WDC3573	Towing \	/essel		
							U			
						,				
Hailing Port			Hull Material		Horsepower	Propulsion				
KETCHIKAN	I, AK						duction			
			Steel		800	Diesel Re	duction			
UNITED STA	ATES									
Place Built			Delivery Data	Keet Laid Date	e Gross Tons	Net Tons	DWT	Length		
EVERETT, V	VA		Delivery Date	veer cain pair	R-87	R-87	Divit	R-64.0		
,			01Jun1994	01Jan199	∂4 <sup>(,,,,</sup> ,	F		I-0		
UNITED STA	ATES				•					
Owner				0	perator					
BOYER TOW	VING. INC.				OYER TOWIN	IG. INC.				
	ELINE DRIVE	PO BOX 80	00			NE DRIVE PO	BOX 8000			
KETCHIKAN					(ETCHIKAN, A					
UNITED STA	TES			L	JNITED STATE	ES				
			llowing licensed				hich there mus	st be		
1 Certified Lif	reboatmen, U (	Jertified I ar	kermen, 0 HSC	Type Rati	-					
1 Masters		1 Licensed M		Engineers	00	Dilers				
0 Chief Mate	s	0 First Class	Pilots 0 First	Assistant Eng	gineers					
0 Second Ma	ates	0 Radio Offic	ers 0 Seco	nd Assistant I	Engineers					
0 Third Mates	s	0 Able Seame	en 0 Third	Assistant En	gineers					
0 Master Firs	t Class Pilot	0 Ordinary Se	eamen 0 Licen	sed Engineer	s					
0 Mate First (		2 Deckhands		fied Member	_					
		carry 0 Pas	sengers, 0 Othe	r Persons i	n crew, 0 Perso	ons in addition to	o crew, and no	Others. Total		
Persons allov	ved: 4									
Route Perm	nitted And Co	nditions Of	Operation:							
Lakes.	Bays, and	Sounds-								
WHEN OPERATI	ING LESS THAN	12 HOURS	IN ANY 24 HOUR DECKHANDS MAY	PERIOD ON	N A LAKES, BA	YS AND SOUNDS	VOYAGE, THE	LICENSED MATE		
PERSONS IN 7	THE CREW, TWO	(2) PERSO	NS IN ADDITION	TO THE CI	REW, AND NO O	THERS. TOTAL P	PERSONS ALLOW	ED FOUR (4).		
								ATED PERSON IN		
CHARGE.	ERRING FUEL	UIL, A CER	IIPIED IANKERM	IAN OR LICI	ENSED OFFICER	SHADE SERVE P	AD THE DESIGN	RIED IEROON IN		
***SEE NE>	XT PAGE FO	R ADDITIC	NAL CERTIFIC	CATE INFO	ORMATION***	*				
With this Insp	ection for Cert	ification hav	ing been comple	eted at SE/	ATTLE, WA, U	NITED STATES	S, the Officer in	n Charge, Marine		
Inspection, SI	ECTOR PUGE	T SOUND	certified the ves	sel, in all re	spects, is in co	nformity with the	e applicable ve	ssal inspection		
laws and the	Iaws and the rules and regulations prescribed thereunder.           Annual/Periodic/Re-Inspection         This Amended certificate issued by:									
			spection				÷ /	Chandle specifier following organized field in at the Uppert field and sector		
Date	Zone	A/P/R	Signatu	ire	M. D.	TAPPAN Jr., C	DR, USCG, B	y Direction		
					Officer in Charge, N	larine Inspection				
				{		SECTOR P	UGET SOUN!	2		
					Inspection Zone					



United States of America Department of Homeland Security United States Coast Guard Certification Date:12 Jan 2024Expiration Date:12 Jan 2029

# Certificate of Inspection

Vessel Name: JENNIFER H

Hull Exams					
Exam Type	Next Exam		Last Exam	Prior I	Exam
DryDock	31Jan2027		24Jan2024	28Jan	2022
Internal Structure	31Jan2027		24Jan2024	28Jan	2022
Lifesaving Equipme	nt				
Total Equipment for 4 Persons					
Primary Lifesaving Equipment	Qua	ntity Capac	ity		Required
Lifeboats (Total)	0	0	Life Preser	vers (Adult)	4
Lifeboats (Port)	0	0	Life Preser	vers (Child)	0
Lifeboats (Starboard)	0	0	Ring Buoys	(Total)	2
Motor Lifeboats	0	0	With I	_ights	2
Lifeboats With Radio	0	0	With I	_ine Attached	1
Rescue Boats/Platforms	0	0	Other		0
Inflatable Rafts	1	4	Immersion	Suits	4
Life Floats/Buoyant App	0	0	Portable Lif	eboat Radios	0
Inflatable Buoyant Apparatus (	(IBA) 0	0	Equipped V	Vith EPIRB?	NO
Fire Fighting Equip	ment				
Number of Fire Pumps - 1					
-					
*Hose Information*		Quantity	Diameter	Length	
FWD STBD BRIDGE DECK		1	1.5	50	
*Fire Extinguishers - Hand p	ortable and sem				
Quantity		Class Type 10-B:C			
1					
1		160-B			
5		40-B:C			
Certificate Amendm	ents				
Amending Unit	Amendment Da	te Amendm	ent Remark		
Sector Puget Sound	07Feb2024	Amendin	g COI to reflect curr	ent DDX ISE date	S.
Sector Fuger Sound					

# BOYER TOWING, INC.

P.O. Box 8000 Ketchikan, Alaska 99901 Phone (206) 763-8696 Fax (206) 767-9517



# JENNIFER H.

Radio Call Sign: WDC 3573

Official No:	1022583
Dimensions:	65' X 22' X 7'
Main Propulsion:	Twin C18 Caterpillar - 938 h.p. total
Reduction Gears:	Twin Disc 514 - 4.5:1 ratio
Propellers:	44" x 44" - 4 Blade S.S. Type 19
Generators:	Deutz F3-6L 912/w (35kw)
Bollard Pull:	(Calculated) 10.3 Tons

CERT		L VESSEL DOC			
VLILI					
ESSEL NAME		OFFICIAL NUMBER		OTHER NUMBER	YEAR COMPLETED
ALLE H		273081 HULL MATERIAL	4154		1957 MECHANICAL PROPULSION
ETCHIKAN AK		STEEL		Sales States	YES
ROSS TONNAGE	NET TONNAGE	L	ENGTH	BREADTH	DEPTH
	25 NRT		44.7	17.0	5.8
7 GRT LACE BUILT	23 NR1	~	$\sim$	17.0	0.0
PORTLAND OR	(A) A			$\lambda$ ( $\cap$ )	
WNERS	+++++	OPERAT	TIONAL ENDOP	RSEMENTS	1
OYER TOWING INC	SY .	REGIST			
		COASTV	WISE (		
		A Dar Hannie			
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	A C	SEMP	ER	BN/	$\mathcal{S}$
	Ă	SEMP	ER	SX (	
	<i>A</i>	SEMP	ER	2X	$\geq$
	₩ <sup>2</sup>		ER	3	$\geq$
			ER Y	2	
BOYER TOWING INC			58		
OYER TOWING INC 061 SHORELINE DR 0 BOX 8000		S EMP			
BOYER TOWING INC 061 SHORELINE DR 20 BOX 8000				S CLA	
BOYER TOWING INC 061 SHORELINE DR 20 BOX 8000			D		
OYER TOWING INC 1061 SHORELINE DR PO BOX 8000 KETCHIKAN AK 99901			5 R		
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BOYER TOWING INC 1061 SHORELINE DR 20 BOX 8000 KETCHIKAN AK 99901 RESTRICTIONS	A.				
OYER TOWING INC 061 SHORELINE DR 00 BOX 8000 XETCHIKAN AK 99901 XESTRICTIONS	No the		D		
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BOYER TOWING INC 1061 SHORELINE DR 20 BOX 8000 XETCHIKAN AK 99901 ESTRICTIONS NONE			ER Y		
OYER TOWING INC 061 SHORELINE DR 20 BOX 8000 CETCHIKAN AK 99901 ESTRICTIONS IONE NTITLEMENTS					
BOYER TOWING INC 1061 SHORELINE DR 20 BOX 8000 XETCHIKAN AK 99901 EESTRICTIONS NONE NONE					
BOYER TOWING INC 1061 SHORELINE DR 20 BOX 8000 KETCHIKAN AK 99901 RESTRICTIONS NONE INTITLEMENTS NONE					
BOYER TOWING INC 1061 SHORELINE DR 20 BOX 8000 XETCHIKAN AK 99901 EESTRICTIONS 10NE INTITLEMENTS 10NE EEMARKS					
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OYER TOWING INC 0061 SHORELINE DR 20 BOX 8000 SETCHIKAN AK 99901 ESTRICTIONS IONE NTITLEMENTS IONE EMARKS					
OYER TOWING INC 0061 SHORELINE DR 20 BOX 8000 SETCHIKAN AK 99901 ESTRICTIONS IONE NTITLEMENTS IONE EMARKS					
OYER TOWING INC 0061 SHORELINE DR PO BOX 8000 XETCHIKAN AK 99901 ESTRICTIONS NONE INTITLEMENTS NONE EEMARKS NONE					
OYER TOWING INC 1061 SHORELINE DR 20 BOX 8000 SETCHIKAN AK 99901 IESTRICTIONS IONE IONE IEMARKS IONE IONE IONE					
BOYER TOWING INC 1061 SHORELINE DR 20 BOX 8000 XETCHIKAN AK 99901 EESTRICTIONS 10NE INTITLEMENTS 10NE IEMARKS 10NE IEMARKS 10NE					
BOYER TOWING INC BOYER TOWING INC BOYER TOWING INC BOYER TOWING INC PO BOX 8000 KETCHIKAN AK 99901 RESTRICTIONS NONE REMARKS NONE REMARKS NONE REMARKS NONE REMARKS NONE					
MANAGING OWNER BOYER TOWING INC 5061 SHORELINE DR PO BOX 8000 (ETCHIKAN AK 99901 RESTRICTIONS NONE REMARKS NONE REMARKS NONE SSUE DATE JUNE 27, 2023 THIS CERTIFICATE EXPIRE	RES				
BOYER TOWING INC BOYER TOWING INC BOYER TOWING INC BOYER TOWING INC PO BOX 8000 KETCHIKAN AK 99901 RESTRICTIONS NONE REMARKS NONE REMARKS NONE REMARKS NONE REMARKS NONE	RES	Chuitan H.	12.10		

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PREVIOUS EDITION OBSOLETE, THIS CERTIFICATE MAY NOT BE ALTERED

This certificate is not valid for operation of the vessel until the vessel is marked with the name, official number, and hailing port as shown on the certificate. The original certificate must be kept aboard the vessel at all times when in operation and must be presented upon the demand of federal, state or local officials for law enforcement purposes. Vessels with only a recreational endorsement may not engage in commercial trade. Documented vessels may be registered by states for tax and other purposes and may be required to display a state decal. Renewal is the responsibility of the owner. This certificate becomes invalid upon a change in ownership, change in state of incorporation, or a change in any other element shown on the certificate other than change of address. This certificate is invalid for any vessel other than one documented solely for recreation when the vessel is placed under the command of a person who is not a citizen of the U.S. The vessel and its equipment are liable to seizure and forfeiture to the U.S. government and the owner is liable for a civil penalty of not more than \$10,000.00 per violation. Each day of a continuing violation is a separate violation. Any change in address of the managing owner must be reported promptly to the NVDC. You may contact us at nvdc.w.webmaster@uscg.mil. Note: The certificate on the face of this document is not conclusive evidence of title in any proceeding where ownership is in issue. Complete records are on file at the NVDC. The sale or transfer section below is provided for convenience only. SALE OR TRANSFER OF VESSEL 100% OF THE VESSEL IDENTIFIED HEREIN IS SOLD (TRANSFERRED) BY THE OWNER(S) NAMED ON THE FACE OF THIS CERTIFICATE TO THE FOLLOWING PERSON(S). ADDRESS MUST BE INCLUDED. IF SOLD (TRANSFERRED) TO MORE THAN ONE PERSON, THE PURCHASER(S)/TRANSFEREE(S) ARE TENANTS IN COMMON, EACH OWNING AN EQUAL UNDIVIDED INTEREST, UNLESS OTHERWISE INDICATED HEREIN: CHECK ONLY ONE OF THE FOLLOWING BLOCKS TO SHOW ANOTHER FORM OF OWNERSHIP. JOINT TENANCY WITH RIGHT OF SURVIVORSHIP TENANCY BY THE ENTIRETIES COMMUNITY PROPERTY OTHER SIGNATURE OF SELLER(S)/TRANSFEROR(S) OR PERSONS SIGNING ON BEHALF OF SELLER(S)/TRANSFEROR(S): DATE SIGNED: NAME(S) OF PERSON(S) SIGNING ABOVE, AND LEGAL CAPACITY IN WHICH SIGNED (E.G. OWNER, AGENT, TRUSTEE, EXECUTOR) ACKNOWLEDGMENT (TO BE COMPLETED BY NOTARY PUBLIC OR OTHER OFFICIAL AUTHORIZED BY A LAW OR A STATE OR THE UNITED STATES TO TAKE OATHS.) STATE: ON\_ \_ THE PERSON(S) NAMED COUNTY (DATE) ABOVE ACKNOWLEDGED EXECUTION OF THE FOREGOING INSTRUMENT IN THEIR STATED CAPACITY(IES) FOR THE PURPOSES THEREIN CONTAINED. NOTARY PUBLIC MY COMMISSION EXPIRES: PRIVACY ACT STATEMENT IN ACCORDANCE WITH 5 USC 552(A). THE FOLLOWING INFORMATION IS PROVIDED TO YOU WHEN SUPPLYING PERSONAL INFORMATION TO THE U.S. COAST GUARD: AUTHORITY. SOLICITATION OF THIS INFORMATION IS AUTHORIZED BY 46 USC CHAPTER 313 AND 46 CFR, PART 67. 1. 2. THE PRINCIPAL PURPOSES FOR WHICH THIS INSTRUMENT IS TO BE USED ARE: (A) TO PROVIDE A RECORD, AVAILABLE FOR PUBLIC INSPECTION AND COPYING, OF THE SALE OR OTHER CHANGE IN OWNERSHIP OF A VESSEL WHICH IS DOCUMENTED, WILL BE DOCUMENTED, OR HAS BEEN DOCUMENTED PURSUANT TO 46 USC, CHAPTER 121. (B) RETENTION FOR EXAMINATION BY GOVERNMENTAL AUTHORITIES AND MEMBERS OF THE GENERAL PUBLIC. THE ROUTINE USE WHICH MAY BE MADE OF THIS INFORMATION INCLUDES DEVELOPMENT OF STATISTICAL DATA CONCERNING DOCUMENTED VESSELS. 3. DISCLOSURE OF THE INFORMATION REQUESTED ON THIS FORM IS VOLUNTARY. HOWEVER, FAILURE TO PROVIDE THE INFORMATION COULD PRECLUDE 4. FILING OF A BILL OF SALE AND DOCUMENTATION OF THE VESSEL NAMED HEREIN PURSUANT TO 46 USC CHAPTER 121. MOREOVER, BILLS OF SALE WHICH ARE NOT FILED ARE NOT DEEMED TO BE VALID AGAINST ANY PERSON HAVING ACTUAL KNOWLEDGE OF THE SALE. (46 USC 31321 (A)). AN AGENCY MAY NOT CONDUCT OR SPONSOR, AND A PERSON IS NOT REQUIRED TO RESPOND TO A COLLECTION OF INFORMATION UNLESS IT DISPLAYS A VALID OMB CONTROL NUMBER. THE COAST GUARD ESTIMATES THAT THE AVERAGE BURDEN FOR THIS FORM IS 20 MINUTES FOR COMPLETING AND 5 MINUTES FOR FILING, YOU MAY SUBMIT ANY COMMENTS CONCERNING THE ACCURACY OF THIS BURDEN ESTIMATE OR ANY SUGGESTIONS FOR REDUCING THE BURDEN TO: U.S. COAST GUARD, NATIONAL VESSEL DOCUMENTATION CENTER. 792 T J JACKSON DRIVE, FALLING WATERS, WEST VIRGINIA 25419 OR OFFICE OF MANAGEMENT AND BUDGET, PAPERWORK REDUCTION PROJECT (1625-0027), WASHINGTON, DC 20503 AW 671899922419



**United States of America Department of Homeland Security United States Coast Guard** 

Certification Date: 29 Apr 2022 Expiration Date: 29 Apr 2027

# For ships on international voyages this certificate fulfills the requirements of SOLAS 74 as amended, regulation V/14, for a SAFE MANNING DOCUMENT.

Vessel Name			Official Number		IMO N	lumber	Call Sign Service		
HALLE H			273081				WDF5275	Towing <b>Y</b>	Vessel
Hailing Port			Hull Ma	terial	н	orsepower	Propulsion		
	I, AK		Steel	1	R	800	Diesel Red	luction	
			01001				Dieserriee		
UNITED STA	ATES								
Place Built			Delivery Dat	te ł	Keel Laid Date	Gross Tons	Net Tons	DWT	Length
PORTLAND	, OR		01 11	057		R-37	R-25		R-44.7
			01Jan1	957		I-	ŀ-		I-0
UNITED STA	ATES								
Owner					Ope	erator			
BOYER TOW						OYER TOWIN			
		X 8000				18 4TH AVE			
KETCHIKAN						EATTLE, WA 9 NITED STATE			
					01		.0		
This vessel m	nust be manned w	ith the fo	ollowina lice	nsed a	nd unlicen	sed Personnel	. Included in w	hich there mu	st be
0 Certified Lif	feboatmen, 0 Cerl	ified Tai	nkermen, 0	HSC T	ype Rating	g, and 0 GMD	SS Operators.		
1 Masters	1 L	icensed M	ates 0	Chief Er	ngineers	0 0	vilers		
0 Chief Mate	s 0F	irst Class	Pilots 0	First As	sistant Engir	neers			
0 Second Ma	ates 0 R	adio Offic	ers 0	Second	Assistant Er	ngineers			
0 Third Mate	s 0A	ble Seam			ssistant Engi	•			
0 Master Firs	t Class Pilot 0 C	ordinary Se	eamen 0	License	d Engineers				
0 Mate First (		eckhands		Qualifie	d Member Ei	ngineer			
In addition, th	is vessel may car	ry 0 Pas	sengers, 0 (	Other F	Persons in	crew, 0 Perso	ns in addition to	crew, and no	Others. Total
Persons allov	ved: 4	-	-						
Route Perm	nitted And Condit	ions Of	Operation:						
Lakes.	Bays, and So	unds-							
,									
NOT ON AN IN	NTERNATIONAL VOY	AGE.							
VESSEL IS LI	IMITED TO 3 NM F	ROM SHO	RE.						
WHEN OPERATI	IONS ARE 12 HOUR	S OR LE	SS IN ANY	24 HOU	R PERIOD,	, THE LICENSE	D MATE AND ON	E (1) OF THE	DECKHANDS ARE
NOT REQUIRED	Ο.								
WHEN APPLYIN	IG THE ABOVE MAN	NING RE	DUCTION, T	НЕ МАХ	IMUM NUME	BER OF PERSON	IS IN ADDITION	TO THE CREW	I MAY BE
INCREASED SC	D LONG AS THE TO	TAL NUM	BER OF PER	SONS C	N BOARD I	DOES NOT EXCE	ED FOUR (4).		
***SEE NEX	XT PAGE FOR A	סודוסס	NAL CERT			RMATION***			
									harma Marina
	ection for Certifica								
	rules and regulation				i, in air 100		nonnity with the		
	Annual/Period					This certificat	e issued by:		
Date	Zone	A/P/R	Sia	nature			-	BERT, CAPT	
			-·•			Officer in Charge, Ma		, _, ., .	
								JGET SOUNI	D
						Inspection Zone			
	1	1							



### United States of America Department of Homeland Security United States Coast Guard

Certification Date: 29 Apr 2022 Expiration Date: 29 Apr 2027

## Certificate of Inspection

#### Vessel Name: HALLE H

WHEN OPERATING ON A ROUTE NOT SUBJECT TO STCW, ONE (1) CREWMEMBER PRACTICED IN THE HANDLING AND OPERATION OF LIFERAFTS MAY BE PLACED IN CHARGE OF THE LIFERAFTS AS PROVIDED FOR IN 46 CFR 199.100, INCORPORATED THROUGH 46 CFR 15.845(A). ARRANGEMENTS FOR ALTERNATE TRAINING ARE BASED ON COMPANY TRAINING PROVIDED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS FOR LAUNCHING.

### ---Hull Exams----

Exam Type	Next Exam	Last Exam	Prior Exam
DryDock	30Apr2025		
Internal Structure	30Apr2025		

### ---Lifesaving Equipment---

Total Equipment for 4 Persons

Primary Lifesaving Equipment	Quantity	Capacity		Required
Lifeboats (Total)	0	0	Life Preservers (Adult)	6
Lifeboats (Port)	0	0	Life Preservers (Child)	0
Lifeboats (Starboard)	0	0	Ring Buoys (Total)	2
Motor Lifeboats	0	0	With Lights	2
Lifeboats With Radio	0	0	With Line Attached	1
Rescue Boats/Platforms	0	0	Other	0
Inflatable Rafts	1	4	Immersion Suits	6
Life Floats/Buoyant App	0	0	Portable Lifeboat Radios	0
Inflatable Buoyant Apparatus (IBA)	0	0	Equipped With EPIRB?	YES

### --- Fire Fighting Equipment ---

Number of Fire Pumps - 1

### \*Hose Information\*

Location	Quantity	Diameter	Length
3rd Deck	1	1.5	50

### \*Fire Extinguishers - Hand portable and semi-portable\*

Quantity	Class Type
3	10-B:C
1	160-B
1	40-B

\*\*\*END\*\*\*

### BOYER TOWING, INC.

P.O. Box 8000 Ketchikan, Alaska 99901 Phone (206) 763-8696 Fax (206) 767-9517



### HALLE H.

Radio Call Sign: WDF 5275

Cell No. 206-790-6070

Satellite Phone No. N/A

Official No:	273081
IMO No:	4154
Dimensions:	50' X 18' X 7'
Class:	N/A
Main Propulsion:	Two 12v-71, 700 h.p @1,800 RPM
Reduction Gears:	Twin Disc MG514 – 4.5:1 Ratio
Propellers:	54" x 37" S.S
Generators:	Duetz 20kw
Bollard Pull:	7.6 Tons
Tow Wire:	N/A
Under Rider:	N/A

			50) o (@	<u>()                                    </u>		
DHS, USCG, CG-1270 (REV. 01	-23)	STATE	COF	AMEDI	OMB APPROVED 1625-0027	
UIV SAUN	MIED	SIAIE	SUL	AMERI	ICA	
	DEPAR	TMENT OF H	OMELAND	SECURITY		
		NITED STATES				
	NATIONA	I VESSEL DO	CUMENTAT	ION CENTED		
		L VESSEL DO				
CERT	'IFICA	TEOF	DOCL	JMENT	ATION	
VESSEL NAME		OFFICIAL NUMBER		OTHER NUMBER	YEAR COMPLETED	
GRETCHEN H		1056824	8964587		1997	
HAILING PORT		HULL MATERIAL			MECHANICAL PROPULSION	
KETCHIKAN AK		STEEL		YE		
GROSS TONNAGE	NET TONNAGE		LENGTH	BREADTH	DEPTH	
205 GT ITC	61 NT ITC					
96 GRT PLACE BUILT	65 NRT	<u> </u>	80.6	30.0	11.1	
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PREVIOUS EDITION OBSOLETE, THIS CERTIFICATE MAY NOT BE ALTERED

14 H

This certificate is not valid for operation of the vessel until the vessel is marked with the name, official number, and hailing port as shown on the certificate. The original certificate must be kept aboard the vessel at all times when in operation and must be presented upon the demand of federal, state or local officials for law enforcement purposes. Vessels with only a recreational endorsement may not engage in commercial trade.

Documented vessels may be registered by states for tax and other purposes and may be required to display a state decal. Renewal is the responsibility of the owner. This certificate becomes invalid upon a change in ownership, change in state of incorporation, or a change in any other element shown on the certificate other than change of address. This certificate is invalid for any vessel other than one documented solely for recreation when the vessel is placed under the command of a person who is not a citizen of the U.S. The vessel and its equipment are liable to seizure and forfeiture to the U.S. government and the owner is liable for a civil penalty of not more than \$10,000.00 per violation. Each day of a continuing violation is a separate violation.

Any change in address of the managing owner must be reported promptly to the NVDC. You may contact NVDC at nvdc.w.webmaster@uscg.mil.

**Note:** The certificate on the face of this document is not conclusive evidence of title in any proceeding where ownership is in issue. Complete records are on file at the NVDC. The sale or transfer section below is provided for convenience only.

#### SALE OR TRANSFER OF VESSEL

100% OF THE VESSEL IDENTIFIED HEREIN IS SOLD (TRANSFERRED) BY THE OWNER(S) NAMED ON THE FACE OF THIS CERTIFICATE TO THE FOLLOWING PERSON(S). ADDRESS MUST BE INCLUDED.

IF SOLD (TRANSFERRED) TO MORE THAN ONE PERSON, THE PURCHASER(S)/TRANSFEREE(S) ARE TENANTS IN COMMON, EACH OWNING A EQUAL UNDIVIDED INTEREST, UNLESS OTHERWISE INDICATED HEREIN: CHECK ONLY ONE OF THE FOLLOWING BLOCKS TO SHOW ANOTHE FORM OF OWNERSHIP.
JOINT TENANCY WITH RIGHT OF SURVIVORSHIP       TENANCY BY THE ENTIRETIES       COMMUNITY PROPERTY         OTHER       OTHER
SIGNATURE OF SELLER(S)/TRANSFEROR(S) OR PERSONS SIGNING ON BEHALF OF SELLER(S)/TRANSFEROR(S):
SIGNATORE OF SEEELK(S)/TRANSFEROR(S) OR FERSONS SIGNING ON BEITHEF OF SEEELK(S)/TRANSFEROR(S).
DATE SIGNED: NAME(S) OF PERSON(S) SIGNING ABOVE, AND LEGAL CAPACITY IN WHICH SIGNED (E.G. OWNER, AGENT, TRUSTEE, EXECUTOR)
MAME(3) OF PERSON(3) SIGNING ABOVE, AND LEGAL CAPACITY IN WITCH SIGNED (E.G. OWNER, AGENT, INDSTEE, EALCOTOR)
ACKNOWLEDGMENT (TO BE COMPLETED BY NOTARY PUBLIC OR OTHER OFFICIAL AUTHORIZED BY A LAW OR A STATE OR
THE UNITED STATES TO TAKE OATHS.) STATE:
ON THE PERSON(S) NAMED COUNTY:
(DATE) COUNTY:
ABOVE ACKNOWLEDGED EXECUTION OF THE FOREGOING INSTRUMENT IN THEIR STATED CAPACITY(IES) FOR THE PURPOSES THEREIN CONTAINED.
NOTARY PUBLIC MY COMMISSION EXPIRES:
MY COMMISSION EXPIRES: PRIVACY ACT STATEMENT
MY COMMISSION EXPIRES: PRIVACY ACT STATEMENT IN ACCORDANCE WITH 5 USC 552(A). THE FOLLOWING INFORMATION IS PROVIDED TO YOU WHEN SUPPLYING PERSONAL INFORMATION TO THE U.S. COAST GUARD:
MY COMMISSION EXPIRES: PRIVACY ACT STATEMENT IN ACCORDANCE WITH 5 USC 552(A). THE FOLLOWING INFORMATION IS PROVIDED TO YOU WHEN SUPPLYING PERSONAL INFORMATION TO THE U.S. COAST GUARD: 1. <u>AUTHORITY</u> . SOLICITATION OF THIS INFORMATION IS AUTHORIZED BY 46 USC CHAPTER 313 AND 46 CFR. PART 67.
MY COMMISSION EXPIRES:         MY COMMISSION EXPIRES:         PRIVACY ACT STATEMENT         IN ACCORDANCE WITH 5 USC 552(A). THE FOLLOWING INFORMATION IS PROVIDED TO YOU WHEN SUPPLYING PERSONAL INFORMATION TO THE U.S. COAST GUARD:         1.       AUTHORITY. SOLICITATION OF THIS INFORMATION IS AUTHORIZED BY 46 USC CHAPTER 313 AND 46 CFR. PART 67.         2.       THE PRINCIPAL PURPOSES FOR WHICH THIS INSTRUMENT IS TO BE USED ARE:         (A)       TO PROVIDE A RECORD, AVAILABLE FOR PUBLIC INSPECTION AND COPYING. OF THE SALE OR OTHER CHANGE IN OWNERSHIP OF A VESSEL WHICH IS DOCUMENTED, WILL BE DOCUMENTED, OR HAS BEEN DOCUMENTED PURSUANT TO 46 USC, CHAPTER 121.
MY COMMISSION EXPIRES:         MY COMMISSION EXPIRES:         IN ACCORDANCE WITH 5 USC 552(A). THE FOLLOWING INFORMATION IS PROVIDED TO YOU WHEN SUPPLYING PERSONAL INFORMATION TO THE U.S. COAST GUARD:         1.       AUTHORITY. SOLICITATION OF THIS INFORMATION IS AUTHORIZED BY 46 USC CHAPTER 313 AND 46 CFR. PART 67.         2.       THE PRINCIPAL PURPOSES FOR WHICH THIS INSTRUMENT IS TO BE USED ARE:         (A)       TO PROVIDE A RECORD, AVAILABLE FOR PUBLIC INSPECTION AND COPYING. OF THE SALE OR OTHER CHANGE IN OWNERSHIP OF A VESSEL WHICH IS DOCUMENTED. WILL BE DOCUMENTED, OR HAS BEEN DOCUMENTED PURSUANT TO 46 USC, CHAPTER 121.         (B)       RETENTION FOR EXAMINATION BY GOVERNMENTAL AUTHORITIES AND MEMBERS OF THE GENERAL PUBLIC.
MY COMMISSION EXPIRES:         PRIVACY ACT STATEMENT         IN ACCORDANCE WITH 5 USC 552(A). THE FOLLOWING INFORMATION IS PROVIDED TO YOU WHEN SUPPLYING PERSONAL INFORMATION TO THE U.S. COAST GUARD:         1.       AUTHORITY. SOLICITATION OF THIS INFORMATION IS AUTHORIZED BY 46 USC CHAPTER 313 AND 46 CFR. PART 67.         2.       THE PRINCIPAL PURPOSES FOR WHICH THIS INSTRUMENT IS TO BE USED ARE:         (A)       TO PROVIDE A RECORD. AVAILABLE FOR PUBLIC INSPECTION AND COPYING. OF THE SALE OR OTHER CHANGE IN OWNERSHIP OF A VESSEL WHICH IS DOCUMENTED. WILL BE DOCUMENTED, OR HAS BEEN DOCUMENTED PURSUANT TO 46 USC. CHAPTER 121.         (B)       RETENTION FOR EXAMINATION BY GOVERNMENTAL AUTHORITIES AND MEMBERS OF THE GENERAL PUBLIC.         THE ROUTINE USE WHICH MAY BE MADE OF THIS INFORMATION INCLUDES DEVELOPMENT OF STATISTICAL DATA CONCERNING DOCUMENTED VESSELS.         4.         DISCLOSURE OF THE INFORMATION REQUESTED ON THIS FORM IS VOLUNTARY. HOWEVER, FAILURE TO PROVIDE THE INFORMATION COULD PRECLUDE FILING OF A BILL OF SALE AND DOCUMENTATION OF THE VESSEL. NAMED HEREIN PURSUANT TO 46 USC CHAPTER 121. MOREOVER, BILLS OF SALE WHICH
MY COMMISSION EXPIRES:         PRIVACY ACT STATEMENT         IN ACCORDANCE WITH 5 USC 552(A). THE FOLLOWING INFORMATION IS PROVIDED TO YOU WHEN SUPPLYING PERSONAL INFORMATION TO THE U.S. COAST GUARD:         1.       AUTHORITY. SOLICITATION OF THIS INFORMATION IS AUTHORIZED BY 46 USC CHAPTER 313 AND 46 CFR. PART 67.         2.       THE PRINCIPAL PURPOSES FOR WHICH THIS INSTRUMENT IS TO BE USED ARE:         (A)       TO PROVIDE A RECORD, AVAILABLE FOR PUBLIC INSPECTION AND COPYING. OF THE SALE OR OTHER CHANGE IN OWNERSHIP OF A VESSEL WHICH IS DOCUMENTED. WILL BE DOCUMENTED, OR HAS BEEN DOCUMENTED PURSUANT TO 46 USC, CHAPTER 121.         (B)       RETENTION FOR EXAMINATION BY GOVERNMENTAL AUTHORITIES AND MEMBERS OF THE GENERAL PUBLIC.         3         THE ROUTINE USE WHICH MAY BE MADE OF THIS INFORMATION INCLUDES DEVELOPMENT OF STATISTICAL DATA CONCERNING DOCUMENTED VESSELS.         4.         DISCLOSURE OF THE INFORMATION REQUESTED ON THIS FORM IS VOLUNTARY. HOWEVER, FAILURE TO PROVIDE THE INFORMATION COULD PRECLUDE FILING OF A BILL OF SALE AND DOCUMENTATION OF THE VESSEL NAMED HEREIN PURSUANT TO 46 USC CHAPTER 121. MOREOVER, BILLS OF SALE WHICH ARE NOT FILED ARE NOT DEEMED TO BE VALID AGAINST ANY PERSON HAVING ACTUAL KNOWLEDGE OF THE SALE. (46 USC 31321 (A)).         AN AGENCY MAY NOT CONDUCT OR SPONSOR, AND A PERSON IS NOT REQUIRED TO RESPOND TO A COLLECTION OF INFORMATION UNLESS IT DISPLAYS A



United States of America Department of Homeland Security United States Coast Guard Certification Date: 10 Jan 2024 Expiration Date: 10 Jan 2029

### Certificate of Inspection

For ships on international voyages this certificate fulfills the requirements of SOLAS 74 as amended, regulation V/14, for a SAFE MANNING DOCUMENT.

Vessel Name		Official Number IMC		O Number 🤇		Call Sign	Service		
GRETCHEN	н	1056824 89		96458	37	WDC9138	Towing \	/essel	
<b></b> . <b></b> . <b></b> . <b>_ _ _</b>								-	
Hailing Port			Hull Material		Horsep	ower	Propulsion		
KETCHIKAN	, AK		Steel		210	C	Diesel Red	duction	
UNITED STA	TES		2						
UNITED STP	120								
			Delivery Date	Keel Laid Da	ite	Gross Tons	Net Tons	DWT	Lengih R-80.6
CODEN, AL			31Dec199	7 01Jan19	97	R-96 I-205	R-65  -61		R-80.6
UNITED STA	TES					P200	101		
Owner					Operator				
BOYER TOW					BOYE	ER TOWIN			
5061 SHORE						SHORELII HIKAN, AI	NE DRIVE PO I K 99901	ROX 8000	
PO BOX 800 KETCHIKAN,						ED STATE			
UNITED STA	TES								
This vessel m 0 Certified Lif	ust be manned wi eboatmen, 0 Cert	ith the fo ified Tan	llowing license kermen, 0 HS	d and unlice C Type Rat	ensed ting, a	Personnel Ind 0 GMD	l. Included in w SS Operators.	hich there mus	st be
1 Masters	1 Li	censed Ma	ates 0 Chie	ef Engineers		00	vilers		
0 Chief Mates	s O Fi	irst Class I	Pilots 0 Firs	t Assistant Er	ngineer	s			
0 Second Ma	tes 0 R	adio Office	ers 0 Sec	ond Assistant	t Engin	eers			
0 Third Mates		ble Seame		d Assistant E	-	rs			
0 Master Firs		rdinary Se		nsed Enginee					
0 Mate First (		eckhands		lified Member	-		ne in addition to	crew and no	Others Total
In addition, th Persons allow	is vessel may carr /ed: 7	y u Pass	sengers, u Oth	er mersons	III CIE	w, o reisc			
Route Perm	itted And Condit	ions Of	Operation:						
Oceans									
*WHEN OPERATING LESS THAN 12 HOURS IN ANY 24 HOUR PERIOD ON A DOMESTIC VOYAGE, THE LICENSED MATE IS NOT REQUIRED, AND THE NUMBER OF DECKHANDS MAY BE REDUCED TO ONE (1). THE VESSEL MAY CARRY ZERO (0) OTHER PERSONS IN THE CREW, FIVE (5) PERSONS IN ADDITION TO THE CREW, AND NO OTHERS. TOTAL PERSONS ALLOWED SEVEN (7).									
WHEN OPERATING ON LAKES, BAYS, SOUNDS, VESSEL MAY BE OPERATED WITH: ONE (1) MASTER TWO (2*) DECKHANDS ONE (1*) LICENSED MATE									
*WHEN OPERAI	ING LESS THAN 1	2 HOURS	IN ANY 24 HC	UR PERIOD	ON A	LAKES, BA	AYS AND SOUNDS	VOYAGE, THE	LICENSED MATE
***SEE NE>	KT PAGE FOR A	DDITIO	NAL CERTIF	CATE INF	ORN	1ATION***	-		
Inspection, SE	ection for Certifica ECTOR PUGET S rules and regulatic	SOUND	certified the ve	ssel, in all r	ATTL	E, WA, UI	NITED STATES	S, the Officer in e applicable ve	n Charge, Marine essel inspection
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OMB No. 2115-0517



United States of America Department of Homeland Security United States Coast Guard

10 Jan 2024 Certification Date: 10 Jan 2029 Expiration Date:

### **Certificate of Inspection**

Vessel Name: GRETCHEN H

IS NOT REQUIRED, AND THE NUMBER OF DECKHANDS MAY BE REDUCED TO ONE (1). THE VESSEL MAY CARRY ZERO (0) OTHER PERSONS IN THE CREW, FIVE (5) PERSONS IN ADDITION TO THE CREW, AND NO OTHERS. TOTAL PERSONS ALLOWED SEVEN (7).

WHILE TRANSFERRING FUEL OIL, A CERTIFIED TANKERMAN OR LICENSED OFFICER SHALL SERVE AS THE DESIGNATED PERSON IN CHARGE.

THIS CERTICATE IS VALID ONLY SO LONG AS THE OPERATING RESTRICTIONS IN THE VESSEL'S STABILITY LETTER, ISSUED BY ABS AMERICAS AND DATED AUG 04, 2006, ARE OBSERVED.

#### ---Hull Exams----

Exam Type	Next Exam	Last Exam	Prior Exam	
DryDock	31Dec2024	16Nov2022	26Feb2020	
Internal Structure	31Dec2024	16Nov2022	19Dec2019	
Stability				
Туре	Issued Date	Office		
Letter	04Aug2006	ABS AMERICAS IN SEATTLE, WASHINGTON		

### ---Lifesaving Equipment---

	Total Equipment for 7 Persons				
	Primary Lifesaving Equipment	Quantity	Capacity		Required
	Lifeboats (Total)	0	0	Life Preservers (Adult)	7
	Lifeboats (Port)	0	0	Life Preservers (Child)	0
	Lifeboats (Starboard)	0	0	Ring Buoys (Total)	4
	Motor Lifeboats	0	0	With Lights	2
	Lifeboats With Radio	0	0	With Line Attached	3
	Rescue Boats/Platforms	0	0	Other	0
	Inflatable Rafts	1	8	Immersion Suits	7
	Life Floats/Buoyant App	0	0	Portable Lifeboat Radios	0
	Inflatable Buoyant Apparatus (IBA)	0	0	Equipped With EPIRB?	YES
1					

### --- Fire Fighting Equipment ---

Number of Fireman Outfits - 2 

Number of Fire Pumps - 1

Quantity	Diameter	Length
1	1.5	50
1	1.5	50
	Quantity 1 1	1 1.5

### \*Fire Extinguishers - Hand portable and semi-portable\*

Quantity	Class Type
7	10-B:C
2	160-B
3	40-B:C

\*\*\*END\*\*\*

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Certificate No.: 9736626-4648556-020

Deadweight 132.0201 LT



### INTERNATIONAL LOAD LINE CERTIFICATE

Issued under the provisions of the International Convention on Load Lines, 1966, as modified by the Protocol of 1988 relating thereto under the authority of the Government of

United States of America

Commandant, U.S. Coast Guard

### by American Bureau of Shipping

Particulars of Ship

Name of Ship		Distinctive Number or Letters		
GRETCHE	ŧН	105	6824 WDC9138	
Port of Registry	Length(L) as defined in Artic	le 2(8)	IMO Number	
Ketchikan, AK	80 Feet 3-13/16 Inch	əs	8964587	

Freeboard Assigned as: New

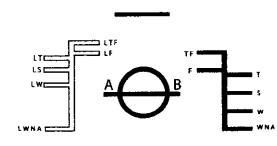
Type of Ship: Type B

Freeboard from	Deck Line:		La	ad Line
Tropical	1 Feet 8-3/16 Inches	(T)	2-1/4 Inches	above (S)
Summer	1 Feet 10-7/16 Inches	(S)	Upper edge of lin	e through center of ring
Winter	2 Feet 11/16 Inches	(W)	2-1/4 Inches	below (S)
Winter North Atlantic	2 Feet 2-11/16 Inches	(WNA)	4-1/4 Inches	below (S)
Timber Tropical	N/A	(LT)	N/A	above (LS)
Timber Summer	N/A	(LS)	N/A	above (S)
Timber Winter	N/A	(LW)	N/A	below (LS)
Timber Winter North Atlantic	N/A	(LWNA)	N/A	below (LS)
Allowance for fresh water for all	freeboards other than timber:	1-3/4 Inches		
For timber freeboards: N/A	-			

The upper edge of the deck line from which these freeboards are measured is:

Opposite The Top of Upper Steel

deck at side.



This certificate is valid only so long as the operating restrictions in the vessel s stability letter, issued by ABS Americas and dated August 4, 2006, are observed.

1 In accordance with the BMO Ship Identification Number Scheme, adopted by resolution A.600(15).

### THIS IS TO CERTIFY:

- 1. That the ship has been surveyed in accordance with the requirements of article 14 of the Convention.
- 2. That the survey showed that the freeboards have been assigned and load lines shown above have been marked in accordance with the Convention.

This certificate is valid until	03 January 2025	2
Subject to the annual surveys in	accordance with article	14(1)(c) of the Convention.

Completion date of the	survey on which this certificate is based:	05 March 2020		
Issued at	Seattle, United States	on	15 February 2021	
	(Place of issue of certificate)		(Date of issue)	

(Place of issue of certificate)

Electronically Signed By

Spadafore, Dominic Louis (Dominic Spadafore), Seattle Port (Surveyor, American Bureau of Shipping)

#### NOTES:

- 1. When a ship departs from a port situated on a river or inland waters, deeper loading shall be permitted corresponding to the weight of fuel and all other materials required for consumption between the point of departure and the sea.
- When a ship is in fresh water of unit density the appropriate load line may be submerged by the amount of fresh water allowance shown above. Where the density is other than unity, an allowance shall be made proportional to the difference between 1.025 and the actual density.
- It is the owner's responsibility to furnish the master with approved information and instructions for loading and ballasting this vessel to provide guidance as to stability of the vessel under varying conditions of service and to avoid unacceptable stresses in the vessel's structure, as defined in 46 CFR 42.09-1.
- 4. The Winter North Atlantic Load Line applies only to vessels of 328 ft. in length or less, which enter any part of the North Atlantic Ocean during the winter months as defined by the Load Line Regulations in 46 CFR 42.30-5 and 42.30-35. The periods during which the other seasonal load lines apply in different parts of the world are stated in the Load Line Regulations 46 CFR 42.30-5 to 42.30-30, inclusive.
- 5. This Load Line Certificate will be cancelled by the Commandant, U. S. Coast Guard, if...
  - a) The annual surveys have not been carried out within three months either way of each anniversary date of the certificate.
  - b) The certificate is not endorsed to show that the ship has been surveyed as indicated in (a).
  - c) Material alterations have been made to the hull or superstructures such as would necessitate the assignment of an increased freeboard.
  - d) The fittings and appliance for the protection of the openings, guardrails, freeing ports, or the means of access to the crew's quarters have not been in as effective a condition as they were when the Certificate was issued.
  - e) The structural strength of the ship is lowered to such an extent that the ship is unsafe.
- 6. When this Certificate has expired or been cancelled, it must be delivered to the Assigning Authority.



<sup>2</sup> Insert the date of expiry as specified by the Administration in accordance with article 19(1) of the Convention. The day and the month of this date correspond to the anniversary date as defined in article 2(9) of the Convention, unless amended in accordance with article 19(8) of the Convention.

Deadweight: 132.0201 LT

### ENDORSEMENT FOR ANNUAL SURVEYS

THIS IS TO CERTIFY that, at an annual survey required by article 14(1)(c) of the Convention, the ship was found to comply with the relevant requirements of the Convention.

Signed:	Electronically Signed By Spadafore, Dominic Louis (Dominic Spadafore), Seattle Port (Surveyor, American Bureau of Shipping)
Place:	Seattle, United States
Date:	15 February 2021
Signed:	Electronically Signed By Polowy, Steven, Seattle Port (Surveyor, American Bureau of Shipping)
Place:	Seattle, United States
Date:	18 February 2022
Signed:	Electronically Signed By Spadafore, Dominic Louis (Dominic Spadafore), Seattle Port (Surveyor, American Bureau of Shipping)
Place:	Seattle, United States
Date:	10 February 2023
Signed:	(Surveyor, American Bureau of Shipping)
Place:	
Date:	
	Place: Date: Signed: Place: Date: Signed: Date: Date: Place: Date:

### ANNUAL SURVEY IN ACCORDANCE WITH ARTICLE 19(8)(c)

THIS IS TO CERTIFY that, at a survey in accordance with article 19(8)(c) of the Convention, the ship was found to comply with the relevant requirements of the Convention.

	Signed:	
		(Surveyor, American Bureau of Shipping)
	Place:	
	Date:	
		CERTIFICATE IF VALID FOR ARTICLE 19(3) APPLIES
The ship complies with the relevant re of the Convention, be accepted as va		n, and this certificate shall, in accordance with article 19(3)
ABS	Signed:	(Surveyor, American Bureau of Shipping)
ADJ	Place:	
	Date:	

### ENDORSEMENT WHERE THE RENEWAL SURVEY HAS **BEEN COMPLETED AND ARTICLE 19(4) APPLIES**

The ship complies with the relevant requirements of the Convention, and this certificate shall, in accordance with article 19(4) of the Convention, be accepted as valid until

Signed:

(Surveyor, American Bureau of Shipping)

Place: Date:

### ENDORSEMENT TO EXTEND THE VALIDITY OF THE CERTIFICATE UNTIL REACHING THE PORT OF SURVEY OR FOR A PERIOD OF GRACE WHERE ARTICLE 19(5) OR 19(6) APPLIES

This certificate shall, in accordance with article 19(5)/19(6)<sup>3</sup> of the Convention, be accepted as valid until

Signed:

(Surveyor, American Bureau of Shipping)

Place:

Date:

### ENDORSEMENT FOR ADVANCEMENT OF ANNIVERSARY DATE WHERE ARTICLE 19(8) APPLIES

In accordance with article 19(8) of the Convention, the new anniversary date is

Signed:

(Surveyor, American Bureau of Shipping)

Piace: Date:

In accordance with article 19(8) of the Convention, the new anniversary date is

Signed:

(Surveyor, American Bureau of Shipping)

Place:

Date:





### STABILITY LETTER

August 4, 2006

Master, M. V. "GRETCHEN H", ON 1056824 Rodriguez Boatbuilders Hull 166 84.0' x 30' x 11.5' Uninspected Tug [C]

You are responsible for maintaining this vessel in a satisfactory stability condition at all times and for following the instructions and precautions listed below.

A stability test, witnessed by ABS Americas on behalf of the U.S. Coast Guard was conducted on the GRETCHEN H on 19 May 2006, Seattle, Washington. On the basis of that test, stability calculations have been performed. Results indicate that the stability of the GRETCHEN H, as presently outfitted and equipped, is satisfactory for operation on Exposed Waters, provided that the following restrictions are observed.

#### **OPERATING RESTRICTIONS**

- 1. ROUTE: Operation on Exposed Waters is permitted.
- FREEBOARD AND DRAFT: A minimum freeboard of at least 1 foot 10-7/16 inches measured from the main deck at amidships must be maintained. This corresponds to a baseline draft of 9 feet 8-1/2 inches. Trim should be minimized.
- 3. DECK CARGO: Carriage of deck cargo is not permitted.

#### 4. TANKS:

- a. No more than one centerline tank or P/S tank pair of the following liquid types may be partially filled at any one time (with the exception of the fuel oil day tank): fuel oil storage, potable water and ballast water.
- b. Any cross-connections between port and starboard tank pairs shall be kept closed at all times when underway.
- 5. <u>HULL OPENINGS</u>: Any openings that could allow water to enter into the hull or deckhouse should be kept closed when rough weather or sea conditions exist or are anticipated.
- 6. <u>WEIGHT CHANGES</u>: This stability letter has been issued based upon the following lightship parameters:

LtrStab.doc

ABS PLAZA, 16855 NORTHCHASE DRIVE, HOUSTON, TX 77060-6008 USA TEL: 1-281-877-6000 FAX: 1-281-877-6001 EMAIL: abs-amer@eagle.org



GRETCHEN H O.N. 1056824 Rodriguez Boatbuilders Hull 166 August 04, 2006

Weight:	238.23	Long Tons
VCG:	11.08	Feet Above Baseline
LCG:	1.48	Feet Aft of frame 21

Any alternation resulting in a change in these parameters will invalidate this stability letter. No fixed ballast or other such weights shall be added, removed and/or relocated without prior authorization. No permanent ballast onboard.

- 7. <u>BILGES</u>: The vessel's bilges and voids shall be kept pumped to minimum content at all times consistent with pollution prevention requirements.
- 8. <u>FREEING PORTS</u>: Deck freeing ports shall be maintained operable and completely unobstructed at all times.
- 9. <u>LIST</u>: You should make every effort to determine the cause of any list of the vessel before taking corrective action.

This stability letter shall be posted under glass or other transparent material in the pilothouse of the vessel so that all pages are visible. It supersedes any stability information previously issued to the vessel.

Thomas. M. Gruber Principal Engineer ABS Americas

### **BOYER TOWING, INC.**

P.O. Box 8000 Ketchikan, Alaska 99901 Phone (206) 763-8696 Fax (206) 767-9517



### GRETCHEN H.

Radio Call Sign: WDC 9138

Cell No. 206-883-7295

Satellite Phone No. 1-877-598-6279

Official No:	1056824
IMO No:	8964587
Dimensions:	85' × 30' × 9'
Class:	ABS Loadline
Main Propulsion:	Triple Screw Cummins QSK 19 Tier 3 2250 h.p. total
Reduction Gears:	Twin Disc 5202 - 6.1:1 ratio
Propellers:	63" x 72"- 5 Blade S.S. In 64" Type 19 Kart Nozzels
Generators:	Two Lugger / John Deere 4045T, 65kw
Bollard Pull:	(Calculated) 32 Ton
Tow Wire:	1-3/4" x 1,800' 6 x 19 IWRC
Under Rider:	1-3/4" x 550' 6 x 19 IWRC

Department of Homeland Security United States Coast Guard National Pollution Funds Center Arlington VA 20598-7100

### COFR# 818659

Vessel Operator BOYER TOWING, INC.

Name of Vessel **EGLON** 

COFR information is now fully electronic and you are no longer required to carry a COFR certificate onboard your vessel. If you would like a hardcopy for your records, please right-click and print this certificate.



NPFC Home

Click on the Document Icon 🖸 to the left of a record to display a COFR Confirmation in html. You may print the COFR Confirmation by right clicking your mouse and selecting "print" from the list.

VESSEL NAME	VESSEL TYPE	HULL	GROSS TONNAGE	COFR NUMBER	EFFECTIVE DATE	EXPIRATION DATE	COFR APPLICANT	VIN	INSURANCE CANCEL FLAG
AFOGNAK	BARGE AND SCOW		1296	818659 - 19	6/10/2019	6/10/2022	BOYER TOWING, INC.	D294146	
BAINBRIDGE	BARGE AND SCOW		2855	818659 - 19	6/10/2019	6/10/2022	BOYER TOWING, INC.	D1030553	
BARGE 450-7	BARGE AND SCOW		7132	818659 - 19	8/9/2019	8/9/2022	BOYER TOWING, INC.	D633285	
CALLAPOOYA	BARGE AND SCOW		1192	818659 - 19	6/10/2019	6/10/2022	BOYER TOWING, INC.	D522224	
COOL BOB	BARGE AND SCOW		317	818659 - 19	6/10/2019	6/10/2022	BOYER TOWING, INC.	D1022103	
DIOSKOUROI	BARGE AND SCOW		6434	818659 - 19	8/28/2017	8/28/2020	BOYER TOWING, INC.	D651631	
G EGLON	BARGE AND SCOW		1719	818659 - 19	2/3/2020	2/3/2023	BOYER TOWING, INC.	D619729	
HUNTER BAY	BARGE AND SCOW		2192	818659 - 19	6/10/2019	6/10/2022	BOYER TOWING, INC.	D655961	
KLAMATH	BARGE AND SCOW		4412	818659 - 19	8/9/2019	8/9/2022	BOYER TOWING, INC.	D956052	
A KLINKWAN	BARGE AND SCOW		2768	818659 - 19	6/10/2019	6/10/2022	BOYER TOWING, INC.	D545095	
C KOOTZNAHOO	BARGE AND SCOW		312	818659 - 19	6/10/2019	6/10/2022	BOYER TOWING, INC.	D532599	
Q KP-1	BARGE AND SCOW		905	818659 - 19	6/10/2019	6/10/2022	BOYER TOWING, INC.	D612443	
Q KP-2	BARGE AND SCOW		907	818659 - 19	6/10/2019	6/10/2022	BOYER TOWING, INC.	D597024	
<b>а кр-з</b>	BARGE AND SCOW		905	818659 - 19	6/10/2019	6/10/2022	BOYER TOWING, INC.	D629728	
& KP-4	BARGE AND SCOW		905	818659 - 19	8/9/2019	8/9/2022	BOYER TOWING, INC.	D609944	
< Prev <u>Next &gt;</u>									

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Version 3.7 -- This version is designed for Internet Explorer 11.



**United States of America** Department of Homeland Security **United States Coast Guard** 

Certification Date: 27 Jan 2021 Expiration Date: 17 Mar 2026

# For ships on international voyages this certificate fulfills the requirements of SOLAS 74 as amended, regulation V/14, for a SAFE MANNING DOCUMENT.

Vessel Name			Official Number	IMO	Number	Call Sign	Service	
EGLON			619729				Freight I	Barge
Hailing Port								
KETCHIKAN			Hull Material		Horsepower	Propulsion		
	, , , , , , , , , , , , , , , , , , , ,		Steel			None		
UNITED ST	ATES							
Place Built								
	1.0		Delivery Date	Keel Laid Date	e Gross Tons	Net Tons	DWT	Length
TACOMA, W	/A		01Jan1980		R-	R-		R-218.4
UNITED ST	ATES				I-1524	I-457		I-218.4
Owner BOYER TOV					OYER ALASK	A BARGE LIN	ES INC	
5061 SHORE					318 FOURTH /		20, 110.	
KETCHIKAN					EATTLE, WA			
UNITED STA	TES			U	INITED STATE	S		
This vessel m 0 Certified Lif	iust be manne eboatmen, 0 (	d with the fo Certified Tai	bllowing licensed nkermen, 0 HSC	and unlicer Type Ratir	nsed Personnel ng, and 0 GMD	<ol> <li>Included in v SS Operators.</li> </ol>	vhich there mu	st be
0 Masters		0 Licensed M	ates 0 Chief	Engineers	0 0	vilers		
0 Chief Mate	s	0 First Class	Pilots 0 First	Assistant Eng	ineers			
0 Second Ma	ates	0 Radio Offic	ers 0 Seco	nd Assistant E	Engineers			
0 Third Mate	S	0 Able Seam	en 0 Third	Assistant Eng	gineers			
0 Master Firs	t Class Pilot	0 Ordinary Se	eamen 0 Licen	sed Engineers	S			
0 Mate First (	Class Pilots	0 Deckhands	0 Quali	fied Member E	Engineer			
In addition, th Persons allov		carry 0 Pas	sengers, 0 Othe	r Persons ir	n crew, 0 Perso	ns in addition t	o crew, and no	o Others. Total
Route Perm	nitted And Co	nditions Of	Operation:					
Oceans			•					
	ICATE VALID C RTIFICATE ARE		G AS THE OPERA	TING RESTR	RICTIONS ON TH	IE VESSELS CU	RRENT STABILI	ITY LETTER AND
HOADTINE CEL	CITICATE ARE	ODDERVED.						
			NAL CERTIFIC					
With this Insp	ection for Cert	ification hav	ing been comple	eted at SEA	ATTLE, WA, UN	NITED STATE	S, the Officer i	n Charge, Marine
			certified the ves cribed thereunde		spects, is in cor	normity with th	le applicable vo	essel inspection
		riodic/Re-In:		<u>,                                     </u>	This certificat	e issued by:		
Date	Zone	A/P/R	Signatu	ire		MENEFEE, C		/ Direction
Duio	2010	7 V1 /1X	Oignato		Officer in Charge, Ma			
					Onicer in Onarge, Ma		UGET SOUN	П
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United States of America Department of Homeland Security United States Coast Guard Certification Date:27 Jan 2021Expiration Date:17 Mar 2026

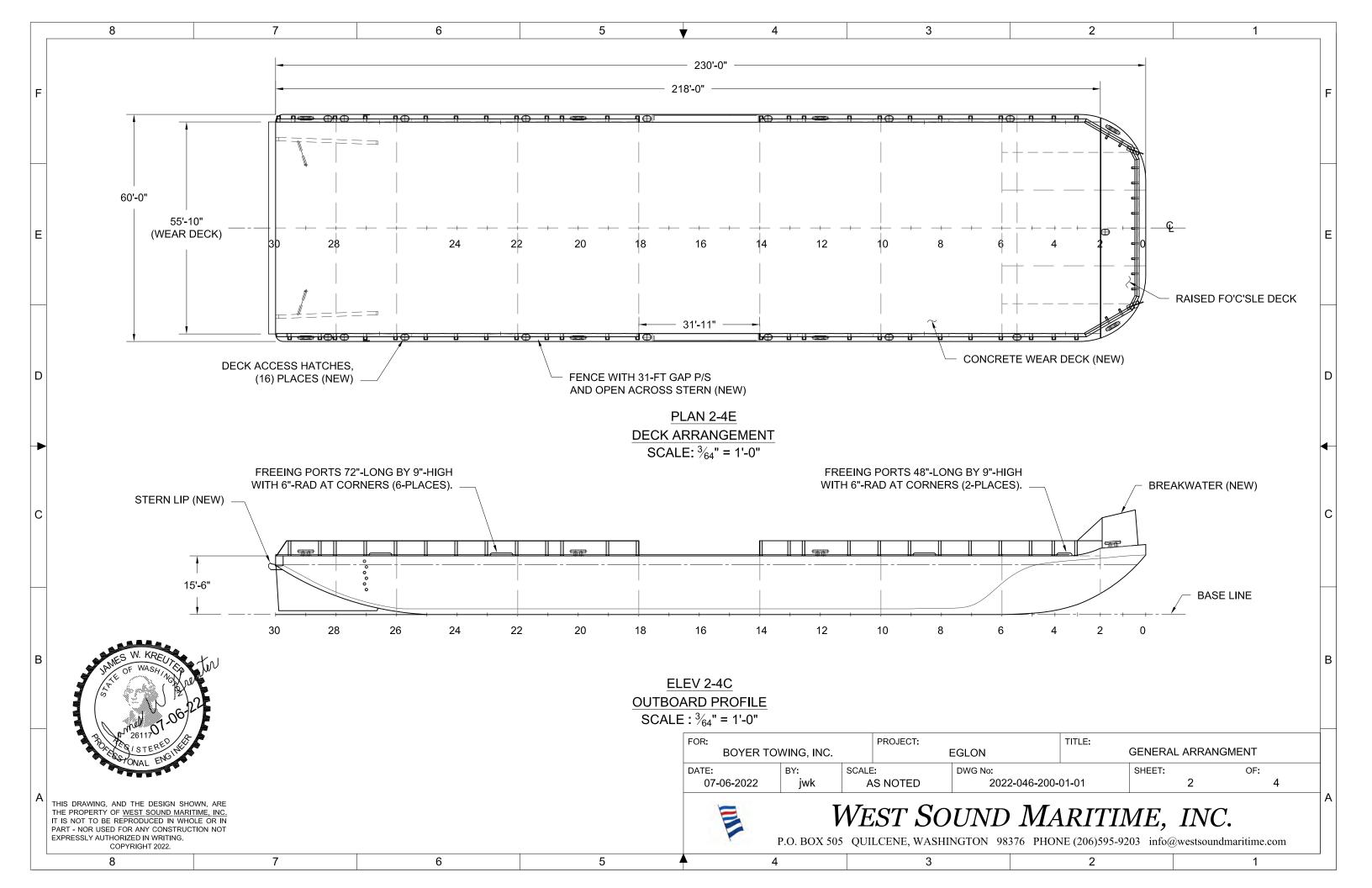
# Certificate of Inspection

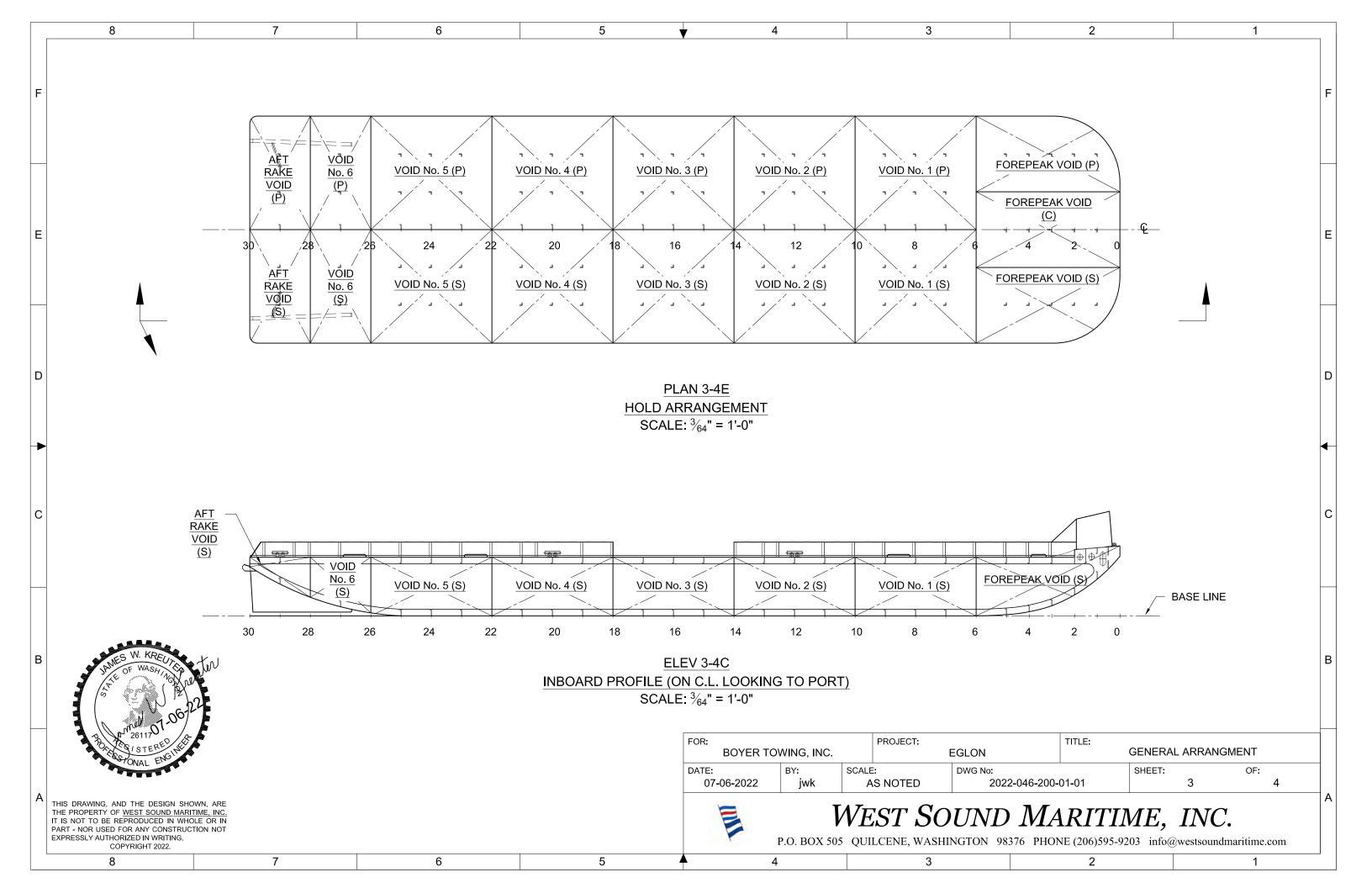
Vessel Name: EGLON

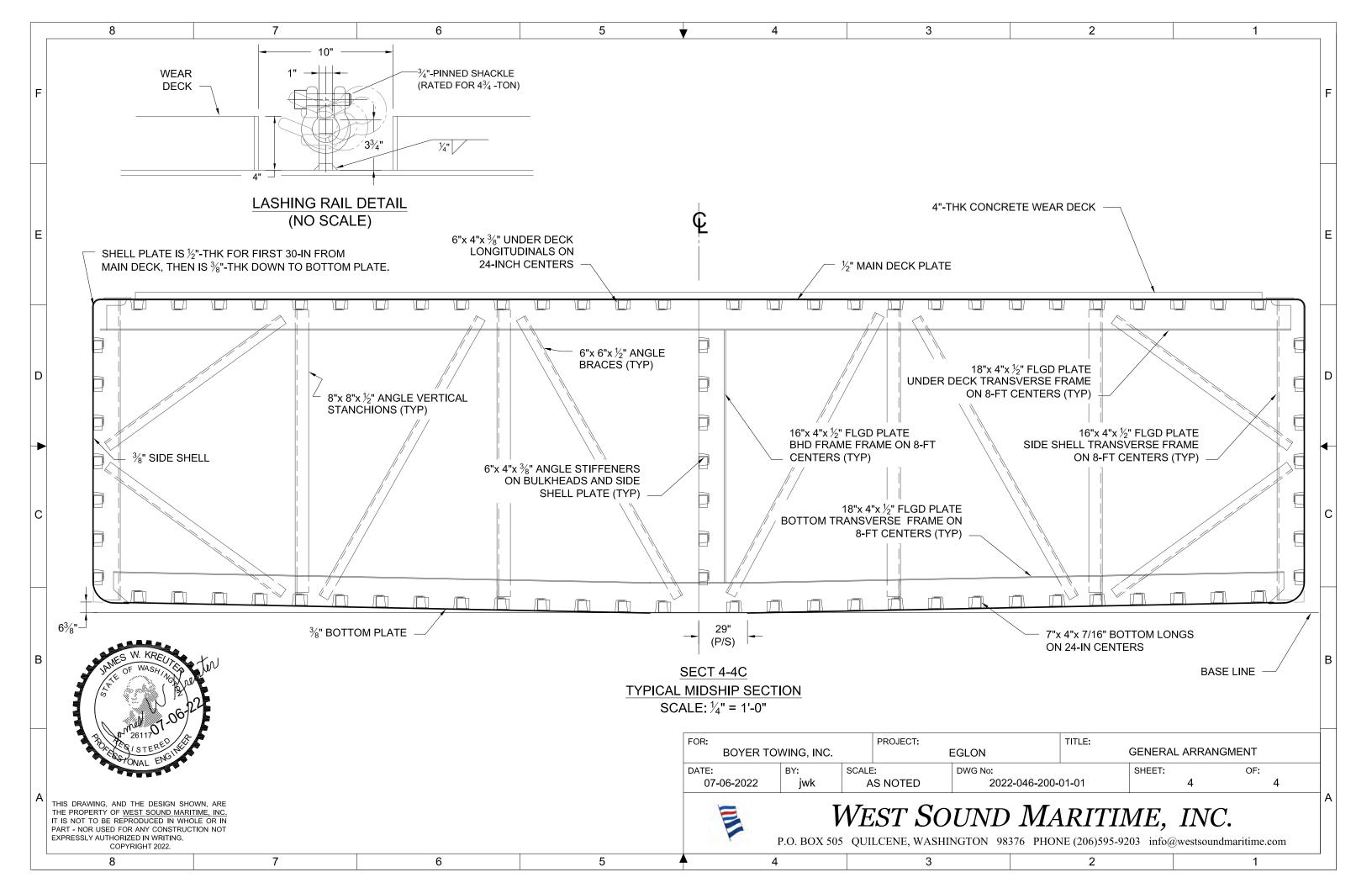
Hull Exams					
Exam Type	Next Exam		Last Exam	Prior Exa	am
DryDock	30Sep2023		30Oct2018	16Sep20	)13
Internal Structure	30Sep2023		12Nov2020	30Oct20	18
Stability					
Туре	Issued Date	Office			
Letter	08Mar2011	Non C	G		
Liquid/Gas/Solid Ca Authorization:	argo Authority/Co	onditio	ons		
Total Capacity Units	Highest Grade	е Туре	Part151 Regulated	Part153 Regulated	Part154 Regulated
			No	No	No
*Hazardous Bulk Solids Auth	nority*				
*Conditions Of Carriage*					
Lifesaving Equipme	nt				
Total Equipment for 0 Persons	i				
Primary Lifesaving Equipment	Quantity	Cap	acity		Required
Lifeboats (Total)	0	0		vers (Adult)	0
Lifeboats (Port)	0	0		vers (Child)	0
Lifeboats (Starboard)	0	0	Ring Buoys		0
Motor Lifeboats	0	0		Lights	0
Lifeboats With Radio	0	0		Line Attached	0
Rescue Boats/Platforms	0	0	Other		0
Inflatable Rafts	0	0	Immersion		0
Life Floats/Buoyant App	0	0		feboat Radios	0
Inflatable Buoyant Apparatus (		0	Equipped V	With EPIRB?	NO
Fire Fighting Equip	ment				
*Fire Extinguishers - Hand p	ortable and semi-por	table*			
Quantity	Cla	ss Type			
3	40-	В			
***END***					

	8	7	6	5	▼ 4	3
		GE	ENERAL NOTES			REVISIC
					REV ZONE	
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	STONAL ENG				DATE: BY:	SCALE: DWG No:
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The It is Paf	IS DRAWING, AND THE DESIGN SI E PROPERTY OF <u>WEST SOUND MA</u> IS NOT TO BE REPRODUCED IN WI RT - NOR USED FOR ANY CONSTRU PRESSLY AUTHORIZED IN WRITING. COPYRIGHT 2022.	<u>RITIME, INC.</u> HOLE OR IN				AS NOTED 2022-04 WEST SOUND 505 QUILCENE, WASHINGTON 98376

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Certificate No.: 8006638-5998704-021 Deadweight: 3379.7184 LT



### INTERNATIONAL LOAD LINE CERTIFICATE

Issued under the provisions of the International Convention on Load Lines, 1966, as modified by the Protocol of 1988 relating thereto under the authority of the Government of

United States of America

Commandant, U.S. Coast Guard

#### by American Bureau of Shipping

Particulars of Ship

Name of Sh	Name of Ship		Distinctive Number or Letters		
EGLON			619729		
Port of Registry	Length(L) as defin	ed in Article 2(8)	IMO Number <sup>1</sup>		
Ketchikan, AK	218 Feet 4-1	3/16 Inches			

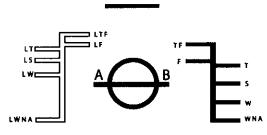
Freeboard Assigned as: New

Type of Ship: Type B - 25 Reduced

Freeboard from Deck Line:			Load Line		
Tropical	2 Feet 2-11/16 Inches	(T)	3-1/8 Inches	above (S)	
Summer	2 Feet 5-13/16 Inches	(S)	Upper edge of line	e through center of ring	
Winter	2 Feet 8-15/16 Inches	(W)	3-1/8 Inches	below (S)	
Winter North Atlantic	2 Feet 10-15/16 Inches	(WNA)	5-1/8 Inches	below (S)	
Timber Tropical	N/A	(LT)	N/A	above (LS)	
Timber Summer	N/A	(LS)	N/A	above (S)	
Timber Winter	N/A	(LW)	N/A	below (LS)	
Timber Winter North Atlantic	N/A	(LWNA)	N/A	below (LS)	
Allowance for fresh water for all	freeboards other than timber: 3	-1/8 Inches			
For timber freeboards: N/A	-			· · · · · · · · · · · · · · · · · · ·	

The upper edge of the deck line from which these freeboards are measured is:

6 Inches Below The Top of Upper Steel



THIS CERTIFICATE IS VALID ONLY SO LONG AS THE OPERATING RESTRICTIONS IN THE VESSEL'S STABILITY LETTER ISSUED BY ABS AMERICAS AND DATED 08 MARCH 2011, ARE OBSERVED. THIS CERTIFICATE IS VALID FOR UNMANNED OPERATION ONLY.

deck at side.

<sup>1</sup> In accordance with the IMO Ship Identification Number Scheme, adopted by resolution A.600(15).

### THIS IS TO CERTIFY:

- 1. That the ship has been surveyed in accordance with the requirements of article 14 of the Convention.
- That the survey showed that the freeboards have been assigned and load lines shown above have been marked in accordance with the Convention.

This certificate is valid until	25 October 2028	2
Subject to the annual surveys ir	accordance with article	14(1)(c) of the Convention.

survey on which this certificate is based:	31 August 2023		
Tacoma, United States	on	31 August 2023	
(Place of issue of certificate)	ARE	(Date of issue)	
alen 4			
	Tacoma, United States	Tacoma, United States on	Tacoma, United States on 31 August 2023

#### NOTES:

- 1. When a ship departs from a port situated on a river or inland waters, deeper loading shall be permitted corresponding to the weight of fuel and all other materials required for consumption between the point of departure and the sea.
- When a ship is in fresh water of unit density the appropriate load line may be submerged by the amount of fresh water allowance shown above. Where the density is other than unity, an allowance shall be made proportional to the difference between 1.025 and the actual density.
- It is the owner's responsibility to furnish the master with approved information and instructions for loading and ballasting this vessel to provide guidance as to stability of the vessel under varying conditions of service and to avoid unacceptable stresses in the vessel's structure, as defined in 46 CFR 42.09-1.
- 4. The Winter North Atlantic Load Line applies only to vessels of 328 ft. in length or less, which enter any part of the North Atlantic Ocean during the winter months as defined by the Load Line Regulations in 46 CFR 42.30-5 and 42.30-35. The periods during which the other seasonal load lines apply in different parts of the world are as stated in the Load Line Regulations in 46 CFR 42.30-5 to 42.30-30, inclusive.
- 5. This Load Line Certificate will be cancelled by the Commandant, U. S. Coast Guard, if ...
  - a) The annual surveys have not been carried out within three months either way of each anniversary date of the certificate.
  - b) The certificate is not endorsed to show that the ship has been surveyed as indicated in (a).
  - c) Material alterations have been made to the hull or superstructures of the vessel such as would necessitate the assignment of an increased freeboard.
  - d) The fittings and appliance for the protection of the openings, guardrails, freeing ports, or the means of access to the crew's quarters have not been maintained in as effective a condition as they were when the Certificate was issued.
  - e) The structural strength of the ship is lowered to such an extent that the ship is unsafe.
- 6. When this Certificate has expired or been cancelled, it must be delivered to the Issuing Authority.



<sup>2</sup> Insert the date of expiny as specified by the Administration in accordance with article 19(1) of the Convention. The day and the month of this date correspond to the anniversary date as defined in article 2(9) of the Convention, unless amended in accordance with article 19(8) of the Convention.

Certificate No.: 8006638-5998704-021

Deadweight: 3379.7184 LT

### ENDORSEMENT FOR ANNUAL SURVEYS

**THIS IS TO CERTIFY** that, at an annual survey required by article 14(1)(c) of the Convention, the ship was found to comply with the relevant requirements of the Convention.

Annual Survey:	Signed:	(Surveyor, American Bureau of Shipping)
	Place:	
	Date:	
Annual Survey:	Signed:	(Surveyor, American Bureau of Shipping)
	Place:	
	Date:	
Annual Survey:	Signed:	
		(Surveyor, American Bureau of Shipping)
	Place:	
	Date:	
Annual Survey:	Signed:	
	Discon	(Surveyor, American Bureau of Shipping)
	Place:	
	Date:	

### ANNUAL SURVEY IN ACCORDANCE WITH ARTICLE 19(8)(c)

**THIS IS TO CERTIFY** that, at a survey in accordance with article 19(8)(c) of the Convention, the ship was found to comply with the relevant requirements of the Convention.

Signed:

(Surveyor, American Bureau of Shipping)

Place:

Date:

### ENDORSEMENT TO EXTEND THE CERTIFICATE IF VALID FOR LESS THAN 5 YEARS WHERE ARTICLE 19(3) APPLIES

The ship complies with the relevant requirements of the Convention, and this certificate shall, in accordance with article 19(3) of the Convention, be accepted as valid until



Signed:

(Surveyor, American Bureau of Shipping)

Place: Date:

### ENDORSEMENT WHERE THE RENEWAL SURVEY HAS BEEN COMPLETED AND ARTICLE 19(4) APPLIES

The ship complies with the relevant requirements of the Convention, and this certificate shall, in accordance with article 19(4) of the Convention, be accepted as valid until

Signed:

(Surveyor, American Bureau of Shipping)

Place: Date:

### ENDORSEMENT TO EXTEND THE VALIDITY OF THE CERTIFICATE UNTIL REACHING THE PORT OF SURVEY OR FOR A PERIOD OF GRACE WHERE ARTICLE 19(5) OR 19(6) APPLIES

This certificate shall, in accordance with article 19(5)/19(6)<sup>3</sup> of the Convention, be accepted as valid until

Signed:

(Surveyor, American Bureau of Shipping)

Place: Date:

### ENDORSEMENT FOR ADVANCEMENT OF ANNIVERSARY DATE WHERE ARTICLE 19(8) APPLIES

In accordance with article 19(8) of the Convention, the new anniversary date is

Signed:

(Surveyor, American Bureau of Shipping)

Place:

Date:

In accordance with article 19(8) of the Convention, the new anniversary date is

Signed:

(Surveyor, American Bureau of Shipping)





### **BOYER TOWING, INC.**

P.O. Box 8000 Ketchikan, Alaska 99901 Phone (206) 763-8696 Fax (206) 767-9517

EGLON Official No: 619729



### Overall Dimensions:

### Length: 230 ft. Beam: 60 ft. Depth: 16 ft.

Useable Deck:

Length: 219 ft. Tonnage at Load Line: 3,700 Tons Beam: 56 ft.

### **Regulatory:**

Built: 1980, Tacoma, WA Gross Tonnage: 1,719 GRT Net Tonnage: 1,719 NRT USCG Certified COI ABS Load Line

Feb 09 12 08:51a	ABS/SEATTLE _	2067628781	p.2
	published by BS Houston. 94328, dated 08-MAR-2011.		
FOUNDED 1852	ABS	Project: 2493 Task: 6943	050 / CAA 28
	08 March 2011		
5732 Rose L Bainbridge I	r Engineering, PLLC oop NE sland, WA 98110 Ir. John D. Van Buskirk		
SUBJECT:	"EGLON" ABS ID 8006638 Zidell Dismantling Inc., Hull 600-023 230"-0" x 60"-0" x 15"-6" Unmanned Deck Cargo Barge (U.S. ON 619729) Stability Review on behalf of the U.S.C.G. – NV		- 1. and - 1. (1. (1. (1. (1. (1. (1. (1. (1. (1.
Dear Mr. Va	n Buskirk.		1
We have you	r email of 10 February 2011 and subsequent emails	submitting the following:	1 4 1
1. 5	Stability Analysis and Loading Guidance, Report No	o. 10-012-03, Rev I dated March	7, 2011
11/16" (12'-7	(ity review of the subject vessel in association with -1/16" extreme), corresponding to a 1966 Type "B 0 of the International Convention on Load Lines, 19	-25%" vessel freeboard of 2-5-1	load line of 12'-6- 3/16", pursuant to
values as per	pleted our review of submittal item 1, which was p r our letter dated 09 February 2011, we wish to ad with the operating restrictions in the attached stabili regulations:	lvise that provided the subject v	essel is loaded in
a.)	46 CFR 170. 70 - Weather Criterion	and the second second	
b.)	46 CFR 174 Subpart B – Special Rules Pertainin	g to Deck Cargo Barges	
Submittal iter	m 1 is stamped "Examined".		

Enclosed is the stability letter for the vessel, issued by ABS Americas in accordance with USCG NVIC 3-97. It is the owner's responsibility to ensure that a copy of this letter is maintained with the Load Line Certificate in a suitable location onboard the parge for the guidance of the Master.

The following statement will be placed on the face of the Load Line certificate:

"This certificate is valid only so long as the operating restrictions in the vessel's stability letter, issued by ABS Americas and dated 08 March 2011, are observed. This certificate is valid for unmanned operation only."

ł.

The above submittal will be returned to you electronically, appropriately stamped to indicate our review. One copy of the submittal will be forwarded to the United States Coast Guard upon their request. We have retained one copy of the submittal for our records and files.

An invoice covering the technical service fee for our review will be sent to the owners under a separate cover.

AMERICAS DIVISION ABS FLAZA 16855 NORTHCHASE DRIVE, HOUSTON, TX 77060 USA TEL. 1-281-877-6000 FAX: 1-281-877-6001 EMAIL: ABS-amer@eagle.org WEBSITE: www.eagle.org Feb 09 12 08:51a

ABS/SEATTLE

Electronically published by BS Houston. Reference 694328, dated 08-MAR-2011. 2067628781

Zidell Dismantling Inc. Project: 2493050 / CAA Task: 694328 Date: 08 March 2011 Page 2 of 2 p.3

Should you have any questions or we can be of any further assistance, please do not hesitate to contact the project engineer Carly Alphonso at (281) 877-6472. Please refer to task number 694328 when responding to this correspondence.

Very truly yours,

Mahmood Billah

Sr. Managing Principal Engineer Stability & Load Line Group, SED ABS Americas

> AMERICAS DIVISION ABS PLAZA, 16855 NORTHCHASE DRIVE, HOUSTON, TX 7708C USA TEL: 1-281-877-6000 FAX: 1-281-877-6001 Email: ABS-emer@eagle.org www.eagle.org

Feb 09 12 08:51a ABS / SEATT LE

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Electronically published by ^BS Houston. Reference 694328, dated 08-MAR-2011.



### STABILITY LETTER

08 March 2011

p.4

Person in Charge:

"EGLON" O.N. 619729 Zidell Dismantling Inc., Hull 600-023 230'-0" x 60'-0" x 15'-6" Unmanned Deck Cargo Barge

You are responsible for maintaining this barge in a satisfactory stability condition at all times and for following the instructions and precautions listed below. All log entries required by 46 CFR 42.070.20 shall be made prior to getting underway for each voyage.

A deadweight survey, witnessed by the American Bureau of Shipping (ABS) on behalf of the U.S. Coast Guard was conducted on the "EGLON" at Boyer Towing Dock in Seattle, Washington on 21 January 2011. On the basis of that survey, stability calculations have been performed. Results indicate that the stability of the barge "EGLON", as presently outfitted and equipped, is satisfactory for operation on Exposed Waters, provided that the following restrictions are observed.

#### OPERATING RESTRICTIONS

- 1. <u>ROUTE</u>: Operation on Exposed Waters is permitted for unmanned operations only,
- FREEBOARD AND DRAFT: A maximum mean keel draft of 12\*-7-1/16" is permitted. This corresponds to a minimum freeboard of 2'-5-13/16" from 6" below steel upper deck at side measured at amidships, which is located 2'-7-15/16" aft of frame 15. Trim shall not exceed 2 ft forward or 4 feet aft.
- 3. <u>WEIGHT CHANGES</u>: This stability letter has been issued based upon the following light ship characteristics:

Displacement:	873.77	Long Tons	
VCG:	11.56	Feet above Baseline	
LCG:	6.79	Feet Aft of Frame 15	

Any alternations resulting in a change in these parameters will invalidate this stability letter. No fixed ballast or other such weights shall be added, removed and/or relocated without the authorization and supervision of the cognizant OCMI or ABS. This barge is not fitted with permanent ballast.

4. <u>DECK CARGO</u>: The cargo must be positively secured against shifting prior to leaving protected waters. Deck cargo should be loaded in accordance with Appendix 8, titled Loading Instructions, bearing the ABS approval stamp dated 08 March 2011. Maximum cargo height of first tier cargo shall not exceed 45 feet above the concrete wear deck.

#### AMERICAS DIVISION ABS PLAZA, 16855 NORTHCHASE DRIVE, HOUSTON, TX 77050 USA

EMAIL: ABS-amer@eagle.org

FAX: 1-281-877-6001

TEL 1-231-877-8000

WEBSITE: www.eagle.org

Electronically published by "BS Houston. Reference 694328, dated U8-MAR-2011.

> "EGLON" O.N. 619729 Zidell Dismantling Inc., Hull 600-023 08 March 2011 Page 2 of 2

- 5. <u>HULL OPENINGS</u>: Any openings that could allow water to enter into the hulf should be kept closed when underway.
- 6. <u>TANKS</u>: All tanks/spaces shall be kept empty at all times.
- 7. <u>WATERTIGHT BULKHEADS</u>: No watertight bulkheads may be removed or altered without the authorization and supervision of the cognizant Officer in Charge, Marine Inspection (OCMI).
- 8. <u>BILGES</u>: The vessel's bilges and voids shall be kept pumped to minimum contents at all times consistent with pollution prevention requirements.
- 9. <u>LIST</u>: You should make every effort to determine the cause of any list of the vessel before taking corrective action.

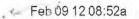
This stability letter, along with the Load Line Certificate, shall be maintained in a suitable location onboard the barge for the guidance of the Master. It supersedes any stability information previously issued to the barge.

Mahmood Billah

Sr. Managing Principal Engineer Stability & Load Line Group, SED ABS Americas

Attachment: Appendix 8 - Loading Instructions (Bearing ABS Houston Approval stamp dated 08 March 2011)

AMERICAS DIVISION ABS PLAZA. 16855 NORTHCHASE DRIVE. HOUSTON, TX 77050 USA TEL: 1-28 -677-5000 FAX: 1-281-877-5001 Email: ABS-amer@eagle.org www.eagle.org



p.6

### Appendix 8 – Loading Instructions

"EGLON" O.N. 619729

8-1

### "EGLON" O.N. 619729

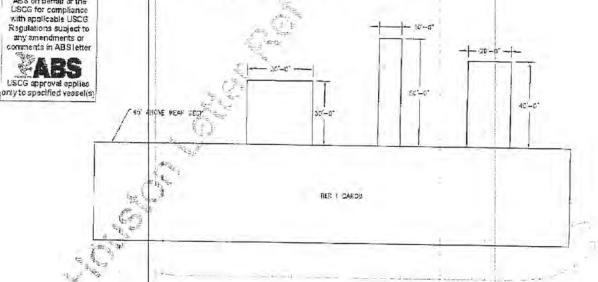
The following guidelines are to be observed when loading the barge to insure safe operation:

- 1. All compartments on the barge are voids and are to be kept dry at all times. All watertight manholes are to be kept closed.
- 2. All cargo is to be adequately secured to prevent shifting at sea.
- 3. For windage profile purposes, the cargo is divided into two tiers. The first tier extends the length of the wear deck and to a height of 45 feet above the wear deck. The second tier is immediately above the first tier. If there is any cargo which falls in the second tier, the maximum cargo height is not to exceed that shown in the attached Chart 1. "Cargo Height". The cargo height is limited by the area of the second tier cargo. The area is to be calculated by summing the length of all items in the second tier and multiplying by the maximum height of the tallest item above the 45 foot level.

As an example, if there were three items extending above the 45 foot level as follows:

- 20 long x 85' high (40' above 45' level) ٠
- 10' long x 95' high (50' above 45' level) .
- 30' long x 75' high (30' above 45' level)

APPROVED by AES on behalf of the USCG for compliance with applicable USCG Regulations subject to any amendments or comments in ABS letter



The total length of the Tier 2 cargo is 20'+10'+30' = 60'. The maximum height of the Tier 2 cargo is 50'. The area for the Tier 2 cargo is then 60' x 50' = 3,000 square feet. Enter Chart 1 with the 3,000 square feet on the xaxis, go vertically to the curve and then horizontally to the y-axis and read the maximum allowable cargo height as 123 feet above the wear deck.

### "EGLON" O.N. 619729

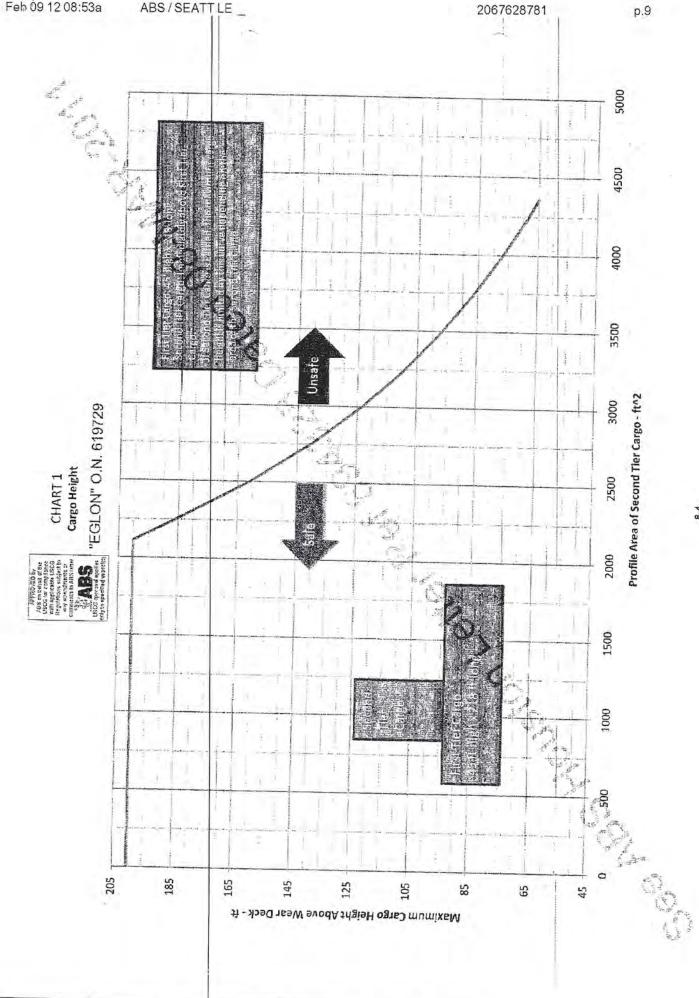
The actual maximum cargo height from above is 95' above the wear deck so this load would be acceptable.

- 4. The trim of the barge is not to exceed 2 feet by the bow or 4 feet by the stern. This trim is the difference in drafts at the draft marks.
- The maximum cargo VCG (vertical center of gravity) is to comply with that shown in either Table 1 or Chart 3. These show the maximum height of the VCG of the cargo above the wear deck for a given draft or deadweight.
   Deadweight includes the weight of cargo, dunnage, securing gear, etc.

To illustrate the use of Table 1, assume the total cargo weight will be 2,800 LT. Go down the Deadweight LT column of Table 1. The 2,800 figure is between the 2,777 and 2,871 LT. Using the corresponding rows in the table, the draft will be between 11 ft and 11.25 ft. The maximum cargo VCG should be taken at the deeper draft unless the figures are interpolated. At the 11.25 ft draft the maximum cargo VCG is 10.65 ft above the wear deck.

The same example can be done using Charts 2 and 3 without requiring interpolation. Enter Chart 2 "Cargo DWT" on the y-axis at 2,800 LT and then go horizontally to the DWT curve and then vertically down to the x-axis where the draft can be read as approximately 11.05 ft. Enter Chart 3 "Maximum Cargo VCG" on the x-axis at the 11.05 ft draft and go vertically up to the VCG curve and then horizontally over to the y-axis and read the maximum VCG at about 11.6 feet above the wear deck.



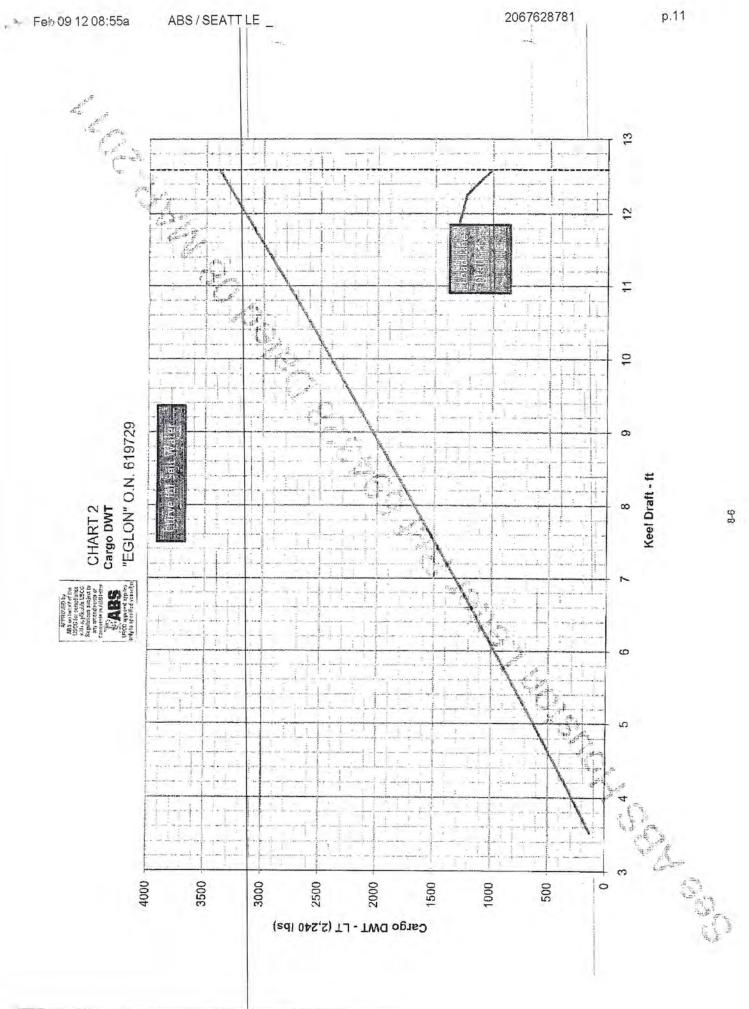


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		LUL				
	Keel Draft	Displacement	Dea	dweight	Maximum VCG of Dea	dweight
	Ft	LT	LT	ST	Ft Above Wear D	
	3.5	998	124	139	285.56	
	3.75	1,080	206	231	204.90	19-10-19-19-19-19-19-19-19-19-19-19-19-19-19-
	4	1,163	289	324	140.63	100 C
	4.25	1,246	372	417	107.17	
	4.5	1,330	456	511	93.80	
	4.75	1,414	541	605		120
	5	1,499	625	700	72,90	-
APFROVED by ADS on benefit of the USCG for compliance	5.25	1,584	711	796	65,18	-
VSCG for compliance with applicable USCG Regulations subject to	5.5	1,670	796	892	59.60	
any amendments or comments in ABS latter	5.75	1,756	882	988	54.82	1
ABS	6	1,843	969	1,085	A TEO ET	
USCS approval applies may to specified vessel(s)	6.25	1,929	1,056	1,182	46.90	
	6.5	2,017	1,143	1,280	14.4	
	6.75	2,104	1,231	1,378	43.71	
	7	2,192	1,319	1,477		
	7.25	2,281	1,407	1,576		
F	7.5	2,370	1,496	1,675	35.84	
	7.75	2,459	1,585	1,775	33.64	
	8	2,549	1,675	The opposite of the opposite o	31.58	
	8.25	2,639	1,765	=1,977	29.65	
	8.5	2,729	1,855		27.83	
	8.75	2,819	-1,946	2,179	26.11	
	9	2,910	2,037	2,281	24,45	
	9.25	3,002	2,128	2,383		
	9.5	3.094	2,220	2,486	21.33	
	9.75	3,186	2,312	2,589	19.85	
	10	3,278	2,404	2,693	18.42	
	10.25	3,371	2,497	2,093	17.03	
	10.5	3,464	2,590	2,901	15.68	
-	10.75	*3,557	2,683	3,005	14.37	
-	11	3,651	2,777	3,110	13.08	
		3,745	2,871		11.84	
	11.5	3,840	2,966	3,216	10.65	
	11.75	3.936		3,322	9.40	
	12	4,033	3,062	3,430	7.97	
	12.25		3,159	3,538	6.40	
-	12.5	4,129	3.255	3,646	4.83	-
-	10 50		3,352	3,754	3.31	_
	12,59	4,261	3,387	3,793	2.78	3

# TABLE 1 "EGLON" O.N. 619729



## COPY: DUPLICATE

副子			Certificate Number: A110119I
	Internation	nal	
Toi	nnage Certific	ate (1969)	
9	Issued under the provision onal Convention on Tonnage Mea under the authority of the Gove	ns of the surement of Ships, 1969,	
UI	NITED STATES OF		
for whic	h the Convention came into force	on February 10, 1983, by	
	AMERICAN BUREAU O	F SHIPPING	
Name of Ship	Distinctive Number or Letters	Port of Registry	* Date
EGLON	ON 619729	PORTLAND, OR	1980
66 57 m (218 4 ft)	18 29 m (60.0 ft)	4.72 m	115541
66.57 m(218.4 ft)	18.29 m (60.0 ft)	4.72 m	(15.5 ft)
	THE TONNAGES OF THE	SHIP ARE:	
	TONNAGE1524TONNAGE457		
The Government of the United States in accordance with the provisions of			
Issued at Houston, TX	Date issue		
SNAMA.			-
The state of the second		rsigned declares that he is duly a ited States Government to issue	
and the second	4	laste Treoler	Institute Off
AL AND IN	1	M. TREDER Principal Engineer	Issuing Officer



## **EGLON DECK BARGE**

## LOAD TABLE

FT.	IN.	CARGO WEIGHT	FT.	IN.	CARGO WEIGHT	FT.	IN.	CARGO WEIGHT
3'	1"		6'	0"	1085	9'	0"	2,282
3'	2"	17	6'	1"	1,118	9'	1"	2,316
3'	3"	48	6'	2"	1,150	9'	2"	2,350
3'	4"	78	6'	3"	1,183	9'	3"	2,384
3'	5"	109	6'	4"	1,215	9'	4"	2,418
3'	6"	139	6'	5"	1,248	9'	5"	2,452
3'	7"	170	6'	6"	1,281	9'	6"	2,487
3'	8"	201	6'	7"	1,313	9'	7"	2,521
3'	9"	232	6'	8"	1,346	9'	8"	2,555
3'	10"	262	6'	9"	1,379	9'	9"	2,590
3'	11"	293	6'	10"	1,412	9'	10"	2,624
4'	0"	324	6'	11"	1,444	9'	11"	2,659
4'	1"	355	7'	0"	1,477	10'	0"	2,693
4'	2"	386	7'	1"	1,510	10'	1"	2,728
4'	3"	418	7'	2"	1,543	10'	2"	2,762
4'	4"	449	7'	3"	1,576	10'	3"	2,797
4'	5"	480	7'	4"	1,610	10'	4"	2,832
4'	6"	511	7'	5"	1,643	10'	5"	2,866
4'	7"	543	7'	6"	1,676	10'	6"	2,901
4'	8"	574	7'	7"	1,709	10'	7"	2,936
4'	9"	606	7'	8"	1,743	10'	8"	2,971
4'	10"	637	7'	9"	1,776	10'	9"	3,006
4'	11"	669	7'	10"	1,809	10'	10"	3,041
5'	0"	701	7'	11"	1,843	10'	11"	3,076
5'	1"	733	8'	0"	1,876	11'	0"	3,111
5'	2"	764	8'	1"	1,910	11'	1"	3,146
5'	3"	796	8'	2"	1,943	11'	2"	3,181
5'	4"	828	8'	3"	1,977	11'	3"	3,216
5'	5"	860	8'	4"	2,011	11'	4"	3,251
5'	6"	892	8'	5"	2,044	11'	5"	3,287
5'	7"	924	8'	6"	2,078	11'	6"	3,323
5'	8"	956	8'	7"	2,112	11'	7"	3,359
5'	9"	989	8'	8"	2,146	11'	8"	3,394
5'	10"	1,021	8'	9"	2,180	11'	9"	3,430
5'	11"	1,053	8'	10"	2,214	11'	10"	3,466
			8'	11"	2,248	11'	11"	3,502

FT.	IN.	CARGO WEIGHT	
12'	0"	3428	
12'	1"	3,574	
12'	2"	3,610	
12'	3"	3,646	
12'	4"	3,683	
12'	5"	3,719	
12'	6"	3,755	
12'	7"	3,791	
12'	8"	3,827	
12'	9"	3,863	
12'	10"	3,899	
12'	11"	3,936	
13'	0"	3,972	

\*Cargo capacities in short tons for salt water

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AILING PORT		HULL MATERIAL			MECHANICAL PROPULSION
KETCHIKAN AK GROSS TONNAGE		STEEL	LENCTH	BREADTH	NO
SRUSS TUNNAGE	NET TONNAGE		LENGTH	BREADTH	DEPTH
			240.4	00.0	15.5
1524 GT ITC PLACE BUILT	457 NT ITC	$\wedge$	218.4	60.0	15.5
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Documented vessels may be registered by states for tax and other purposes and may be required to display a state decal. Renewal is the responsibility of the owner. This certificate becomes invalid upon a change in ownership, change in state of incorporation, or a change in any other element shown on the certificate other than change of address. This certificate is invalid for any vessel other than one documented solely for recreation when the vessel is placed under the command of a person who is not a citizen of the U.S. The vessel and its equipment are liable to seizure and forfeiture to the U.S. government and the owner is liable for a civil penalty of not more than \$10,000.00 per violation. Each day of a continuing violation is a separate violation.

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IF SOLD (TRANSFERRED) TO MORE THAN ONE PERSON, THE PURCHASER(S)/TRANSFEREE(S) ARE TENANTS IN COMMON, EACH OWNING AN EQUAL UNDIVIDED INTEREST, UNLESS OTHERWISE INDICATED HEREIN: CHECK ONLY ONE OF THE FOLLOWING BLOCKS TO SHOW ANOTHER FORM OF OWNERSHIP.
OTHER
SIGNATURE OF SELLER(S)/TRANSFEROR(S) OR PERSONS SIGNING ON BEHALF OF SELLER(S)/TRANSFEROR(S):
DATE SIGNED: NAME(S) OF PERSON(S) SIGNING ABOVE, AND LEGAL CAPACITY IN WHICH SIGNED (E.G. OWNER, AGENT, TRUSTEE, EXECUTOR)
ACKNOWLEDGMENT (TO BE COMPLETED BY NOTARY PUBLIC OR OTHER OFFICIAL AUTHORIZED BY A LAW OR A STATE OR THE UNITED STATES TO TAKE OATHS.) STATE:
ON THE PERSON(S) NAMED COUNTY:
ABOVE ACKNOWLEDGED EXECUTION OF THE FOREGOING INSTRUMENT IN THEIR STATED CAPACITY(IES) FOR THE PURPOSES THEREIN CONTAINED.
NOTARY PUBLIC MY COMMISSION EXPIRES:
PRIVACY ACT STATEMENT IN ACCORDANCE WITH 5 USC 552(A). THE FOLLOWING INFORMATION IS PROVIDED TO YOU WHEN SUPPLYING PERSONAL INFORMATION TO THE U.S. COAST GUARD:
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2. <u>THE PRINCIPAL PURPOSES</u> FOR WHICH THIS INSTRUMENT IS TO BE USED ARE:
<ul> <li>(A) TO PROVIDE A RECORD, AVAILABLE FOR PUBLIC INSPECTION AND COPYING, OF THE SALE OR OTHER CHANGE IN OWNERSHIP OF A VESSEL WHICH IS DOCUMENTED, WILL BE DOCUMENTED, OR HAS BEEN DOCUMENTED PURSUANT TO 46 USC, CHAPTER 121.</li> <li>(B) RETENTION FOR EXAMINATION BY GOVERNMENTAL AUTHORITIES AND MEMBERS OF THE GENERAL PUBLIC.</li> </ul>
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4. DISCLOSURE OF THE INFORMATION REQUESTED ON THIS FORM IS VOLUNTARY. HOWEVER, FAILURE TO PROVIDE THE INFORMATION COULD PRECLUDE FILING OF A BILL OF SALE AND DOCUMENTATION OF THE VESSEL NAMED HEREIN PURSUANT TO 46 USC CHAPTER 121. MOREOVER, BILLS OF SALE WHICH ARE NOT FILED ARE NOT DEEMED TO BE VALID AGAINST ANY PERSON HAVING ACTUAL KNOWLEDGE OF THE SALE. (46 USC 31321 (A)).
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<b>AX</b> 681678922419

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OTHER
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STATE:
ON THE PERSON(S) NAMED COUNTY:
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<b>AX</b> 686067422419

Department of Homeland Security United States Coast Guard National Pollution Funds Center Arlington VA 20598-7100

#### COFR# 818659

Vessel Operator BOYER TOWING, INC.

Name of Vessel **KUMTUX** 

COFR information is now fully electronic and you are no longer required to carry a COFR certificate onboard your vessel. If you would like a hardcopy for your records, please right-click and print this certificate.



NPFC Home

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VESSEL NAME	VESSEL TYPE	HULL	GROSS TONNAGE	COFR	EFFECTIVE	EXPIRATION	COFR APPLICANT	VIN	INSURANCE CANCEL FLAG
а кимтих	BARGE AND SCOW		1628	818659 - 19	6/10/2019	6/10/2022	BOYER TOWING, INC.	D636360	
BOYER	BARGE AND SCOW		1946	818659 - 19	6/10/2019	6/10/2022	BOYER TOWING, INC.	D582292	
A MADISON BAY	BARGE AND SCOW		2941	818659 - 19	6/10/2019	6/10/2022	BOYER TOWING, INC.	D644434	
MARIE H	TUG AND TOWBOAT		455	818659 - 19	11/19/2019	11/19/2022	BOYER TOWING, INC.	D7716969	
A MARTIN RAY	BARGE AND SCOW		5690	818659 - 19	8/9/2019	8/9/2022	BOYER TOWING, INC.	D570177	
MILLER BAY	BARGE AND SCOW		2164	818659 - 19	9/13/2019	9/13/2022	BOYER TOWING, INC.	D1233697	
MISTER ED	BARGE AND SCOW		537	818659 - 19	6/10/2019	6/10/2022	BOYER TOWING, INC.	D566700	
O PORPOISE	BARGE AND SCOW		339	818659 - 19	6/10/2019	6/10/2022	BOYER TOWING, INC.	D285683	
SEABECK	BARGE AND SCOW		2377	818659 - 19	6/10/2019	6/10/2022	BOYER TOWING, INC.	D993445	
THLINGIT	BARGE AND SCOW		858	818659 - 19	6/10/2019	6/10/2022	BOYER TOWING, INC.	D503216	
< Prev Next >									

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**United States of America Department of Homeland Security** United States Coast Guard

Certification Date: 15 May 2023 Expiration Date: 15 May 2028

# For ships on international voyages this certificate fulfills the requirements of SOLAS 74 as amended, regulation V/14, for a SAFE MANNIE

ended, regulation V/14, for a SAFE MANNING DOCUMENT.

	· (	Official Number	IMO Nu	πber	Call Sign	Service	
KUMTUX	(	636360				Freight	Barge
Hailing Port				ە 		,	
KETCHIKAN, AK		Hull Material	Hor	sepower	Propulsion		
, , , , , , , , , , , , , , , , , , ,		Steel			None		
UNITED STATES			•	-			
Place Built		Deliana Dete			·		
MARYSVILLE WA		Delivery Date	Keel Laid Date	Gross Tons	Net Tons	DWT	Length
		01Jan1981		R-1628	R-1628		R-219.7
UNITED STATES	•		•	l-1714	F214		F510.7
Owner			Operat	or			
BOYER TOWING INC			BOY	ER TOWIN	G INC		
5061 SHORELINE DRPC	D BOX 8000				E DRIVEPO	BOX 8000	•
KETCHIKAN, AK 99901 UNITED STATES				CHIKAN, AH			
			UNI	IED STATE	5		
This vessel must be mann	ed with the folk	wing licensed	and unlicense	d Personnel	Included in w	which there mu	st be
0 Certified Lifeboatmen, 0	Certified Tank	ermen, 0 HSC	Type Rating,	and 0 GMDS	SS Operators.		31.06
0 Masters	0 Licensed Mate	s 0 Chief	Engineers	0 Oi	lers		
0 Chief Mates	0 First Class Pil	ots 0 First /	Assistant Enginee	ers			
0 Second Mates	0 Radio Officers		nd Assistant Engi				
0 Third Mates	0 Able Seamen		Assistant Engine				
O Montor Einst Olana Dites	0 Ordinary Sean		sed Engineers				_
0 Master First Class Pilot							•
0 Mate First Class Pilot 0 Mate First Class Pilots	0 Deckhands		fied Member Engi	neer			
	0 Deckhands	0 Qualif	fied Member Engi		ns in addition to	o crew, and no	Others. Total
0 Mate First Class Pilots In addition, this vessel may Persons allowed: 0	0 Deckhands y carry 0 Passe	0 Qualit ngers, 0 Other	fied Member Engi		ns in addition t	o crew, and no	Others. Total
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		Departr	nent of	Homel	America and Securit st Guard	Certificati Expiration	
	Certí	fíca	te	of	Insp	ection	
Vessel Name: KUMTUX							•
Hull Exams			•				
Exam Type	Next Exam	1		Last E	xam	Prior Ex	am
DryDock	31Oct2025	5		26Oc	2020	12Nov2	015
Internal Structure	31Oct2025	5		31Ma	r2023	26Oct2	020
Stability							*
Туре	Issued Date	e	Office				
Letter	02Dec1980		USCG		٥	•	۵
Liquid/Gas/Solid							
Authorization:	ourgo Auti	01119/00	mantie	/13			
Total Capacity Units	Hia	hest Grade	Type	Part15	1 Regulated	Part153 Regulated	Part154 Regulated
	i ng		, type	No	rivegulateu	No	. 2
				NO		NU	No .
*Hazardous Bulk Solids A	Authority*		•				
Not Authorized			•				
*Conditions Of Carriage*						. *	
Ŭ	• .			•			
Lifesaving Equipn	nent			•			٩
Total Equipment for Q Perso	ons						
Primary Lifesaving Equipme	ent	Quantity	Сара	acity	,	•	Required
Lifeboats (Total)		0	0		Life Preser	vers (Adult)	0
Lifeboats (Port)		0	0		Life Preser	vers (Child)	0
Lifeboats (Starboard)		0	0		Ring Buoys	s (Total)	0
Motor Lifeboats		0	ο.		With	Lights	Q
Lifeboats With Radio		0	0		With	Line Attached	0
Rescue Boats/Platforms		0	0		Other	-	0
Inflatable Rafts		0	0		Immersion		0
Life Floats/Buoyant App		0	0.		Portable Li	feboat Radios	0
Inflatable Buoyant Apparatu		0	0		Equipped V		NO

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Certificate No.: 8125884-5117034-027

Deadweight: 0

## INTERNATIONAL LOAD LINE CERTIFICATE

Issued under the provisions of the International Convention on Load Lines, 1966, as modified by the Protocol of 1988 relating thereto under the authority of the Government of

United States of America

Commandant, U.S. Coast Guard

#### by American Bureau of Shipping

Particulars of Ship

Name of Sh	ip	Distinctive Number or Letters		
KUMTUX			636360	
Port of Registry	Length(L) as defined	in Article 2(8)	IMO Number	
Ketchikan, AK	210 Feet 8-5/8	3 Inches	-	

Freeboard Assigned as: New

Type of Ship: Type B - Reduced

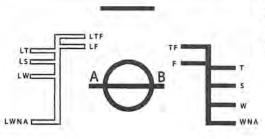
Freeboard from	Deck Line:			Lo	ad Line
Tropical	2 Feet 6-7	/8 Inches	(T)	2-3/4 Inches	above (S)
Summer	2 Feet 9-5	/8 Inches	(S)	Upper edge of line	e through center of ring
Winter	3 Feet 3/8	Inches	(W)	2-3/4 Inches	below (S)
Winter North Atlantic	3 Feet 2-3	/8 Inches	(WNA)	4-3/4 Inches	below (S)
Timber Tropical	N/A		(LT)	N/A	above (LS)
Timber Summer	N/A	1	(LS)	N/A	above (S)
Timber Winter	N/A		(LW)	N/A	below (LS)
Timber Winter North Atlantic	N/A		(LWNA)	N/A	below (LS)
Allowance for fresh water for all	freeboards ot	her than timber:	2-3/4 Inches		

For timber freeboards: N/A

The upper edge of the deck line from which these freeboards are measured is:

Opposite The Top of Upper Steel

deck at side.



STABILITY HAS BEEN CHECKED AND FOUND SATISFACTORY PROVIDED RESTRICTIONS IN U.S. COAST GUARD'S ATTACHED STABILITY LETTER DATED 02 DECEMBER 1980 ARE OBSERVED. THIS CERTIFICATE IS VALID FOR UNMANNED OPERATION ONLY.

#### THIS IS TO CERTIFY:

- 1. That the ship has been surveyed in accordance with the requirements of article 14 of the Convention.
- 2. That the survey showed that the freeboards have been assigned and load lines shown above have been marked in accordance with the Convention.

This certificate is valid until 31 October 2025 2

Subject to the annual surveys in accordance with article 14(1)(c) of the Convention.

Completion date of the survey on which this certificate is based:	07 April 2021
---	---------------

Issued at	Seattle, United States	on	21 January 2022	
	(Place of issue of certificate)		(Date of issue)	
	ALAZE		ally Signed By annon, Seattle Port	
			can Bureau of Shipping)	
	SEATELE			

#### NOTES:

- 1. When a ship departs from a port situated on a river or inland waters, deeper loading shall be permitted corresponding to the weight of fuel and all other materials required for consumption between the point of departure and the sea.
- When a ship is in fresh water of unit density the appropriate load line may be submerged by the amount of fresh water allowance shown above. Where the density is other than unity, an allowance shall be made proportional to the difference between 1.025 and the actual density.
- It is the owner's responsibility to furnish the master with approved information and instructions for loading and ballasting this vessel to provide guidance as to stability of the vessel under varying conditions of service and to avoid unacceptable stresses in the vessel's structure, as defined in 46 CFR 42.09-1.
- 4. The Winter North Atlantic Load Line applies only to vessels of 328 ft. in length or less, which enter any part of the North Atlantic Ocean during the winter months as defined by the Load Line Regulations in 46 CFR 42.30-5 and 42.30-35. The periods during which the other seasonal load lines apply in different parts of the world are stated in the Load Line Regulations 46 CFR 42.30-5 to 42.30-30, inclusive.
- 5. This Load Line Certificate will be cancelled by the Commandant, U. S. Coast Guard, if ...
  - a) The annual surveys have not been carried out within three months either way of each anniversary date of the certificate.
  - b) The certificate is not endorsed to show that the ship has been surveyed as indicated in (a).
  - c) Material alterations have been made to the hull or superstructures such as would necessitate the assignment of an increased freeboard.
  - d) The fittings and appliance for the protection of the openings, guardrails, freeing ports, or the means of access to the crew's quarters have not been in as effective a condition as they were when the Certificate was issued.
  - e) The structural strength of the ship is lowered to such an extent that the ship is unsafe.
- 6. When this Certificate has expired or been cancelled, it must be delivered to the Assigning Authority.



<sup>2</sup> Insert the date of expiry as specified by the Administration in accordance with article 19(1) of the Convention. The day and the month of this date correspond to the anniversary date as defined in article 2(9) of the Convention, unless amended in accordance with article 19(8) of the Convention.

88 HSSC LL

Certificate No.: 8125884-5117034-027

Deadweight: 0

#### ENDORSEMENT FOR ANNUAL SURVEYS

	$\bigcirc$	$\overline{D}$ (()
Annual Survey:	Signed:	(Surveyor, American Bureau of Shipping)
	Place: Seu	HIP, WASHINGTON USATE
	Date: 2	
Annual Survey:	Signed:	
Annual Gulvey.		(Surveyor, American Bureau of Shipping)
	Place:	
	Date:	
Annual Survey:	Signed:	
		(Surveyor, American Bureau of Shipping)
	Place:	
	Date:	
Annual Survey:	Signed:	
		(Surveyor, American Bureau of Shipping)
	Place:	
	Date:	

THIS IS TO CERTIFY that, at a survey in accordance with article 19(8)(c) of the Convention, the ship was found to comply with the relevant requirements of the Convention.

	Signed:	
		(Surveyor, American Bureau of Shipping)
	Place:	
	Date:	
	SEMENT TO EXTEND THE	CERTIFICATE IF VALID FOR ARTICLE 19(3) APPLIES
	t requirements of the Convention	, and this certificate shall, in accordance with article 19(3)
ABS	Signed:	(Support Amorican Purpou of Chipping)
"Ads	D	(Surveyor, American Bureau of Shipping)
	Place:	
	Date:	

11-2

Certificate No.:8125884-5117034-027 Deadweight: 0

#### ENDORSEMENT WHERE THE RENEWAL SURVEY HAS BEEN COMPLETED AND ARTICLE 19(4) APPLIES

The ship complies with the relevant requirements of the Convention, and this certificate shall, in accordance with article 19(4) of the Convention, be accepted as valid until

Signed:

(Surveyor, American Bureau of Shipping)

Place: Date:

#### ENDORSEMENT TO EXTEND THE VALIDITY OF THE CERTIFICATE UNTIL REACHING THE PORT OF SURVEY OR FOR A PERIOD OF GRACE WHERE ARTICLE 19(5) OR 19(6) APPLIES

This certificate shall, in accordance with article 19(5)/19(6)<sup>3</sup> of the Convention, be accepted as valid until

Signed:

(Surveyor, American Bureau of Shipping)

Place: Date:

#### ENDORSEMENT FOR ADVANCEMENT OF ANNIVERSARY DATE WHERE ARTICLE 19(8) APPLIES

In accordance with article 19(8) of the Convention, the new anniversary date is

Signed:

(Surveyor, American Bureau of Shipping)

Place: Date:

In accordance with article 19(8) of the Convention, the new anniversary date is

Signed:

(Surveyor, American Bureau of Shipping)

Place:

Date:



## INTERNATIONAL TONNAGE CERTIFICA (1969)

Issued under the provisions of the International Convention on Tonnage Measurement of Ships, 1969, of der the authority of the Government of

#### The United States of America

(full official designation of country)

## For which the Convention came into force on 10 February 1983

#### THE AMERICAN BUREAU OF SHIPPING

Name of Ship	Distinctive Numbers or Letters	Port of Registry	* Date
KUMTUX	636360	JUNEAU, ALASKA	8 OCTOBER 1980

\* Date on which the keel was laid or the ship was at a similar stage of construction (Article 2(6)), or date on which the ship underwent alterations or modifications of a major character (Article 3(2) (b) ), as appropriate.

#### MAIN DIMENSIONS

Length (Article 2(5))	Breadth (Regulation 2(3))	Moulded Depth amidships to Upper Deck (Regulation 2(2))
64.22M	19.51M	4.33M
(210.7 FT)	(64.0 FT)	(14.2 FT)

#### THE TONNAGES OF THE SHIP ARE:

GROSS TONNAGE	1714=
NET TONNAGE	514=

This is to certify that the tonnages of this ship have been determined in accordance with the provisions of the International Convention of Tonnage Measurement of Ships, 1969.

Issued at Houston, Texas U.S.A. (place of issue of certificate)

8 AUGUST 1994 (date of issue)

If signed, the following paragraph is to be added: The undersigned declares that he is duly authorized by the said Government to issue this certificate.



ale (Signature)

(Signature) Secretary American Bureau of Shipping

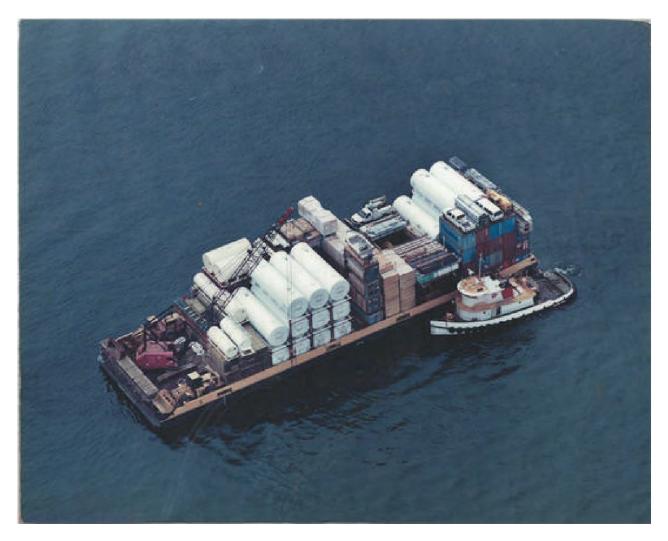
ine) م المقال المقال

## **BOYER TOWING, INC.**

P.O. Box 8000 Ketchikan, Alaska 99901 Phone (206) 763-8696 Fax (206) 767-9517

## **KUMTUX**

Official No: 636360



#### **Overall Dimensions:**

Length: 220ft. Beam: 64ft. Depth: 14ft.

#### Useable Deck:

Length: 210ft. Cargo Capacity: 3000 Tons Beam: 61 ft.

#### **Regulatory:**

Gross Tonnage: 3,000 GRT Net Tonnage: 3,000 NRT USCG Certified ABS A-1 Barge



## DEPARTMENT OF TRANSPORTATION UNITED STATES COAST GUARD



Commander (mmt) Twelfth Coast Guard Dist. 630 Sansome Street San Francisco, CA 94126 Tel: (415) 556-1515 TX: 330459

16710/HALVORSEN BARGE 2 December 1980

REGEIVED

Nichow & Spenking he

Nickum & Spaulding Associates, Inc. Attn: Mr. Gordon C. Snyder 911 Western Avenue Seattle, WA 98104

- Subj: HALVORSEN BARGE Hull 432
  220' x 64' x 14' Deck Cargo Barge
  Oceans
  Halvorsen Towing, Inc.
  Specification, Structure, Stability
- Ref: (a) Nickum & Spaulding transmittal dated 16 October 1980, Ref. #80058
  (b) ABS letter to Nickum & Spaulding dated 10 October 1980

#### Gentlemen:

The specifications for the subject vessel, submitted with reference (a), are returned stamped approved. This approval does not attest to the completeness of the specifications, nor does it signify that they are free from details which are inconsistent with the required plans that will be submitted. Review of these specifications was done on the premise that this vessel will be certificated for an ocean route under the provisions of Title 46, Code of Federal Regulations, Parts 90 through 97. Plan review of the required drawings will be conducted using this subchapter, other applicable CFR subchapters specified therein, and applicable Navigation and Vessel Inspection Circulars.

Enclosures (1) and (2) are approved subject to the construction, installation, workmanship and testing being satisfactory to the cognizant Officer in Charge, Marine Inspection and the following comment:

1. Approval of these drawings is subject to the inclusion of all requirements, amendments and annotations by the American Bureau of Shipping.

Enclosures (3) through (5) are marked examined.

The stability of the subject vessel has been reviewed with respect to loadline assignment. The subject vessel has adequate intact stability for all normal operating conditions in ocean service for a maximum draft of 11 feet - 6 inches (molded), provided the following restrictions are complied with:

- 1. No bulk liquids may be carried.
- 2. When operating as a deck cargo barge:

<u>Draft</u>	Allowable VCGC	
Below 10'	22'-0"	(22.0')



2 December 1980

Subj: Halvorsen Barge - Hull 432 Specification, Structure, Stability

10'-0" 10'-6"		21'-6" 17'-2"	(21.5') (17.17') —	
11'-0"	(loadline)	12'-4.5" 7'-0"	(12.38') (7.0')_	

Kunitu

3. For intermediate drafts between tabulated values, the allowable CVCG shall be interpolated, or the value for the deeper draft shall be utilized.

4. The maximum height of deck cargo shall not exceed twice the height of the cargo center of gravity above the main deck.

5. Trim by the bow or stern shall not exceed 2'-2".

The above restrictions (1) through (5) must be placed on or attached to the Load Line Certificate.

By copy of this letter the American Bureau of Shipping will be notified of the acceptability of the subject vessel stability.

Sincerely,

GEORGE J. BUFFLEBEN

Commander, U. S. Coast Guard Chief, Merchant Marine Technical Branch By direction of the District Commander

Encls: (1) Dwg. 80058-3, Midship & Typical Sections
 (2) Dwg. 80058-4, (2 shts), Scantling Plan
 (3) Dwg. 80058-1, Outboard Profile & Deck
 (4) Dwg. 80058-2, Lines & Offsets
 (5) Dwg. 80058-5, Stability Calculations

cc: OCMI, Seattle w/encls & Specifications
 ABS, New York w/o
 ABS, Seattle w/o
 COMDT (G-MMT-5/12) w/o



## **KUMTUX DECK BARGE**

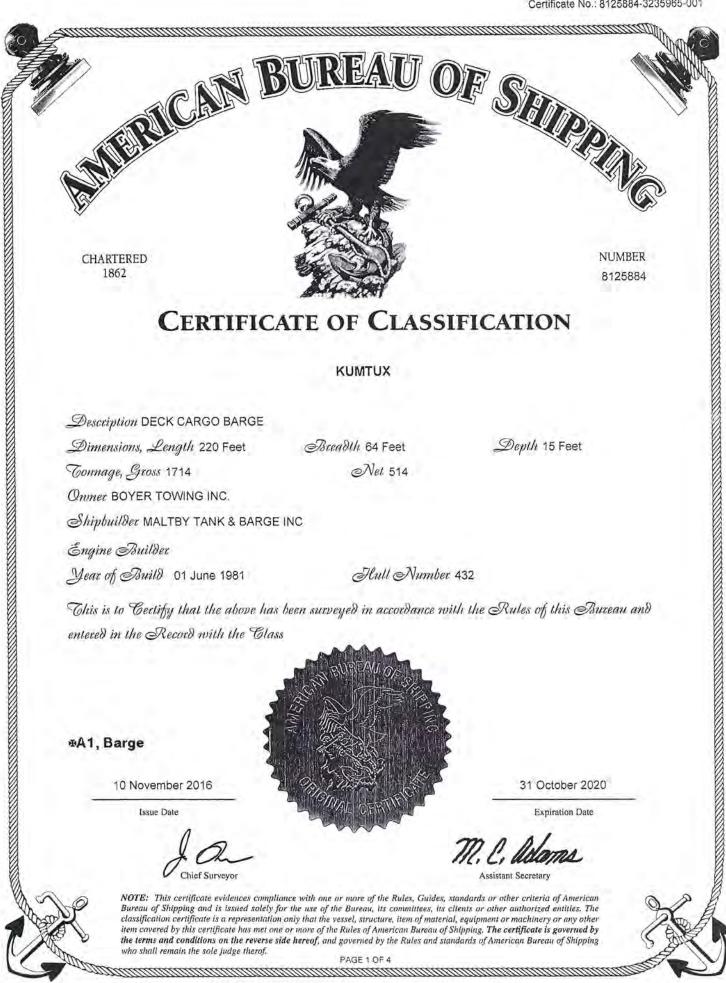
## LOAD TABLE

FT.	IN	CARGO WEIGHT	FT.	IN.	CARGO WEIGHT	FT.	IN	CARGO WEIGHT
3'	5.77"	0.0	6'	0"	914.5	8'	7"	1,946.70
3'	6"	6.5	6'	1"	946.4	8'	8"	1,981.30
3'	7"	35.2	6'	2"	978.3	8'	9"	2,016.20
3'	8"	64.0	6'	3"	1,010.4	8'	10"	2,051.10
3'	9"	92.9	6'	4"	1,042.6	8'	11"	2,086.00
3'	10"	122.0	6'	5"	1,074.8	9'	0"	2,121.10
3'	11"	151.1	6'	6"	1,107.2	9'	1"	2,156.30
4'	0"	180.3	6'	7"	1,139.6	9'	2"	2,191.60
4'	1"	209.8	6'	8"	1,172.1	9'	3"	2,227.00
4'	2"	239.2	6'	9"	1,204.8	9'	4"	2,262.60
4'	3"	268.9	6'	10"	1,237.6	9'	5"	2,298.20
4'	4"	298.7	6'	11"	1,270.4	9'	6"	2,333.90
4'	5"	328.5	7'	0''	1,303.3	9'	7"	2,369.70
4'	6"	358.6	7'	1"	1,336.4	9'	8"	2,405.50
4'	7"	388.6	7'	2"	1,369.5	9'	9"	2,441.40
4'	8"	418.7	7'	3"	1,402.8	9'	10"	2,477.40
4'	9"	448.9	7'	4"	1,436.1	9'	11"	2,513.40
4'	10"	479.3	7'	5"	1,469.5	10'	0"	2,549.40
4'	11"	509.7	7'	6"	1,503.1	10'	1"	2,585.50
5'	0"	540.2	7'	7"	1,536.7	10'	2"	2,621.70
5'	1"	570.8	7'	8"	1,570.4	10'	3"	2,657.90
5'	2"	601.6	7'	9"	1,604.3	10'	4"	2,694.20
5'	3"	632.4	7'	10"	1,638.2	10'	5"	2,730.50
5'	4"	663.4	7'	11"	1,672.2	10'	6"	2,766.90
5'	5"	694.4	8'	0"	1,706.4	10'	7"	2,803.30
5'	6"	725.5	8'	1"	1,740.6	10'	8"	2,839.80
5'	7"	756.8	8'	2"	1,774.7	10'	9"	2,876.30
5'	8"	788.1	8'	3"	1,808.9	10'	10"	2,912.90
5'	9"	819.6	8'	4 <sup>11</sup>	1,843.2	10'	11"	2,949.60
5'	10"	851.1	8'	5"	1,877.6	11'	0"	2,986.20
5'	11"	882.8	8'	6"	1,912.1	11'	1"	3,023.00

FT. IN.		CARGO WEIGHT
11'	2"	3,059.7
11'	3"	3,096.6
11'	4"	3,133.5
11'	5"	3,170.4
11'	6"	3,207.4
11'	7"	3,244.4
11'	8"	3,281.5

\*Cargo capacities in short tons for salt water

Certificate No.: 8125884-3235965-001



#### TERMS AND CONDITIONS

1. The issuance and interpretation of the class certificate is subject to the terms and conditions of the "Request for Classification and Agreement" (hereinafter "the Agreement") which are hereby incorporated by reference.

#### 2. REPRESENTATIONS AS TO CLASSIFICATION

Classification is a representation by ABS as to the structural and mechanical fitness for a particular use or service in accordance with its Rules and standards. The Rules of American Bureau of Shipping are not meant as a substitute for the independent judgment of professional designers, naval architects and marine engineers nor as a substitute for the quality control procedures of shipbuilders, engine builders, steel makers suppliers, manufacturers and sellers of marine vessels, materials, machinery or equipment. ABS being a technical society can only act through Surveyors or others who are believed by it to be skilled and competent.

ABS represents solely to the vessel Owner or other client (hereinafter "Client") of ABS that when assigning class it will use due diligence in the development of Rules, Guides and standards and in using normally applied testing standards, procedures and techniques as called for by the Rules, Guides, standards or other criteria of ABS for the purpose of assigning and maintaining class. ABS further represents to the Client of ABS that its certificates and reports evidence compliance only with one or more of the Rules, Guides, standards or other criteria of ABS in accordance with the terms of such certificate or report. Under no circumstances whatsoever are these representations to be deemed to relate to any third party.

#### 3. RESPONSIBILITY AND LIABILITY

It is understood and agreed that the class certificate (hereinatter referred to as "certificate") issued as part of the services rendered under the Agreement is a representation only that the vessel, structure, item of material, equipment or machinery or any other item covered by a certificate has met one or more of the Rules or standards of American Bureau of Shipping and is issued solely for the use of ABS, its committees, clients or other authorized entities. The validity, applicability and interpretation of a certificate issued under the terms of or in contemplation of the Agreement is governed by the Rules and standards of American Bureau of Shipping and any report issued in contemplation of this certificate shall be deemed to relieve any designer, builder, owner, manufacturer, seller, supplier, repairer, operator or other entity of any warrantly express or implied nor to create any interest, right, claim or benefit in any third party. It is understood and agreed that nothing expressed herein is intended or shall be construed to give any person, firm or corporation, other the the parties hereto, any right, remedy or claim hereunder or under any provisions herein contained; all provisions hereof are for the sole and exclusive benefit of the parties hereto.

#### 4. SUSPENSION AND CANCELLATION OF CLASS

The continuance of the Classification of any vessel is conditional upon the Rule requirements for periodical, damage and other surveys being duly carried out. The Committee reserves the right to reconsider, withhold, suspend, or cancel the class of any vessel or any part of the machinery for noncompliance with the Rules, for defects reported by the Surveyors which have not been rectified in accordance with their recommendations, or for nonpayment of fees which are due on account of Classification, Statutory and Cargo Gear Surveys. Suspension or cancellation of class may take effect immediately or after a specified period of time.

#### 5. LIMITATION

ABS makes no representations beyond those contained herein and in the provisions of the request for classification regarding its reports, statements, plan review, surveys, cartificates or other services.

#### 6. HOLD HARMLESS

THE PARTY TO WHOM THIS CERTIFICATE IS ISSUED, OR HIS ASSIGNEE OR SUCCESSOR IN INTEREST, AGREES TO RELEASE ABS AND TO INDEMNIFY AND HOLD HARMLESS ABS FROM AND AGAINST ANY AND ALL CLAIMS, DEMANDS, LAWSUITS, OR ACTIONS FOR DAMAGES, INCLUDING LEGAL FEES, TO PERSONS OR OTHER LEGAL ENTITIES AND/OR PROPERTY, TANGIBLE, INTANGIBLE OR OTHERWISE WHICH MAY BE BROUGHT AGAINST ABS INCIDENTAL TO, ARISING OUT OF OR IN CONNECTION WITH THE WORK DONE, SERVICES PERFORMED OR MATERIAL TO BE FURNISHED UNDER THIS CERTIFICATE, EXCEPT FOR THOSE CLAIMS CAUSED SOLELY AND COMPLETELY BY THE NEGLIGENCE OF ABS, ITS AGENTS, EMPLOYEES, OFFICERS, DIRECTORS OR SUBCONTRACTORS.

ANY OTHER INDIVIDUAL OR PARTY WHO CLAIMS A RIGHT HEREUNDER OR WHO CLAIMS TO BE A BENEFICIARY OR ANY PORTION OF THE SERVICES RENDERED IN COMTEMPLATION OF THIS CERTIFICATE SHALL INDEMNIFY AND HOLD ABS HARMLESS FROM AND AGAINST ALL CLAIMS, DEMANDS, LAWSUITS OR ACTIONS FOR DAMAGES, INCLUDING LEGAL FEES, TO PERSONS AND/OR PROPERTY, TANGIBLE, INTANGIBLE OR OTHERWISE WHICH MAY BE BROUGHT AGAINST ABS BY ANY PERSON OR ENTITY AS A RESULT OF THE SERVICES PERFORMED IN COMTEMPLATION OF THIS CERTIFICATE, EXCEPT FOR THOSE CLAIMS CAUSED SOLELY AND COMPLETELY BY THE NEGLIGENCE OF ABS, ITS AGENTS, EMPLOYEES, OFFICERS, DIRECTORS, OR SUBCONTRACTORS.

#### 7. LIMITATION OF LIABILITY

THE COMBINED LIABILITY OF AMERICAN BUREAU OF SHIPPING, ITS COMMITTEES, OFFICERS, EMPLOYEES, AGENTS OR SUB-CONTRACTORS FOR ANY LOSS, CLAIM OR DAMAGE ARISING FROM ITS NEGLIGENT PERFORMANCE OR NONPERFORMANCE OF ANY DF ITS SERVICES OR FROM BREACH OF ANY IMPLIED OR EXPRESS WARRANTY OF WORKMANLIKE PERFORMANCE IN CONNECTION WITH THOSE SERVICES, OR FROM ANY OTHER REASON, TO ANY PERSON, CORPORATION, PARTNERSHIP, BUSINESS ENTITY, SOVEREIGN, COUNTRY OR NATION, WILL BE LIMITED TO THE GREATER OF A) \$100,000 OR B) AN AMOUNT EQUAL TO TEN TIMES THE SUM ACTUALLY PAID FOR THE SERVICES ALLEGED TO BE DEFICIENT.

THE LIMITATION OF LIABILITY MAY BE INCREASED UP TO AN AMOUNT TWENTY-FIVE (25) TIMES THAT SUM PAID FOR SERVICES UPON RECEIPT OF CLIENT'S WRITTEN REQUEST AT OR BEFORE THE TIME OF PERFORMANCE OF SERVICES AND UPON PAYMENT BY CLIENT OF AN ADDITIONAL FEE OF \$10.00 FOR EVERY \$1,000.00 INCREASE IN THE LIMITATION.

#### 8. ARBITRATION

Any and all differences and disputes of whatsoever nature arising out of this certificate shall be put to arbitration before a board of three persons, consisting of one arbitrator to be appointed by ABS, one by Client and one by the two so chosen. The decision of any two of the three on any point or points shall be final. Until such time as the arbitrators finally close the hearings either party shall have the right by written notice served on the arbitrators and on an officer of the other party to specify further disputes or differences under this certificate for hearing and determination. The arbitrators may grant any relief other than punitive damages which they, or a majority of them, deam just and equitable and within the scope of the agreement of the parties, including, but not limited to specific performance. Awards made in pursuance to this clause may include costs including and eallowance for attorney's fees and judgment may be entered upon any award made hereunder in any court having jurisdiction. ABS and Client hereby mutually waive any and all claims to punitive damages in any forum.

Client shall be required to notify ABS within thirty (30) days of the commencement of any arbitration between it and third parties which may concern ABS's work in connection with this certificate and shall afford ABS an opportunity, at ABS's sole option, to participate in the arbitration.

## ADDITIONAL INFORMATION Major Hull Modification

NEW HULL SECTION DESCRIPTION:			
DATE OF MODIFICATION:	S. S. S.	0	
	ICE CLASS NOTATION	(24.5)	
MAXIMUM ICE DRAUGHT FWD:	AMIDSHIPS:	AFT:	
MINIMUM ICE DRAUGHT FWD:	AMIDSHIPS:	AFT:	10

AUTOMATION NOTATION



NUMBER OF UNATTENDED HOURS:

OPERATING RESTRICTIONS

ADDITIONAL NOTATIONS

RECORD COMMENTS

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#### ANNUAL SURVEY ENDORSEMENT

Place SEATTLE QUASHINGTON, USA	Date 10 NOVEMBER 2016
SIGnature) SPARPETTE	Surveyor to the American Bureau of Shipping
Place KETCHIKON, ALASKA, USA	Date OG-FEBRUARY-ZD18
(Signature) PROVE 7. 204; S.	Surveyor to the American Bureau of Shipping
Place Seattle WA USA	Date 28 January 2019
(Signature)	Surveyor to the American Bureau of Shipping
Place SERVICE WA USA	Date \$4 DECCHBER 2019
(Signature)	
Place Scattle, WA, USA Brendan Ward (Signature)	Date <u>28</u> January 2019 Surveyor to the American Bureau of Shipping
(Signature) EXTENSION OF	CLASS CERTIFICATE
THIS CLASSIFICATION CE	RTIFICATE IS EXTENDED UNTIL
	Date
Place	Date
	Surveyor to the American Bureau of Shipping
not endorsed annually within three months of the due	ically suspended and the certificate automatically becomes invalid, if date of the annual survey, or if the certificate is not endorsed for three months of the due date of the third annual survey.
in the second	the unit of the due date of the unit annual survey.

	KP - 1&2 DECK BARGE LOAD TABLE									
Average Draft	Cargo Weight	Average Draft	Cargo Weight	Average Draft	Cargo Weigh					
2'-3"	7.8	5'-3"	737.3	8'-3"	1,503.3					
2'-4"	27.2	5'-4"	758.5	8'-4"	1,553.2					
2'-5"	46.7	5'-5"	779.7	8'-5"	1,576.2					
2'-6"	66.2	5'-6"	801.0	8'-6"	1,599.2					
2'-7"	85.7	5'-7"	822.3	8'-7"	1,622.3					
2'-8"	105.3	5'-8"	843.6	8'-8"	1,645.5					
2'-9"	125.0	5'-9"	865.1	8'-9"	1,668.6					
2'-10"	144.7	5'-10"	886.5	8'-10"	1,691.9					
2'-11"	164.4	5'-11"	908.0	8'-11"	1,715.1					
3'-0"	184.2	6'-0"	929.6	9'-0"	1,738.5					
3'-1"	204.1	6'-1"	951.2	9'-1"	1,761.8					
3'-2"	224.0	6'-2"	972.9	9'-2"	1,785.3					
3'-3"	243.9	6'-3"	994.6	9'-3"	1,808.7					
3'-4"	263.9	6'-4"	1,016.3	9'-4"	1,832.2					
3'-5"	283.9	6'-5"	1,038.1	9'-5"	1,855.8					
3'-6"	304.0	6'-6"	1,060.0	9'-6"	1,879.4					
3'-7"	324.2	6'-7"	1,081.9	9'-7"	1,903.1					
3'-8"	344.4	6'-8"	1,103.9	9'-8"	1,926.8					
3'-9"	364.6	6'-9"	1,125.9	9'-9"	1,950.6					
3'-10"	384.9	6'-10"	1,147.9	9'-10"	1,974.4					
3'-11"	405.2	6'-11"	1,170.0	9'-11"	1,998.3					
4'-0"	425.6	7'-0"	1,192.2	10'-0"	2,022.2					
4'-1"	446.1	7'-1"	1,214.4	10'-1"	1,046.1					
4'-2"	466.5	7'-2"	1,286.6	10'-2"	2,070.1					
4'-3"	487.1	7'-3"	1,258.9	10'-3"	2,094.1					
4'-4"	507.7	7'-4"	1,281.3	10'-4"	2,118.1					
4'-5"	528.3	7'-5"	1,303.7	10'-5"	2,142.1					
4'-6"	549.0	7'-6"	1,326.1	10'-6"	2,166.1					
4'-7"	569.7	7'-7"	1,348.6	10'-7"	2,190.1					
4'-8"	590.5	7'-8"	1,371.1	10'-8"	2,214.1					
4'-9"	611.3	7'-9"	1,393.7	10'-9"	2,238.1					
4'-10"	632.2	7'-10"	1,416.4	10'-10"	2,262.1					
4'-11"	653.1	7'-11"	1,439.1	10'-11"	2,286.1					
5'-0"	674.1	8'-0"	1,461.8	11'-0"	2,200.1					
5'-1"	695.1	8'-1"	1,484.6	1.0	2,510.1					
5'-2"	716.2	8'-2"	1,507.4							

## ELLIOTT BAY DESIGN GROUP, LTD.

## **BOYER TOWING, INC.**

P.O. Box 8000 Ketchikan, Alaska 99901 Phone (206) 763-8696 Fax (206) 767-9517

KP-2 Official No: 597024



#### **Overall Dimensions:**

Length: 180 ft. Beam: 50 ft. Depth: 11.5 ft. Useable Deck: Length: 170 ft. Cargo Capacity: 1,800 Tons Beam: 45 ft.

## **Regulatory:**

Gross Tonnage: 907 GRT Net Tonnage: 907 NRT

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			DCUMENTAT		
CERT	TIFICA	TEOF	DOCU	IMENT	TATION
ESSEL NAME		OFFICIAL NUMBE		OTHER NUMBER	YEAR COMPLETED
KP 3 HAILING PORT		629728 HULL MATERIAL	622		1980 MECHANICAL PROPULSION
KETCHIKAN AK		STEEL			NO
GROSS TONNAGE	NET TONNAGE	A. 是一个一个主义之中。	LENGTH	BREADTH	DEPTH
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905 GRT	905 NRT	ANTER	180.0	50.0	11.5
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MANAGING OWNER				2	
BOYER TOWING, INC.				e l	
BOYER TOWING, INC. 5061 SHORELINE DRIVE					
BOYER TOWING, INC.					
BOYER TOWING, INC. 5061 SHORELINE DRIVE PO BOX 8000					
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BOYER TOWING, INC. 5061 SHORELINE DRIVE PO BOX 8000 KETCHIKAN AK 99901 RESTRICTIONS NONE ENTITLEMENTS NONE REMARKS NONE ISSUE DATE AUGUST 02, 2023 THIS CERTIFICATE EXPIR		Chuitan	J. Walk		
BOYER TOWING, INC. 5061 SHORELINE DRIVE PO BOX 8000 KETCHIKAN AK 99901 RESTRICTIONS NONE ENTITLEMENTS NONE REMARKS NONE ISSUE DATE AUGUST 02, 2023			H. Walken		

PREVIOUS EDITION OBSOLETE, THIS CERTIFICATE MAY NOT BE ALTERED

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This certificate is not valid for operation of the vessel until the vessel is marked with the name, official number, and hailing port as shown on the certificate. The original certificate must be kept aboard the vessel at all times when in operation and must be presented upon the demand of federal, state or local officials for law enforcement purposes. Vessels with only a recreational endorsement may not engage in commercial trade.

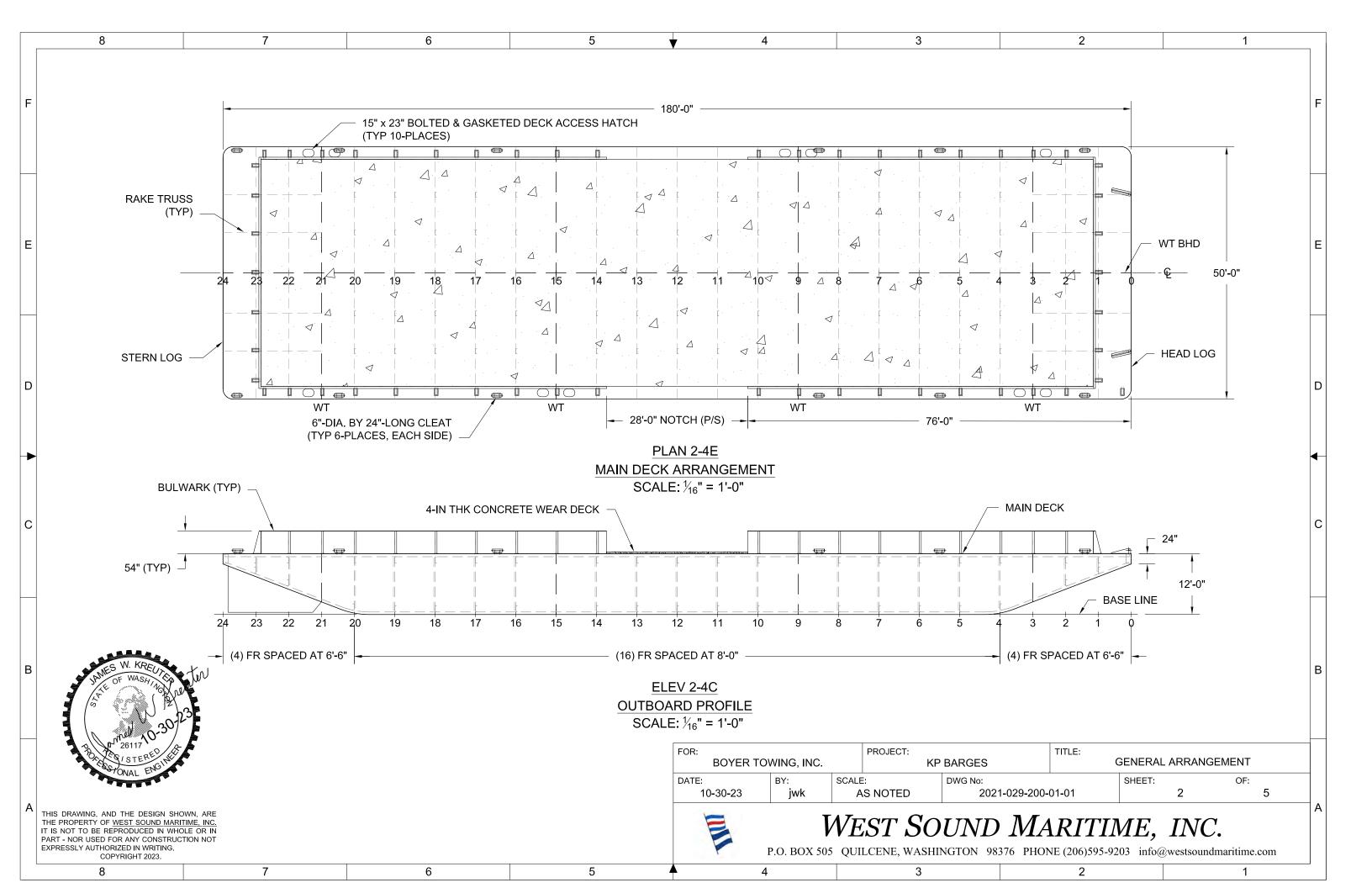
Documented vessels may be registered by states for tax and other purposes and may be required to display a state decal. Renewal is the responsibility of the owner. This certificate becomes invalid upon a change in ownership, change in state of incorporation, or a change in any other element shown on the certificate other than change of address. This certificate is invalid for any vessel other than one documented solely for recreation when the vessel is placed under the command of a person who is not a citizen of the U.S. The vessel and its equipment are liable to seizure and forfeiture to the U.S. government and the owner is liable for a civil penalty of not more than \$10,000.00 per violation. Each day of a continuing violation is a separate violation.

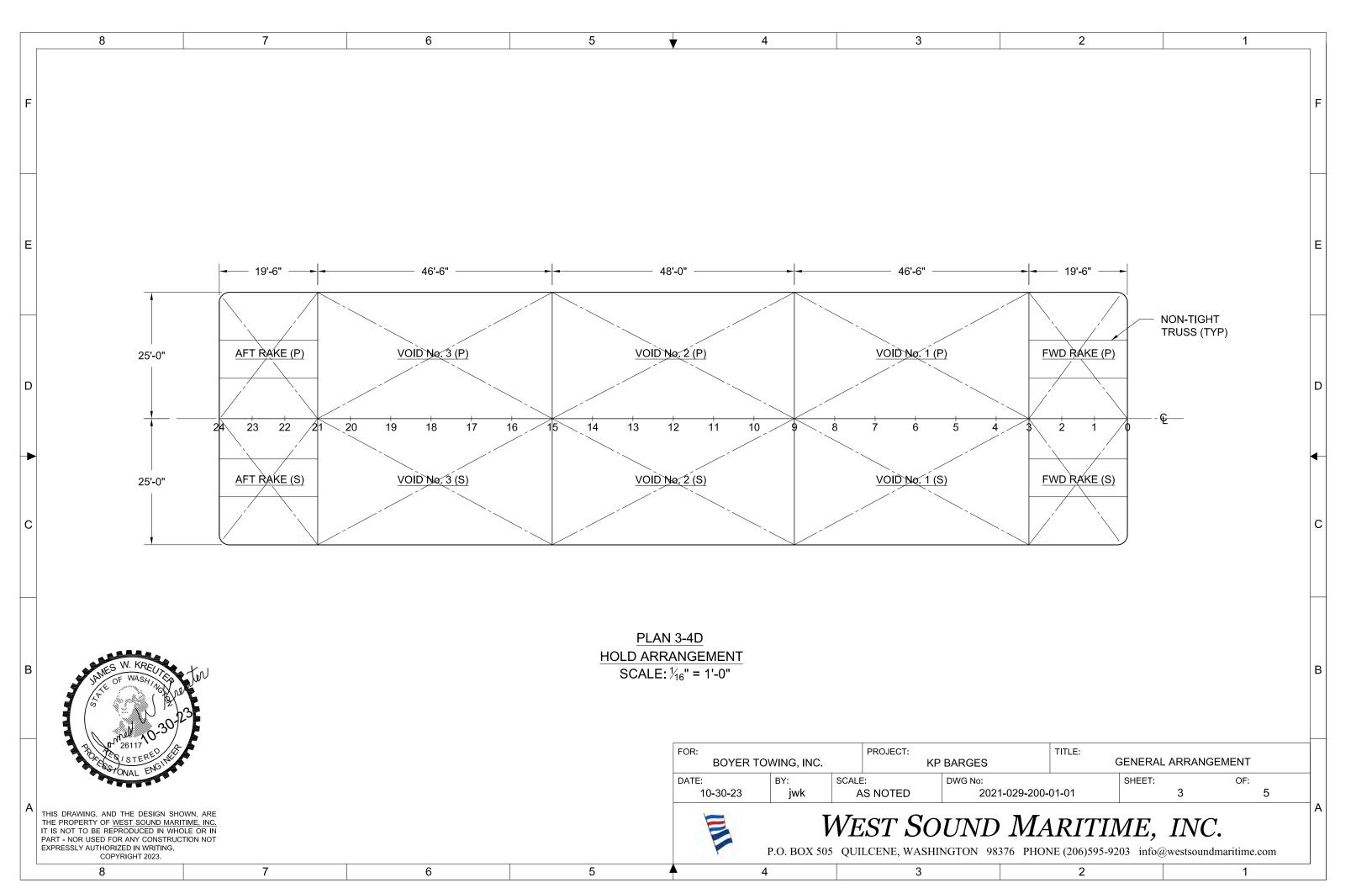
Any change in address of the managing owner must be reported promptly to the NVDC. You may contact us at nvdc.w.webmaster@uscg.mil.

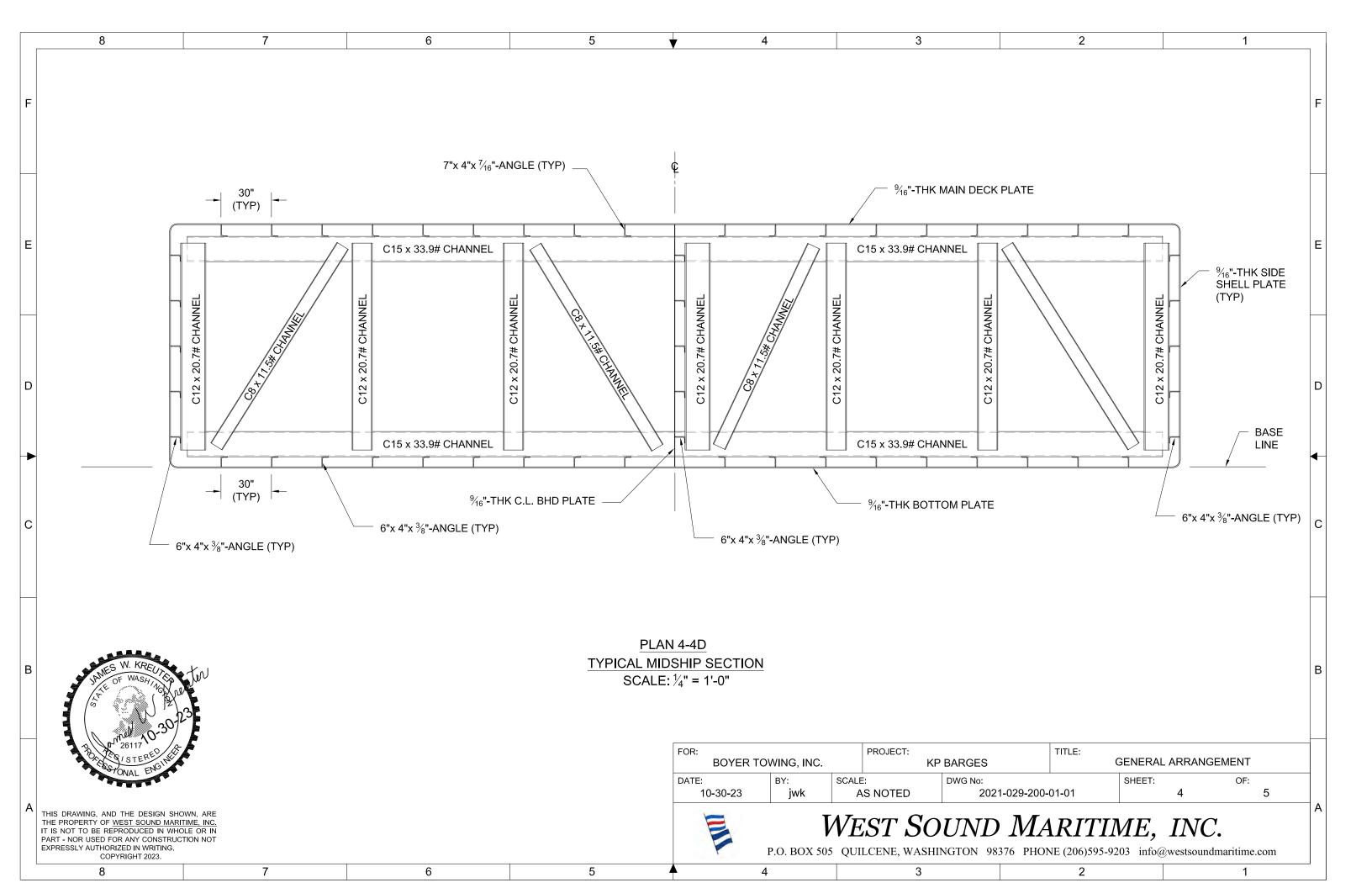
issu	<b>Note:</b> The certificate on the face of this document is not conclusive evidence of title in any proceeding where ownership is in i.e. Complete records are on file at the NVDC. The sale or transfer section below is provided for convenience only.
1009 FOL	SALE OR TRANSFER OF VESSEL % OF THE VESSEL IDENTIFIED HEREIN IS SOLD (TRANSFERRED) BY THE OWNER(S) NAMED ON THE FACE OF THIS CERTIFICATE TO THE LOWING PERSON(S). ADDRESS MUST BE INCLUDED.
EQU	DLD (TRANSFERRED) TO MORE THAN ONE PERSON. THE PURCHASER(S)/TRANSFEREE(S) ARE TENANTS IN COMMON, EACH OWNING AN AL UNDIVIDED INTEREST, UNLESS OTHERWISE INDICATED HEREIN: CHECK ONLY ONE OF THE FOLLOWING BLOCKS TO SHOW ANOTHER M OF OWNERSHIP.
	JOINT TENANCY WITH RIGHT OF SURVIVORSHIP       TENANCY BY THE ENTIRETIES       COMMUNITY PROPERTY         OTHER
SIGN	ATURE OF SELLER(S)/TRANSFEROR(S) OR PERSONS SIGNING ON BEHALF OF SELLER(S)/TRANSFEROR(S):
	DATE SIGNED:
NAM	E(S) OF PERSON(S) SIGNING ABOVE, AND LEGAL CAPACITY IN WHICH SIGNED (E.G. OWNER, AGENT, TRUSTEE, EXECUTOR)
ACKI THE	NOWLEDGMENT (TO BE COMPLETED BY NOTARY PUBLIC OR OTHER OFFICIAL AUTHORIZED BY A LAW OR A STATE OR UNITED STATES TO TAKE OATHS.)
(	ON THE PERSON(S) NAMED STATE:
	(DATE) COUNTY:
	ABOVE ACKNOWLEDGED EXECUTION OF THE FOREGOING INSTRUMENT IN THEIR STATED CAPACITY(IES) FOR THE PURPOSES THEREIN CONTAINED.
	NOTARY PUBLIC MY COMMISSION EXPIRES:
IN AC	PRIVACY ACT STATEMENT CORDANCE WITH 5 USC 552(A). THE FOLLOWING INFORMATION IS PROVIDED TO YOU WHEN SUPPLYING PERSONAL INFORMATION TO THE U.S. COAST GUARD:
1.	AUTHORITY. SOLICITATION OF THIS INFORMATION IS AUTHORIZED BY 46 USC CHAPTER 313 AND 46 CFR, PART 67.
2.	THE PRINCIPAL PURPOSES FOR WHICH THIS INSTRUMENT IS TO BE USED ARE:
	<ul> <li>(A) TO PROVIDE A RECORD, AVAILABLE FOR PUBLIC INSPECTION AND COPYING, OF THE SALE OR OTHER CHANGE IN OWNERSHIP OF A VESSEL WHICH IS DOCUMENTED, WILL BE DOCUMENTED, OR HAS BEEN DOCUMENTED PURSUANT TO 46 USC, CHAPTER 121.</li> <li>(B) RETENTION FOR EXAMINATION BY GOVERNMENTAL AUTHORITIES AND MEMBERS OF THE GENERAL PUBLIC.</li> </ul>
3.	THE ROUTINE USE WHICH MAY BE MADE OF THIS INFORMATION INCLUDES DEVELOPMENT OF STATISTICAL DATA CONCERNING DOCUMENTED VESSELS.
	DISCLOSURE OF THE INFORMATION REQUESTED ON THIS FORM IS VOLUNTARY. HOWEVER, FAILURE TO PROVIDE THE INFORMATION COULD PRECLUDE FILING OF A BILL OF SALE AND DOCUMENTATION OF THE VESSEI. NAMED HEREIN PURSUANT TO 46 USC CHAPTER 121. MOREOVER, BILLS OF SALE WHICH ARE NOT FILED ARE NOT DEEMED TO BE VALID AGAINST ANY PERSON HAVING ACTUAL KNOWLEDGE OF THE SALE. (46 USC 31321 (A)).
	AN AGENCY MAY NOT CONDUCT OR SPONSOR, AND A PERSON IS NOT REQUIRED TO RESPOND TO A COLLECTION OF INFORMATION UNLESS IT DISPLAYS A VALID OMB CONTROL NUMBER.
	THE COAST GUARD ESTIMATES THAT THE AVERAGE BURDEN FOR THIS FORM IS 20 MINUTES FOR COMPLETING AND 5 MINUTES FOR FILING. YOU MAY SUBMIT ANY COMMENTS CONCERNING THE ACCURACY OF THIS BURDEN ESTIMATE OR ANY SUGGESTIONS FOR REDUCING THE BURDEN TO: U.S. COAST GUARD, NATIONAL VESSEL DOCUMENTATION CENTER, 792 T J JACKSON DRIVE, FALLING WATERS, WEST VIRGINIA 25419 OR OFFICE OF MANAGEMENT AND BUDGET, PAPERWORK REDUCTION PROJECT (1625-0027), WASHINGTON, DC 20503.

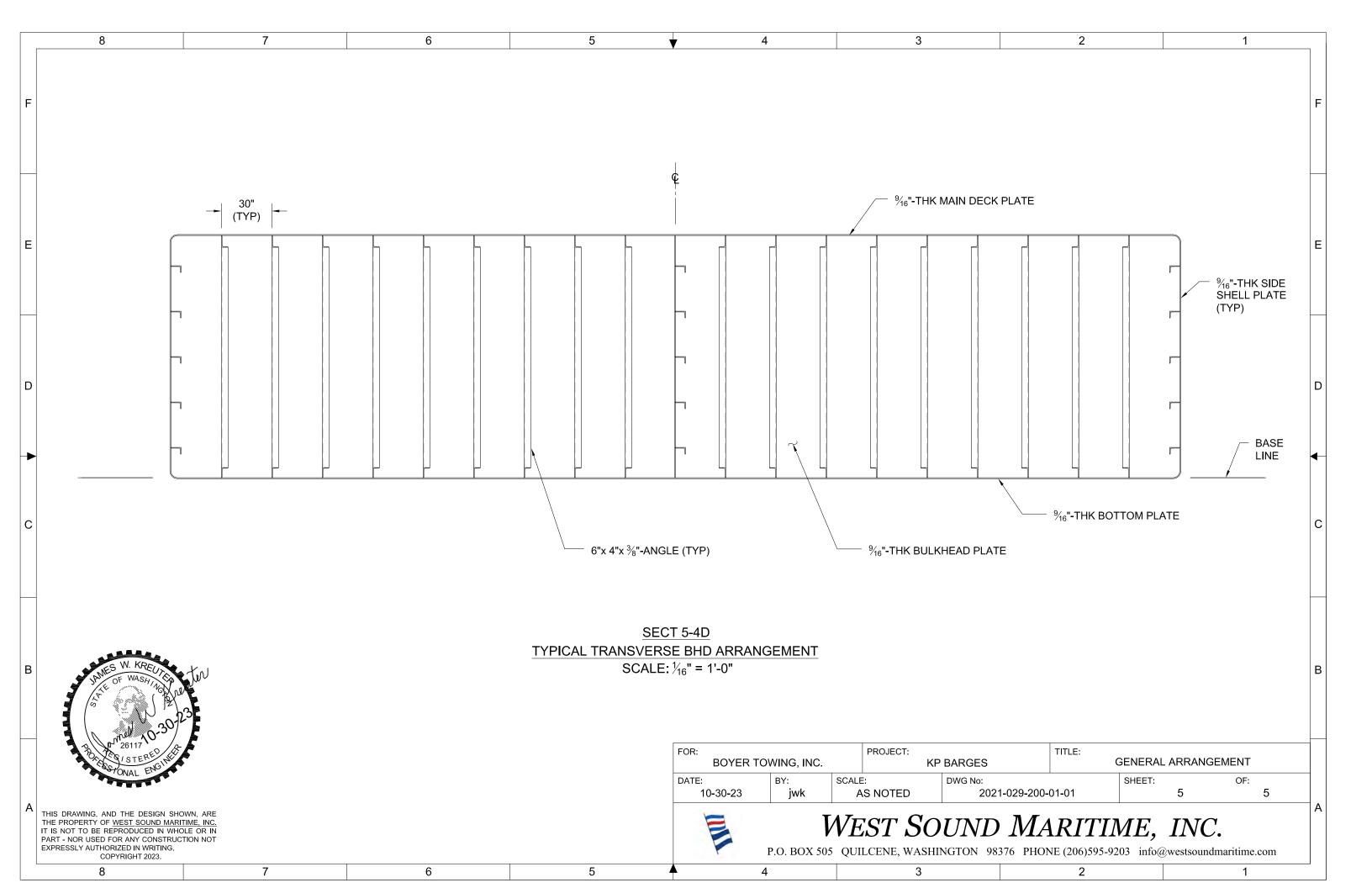
AW 670715022419

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			GENERA	L NOTES					REVIS	IONS		
F	BOYER TOWING,	INC. OF KETC	HIKAN, ALASKA. <sup>·</sup>	THE BARGES ARE 180'-0" I	E "KP" BARGES, OWNED BY LONG (LOA) WITH A 50'-0"	REV	ZONE				DATE	APPVD
	KP-1 KP-2	DEPTH OF 12-0"	O.N. 612443	OWNS FOUR OF THESE BAR	JES, AS LISTED BELOW:							
	KP-2 KP-3 KP-4		O.N. 597024 O.N. 629728 O.N. 609944									
	2. THE KP BARGE D	ECKS HAVE NO	SHEER, AND NO C	AMBER.								
E												
D												
3	SAMES W. KREUTER	reter				2						
	26117 0-30	23				No.	DRAWING No.			RENCES	BY	DATE
	TO A STERED NEL					FOR: DATE:	BOYER TOWING BY: 0-30-23	, INC. PROJECT	KP BARGES DWG No:	TITLE:	GENERAL ARRANGEN	IENT OF: 5
THE PR IT IS NO PART -	RAWING, AND THE DESIGN S ROPERTY OF <u>WEST SOUND MA</u> OT TO BE REPRODUCED IN W NOR USED FOR ANY CONSTRU SSLY AUTHORIZED IN WRITING. COPYRIGHT 2023.	<u>ritime, inc.</u> Hole or in						WEST	SOUND	MARIT	TIME, INC. 95-9203 info@westsoundma	
	8		7	6	5		4		3	2		









	KP - 1&2 DECK BARGE LOAD TABLE									
Average Draft	Cargo Weight	Average Draft	Cargo Weight	Average Draft	Cargo Weigh					
2'-3"	7.8	5'-3"	737.3	8'-3"	1,503.3					
2'-4"	27.2	5'-4"	758.5	8'-4"	1,553.2					
2'-5"	46.7	5'-5"	779.7	8'-5"	1,576.2					
2'-6"	66.2	5'-6"	801.0	8'-6"	1,599.2					
2'-7"	85.7	5'-7"	822.3	8'-7"	1,622.3					
2'-8"	105.3	5'-8"	843.6	8'-8"	1,645.5					
2'-9"	125.0	5'-9"	865.1	8'-9"	1,668.6					
2'-10"	144.7	5'-10"	886.5	8'-10"	1,691.9					
2'-11"	164.4	5'-11"	908.0	8'-11"	1,715.1					
3'-0"	184.2	6'-0"	929.6	9'-0"	1,738.5					
3'-1"	204.1	6'-1"	951.2	9'-1"	1,761.8					
3'-2"	224.0	6'-2"	972.9	9'-2"	1,785.3					
3'-3"	243.9	6'-3"	994.6	9'-3"	1,808.7					
3'-4"	263.9	6'-4"	1,016.3	9'-4"	1,832.2					
3'-5"	283.9	6'-5"	1,038.1	9'-5"	1,855.8					
3'-6"	304.0	6'-6"	1,060.0	9'-6"	1,879.4					
3'-7"	324.2	6'-7"	1,081.9	9'-7"	1,903.1					
3'-8"	344.4	6'-8"	1,103.9	9'-8"	1,926.8					
3'-9"	364.6	6'-9"	1,125.9	9'-9"	1,950.6					
3'-10"	384.9	6'-10"	1,147.9	9'-10"	1,974.4					
3'-11"	405.2	6'-11"	1,170.0	9'-11"	1,998.3					
4'-0"	425.6	7'-0"	1,192.2	10'-0"	2,022.2					
4'-1"	446.1	7'-1"	1,214.4	10'-1"	1,046.1					
4'-2"	466.5	7'-2"	1,286.6	10'-2"	2,070.1					
4'-3"	487.1	7'-3"	1,258.9	10'-3"	2,094.1					
4'-4"	507.7	7'-4"	1,281.3	10'-4"	2,118.1					
4'-5"	528.3	7'-5"	1,303.7	10'-5"	2,142.1					
4'-6"	549.0	7'-6"	1,326.1	10'-6"	2,166.1					
4'-7"	569.7	7'-7"	1,348.6	10'-7"	2,190.1					
4'-8"	590.5	7'-8"	1,371.1	10'-8"	2,214.1					
4'-9"	611.3	7'-9"	1,393.7	10'-9"	2,238.1					
4'-10"	632.2	7'-10"	1,416.4	10'-10"	2,262.1					
4'-11"	653.1	7'-11"	1,439.1	10'-11"	2,286.1					
5'-0"	674.1	8'-0"	1,461.8	11'-0"	2,200.1					
5'-1"	695.1	8'-1"	1,484.6	1.0	2,510.1					
5'-2"	716.2	8'-2"	1,507.4							

## ELLIOTT BAY DESIGN GROUP, LTD.

## **BOYER TOWING, INC.**

P.O. Box 8000 Ketchikan, Alaska 99901 Phone (206) 763-8696 Fax (206) 767-9517

KP-3 Official No: 629728



## **Overall Dimensions:**

Length: 180 ft. Beam: 50 ft. Depth: 11.5 ft.

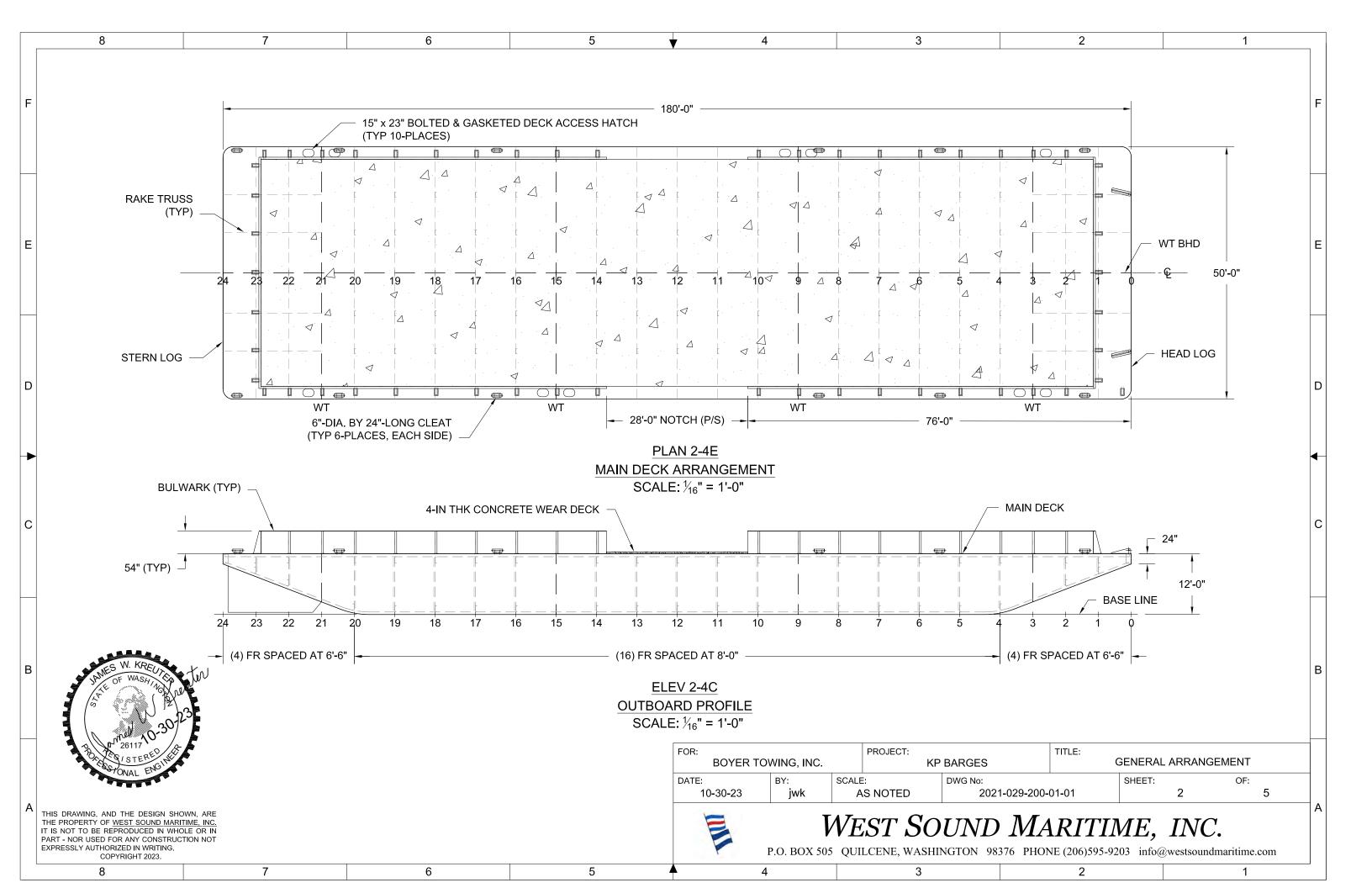
#### Useable Deck:

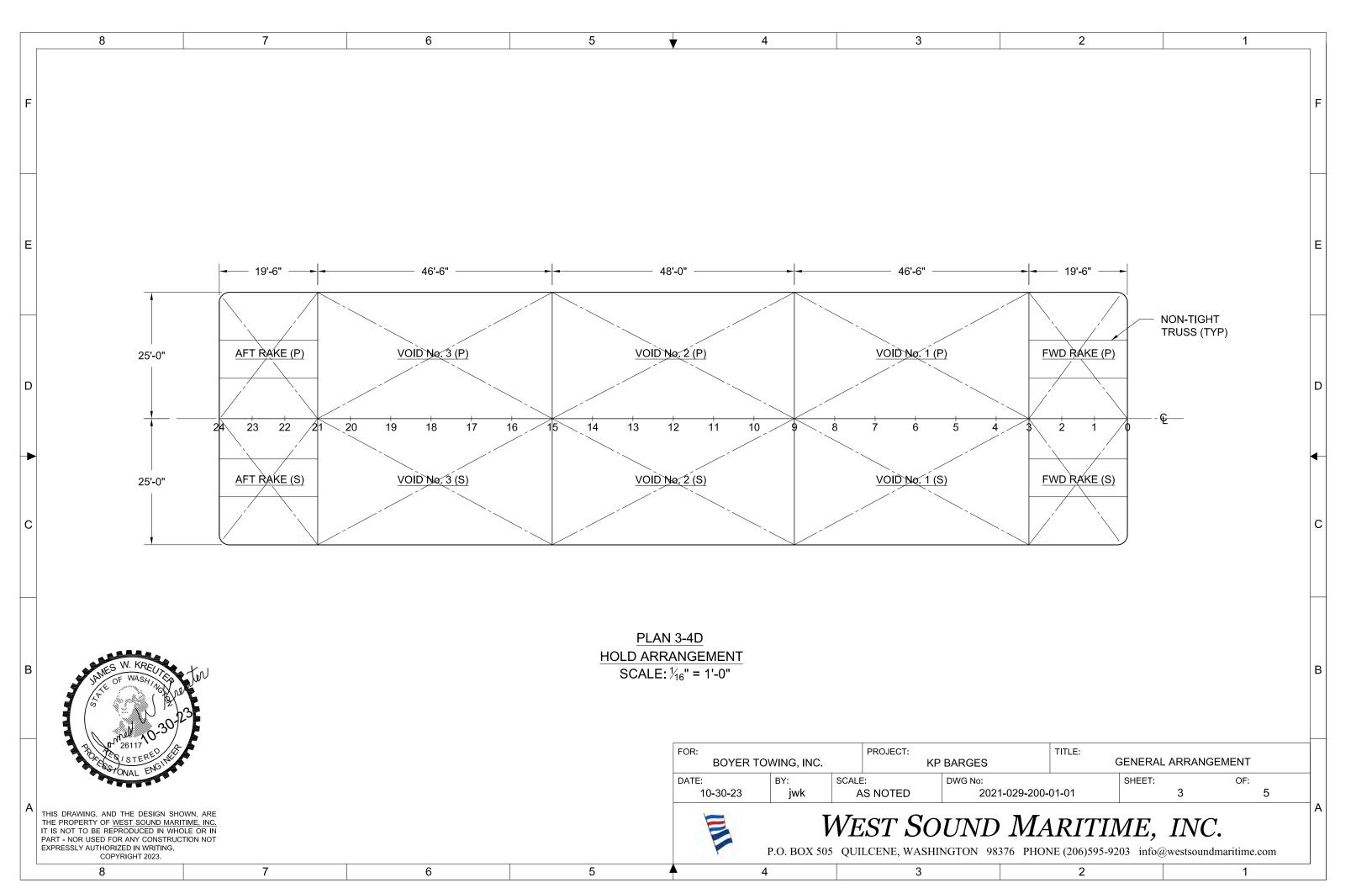
Length: 170 ft. Cargo Capacity: 1,800 Tons Beam: 45 ft.

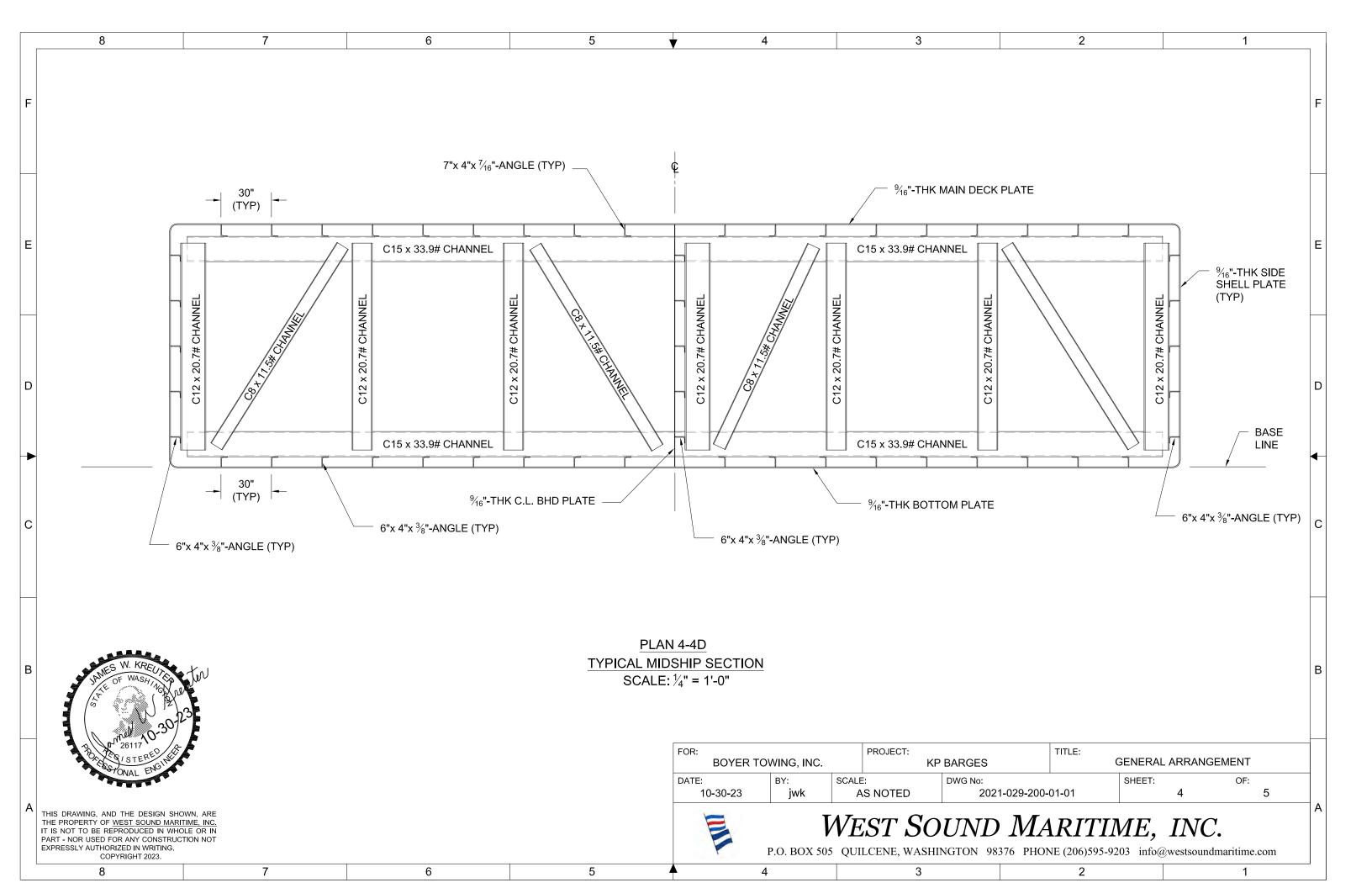
#### **Regulatory:**

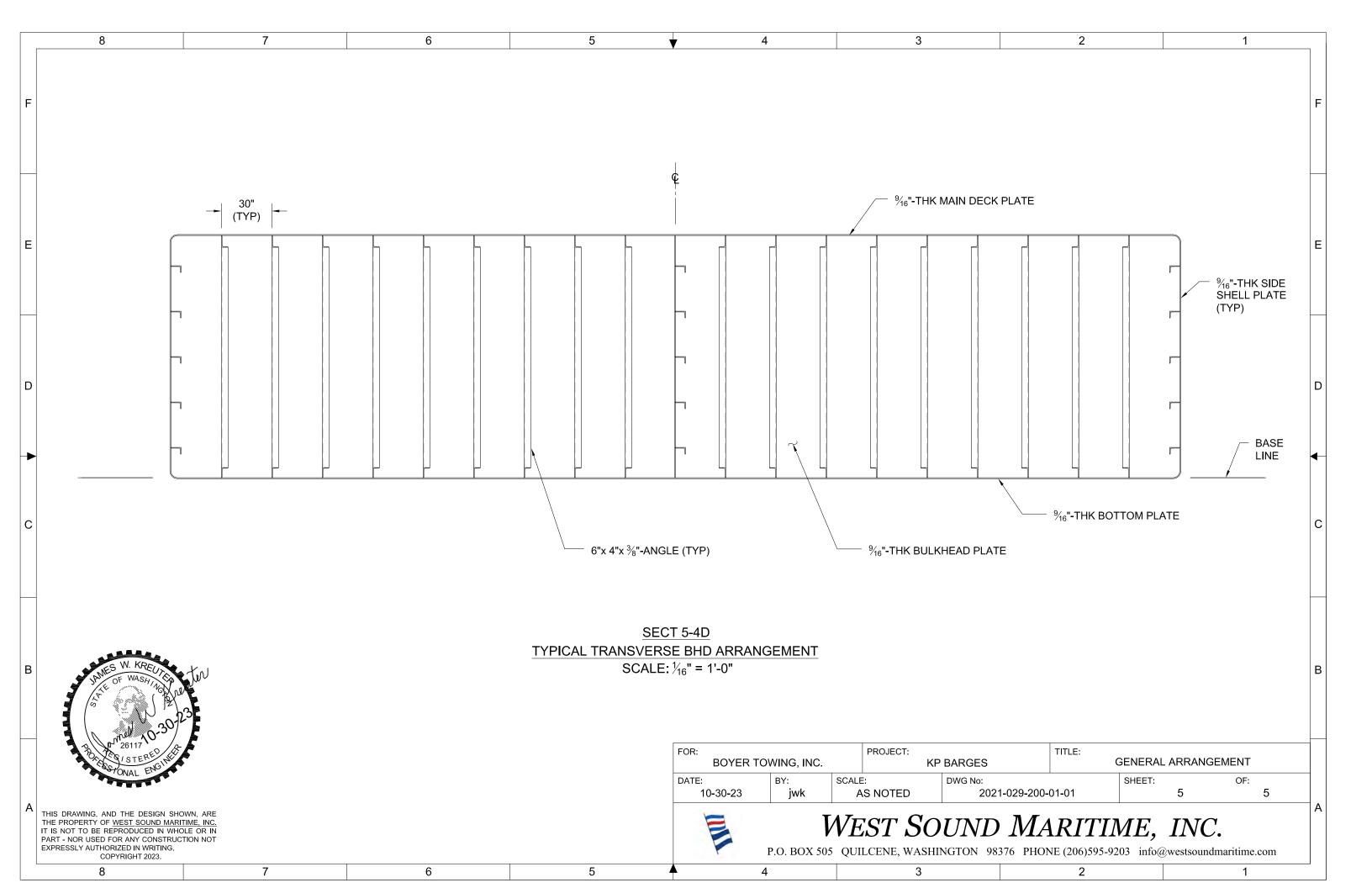
Gross Tonnage: 905 GRT Net Tonnage: 905 NRT

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			GENERA	L NOTES					REVIS	IONS		
F	BOYER TOWING,	INC. OF KETC	HIKAN, ALASKA. <sup>·</sup>	THE BARGES ARE 180'-0" I	E "KP" BARGES, OWNED BY LONG (LOA) WITH A 50'-0"	REV	ZONE				DATE	APPVD
	KP-1 KP-2	DEPTH OF 12-0"	O.N. 612443	OWNS FOUR OF THESE BAR	JES, AS LISTED BELOW:							
	KP-2 KP-3 KP-4		O.N. 597024 O.N. 629728 O.N. 609944									
	2. THE KP BARGE D	ECKS HAVE NO	SHEER, AND NO C	AMBER.								
E												
D												
>												
3	SAMES W. KREUTER	reter				2						
	26117 0-30	23				No.	DRAWING No.			RENCES	BY	DATE
	TO A STERED NEL					FOR: DATE:	BOYER TOWING BY: 0-30-23	, INC. PROJECT	KP BARGES DWG No:	TITLE:	GENERAL ARRANGEN	IENT OF: 5
THE PR IT IS NO PART -	RAWING, AND THE DESIGN S ROPERTY OF <u>WEST SOUND MA</u> OT TO BE REPRODUCED IN W NOR USED FOR ANY CONSTRU SSLY AUTHORIZED IN WRITING. COPYRIGHT 2023.	<u>ritime, inc.</u> Hole or in						WEST	SOUND	MARIT	TIME, INC. 95-9203 info@westsoundma	
	8		7	6	5		4		3	2		









# **BOYER TOWING, INC.**

P.O. Box 8000 Ketchikan, Alaska 99901 Phone (206) 763-8696 Fax (206) 767-9517

KP-4 Official No: 609944



## **Overall Dimensions:**

Length:	180 ft.
Beam:	50 ft.
Depth:	11.5 ft.

## **Useable Deck:**

Length:	170 ft.
Beam:	45 ft.

## **Regulatory:**

Built: 1979, Hood River, OR Gross Tonnage: 905 GRT Net Tonnage: 905 NRT

KP-4     60944     NONE     1979       HULLMATERIAL     MECHANICAL PROPULSION       SROSS TONNAGE     NET TONNAGE     NET TONNAGE       905 GRT     905 NRT     180.0     50.0       905 GRT     905 NRT     180.0     50.0       11.5     PACE BUILT     OPERATIONAL ENDORSEMENTS       HOOD RIVER OR     OPERATIONAL ENDORSEMENTS       BOYER TOWING INC     OPERATIONAL ENDORSEMENTS       S05 GRT     OPERATIONAL ENDORSEMENTS       REGISTRY     GOASTWISE	DHS, USCG, CG-1270 (REV. 01-23) UNITED STATES OF AMERICA 1625-0027									
NATIONAL VESSEL DOCUMENTATION CENTER         DESCRIPTION AGE         VERATIONAL PROPULSION         NAME         OPERATIONAL PROPULSION         NO OR OTHER NUMBER         VERATIONAGE         VERATIONAGE         PLACE BUILT         OPERATIONAL ENDORSEMENTS         RESTRICTIONS         DOPERATIONAL ENDORSEMENTS         ROUMER OR         OPERATIONAL ENDORSEMENTS         ROUMER OR         OPERATIONAL ENDORSEMENTS         ROUMING INC         MANAGING OWNER         ROUMING INC         RESTRICTIONS         RESTRICTIONS         RESTRICTIONS         RESTRICTIONS         RESTRICTIONS         RESTRICTIONS         NOTE         REMARKS         NOTE         MANAGING DOWNER         ROUMING INC         RESTRICTIONS         RESTRICTIONS         ROUMING INC <td cols<="" th=""><th colspan="9">DEPARTMENT OF HOMELAND SECURITY UNITED STATES COAST GUARD</th></td>	<th colspan="9">DEPARTMENT OF HOMELAND SECURITY UNITED STATES COAST GUARD</th>	DEPARTMENT OF HOMELAND SECURITY UNITED STATES COAST GUARD								
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PREVIOUS EDITION OBSOLETE, THIS CERTIFICATE MAY NOT BE ALTERED

This certificate is not valid for operation of the vessel until the vessel is marked with the name, official number, and hailing port as shown on the certificate. The original certificate must be kept aboard the vessel at all times when in operation and must be presented upon the demand of federal, state or local officials for law enforcement purposes. Vessels with only a recreational endorsement may not engage in commercial trade.

Documented vessels may be registered by states for tax and other purposes and may be required to display a state decal. Renewal is the responsibility of the owner. This certificate becomes invalid upon a change in ownership, change in state of incorporation, or a change in any other element shown on the certificate other than change of address. This certificate is invalid for any vessel other than one documented solely for recreation when the vessel is placed under the command of a person who is not a citizen of the U.S. The vessel and its equipment are liable to seizure and forfeiture to the U.S. government and the owner is liable for a civil penalty of not more than \$10,000.00 per violation. Each day of a continuing violation is a separate violation.

Any change in address of the managing owner must be reported promptly to the NVDC. You may contact NVDC at nvdc.w.webmaster@uscg.mil.

Note: The certificate on the face of this document is not conclusive evidence of title in any proceeding where ownership is in issue. Complete records are on file at the NVDC. The sale or transfer section below is provided for convenience only.
SALE OR TRANSFER OF VESSEL 100% OF THE VESSEL IDENTIFIED HEREIN IS SOLD (TRANSFERRED) BY THE OWNER(S) NAMED ON THE FACE OF THIS CERTIFICATE TO THE FOLLOWING PERSON(S). ADDRESS MUST BE INCLUDED.
IF SOLD (TRANSFERRED) TO MORE THAN ONE PERSON. THE PURCHASER(S)/TRANSFEREE(S) ARE TENANTS IN COMMON, EACH OWNING AN EQUAL UNDIVIDED INTEREST. UNLESS OTHERWISE INDICATED HEREIN: CHECK ONLY ONE OF THE FOLLOWING BLOCKS TO SHOW ANOTHER FORM OF OWNERSHIP.
JOINT TENANCY WITH RIGHT OF SURVIVORSHIP       TENANCY BY THE ENTIRETIES       COMMUNITY PROPERTY         OTHER       OTHER       OTHER
SIGNATURE OF SELLER(S)/TRANSFEROR(S) OR PERSONS SIGNING ON BEHALF OF SELLER(S)/TRANSFEROR(S):
DATE SIGNED:
NAME(S) OF PERSON(S) SIGNING ABOVE, AND LEGAL CAPACITY IN WHICH SIGNED (E.G. OWNER, AGENT, TRUSTEE, EXECUTOR)
ACKNOWLEDGMENT (TO BE COMPLETED BY NOTARY PUBLIC OR OTHER OFFICIAL AUTHORIZED BY A LAW OR A STATE OR THE UNITED STATES TO TAKE OATHS.)
ON THE PERSON(S) NAMED STATE:
(DATE) COUNTY:
ABOVE ACKNOWLEDGED EXECUTION OF THE FOREGOING INSTRUMENT IN THEIR STATED CAPACITY(IES) FOR THE PURPOSES THEREIN CONTAINED.
NOTARY PUBLIC MY COMMISSION EXPIRES:
PRIVACY ACT STATEMENT IN ACCORDANCE WITH 5 USC 552(A). THE FOLLOWING INFORMATION IS PROVIDED TO YOU WHEN SUPPLYING PERSONAL INFORMATION TO THE U.S. COAST GUARD:
<ol> <li><u>AUTHORITY</u>. SOLICITATION OF THIS INFORMATION IS AUTHORIZED BY 46 USC CHAPTER 313 AND 46 CFR. PART 67.</li> </ol>
<ol> <li><u>THE PRINCIPAL PURPOSES</u> FOR WHICH THIS INSTRUMENT IS TO BE USED ARE:</li> </ol>
<ul> <li>(A) TO PROVIDE A RECORD, AVAILABLE FOR PUBLIC INSPECTION AND COPYING, OF THE SALE OR OTHER CHANGE IN OWNERSHIP OF A VESSEL WHICH IS DOCUMENTED, WILL BE DOCUMENTED, OR HAS BEEN DOCUMENTED PURSUANT TO 46 USC. CHAPTER 121.</li> <li>(B) RETENTION FOR EXAMINATION BY GOVERNMENTAL AUTHORITIES AND MEMBERS OF THE GENERAL PUBLIC.</li> </ul>
3. THE ROUTINE USE WHICH MAY BE MADE OF THIS INFORMATION INCLUDES DEVELOPMENT OF STATISTICAL DATA CONCERNING DOCUMENTED VESSELS.
4. DISCLOSURE OF THE INFORMATION REQUESTED ON THIS FORM IS VOLUNTARY. HOWEVER. FAILURE TO PROVIDE THE INFORMATION COULD PRECLUDE FILING OF A BILL OF SALE AND DOCUMENTATION OF THE VESSEL NAMED HEREIN PURSUANT TO 46 USC CHAPTER 121. MOREOVER, BILLS OF SALE WHICH ARE NOT FILED ARE NOT DEEMED TO BE VALID AGAINST ANY PERSON HAVING ACTUAL KNOWLEDGE OF THE SALE. (46 USC 31321 (A)).
AN AGENCY MAY NOT CONDUCT OR SPONSOR, AND A PERSON IS NOT REQUIRED TO RESPOND TO A COLLECTION OF INFORMATION UNLESS IT DISPLAYS A VALID OMB CONTROL NUMBER.
THE COAST GUARD ESTIMATES THAT THE AVERAGE BURDEN FOR THIS FORM IS 20 MINUTES FOR COMPLETING AND 3 MINUTES FOR FILING. YOU MAY SUBMIT ANY COMMENTS CONCERNING THE ACCURACY OF THIS BURDEN ESTIMATE OR ANY SUGGESTIONS FOR REDUCING THE BURDEN TO: U.S. COAST GUARD. NATIONAL VESSEL DOCUMENTATION CENTER. 792 T J JACKSON DRIVE, FALLING WATERS. WEST VIRGINIA 25419 OR OFFICE OF MANAGEMENT AND BUDGET, PAPERWORK REDUCTION PROJECT (1625-0027), WASHINGTON, DC 20503.
<b>AX</b> 686067222419

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upon the demand of federal, state or local officials for law enforcement purposes. Vessels with only a recreational endorsement may
not engage in commercial trade.

Documented vessels may be registered by states for tax and other purposes and may be required to display a state decal. Renewal is the responsibility of the owner. This certificate becomes invalid upon a change in ownership, change in state of incorporation, or a change in any other element shown on the certificate other than change of address. This certificate is invalid for any vessel other than one documented solely for recreation when the vessel is placed under the command of a person who is not a citizen of the U.S. The vessel and its equipment are liable to seizure and forfeiture to the U.S. government and the owner is liable for a civil penalty of not more than \$10,000.00 per violation. Each day of a continuing violation is a separate violation.

Any change in address of the managing owner must be reported promptly to the NVDC. You may contact us at nvdc.w.webmaster@uscg.mil.

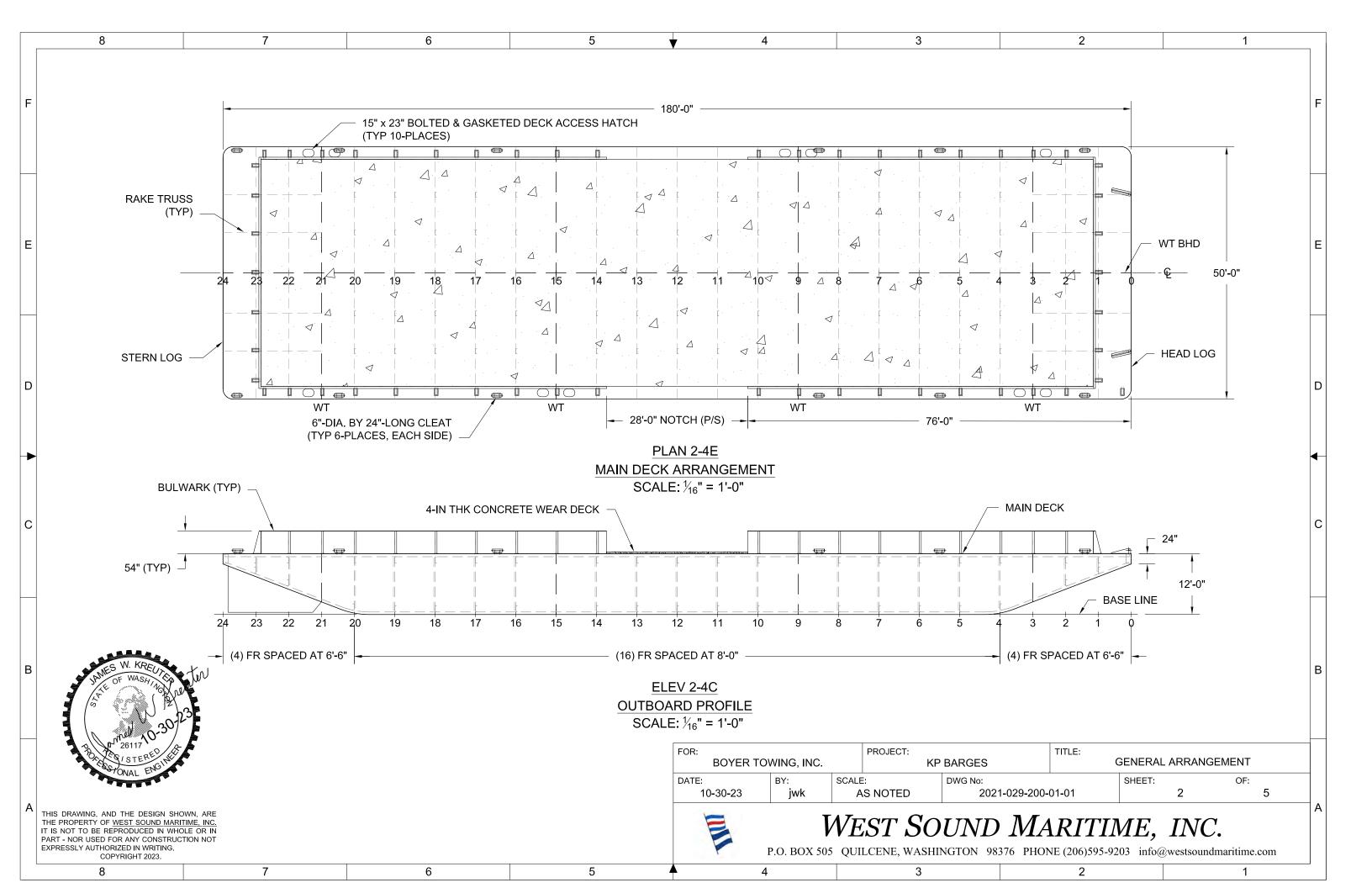
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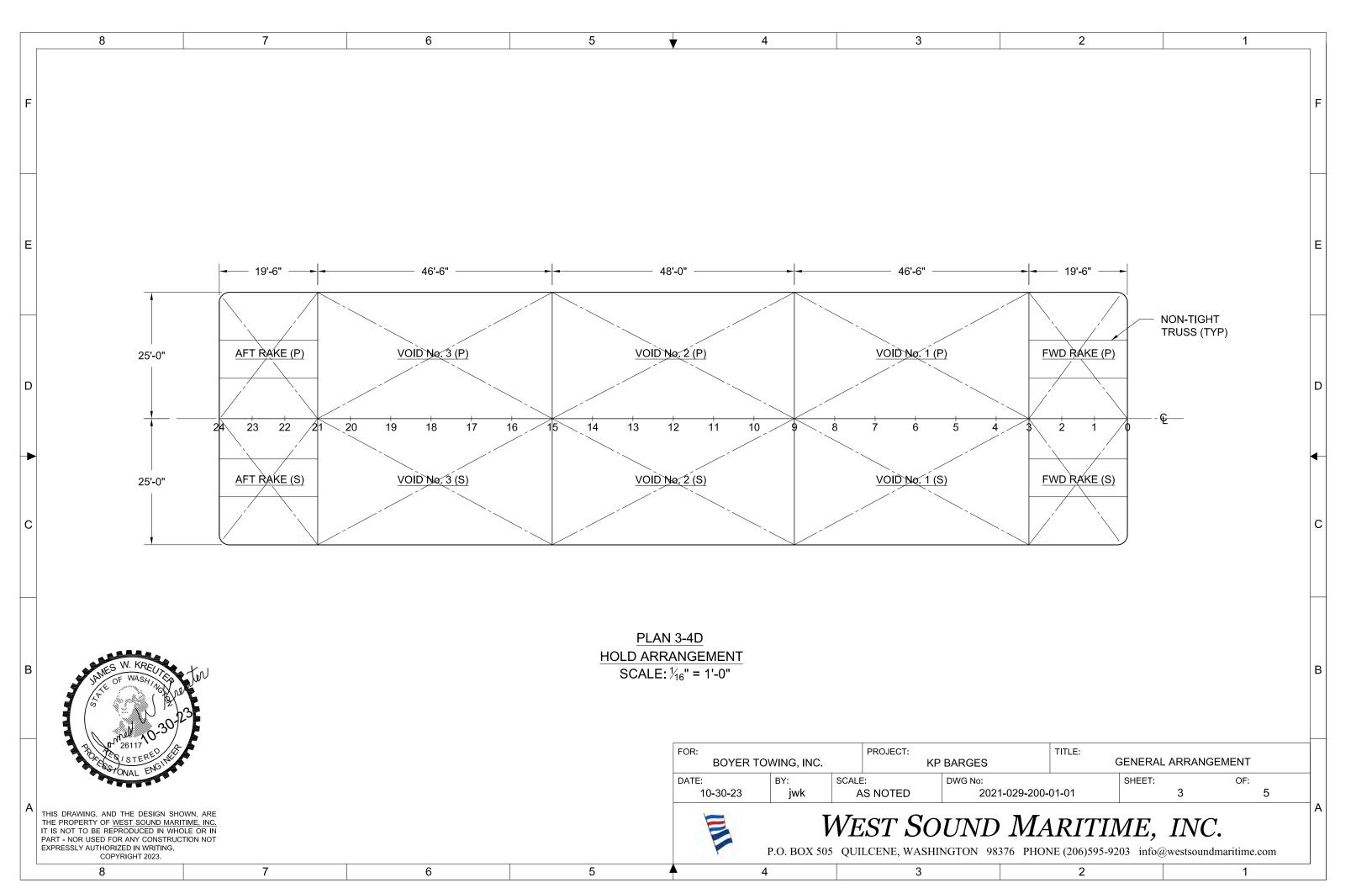
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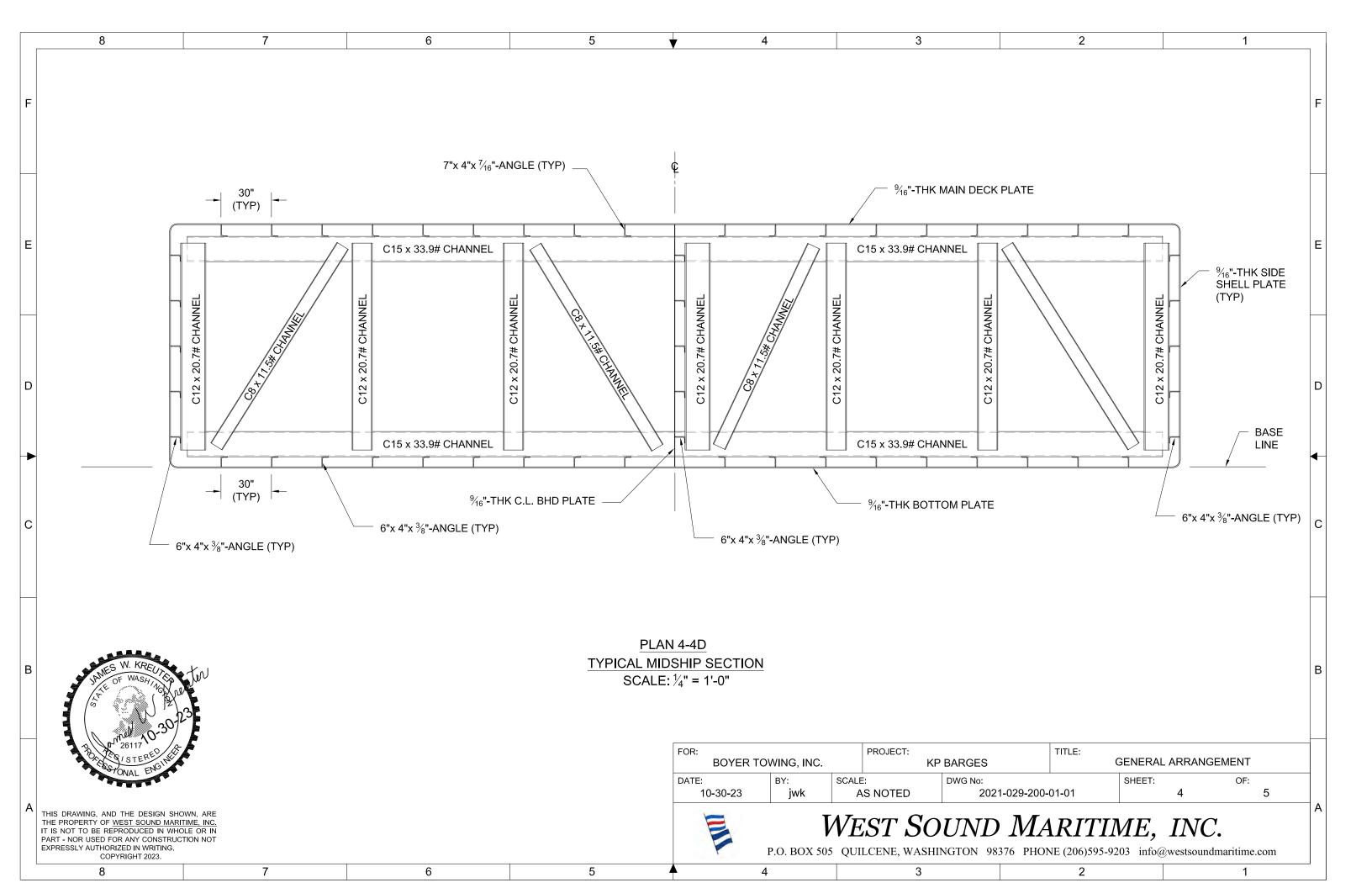
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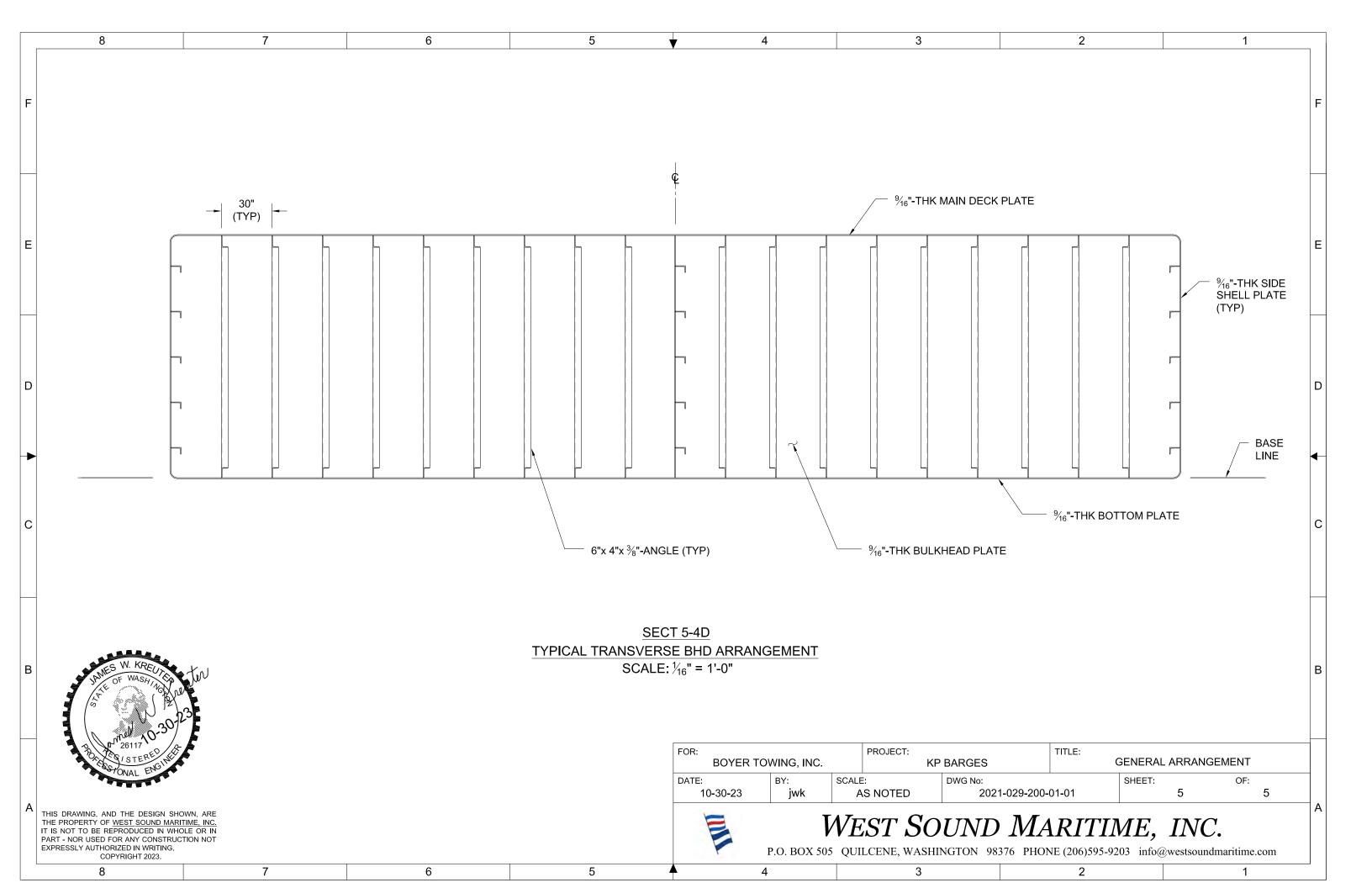
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JOINT TENANCY WITH RIGHT OF SURVIVORSHIP       TENANCY BY THE ENTIRETIES       COMMUNITY PROPERTY         OTHER       OTHER       OTHER
SIGNATURE OF SELLER(S)/TRANSFEROR(S) OR PERSONS SIGNING ON BEHALF OF SELLER(S)/TRANSFEROR(S):
DATE SIGNED;
NAME(S) OF PERSON(S) SIGNING ABOVE, AND LEGAL CAPACITY IN WHICH SIGNED (E.G. OWNER, AGENT, TRUSTEE, EXECUTOR)
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THE UNITED STATES TO TAKE OATHS.) STATE:
ON THE PERSON(S) NAMED
(DATE)
NOTARY PUBLIC MY COMMISSION EXPIRES:
PRIVACY ACT STATEMENT
IN ACCORDANCE WITH 5 USC 552(A). THE FOLLOWING INFORMATION IS PROVIDED TO YOU WHEN SUPPLYING PERSONAL INFORMATION TO THE U.S. COAST GUARD:
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2. <u>THE PRINCIPAL PURPOSES</u> FOR WHICH THIS INSTRUMENT IS TO BE USED ARE:
<ul> <li>(A) TO PROVIDE A RECORD, AVAILABLE FOR PUBLIC INSPECTION AND COPYING, OF THE SALE OR OTHER CHANGE IN OWNERSHIP OF A VESSEL WHICH IS DOCUMENTED, WILL BE DOCUMENTED, OR HAS BEEN DOCUMENTED PURSUANT TO 46 USC, CHAPTER 121.</li> <li>(B) RETENTION FOR EXAMINATION BY GOVERNMENTAL AUTHORITIES AND MEMBERS OF THE GENERAL PUBLIC.</li> </ul>
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AW 671899822419

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			GENERA	L NOTES					REVIS	IONS		
F	BOYER TOWING,	INC. OF KETC	HIKAN, ALASKA. <sup>·</sup>	THE BARGES ARE 180'-0" I	E "KP" BARGES, OWNED BY LONG (LOA) WITH A 50'-0"	REV	ZONE				DATE	APPVD
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THE PR IT IS NO PART -	RAWING, AND THE DESIGN S ROPERTY OF <u>WEST SOUND MA</u> OT TO BE REPRODUCED IN W NOR USED FOR ANY CONSTRU SSLY AUTHORIZED IN WRITING. COPYRIGHT 2023.	<u>ritime, inc.</u> Hole or in						WEST	SOUND	MARIT	TIME, INC. 95-9203 info@westsoundma	
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		KP - DECK I			
		LOAD	TABLE		
Average Draft	Cargo Weight	Average Draft	Cargo Weight	Average Draft	Cargo Weigh
2'-3"	7.8	5'-3"	737.3	8'-3"	1,503.3
2'-4"	27.2	5'-4"	758.5	8'-4"	1,553.2
2'-5"	46.7	5'-5"	779.7	8'-5"	1,576.2
2'-6"	66.2	5'-6"	801.0	8'-6"	1,599.2
2'-7"	85.7	5'-7"	822.3	8'-7"	1,622.3
2'-8"	105.3	5'-8"	843.6	8'-8"	1,645.5
2'-9"	125.0	5'-9"	865.1	8'-9"	1,668.6
2'-10"	144.7	5'-10"	886.5	8'-10"	1,691.9
2'-11"	164.4	5'-11"	908.0	8'-11"	1,715.1
3'-0"	184.2	6'-0"	929.6	9'-0"	1,738.5
3'-1"	204.1	6'-1"	951.2	9'-1"	1,761.8
3'-2"	224.0	6'-2"	972.9	9'-2"	1,785.3
3'-3"	243.9	6'-3"	994.6	9'-3"	1,808.7
3'-4"	263.9	6'-4"	1,016.3	9'-4"	1,832.2
3'-5"	283.9	6'-5"	1,038.1	9'-5"	1,855.8
3'-6"	304.0	6'-6"	1,060.0	9'-6"	1,879.4
3'-7"	324.2	6'-7"	1,081.9	9'-7"	1,903.1
3'-8"	344.4	6'-8"	1,103.9	9'-8"	1,926.8
3'-9"	364.6	6'-9"	1,125.9	9'-9"	1,950.6
3'-10"	384.9	6'-10"	1,147.9	9'-10"	1,974.4
3'-11"	405.2	6'-11"	1,170.0	9'-11"	1,998.3
4'-0"	425.6	7'-0"	1,192.2	10'-0"	2,022.2
4'-1"	446.1	7'-1"	1,214.4	10'-1"	1,046.1
4'-2"	466.5	7'-2"	1,286.6	10'-2"	2,070.1
4'-3"	487.1	7'-3"	1,258.9	10'-3"	2,094.1
4'-4"	507.7	7'-4"	1,281.3	10'-4"	2,118.1
4'-5"	528.3	7'-5"	1,303.7	10'-5"	2,142.1
4'-6"	549.0	7'-6"	1,326.1	10'-6"	2,166.1
4'-7"	569.7	7'-7"	1,348.6	10'-7"	2,190.1
4'-8"	590.5	7'-8"	1,371.1	10'-8"	2,214.1
4'-9"	611.3	7'-9"	1,393.7	10'-9"	2,238.1
4'-10"	632.2	7'-10"	1,416.4	10'-10"	2,262.1
4'-11"	653.1	7'-11"	1,439.1	10'-11"	2,286.1
5'-0"	674.1	8'-0"	1,461.8	11'-0"	2,230.1
5'-1"	695.1	8'-1"	1,484.6	11-0	2,510.1
5'-2"	716.2	8'-2"	1,507.4		

# ELLIOTT BAY DESIGN GROUP, LTD.

# **BOYER TOWING, INC.**

P.O. Box 8000 Ketchikan, Alaska 99901 Phone (206) 763-8696 Fax (206) 767-9517

KP-1 Official No: 612443



## **Overall Dimensions:**

Length: 180 ft. Beam: 50 ft. Depth: 11.5 ft.

## Useable Deck:

Length: 165 ft. Cargo Capacity: 1,800 Tons Beam: 45 ft.

## **Regulatory:**

Gross Tonnage: 905 GRT Net Tonnage: 905 NRT

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OTHER SIGNATURE OF SELLER(S)/TRANSFEROR(S) OR PERSONS SIGNING ON BEHALF OF SELLER(S)/TRANSFEROR(S):
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NAME(S) OF PERSON(S) SIGNING ABOVE, AND LEGAL CAPACITY IN WHICH SIGNED (E.G. OWNER, AGENT, TRUSTEE, EXECUTOR)
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AW 671899722419

## LASH 4 W/ HITACHI 1200-6 Stability Guidance

PREPARED FOR: Pacific Pile & Marin Seattle, WA	Pacific Pile & Marine		BY: Alexander P. Lytle NAVAL ARCHITECT CHECKED:
SEATTLE, T 206.624	1201 WESTERN AVENUE, SUITE 200 SEATTLE, WASHINGTON 98101-2953 T 206.624.7850 GLOSTEN.COM		Max B. Ryan, P.E. NAVAL ARCHITECT APPROVED: Bradley G. Lamkin, P.E. PRINCIPAL-IN-CHARGE
DOCUMENT NO.: 24129.01-002	RE	=V: -	date: 21 August 2024

This stability guidance report serves as the "Naval Architecture Analysis" for operations of the equipment and barge listed below in partially protected waters. This document shall be kept in the excavator cab with the relevant chart.

## Configuration

Vessel	160'×50'×12' Deck Barge
160'×50'×12'	Lash 4
Equipment	Hitachi 1200-6
Main Boom	43'-6", 38,000 lbs*
Stick Boom	31'-5", 13,000 lbs*
Tracks	28" tracks**
Hydraulic Cylinders	3 x 3600 lb*
Counterweight	9,600 lb Counterweight*
Bucket Capacity/Bucket Weight	5 yd bucket, 10,500 lbs***

\*See Ref. 9; \*\*See Ref. 5, \*\*\*See Ref 8

# **Barge Stability**

Calculations on file at Glosten show that the subject vessel meets stability criteria for lifting as provided in Ref. 1 when adhering to the following restrictions:

- 1. The excavator is a Hitachi 1200-6, with a Jewell 70' long reach boom and 5 yd<sup>3</sup> bucket, in the above configuration, operating per the excavator reach diagram.
- 2. The barge geometry and excavator location are as shown on Sheet 4.
- 3. When the excavator is located as shown on Sheet 4 with the front end faced forward and the bucket on deck, the barge's initial conditions shall be within the following limits for full 360° operation:

Maximum Average Draft*	Minimum Average Freeboard	Heel**	Trim***
4'-6"	7'-6"	±3"	+/- 1'-0"

\*Measured at barge ends; \*\*Across the barge beam, measured at amidships; \*\*\*Along the barge length, measured at barge ends

- 4. Barge heel and trim may be controlled with variable ballast tanks in the aft rake of the vessel. The tanks may be empty, slack, or pressed full.
- 5. Any cross connections between tanks shall be closed. All other voids must remain dry.
- 6. In addition to the project equipment as shown on Sheet 4, the barge may be loaded down to the limiting draft with other solid deck weights. The height of these miscellaneous weights shall not exceed 8' above the main deck. These weights must be secured to prevent shifting.

1

- 7. All unprotected manholes, access openings, etc. through which progressive flooding may take place must be closed while the excavator is in operation.
- 8. When operating the excavator, spuds must be resting on bottom or removed from the barge.

## **Excavator Operations**

When picking according to the applicable excavator load chart and using the 5 yd<sup>3</sup> bucket (see Sheet 5), the barge trim and heel will remain within the angles given below while operating under the following restrictions:

- 1. The initial conditions in guidance Item 3, above, are adhered to.
- 2. The excavator is configured as given in guidance Item 1 and lifting according to the excavator chart for the configuration (see Sheet 5).
- 3. At no time is barge transiting permitted with a suspended load. The excavator may not operate while the barge is under tow.
- 4. Calculations have been performed demonstrating that the excavator will have adequate friction force to prevent sliding and/or shifting prior to the stability criteria being met. However, Section 1437(n)(5) of Ref. 2 still requires physical restraint. All manufacturer and client recommendations for lashing of equipment for marine use shall be followed.
- 5. The guidance provided is for static conditions only. The excavator operator's judgement must be used to allow for dynamic load effects from wind and sea. Sea state wavelengths of more than half the vessel beam shall be avoided.
- 6. The underdeck structure has been evaluated for capacity in way of the excavator. Calculations on file at Glosten show that the underdeck structure has adequate strength to support the anticipated loads from the excavator (see Ref. 10).
- 7. In addition to the limitations set forth in this guidance, the excavator operator shall adhere to all available manufacturer's guidance regarding safe operation of the excavator in a marine environment (i.e., wind speed, travel restrictions, etc.).

If operated in the manner described above, the barge may have the following maximum angles/conditions (not necessarily concurrently):

$14^{\circ}$ $19^{\circ}$ $58'$ $1015 \text{ ft-deg}$ $100 \text{ ft-deg}$	Barge Trim	Barge Heel	Minimum Freeboard	Righting Energy Ach'd	Righting Energy Req'd
	1.4°	1.9°	5.8'	101.5 ft-deg	10.0 ft-deg

## Assumptions

The following assumptions were used in the analysis to support these guidelines:

1. Lightship weight was estimated using empirical calculations given in Ref. 4. LCG and TCG were assumed to be at the volumetric longitudinal center and on centerline. VCG was calculated at 60% of the vessel depth per Ref. 4.

Lightship	LCG	TCG	VCG
779.5 kip	80.0'	0.00'	7.20'

2. The hull geometry and underdeck structure are based on Ref. 10.

- 3. The excavator weights and centers were calculated using the manufacturer's reach chart (Sheet 5) and the total machinery weight provided in Ref. 5.
- 4. The excavator geometry was taken from Ref. 5 and 9.

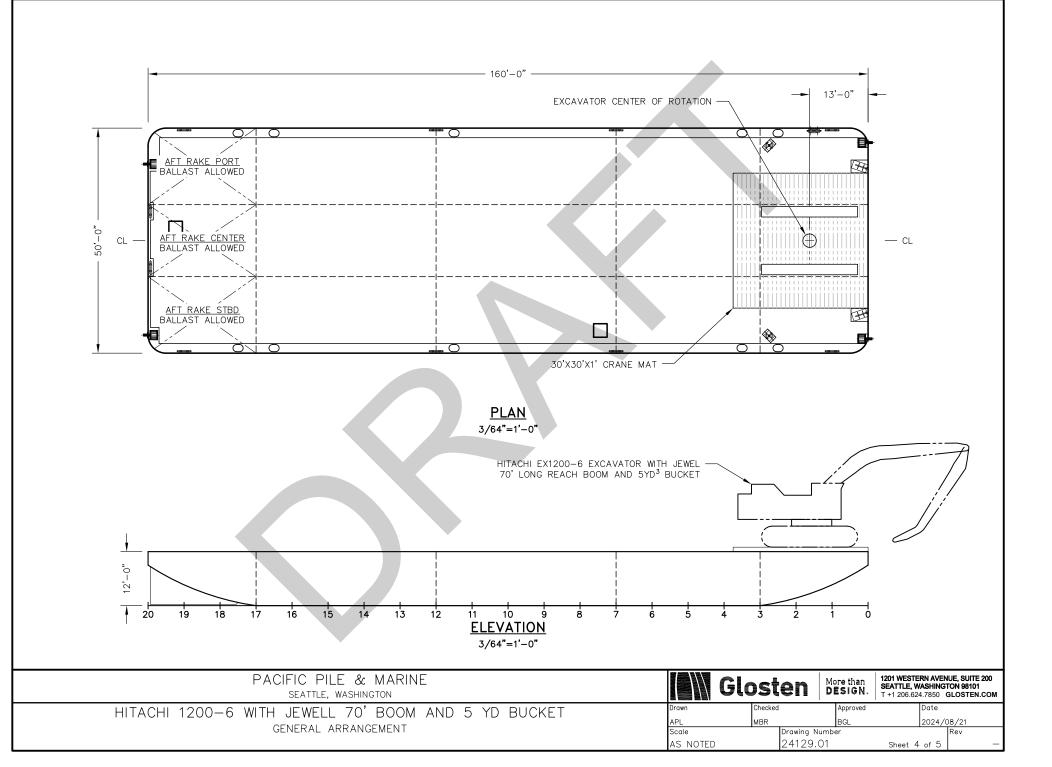
## Period of Validity

This stability guidance is valid for four years from the issue date. After this time, the contractor/operator shall review the following items with Glosten prior to reissuing the stability guidance:

- Area of operation and applicable stability criteria.
- Lifting equipment configuration and applicable manufacturer's modes of operations and limits.
- Barge arrangement and structural condition.
- Use of deck cargo.

## References

- 1. 46 CFR § 173 Subpart B, Lifting, 2023.
- 2. 29 CFR § 1926 Subpart CC, Floating Cranes/Derricks and Land Cranes/Derricks on Barges, 2024.
- 3. Creative Systems, Inc., General HydroStatics (GHS) [software], Version 19.00.
- 4. United States Coast Guard, Marine Safety Manual, Vol. IV, 2004.
- 5. Hitachi, EX1200-6 Sales Brochure, DKE1200BHT, 17-10.
- 6. Jewell MFG, Inc., *EX 1200 70' MH Hooked Main Hydraulic Capacity & Stability*, February 13, 2014.
- 7. Young Corporation, RS505CLS-SP-Layout, E-2325, Rev X, January 25, 2016.
- 8. Clark, J., Pacific Pile & Marine, Email to M., Ryan, Glosten, "WEB & 1200-5 Stability + 1200-6 & Lash," August 16, 2024.
- 9. EXI1200 1200-6 70' MH Hooked Main, 01116226 Model(1).pdf, September 2, 2017.
- 10. Barge "Lash4" Structural Arrgt & Details (As-Built), West Sound Maritime, Inc., Dwg No. 2022-058-200-2, November 2, 2022.



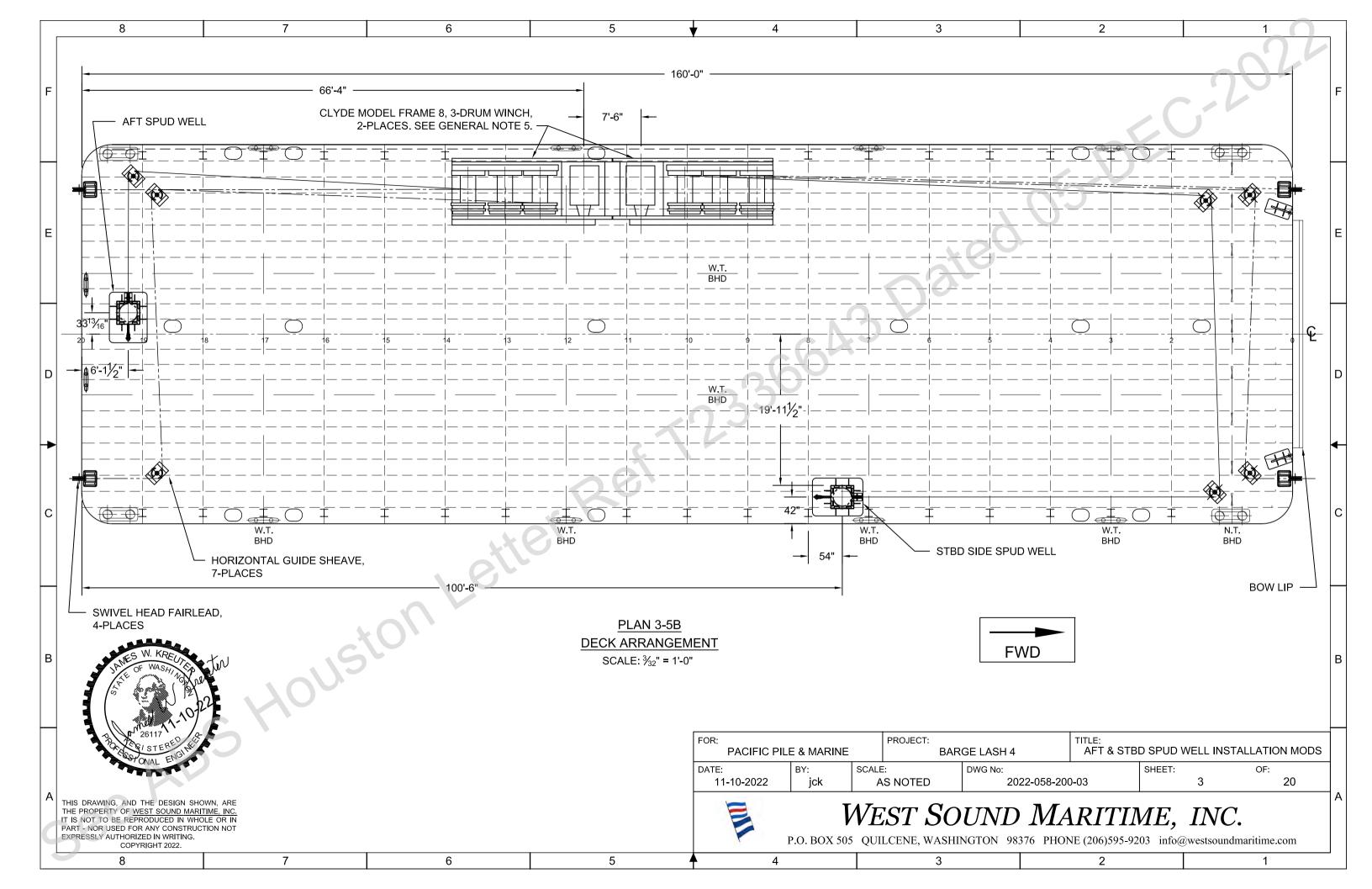
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		.* 160770 .					.* 43140				.* 23220	•
.^418080	.^161670	.^99100 .	^70420	.^53720	.^42660	.^34740	.^28770	.^24080	.^20300	.^17180	.^14560	•
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				^64420	^48660	^38360	^31070	^25610	^21350					

.ash 4 w/ Hitachi 1200-6 Stability Guidance	5	21 August 2024 Doc. No. 24129.01-002, Rev -	Glosten



# SHIPBOARD OIL POLLUTION EMERGENCY PLAN (SOPEP)

# SHIPBOARD OIL POLLUTION EMERGENCY PLAN

In accordance with Regulation 37 of Annex I of MARPOL 73/78

# SHIP'S IDENTIFICATION

GL-Register-Number	645664
Name of Ship	Lash 4
Distinctive Number or Letters (Call Sign)	
IMO-Number	
Type of Ship	Deck Cargo Barge
Port of Registry	Kodiak, AK
Gross Tonnage	805
Flag	USA

Owner/ Managers: see "Ship Interest Contacts"

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## **INTRODUCTION**

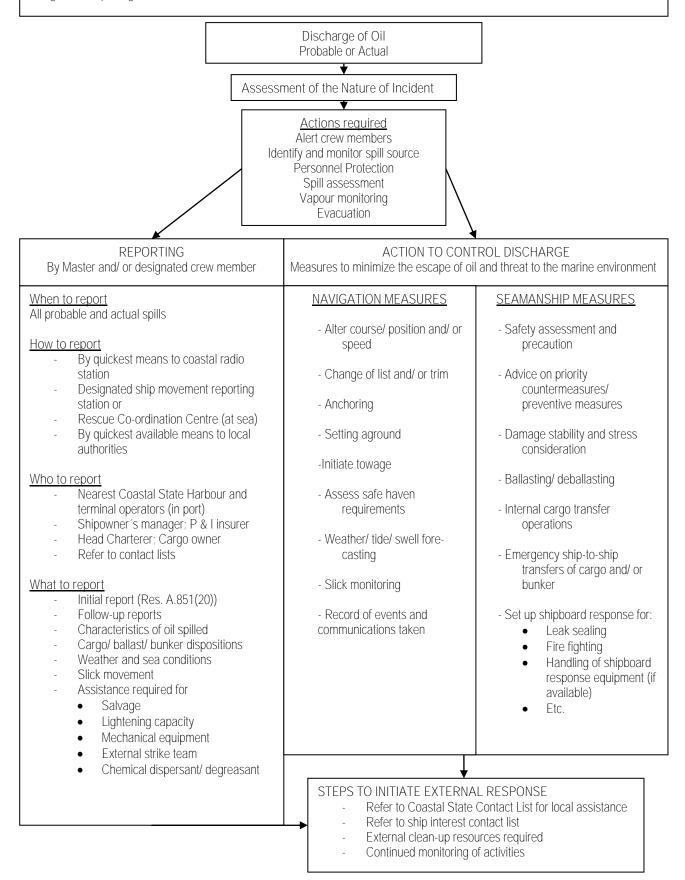
- 1. This Shipboard Oil Pollution Emergency Plan (hereafter referred to as the "Plan") is written in accordance with the requirements of regulation 37 of Annex I of the International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978 relating there to.
- 2. The purpose of the Plan is to provide guidance to the Master and officers on board the ship with respect to the steps to be taken when an oil pollution incident has occurred or is likely to occur. The appendices contain communication data of all contacts referenced in the Plan, as well as other reference material.
- 3. The Plan contains all information and operational instructions as required by the "Guidelines for the development of the Shipboard Oil Pollution Emergency Plan" as developed by the Organization (IMO), published under MEPC.54(32) and amended by MEPC.86(44).
- 4. The Plan has been approved by the Administration or on their behalf and, except as provided below, no alteration or revision shall be made to any part of it without the prior approval by or on behalf of the Administration.
- 5. Changes to Section 5 and the appendices are not required to be approved. The appendices should be maintained up to date by the owners, operators and managers.

# SECTION 1: PREAMBLE

- 1.1 This Plan is available to assist the **ship's** personnel in dealing with an unexpected discharge of oil. Its primary purpose is to set in motion the necessary actions to stop or minimize the discharge of oil and to mitigate its effects.
- 1.2 Effective planning ensures that the necessary actions are taken in a structured, logical and timely manner.
- 1.3 The primary objectives of this Plan are to
  - prevent oil pollution
  - stop or minimize oil outflow when a damage to the ship or its requirements occurs
  - stop or minimize oil outflow when a operational spill occurs in excess of the quantity or instantaneous rate permitted under the present Convention
- 1.4 Further, the purpose of the Plan is to provide the Master, officers and certain crew members with a practical guide to the prevention of oil spills and in carrying out the responsibilities associated with regulation 37 of Annex I to MARPOL 73/78
  - procedures to report an oil pollution incident
  - Coastal State contacts (Focal Points) and Port Contact Lists to be contacted in the event of an oil pollution incident
  - response actions to reduce or control the discharge of oil following an incident
  - co-ordination with national and local Authorities in combating oil pollution
- 1.5 In summary, the Plan will serve to promote a practised response when the **ship's** personnel is faced with an oil spill.
- 1.6 Although the Plan is designed as a ship-specific tool it must also be considered as an additional instrument and as a link to shore-based plans. With this the Plans allow an efficient co-ordination between the ship and shore-based Authorities/ Organizations in mitigating the effects of an oil pollution incident.
- 1.7 The Plan includes a summary flowchart to guide the Master through reporting and acting procedures required during an oil pollution incident response.
- 1.8 The Plan is likely to be a document used on board by the Master and officers of the ship and must therefore be available in the working language used by them.

## SHIPBOARD OIL POLLUTION EMERGENCY PLAN - SUMMARY FLOWCHART

This flow diagram is an outline of the course of action that shipboard personnel should follow in responding to an oil pollution emergency based on the guidelines published by the Organization. This diagram is not exhaustive and should not be used as a sole reference in response. Consideration should be given for inclusion of specific reference to the Plan. The steps are designed to assist ship personnel in action to stop or minimize the discharge of oil and mitigate its effects. These steps fall into two main categories – reporting and action



# SECTION 2: REPORTING REQUIREMENTS

## 2.1 <u>General</u>

The reporting requirement of this section complies with those of regulation 37 of MARPOL 73/78, Annex I.

When the ship is involved in an incident which results in the discharge or probable discharge of oil, the Master is obliged under the terms of MARPOL 73/78 to report details of the incident, without delay, to the nearest Coastal State by means of the fastest telecommunication channels available.

The intent of these requirements are to ensure that Coastal States are informed, without delay, of any incident giving rise to oil pollution, or threat of oil pollution, of the marine environment, as well as of assistance and salvage measures, so that appropriate action may be taken.

Without interfering with ship owners' liability, some coastal states consider that it is their responsibility to define techniques and means to be taken against an oil pollution incident and approve such operations which might cause further pollution, i.e. lightening. States are in general entitled to do so under the International Convention relating to Intervention on the High Seas in Cases of Oil Pollution Casualties, 1969.

## 2.2 <u>Reporting Procedures</u>

For easy reference the reporting requirements in the context of this Plan are divided in the following information blocks:

## 2.2.1 When to report

Taking the summary flowchart as a basic guide into consideration reports are necessary in the following cases:

## 2.2.1.1 Actual Discharge

The Master is obliged to report to the nearest Coastal State whenever there is a discharge of oil resulting

- from damage to the ship
- from damage to the ship's equipment
- for the purpose of securing the safety of a ship or saving life at sea
- during the operation of the Ship in excess of the quantity or instantaneous rate permitted under the present Convention

## 2.2.1.2 Probable Discharge

The Master is obliged to report even when no actual discharge of oil has occurred but there is a probability that one could.

However, as it is not practicable to lay down precise definitions of all types of situations involving probable discharge of oil which would warrant an obligation to report the Master is obliged to judge by himself whether there is such a probability and whether a report should be made.

Therefore, it is recommended that, at least, the following events

- damage, failure or breakdown which affects the safety of the ship (e.g. collision, grounding, fire, explosion, structural failure, flooding, cargo, cargo shifting etc.)
  - or
- failure or breakdown of machinery or equipment which results in impairment of the safety of navigation (e.g. failure or breakdown of steering gear, propulsion, electrical generating system, essential shipborne navigation aids etc.)

are carefully considered by the Master – taking into account the nature of the damage failure or break- down of the ship, machinery or equipment as well as the **ship's** location, proximity to land, weather, state of the sea and traffic density – as cases in which a probable discharge of oil is most likely.

If in doubt, the Master should always make a report in cases aforementioned.

In all cases the Authorities should be kept informed by the Master as how the situation progress and be advised when all threat of pollution has passed.

## 2.2.2 Information Required

As required in article 8 and Protocol I of MARPOL 73/78 Convention the Master or other persons having charge of the ship should report the particulars of any pollution incident. In this context the International Maritime Organization (IMO), in 1997, adopted Resolution A. 851 (20) "General Principles for Ship Reporting Systems and Ship Reporting Requirements, including Guidelines for Reporting Incidents involving Dangerous Goods, Harmful Substances and/ or Marine Pollutants".

The intent of the Resolution aforementioned is to enable Coastal States and other interested parties to be informed, without delay, of any incident giving rise to oil pollution, or threat of oil pollution, of the marine environment, as well as of assistance and salvage measures, so that appropriate action may be taken.

Nothing in this chapter relieves the Master in using sound judgement to make sure that any incident or probable discharge of oil is reported as quickly as possible in the prevailing situation.

When transmitting initial reports to the authorities of the nearest Coastal State the Master or other persons dealing with such a transmission should take note of Resolution A. 851 (20).

Especially, the format of the initial report as well as supplementary of follow-up reports should be conform to the guidance contained in Res. A. 851 (20). All reporting whether initial or follow-up, should follow **IMO's** reporting format as outlined below and should contain the following information:

LABEL A B	FUNCTION Ship Date and time (UTC) of event	EXPLANATION Name, call sign and nationality A 6-digit group giving day of month (first two di-
С	Position	gits), hours & minutes (last four digits) A 4-digit group giving latitude in degrees and mi- nutes suffixed with N or S, and a 5-digit group gi- ving longitude in degrees and minutes suffixed with F or W
D	Position	True bearing (first 3 digits) and distance (state distance) in nautical miles from clearly identified landmark (state landmark)
E	True course	A 3-digit group
F	Speed at time of incident	In knots and tenths of knots as a 3-digit group
L	Route information	Details of intended track
Μ	Radio communications	Full details of radio stations (names) and frequen- cies being guarded
Ν	Time (UTC) of next report	A 6-digit group as under BB above
Р	Cargo on board: can be included	Type(s) and quantity(/ies) of cargo/ bunker on
	in "RR" as relevant	board and brief details of any dangerous cargoes
		as well as harmful substances and gases that
		could endanger persons or the environment
Q	Defects or damage or deficiencies or other limitations	Brief details of conditions of the ship as relevant; ability to transfer cargo/ ballast/ bunker fuel
R	Description of pollution or possi-	Brief details of pollution; this should include the
	ble overboard discharge	type(s) of fuel oil, an estimate of the quantity discharged, whether the discharge is continuing,
		the cause of the discharge and, if possible, an
C		estimate of the movement and area of slick
S	Weather conditions	Brief details of weather and sea conditions prevai- ling including wind force and direction and relevant
Т	Ship's representative and/ or	swell details Name, address, telex and telephone number of the
I	owner	ship's owner and representative (charterer, mana-
	Owner	ger or operator of the ship or their agents)
U	Ship's size and type	Details of length, breadth and type of ship as well
U	Ship S size and type	as draught
Х	Miscellaneous and additional	Any other information including relevant details
	information	such as brief details of incident, need for outside
		assistance, action being taken to limit further
		discharge; details of any personnel injuries su-
		stained, details of P & I Club and local correspon-
		dent.

A sample format for initial notification and a detailed example of an initial report is shown within the appendices.

All follow-up reports by the Master should include information relevant to the Coastal State Authorities to keep them informed as the incident develops.

Follow-up reports should include information on any significant changes in the **ship's** condition, the rate of release and spread of oil, weather and sea conditions and clean-up activities underway.

In this context details of bunker disposition, condition of any empty tanks and nature of any ballast carried are information needed by those involved in order to assess the threat posed by an actual or probable discharge of oil from the damaged ship.

## 2.2.3 Who to Contact

The Master is responsible for reporting any incident involving an actual or probable discharge of oil.

Taking into consideration the summary flowchart in Section 1 the Master of the ship involved in any kind of an actual or probable discharge, cases of which are defined under SECTION 2 (sub-paragraph 2.2.1.1 and 2.2.1.2) of this Plan should report details on the incident immediately (see Report Format in App. 1)

Nothing in this chapter relieves the Master from using sound judgement to make sure that any incident is reported as quickly as possible in the prevailing situation.

## 2.2.3.1 Coastal State Contacts

For the ship at sea

In order to expedite response and minimize damage from an oil pollution incident at sea, it is essential that appropriate Coastal States are notified without delay.

In this context the use of the list of agencies or officials of Administrations responsible for receiving and processing reports (so called "Focal Points") as developed by the Organization (IMO) in conformity with article 8 of the Convention is recommended.

Such a list is shown under App. 2.

An updated list of existing "Focal Points" is available from the Internet pages of IMO under address:

http://www.imo.org/ >> National Contacts >>> MEPC.6/Circ. xx

In the absence of such a list or listed focal point for a single country/ Coastal State, the Master should contact by the quickest available means

- the nearest coastal radio station or
- the designated ship movement reporting station or
- the nearest Rescue Co-Ordination Centre (RCC).

## 2.2.3.2 Port Contacts

For the ship in port,

Notification of local agencies, combating teams or clean-up companies will speed up response. If an oil spill occurs during the **ship's** stay in port, whether operational or as a result of an incident, the Master should inform the appropriate local agencies (e.g. National Response Centre, Terminal/ Port Authorities etc.) without undue delay.

If the ship is engaged in a regular service between ports/ terminals the Master or any other person aboard delegated by the Master should provide a list with the relevant Port Contact addresses for each port served regularly of Authorities/ persons and/ or terminals dealing with an oil spill. This list must be regularly updated.

## The "Port Contact List" is shown in the App. 3.

If a change in the **ship's** range of trade or a change in the addresses of persons/ Authorities of the ports/ terminals served regularly takes place the Master or any other person aboard delegated by the Master is required to issue a new list.

Where **ship's** service makes it not feasible to prepare such a list the Master should seek guidance concerning such local Port Contacts and local reporting procedures upon arrival in port.

Addresses obtained in this way should be documented aboard in the form that the Master considers most effective and should be attached to the Plan.

## 2.2.3.3 Ship Interest Contacts

For Ship Interest Contacts it is necessary to have information at the **Master's** disposal in case of an oil spill for informing the home office of the **ship's** owner or operator, the local agent of the company, the appropriate P & I Club and correspondents, clean-up contractors etc.

This information should be provided in the form of a so-called "Ship Interest Contact List".

## The "Ship Interest Contact List" is shown in the App. 4.

To avoid duplication of reports and to co-ordinate the Plan and the **company's** shoreside plan(s) responsible for informing the various Ship Interested Contacts is

Master

 $\boxtimes$ 

Owner

Operator

Please follow then delete these <u>Remark for Plan writers:</u>

Mark with a cross as appropriate

## SECTION 3: STEPS TO CONTROL DISCHARGE

Ship personnel will most probably be in the best position to take quick action to mitigate or control the discharge of oil from their ship.

Therefore, this Plan provides the Master with clear guidance on how to accomplish this mitigation for a variety of situations.

It is the **Master's** responsibility to initiate a response in the event of a discharge of oil or substantial threat of discharge of oil – actual or probable – into the waters.

In no case action should be taken that in any way could jeopardize the safety of personnel either onboard or ashore.

The following enumeration specifies different kinds of possible operational oil spills with regard to reactions to be taken.

Please follow then delete these <u>Remark for Plan writers:</u>

This section might be shortened considerably. All Sub-headings (e.g. Hull leakage, tank overflow etc) have to be dealt with by tailored and significant procedures (e.g. for sub-section 3.2.6 – transfer of bunker/lightening). Only a few company–specific instructions could be sufficient for a dry cargo ship.

For oil tankers procedures in regard for loading/ discharging of cargo have to be added to the contents as necessary.

#### 3.1 Operational Spills

#### 3.1.1 Operational Spill Prevention

Crew members shall maintain a close watch for the escape of oil during bunker operations.

Prior to bunker transfer the competent crew members should mobilize the oil spill equipment, as far as available on board, and place it close to the planned operation, e.g. along the railing on the side at which bunker operation takes place.

Before bunker handling commences, all deck scuppers and open drains must be effectively plugged. Accumulations of water should be drained periodically and scupper plugs replaced immediately after the water has run off. Any free floating oil or oil droplets should be removed prior to draining.

Bunker tanks which have been topped up should be checked frequently during the remaining bunker operations to avoid an overflow.

Unless there are permanent means for retention of any slight leakage at ship/ shore connections for bunker transfer, it is essential that a drip tray is in place to catch any leaking oil.

The removed bunker oil and the used clean-up material should be retained on board in proper containment units until it can be discharged to a reception facility.

#### 3.1.2 Pipeline Leakage

If a leakage occurs from a pipeline, valve, hose or metal arm, operations through that connection should be stopped immediately until the cause has been ascertained and the defect remedied.

Defective pipe sections should be isolated. Affected sections should be drained down to an available empty or slack tank.

If a leakage occurs from a hydraulic pipeline, operations should be stopped immediately.

Initiate clean-up procedures.

The removed bunker oil and the used clean-up material should be retained on board in proper containment units until it can be discharged to a reception facility.

Inform in line with Section 2 all parties interested about Pipeline Leakage and the actions taken so far.

#### 3.1.3 Tank Overflow

If there is a tank overflow all bunker operations should be stopped immediately and should not be restarted until the fault has been rectified and all hazards from the released oil have been eliminated.

If there is any possibility of the released oil or oil vapours entering an engine room intake, appropriate preventive steps must be taken quickly.

Promptly shift bunker oil from the tank overflowed to an available empty or slack tank or prepare pump(s) or transfer the excess ashore.

Initiate clean-up procedures.

The removed bunker oil and the used clean-up material should be retained on board in proper containment units until it can be discharged to a reception facility.

Inform in line with Section 2 all parties interested about Tank Overflow and actions taken so far.

#### 3.1.4 Hull Leakage

Identify leaking tank; consider diver if necessary and possible.

Reduce level in tank in question well below sea level.

If it is not possible to identify the leaking tank, reduce level in all tanks in vicinity. In this case give careful consideration to hull stress and stability.

If there is a spillage due to suspected hull leakage reduce the head of bunker and promptly transfer the bunker oil to an available empty or slack tank or, if berthed, discharge ashore in suitable barges/ tanks.

Inform in line with SECTION 2 all parties interested about Hull Leakage and the actions taken so far.

#### 3.1.5 Spills caused by Equipment in Machinery Spaces

If operational oil spills are caused by a failure of equipment in machinery spaces any further operations of this equipment should be stopped immediately or measures are to be taken to avoid an oil spill.

Such equipment may be:

- Oily-water separating equipment or oil filtering equipment to de-oil bilge water from the engine room bilges
- Valves in pipes connecting ballast/ bilge systems
- Cooling pipes in oil cooler systems
- Gearing of bow thrusters
- Stern tubes

The removed bunker oil and the used clean-up material should be retained on board in proper containment units until it can be discharged to a reception facility.

#### 3.2 Spills Resulting From Casualties

In the event of a casualty the **Master's** first priority is to ensure the safety of the **ship's** personnel, and to initiate actions which may prevent escalation of the incident and marine pollution.

#### 3.2.1 Ship grounded / stranded

The **Master's** priority should be to ensure that he as soon as possible receives detailed information about the damage that the ship has been sustained, in order to determine remedial action to be taken for ensuring the safety of the ship and its crew.

Furthermore, the Master should also consider

- Danger to the ship's complement if the ship should slide off grounding site
- Danger of ship being shattered by heavy seas or swell
- Health hazards to the **ship's** crew and surrounding population due to release of oil or other hazardous substances in dangerous concentrations
- That fires may start due to released flammable substances and uncontrolled ignition sources
- Should the damage which the ship has sustained be of such an extent that the stability cannot be computed on board, the Master should seek assistance according to subparagraph 3.6

Also, the **ship's** Master shall take into account the following considerations:

- Is the vessel constantly being struck in the seaway?
- Is the vessel exposed to torsion?
- Is there a large difference in the tidal rangers at the grounding site?
- Are there strong tidal currents in the grounding area?
- May the vessel drift further up on the shore, due to high tides, wind and waves?

#### 3.2.1.1 Prevention of Fire and Explosion

If the ship is aground and therefore cannot manoeuvre, all possible sources of ignition should be eliminated and action should be taken to prevent flammable vapours from entering the machinery spaces or the accommodation.

#### 3.2.1.2 Extension of Hull Damage / Containment System Failure

First, a visual inspection should be carried out.

Check for visible oil along hull or in wake of the ship during day time. At night a stick with white cloth (or sheet of sorbent) around it may be lowered into the water alongside the ship to check for oil leakages.

All ballast/ bunker tanks to be sounded (ullage),

All other compartments which may have contact with the sea should be sounded to ensure that they are intact.

Soundings of ballast tanks/ bunkers tanks are to be compared with last soundings to check for possible leaks.

Sounding to be taken around the ship establish the **ship's** position on the grounding area.

When the ship is aground, due regards should be given to the indiscriminate opening of ullage plugs, sighting ports etc. as loss of buoyancy could be the result of such actions.

Any list of the ship shall be noted and included in the report for assistance.

#### 3.2.1.3 Procedures to Reduce or Stop Outflow of Oil

The Master should assess the possibility of damage to the environment and whatever action can be taken to reduce further damage from an oil release, such as:

- Transfer of bunkers internally, provided shipboard piping system is in an operational condition
- If the damage is fairly limited and restricted, i.e. to one or two tanks, consideration should be given to transfer of bunkers internally from the damaged tank(s) to intact tanks, taking into account the impact on the **ship's** overall stress and stability
- Isolate damaged/ penetrated bunker tank(s) hermetically to ensure that hydrostatic pressure in tanks remains intact during tidal changes
- Evaluate possibility of pumping water into a damaged tank in order to form a water bottom stopping the outflow of oil
- Evaluate the necessity of transferring bunkers to barges or other ships and request such assistance accordingly
- Evaluate the possibility of additional release of oil.

In case of large differences between the tide levels, the Master should try to isolate the damaged tank(s) to reduce additional loss of oil.

#### 3.2.1.4 Refloating by own Means

The Master should also evaluate the question of refloating the vessel by own means. Before such an attempt is made, it must be determined:

- whether the ship is damaged in such a way that it may sink, break up or capsize after getting off
- whether the ship after getting off may have manoeuvring problems upon leaving the dangerous area by own means
- whether machinery, rudder or propeller are damaged due to grounding or may be damaged by trying to get off ground by own means
- whether the ship may be trimmed or lightened sufficiently to avoid damage to other tanks in order to reduce additional pollution from oil/ bunker spillage
- weather evaluation: whether there is time/ reason to await improvements in weather or tide.

If the risk of further damage to the ship is greater in an attempt to refloat the ship by own means, than in remaining aground until professional assistance has been obtained, the **ship's** Master should try to secure the ship as much as possible by:

- Trying to prevent the ship from moving from its present position
- By dropping anchors (adequate water depth and anchor ground provided)
- By taking ballast into empty tanks, if possible
- Trying to reduce longitudinal strain on hull by transferring ballast or bunkers internally
- Reducing fire risk by removing all sources of ignition.

Inform in line with Section 2 all parties interested about the Grounding and the actions taken so far.

#### 3.2.2 Fire/ Explosion

Should an explosion and a fire occur on board, sound the GENERAL ALARM immediately. Further actions should be initiated in accordance with the **ship's** Muster List. In case of fire and explosion the following priorities exist:

- Rescuing lives
- Limiting the damage/ danger to the ship and cargo
- Preventing environmental pollution

Steps to control the discharge of oil will depend largely on the damage to ship and cargo. Special information thereto is contained in subparagraphs 3.2.4, 3.2.5 and 3.2.6. Inform in line with Section 2 all parties interested about the Fire/ Explosion and the actions taken so far.

3.2.3 Collision (with fixed or moving object)

Should the ship be involved in a collision with another ship, the Master should as soon as possible identify the extent of damage to his own vessel.

When a collision occurs, the GENERAL ALARM should be sounded immediately for the personnel to muster at their designated Muster Stations.

The following check list should assist the Master in assessing the situation:

- Are any tanks penetrated above or below the waterline?
- If ships are dead in the water and interlocked, what is most prudent, to stay interlocked or separate?
- Is there any oil spill at present small or large? Will a separation of the interlocked ships create a larger oil spill than if the ships stay interlocked?
- If there is an oil spill, will the separation of the ships cause sparks that can ignite the spilled oil or other flammable substances leaked out from the ships?
- Are the ships creating a greater danger to other traffic in the area if they are interlocked than if separated?
- Is there a danger to either ship of sinking after being separated?
- If the ships are separated, how is the manoeuvrability of the own ship?

If separation of the ships takes place, alter course to bring the own ship windward of any oil slick, if possible.

Shut down all none essential air intakes.

Isolate damaged/ penetrated tank(s) by hermetically closing the tank(s), if possible.

When it is possible to manoeuvre, the Master, in conjunction with the appropriate shore authorities, should consider moving his ship to a more suitable location in order to facilitate emergency repair work or lightening operations, or to reduce the threat posed to any sensitive shoreline areas.

Inform in line with Section 2 all parties interested about the collision and the actions taken so far.

#### 3.2.4 Hull Failure

Should the ship lose one or more shellplatings, develop major cracks, or suffer severe damage to the hull, the Master should immediately sound the GENERAL ALARM to call the crew members to their Muster Stations, and inform them of the situation, and prepare lifeboats for launching if necessary.

The Master should then assess the situation, and confer with his senior officers. The Master should obtain the latest weather forecast, and asses its impact on the present situation.

Furthermore, the following questions should be considered and should be asked:

• Is the ship in any immediate danger of sinking or capsizing?

#### If YES:

- Send distress message
- Immediately abandon the ship

If NO, initiate damage control measures as found necessary by considering the following points:

- Can the vessel manoeuvre on its own?
- Has the ship lost buoyancy?
- If the ship has a list due to loss of ballast, cargo/ bunker or buoyancy, is it necessary and possible to rearrange the bunker or ballast by internal transfer operation in order to bring the ship to an even keel?
- Is it necessary to dump cargo in order to maintain stability without changing the stress situation?
- Can this operation wait till another ship/ barge can receive that cargo?
- Is there any abnormal change in the **ship's** stability and stress situation?
- Can the change in the **ship's** stability and stress situation be monitored and calculated on board? If not, the Master should seek assistance according to subparagraph 3.6.
- Does the ship need assistance or escort to nearest port of refuge or repair port?
- Might it be prudent to salve part of the crew members in case the situation should worsen, or is it necessary to abandon the ship totally?

Inform in line with Section 2 all parties interested about the Hull Failure and the actions taken so far.

#### 3.2.5 Excessive List

Should the ship for some reasons suddenly start to list excessively during discharging/ loading operations, or bunkering, all ongoing operations should be stopped immediately until the cause has been determined.

The Officer on Duty should inform the Master and/ or Chief Officer without delay.

The Master should try to determine the reason for the excessive list, and take steps to rectify the situation and to stabilize the **ship's** condition:

- Check reason(s) for list
- Soundings/ ullage to be taken in all tanks
- Bunker/ ballast pumps to be made ready
- Consider measures to minimize list in transferring liquid from one compartment to another
- Ensure water tightness of empty spaces
- Close all openings
- Secure vent pipes to avoid ingress of water
- If bunkering: Change to corrective tanks for rectifying the situation
- If ballasting/ deballasting: Change to corrective tanks to rectify the situation
- If there is reason to believe that the list may cause an oil spill, notify as per Section2
- If the ship's crew is in jeopardy, prepare lifeboats for launching, and notify as per Section 2

If the situation is brought under control, inform all parties interested.

#### 3.2.6 Ship submerged/foundered/wrecked

If the ship is wrecked to the extent that it or parts of it are submerged take all measures to evacuate all persons on board. Avoid contact with any spilled oil. Alert other ships and/or the nearest coastal state for assistance in rescuing lives and the ship as far as possible.

#### 3.2.7 Hazardous Vapour release

In case of any vapour release out of the containment system precautions have to taken to protect the persons onboard against contamination. The ship should be brought with the accommodation upwind of the spill area as far as possible. The crew should be evacuated from any area of risk. All possible sources of ignition should be eliminated and non-essential air intakes shut down to prevent intake of vapour into accommodation and engine spaces.

If unavoidable work has to be carried out within risk areas, the involved persons have to wear protective closing and breathing apparatus.

#### 3.3 Priority Actions

Top priority shall in all cases of casualty be put on the safety of the persons onboard and to take actions to prevent escalation of the incident.

Immediate consideration should be given to protective measures against fire, explosions and personnel exposure to toxic vapour.

Detailed information about the damage sustained to the ship and its containment system has to be obtained. On the basis of the information the Master can decide next actions for the protection of lives, the ship, the cargo and the environment.

The Master should take into account the following when he is determining whether salvage assistance

will be needed or not:

- Nearest land or hazard to navigation
- Vessel's set and drift
- Estimated time of casualty repair
- Determination of nearest capable assistance and its response time.

In case of necessary movement of cargo within the ship careful consideration is to be given to hull strength and stability.

Plans/tables about the location and specification of the current cargo as well as bunkers and ballast have to be readily available.

#### 3.4 <u>Mitigating Activities</u>

If safety of both the ship and the personnel has been addressed the Master shall care for following issues:

- Assessment of the situation and monitoring of all activities as documented evidence
- Care for further protection of the personnel, use of protection gear, assessment of further risk for health and safety
- Containment of the spilled material by absorption and safe disposal within leak proof containers of all used material onboard until proper delivery ashore, with due consideration to possible fire risk.
- Decontamination of personnel after finishing the cleanup process

#### 3.5 Transfer of Bunker/ Lightening

If the ship has sustained extensive structural damage, it may be necessary to transfer all or part of the cargo/ bunker to another ship; however, this section refers to bunker transfer procedures only. In Ship-to-Ship-transfer operations involving a specialized service ship, the Master of that ship will normally be in overall charge.

In the case of non-specialized ships the Master or other person in overall charge of the operation should be mutually agreed and clearly established by the Masters concerned prior to the start of operations.

The actual bunker transfer should be carried out in accordance with the requirements of the receiving ship.

In all cases each Master remains responsible for the safety of his own ship, its crew, cargo/ bunker and equipment and should not permit their safety to be jeopardized by the action of the other Master, his owner, regulatory officials or others.

The Ship-to-Ship-transfer operations should be coordinated with the appropriate responsible local Authority.

When selecting the area of operation the Master(s) should consider the following points

- The need to notify and obtain the agreement of any responsible authority
- The destinations of the ships concerned
- The shelter provided, particularly from sea and swell
- The sea area and depth of water, which should be sufficient for manoeuvring during mooring, unmooring and transfer operations and allow a safe anchorage if operations have to be undertaken at anchor
- The traffic density
- The weather conditions and the weather forecasts

Further, before commencing Ship-to-Ship transfer operations each ship should carry out, as far as possible, appropriate preparations like

- Pre-mooring preparations of the ships
- Positioning of fenders if such equipment is available on board
- Mooring equipment arrangements
- Checking the communication channels between the two ships

In additions to the general principles of Ship-to-Ship operations as aforementioned the Master should take note of supplemented instructions issued by the company.

Those supplemented information is located in:

- The Master's Office/ Cabin
- Chief Officers Office/ Cabin
- Navigation Bridge
- Cargo Office

Please follow then delete this Remark for Plan writers:

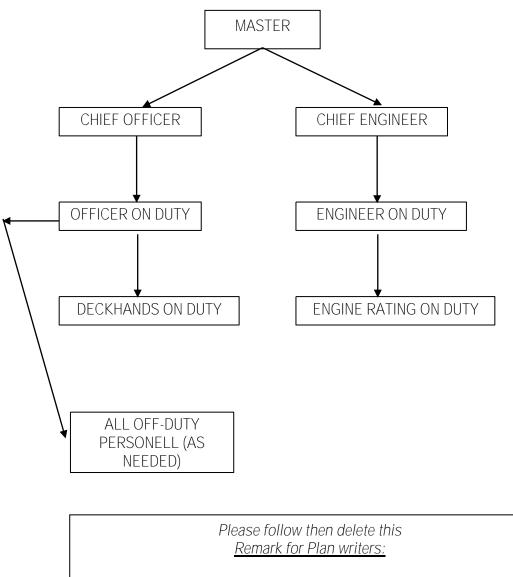
Mark as appropriate

# Please follow then delete this <u>Remark for Plan writers:</u>

Under this heading it should be stated:

- Availability of shipboard facilities (e.g. damage control plans, computer systems)
- Location where data about cargo, bunker and ballast distribution is available
- Shore based contacts for advice (e.g. technical department of operators)

Subscription to a shore based computation-service would be on a voluntary basis. Germanischer Lloyd offers the EMERGENCY RESPONSE SERVICE (ERS) for all types of vessels – this 24-hour service contributes to the increasing demands for operational safety, especially in connection with safety management/ quality systems. (For further information, please call GL-Head Office, extension number –269.) 3.7 <u>General Responsibilities of the Master and designated Officers/ Crew Members</u>



The actual team composition should be listed in this section (e.g. in accordance with the muster list) Duties/ Responsibilities have to be fully in line with company procedures.

#### 3.7.1 General Responsibilities

The following crew members are in charge in the event of an oil spill – actual or probable – to bring the accident under control, limit outflows, organize onboard clean-up procedures and determine the additional manpower needed. Arrangements shall be made that in case of sudden unavailability of superior ranks other available ranks are prepared to take over.

Ranking	Duties
Master	Overall in charge of operation on board dealing with an oil spill; responsible for all steps to be taken especially for the two main categories – reporting and action. Keeps log off all events and progress of actions.
Chief Officer	In charge of deck operation; Should keep the Master informed and updated on the situation and the results from action taken to stop or minimize an oil outflow.
Chief Engineer	In charge of bunker operation; Should keep the Master informed and updated on the situation and the results from action taken to limit oil outflow.
Deck Duty Officer	Tank overflow (bunkering): Alert and inform Chief Officer/ Chief Engineer on situation; Mobilize off duty crew as necessary
Duty Engineer	Assist Chief Engineer; Prepare for fire fighting; Ensure sufficient power and water to deck; Organize on board clean-up equipment
Duty Rating(s)	If an oil leakage is detected alert immediately by all possible means; Inform Officers(s) on Duty immediately; Position sorbent material/ clean-up material to prevent any escaped oil from reaching the railing; Commence clean-up by using, as far as available on board, the clean up equipment

Please follow then delete this <u>Remark for Plan writers:</u>

The list of duties of the team members has to be tailored to the actual crew onboard and according to the diagram on the previous page

### SECTION 4: NATIONAL AND LOCAL CO-ORDINATION

Quick efficient co-ordination between the ship and Coastal States or other parties involved becomes vital in mitigating the effects of an oil pollution incident.

As the identities and roles of various national and local Authorities involved vary widely from state to state and even from port to port, the Master should take note of these particularities, as far as possible. In this context the Master should call upon the **owner's** representatives in the state/ port of question to receive the relevant information.

Prior to undertaking mitigation actions – especially in cases of an actual discharge of oil due to casualties in the territorial waters of a Coastal State – the Master should contact the Coastal State for authorization of his action.

The Master should co-ordinate all his activities with the Coastal State.

The Master should call the Coastal State for allowance to use chemical agents for response to oil pollution on the sea. Without authorization of the Authorities of the appropriate Coastal State no chemical agents should be used.

Where no responsibility for discharge response by a Coastal State is noticed the Master should take all the necessary steps as deemed appropriate to minimize the escape of oil.

With respect of the accident happened the Master should take measures as stated in Section 2 and Section 3 of this Plan.

Appendices:	Initial Notification	(app. 1)
	Coastal State Contacts (Focal Points)	(app. 2)
	Port contacts	(app. 3)
	Ship interest contacts	(app. 4)
	Ship's Plans and Drawings	(app. 5)

- Layout of General Arrangement PlanLayout of Ballast and Bunker TanksDrawings of fuel oil pipelines

## SECTION 5 NON-MANDATORY INFORMATION (VOLUNTARY PART)

In addition to the mandatory provisions required by Reg. 37, Annex I, MARPOL 73/ 78 which are mentioned in Sections 1 to 4 of this Plan, local requirements, insurance company or owner/ operator policies etc. may dictate the provisions of additional guidance.

Such additional information material, including diagrams and/ or drawings, reference material etc., may be of help for the Master when responding to an oil pollution incident or an emergency situation as well as may be required by local Authorities in ports visited by the individual ship.

#### Please follow then delete this <u>Remark for Plan writers:</u>

Therefore, for example the following additional information material may be attached to the individual Plan at the owners/ operators discretion and documented in the form that the Master/ company/ operator considers most effective.

- Diagrams and additional ship's plans (e.g. midship section plan, lines plan/ tables of offsets, tank tables, load line assignment, light ship characteristics, etc.)
- Availability of response equipment (onboard spill equipment) and its location
- Guidance for the keeping of appropriate records of the pollution incident (e.g. for liability, compensation and reimbursement issues)
- Reference material (e.g. industry guidelines issued by various industry organization like ICS, OCIMF, SIGTTO, INTERTANKO, etc)
- Procedures for Plan testing
- Record-keeping procedures
- Procedures for Plan review.

 $\Rightarrow$ 

All this information <u>may</u> be appended to the Plan if appropriate for the individual ship.

# APPENDICES

List of contacts and Additional Information Material

## APPENDIX 1 INITIAL NOTIFICATION

The following format provides an example as to how Initial Notification information shall be presented:

А	MV "X", Call Sign D, German Flag			
В	01 12 36			
С	2528N 05740E			
E	179			
F	186			
L	Bound Singapore from Muscat			
Μ	Bahrain Radio 500 KHz, VHF 16, INMARSAT No. 888 888			
Ν	As required			
Ρ	650 TEU/ NO IMDG CARGO/ BUNKERS 580 IFO/ 75 MDO			
Q	Collision with cargo ship, HFO-Service tank starboard breached, no fire and all essential			
	shipboard systems operational			
R	Quantity of fuel oil lost from breached tank about 10 tons; tank now empty			
	Slick moving SE away from land and out of Gulf of Oman			
S	Weather fine, wind NNW, 3 Bft, sea state slight to moderate, no swell			
Т	Owner Blue Horizon Co., Vorsetzen 12, 20459 Hamburg, Tel. +40 123 45, Telex 876 54 Fax +40 876 543			
U	Length 169 m, breadth 25 m, tonnage 23.000 tdw, type container ship			
Х	No personnel injuries sustained; no clean-up operations possible from ship; Shipsafe P and I Club advised; local correspondent is Miller on Tel. Dubai 54 444. Proceeding to Dubai for survey/ repairs.			

MASTER

SHIPBOARD OIL POLLUTION EMERGENCY PLAN
SAMPLE FORMAT FOR INITIAL NOTIFICATION
A (SHIPS NAME; CALL SIGN; FLAG)
B(DATE AND TIME OF EVENT; UTC)
C (POSITION; LAT; LONG)     OR     D (BEARING; DISTANCE FROM LANDMARK)
d     d     m     m     N     S     Image: Constraint of the second sec
d d m m
d     d     m     m       E (COURSE)     Image: Course of the second secon
d d d kn kn 1/10
L (INTENDED TRACK)
M (RADIO STATION(S) GUARDED)
N (DATE AND TIME OF NEXT REPORT; UTC)
P (TYPE AND QUANTITY OF CARGO/ BUNKERS ON BOARD)
Q (BRIEF DETAILS OF DEFECTS/ DEFICIENCIES/ DAMAGE)
R (BRIEF DETAILS OF POLLUTION; INCLUDING ESTIMATE OF QUANTITY LOST)
S (CONTACT DETAILS OF WEATHER AND SEA CONDITIONS)
Wind

(Beaufort)	SWELL
	L Height
	Lineigin
T (CONTACT DETAILS OF SHIP'S OWNER/ OPERATOR/ AGENT)	
<u>U (SHIP SIZE AND TYPE)</u>	
X (ADDITIONAL INFORMATION)	

Footnote: **The alphabetical reference letters in the above format are from "General principles for ship** reporting systems and ship reporting requirements, including guidelines for reporting incidents involving dangerous goods, harmful sub**stances and/ or marine pollutants" adopted by the** International Maritime Organization by resolution A. 851 (20). The letters do not follow the complete alphabetical sequence as certain letters are used to designate information required for other standard reporting formats, e.g., those used to transmit route information.

## APPENDIX 2 COASTAL STATE CONTACTS (FOCAL POINTS)

Please follow then delete this <u>Note to Plan writers:</u>

The current edition of the "List of the National Operational Contact Points, issued by IMO has to be added in this Appendix. The present version can be downloaded and printed from the Internet under following address:

http://www.imo.org >>> National Contacts >>> MEPC.6/Circ. Xx

## APPENDIX 3 SHIP INTEREST CONTACTS

The following table provides an example as to how ship interest contact information could be presented:

### (a) <u>Owner/ operator contacts</u>

Name of institution/ person to be contacted	Address	Means of contact	Remarks
Pacific Pile & Marine	<u>700 S Riverside</u> Seattle, WA	206-331-3873	
Barge Superintendent		907-538-9854	

#### (b) <u>Other ship interest contacts</u>

Name of institution/ person to Address be contacted		Means of contact	Remarks	
Local agent				
P & I Club and correspondents				

## APPENDIX 5 SHIP'S PLANS AND DRAWINGS

- 1. General Arrangement Plan
- 2. Tank Plan
- 3. Fuel Oil Piping Diagram

Barge Lash IV Page two

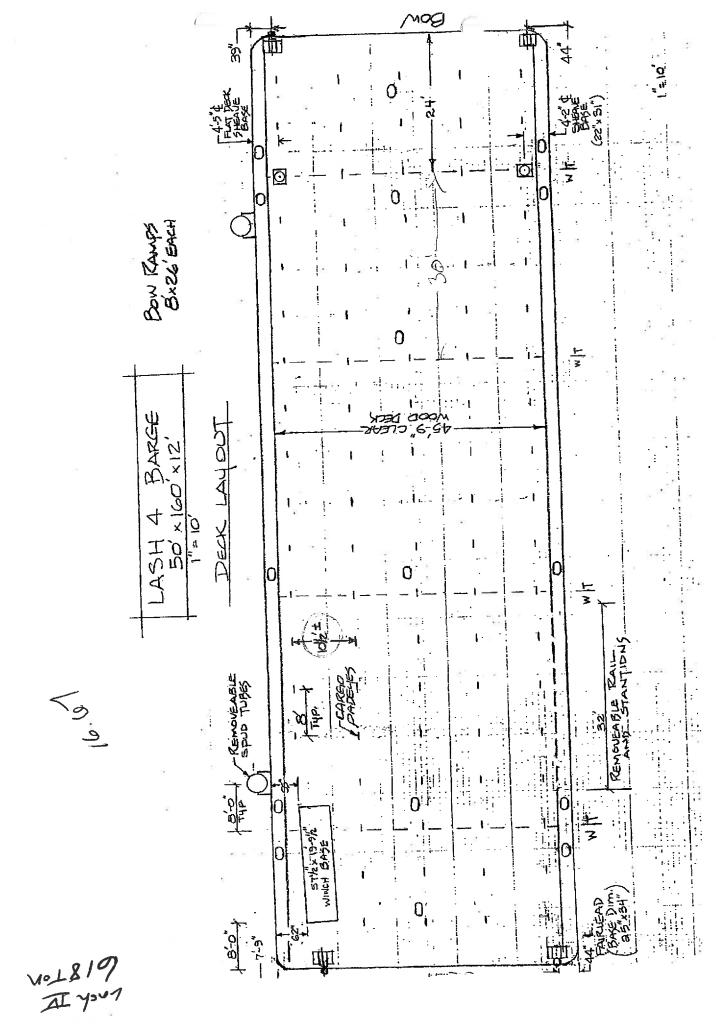
#### STRUCTURAL DETAILS

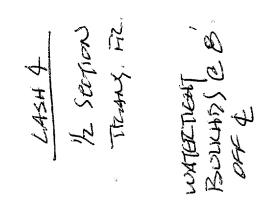
Bottom - 3/8" steel plate Bottom at longitudinal bulkheads - 3/4" steel plate Transverse bottom frames -  $18" \times 4" \times 7/16"$  flanged plate Side frames -  $12" \times 30\#$  channel Diagonal supports -  $5" \times 5" \times 1/2"$  angle Bottom longitudinals -  $7" \times 4" \times 3/8"$  angle Deck longitudinals -  $7" \times 4" \times 3/8"$  angle Longitudinal deck web frames -  $7/16" \times 24"$  plate Longitudinal face bar -  $12" \times 3/4"$  plate Deck 1 - 5/8" steel plate Sheer strake - 5/8" steel plate First below sheer strake - 3/8" steel plate Vertical stanchions -  $8" \times 8" \times 1/2"$  angle

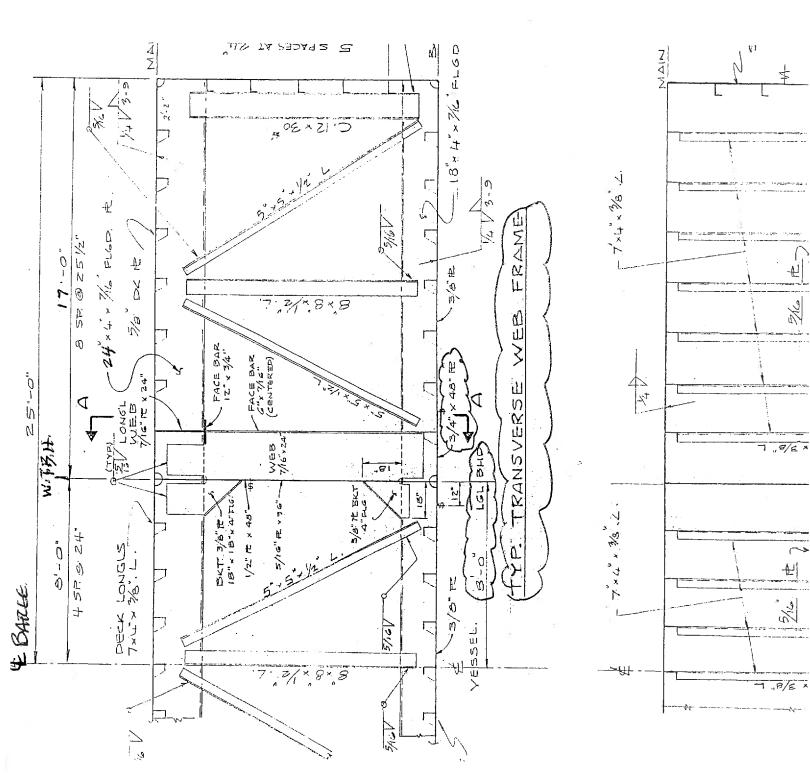
Outch

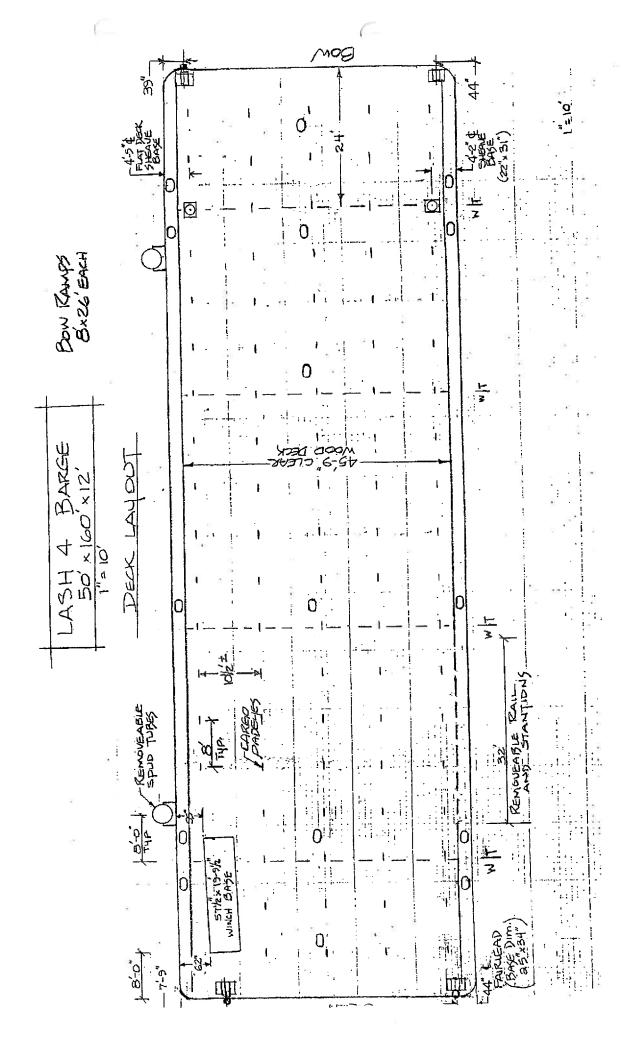
MACHINERY & ELECTRICAL SYSTEMS

Running lights on stanchions Safety tow wire 4 Fairleads mounted near barge corners 4 Drum BU 100 Skagit anchor winch with G.M.C. diesel 2 external, removable spud tubes 2 30" Dia. steel pipe spuds Anchors available as required

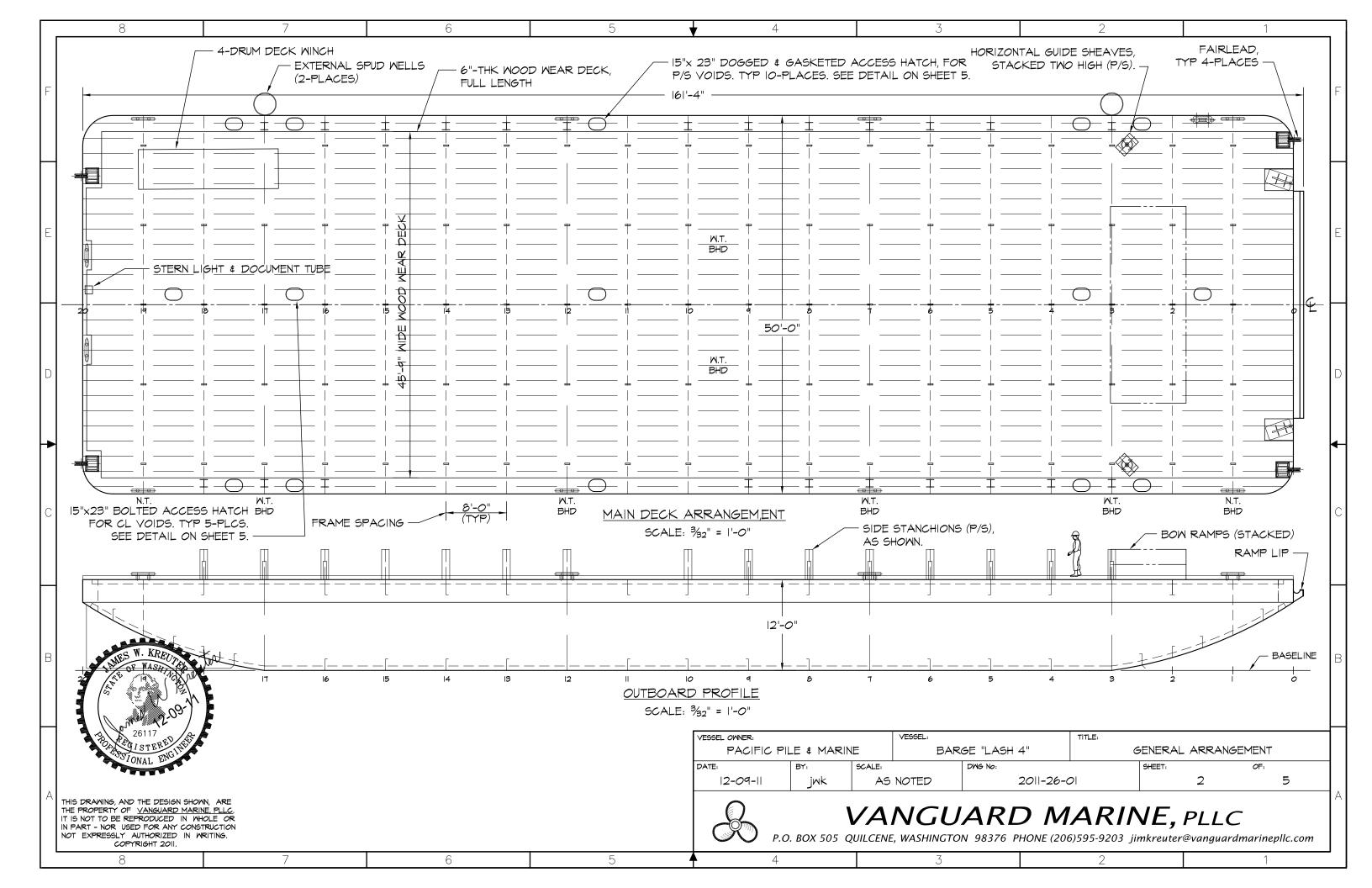


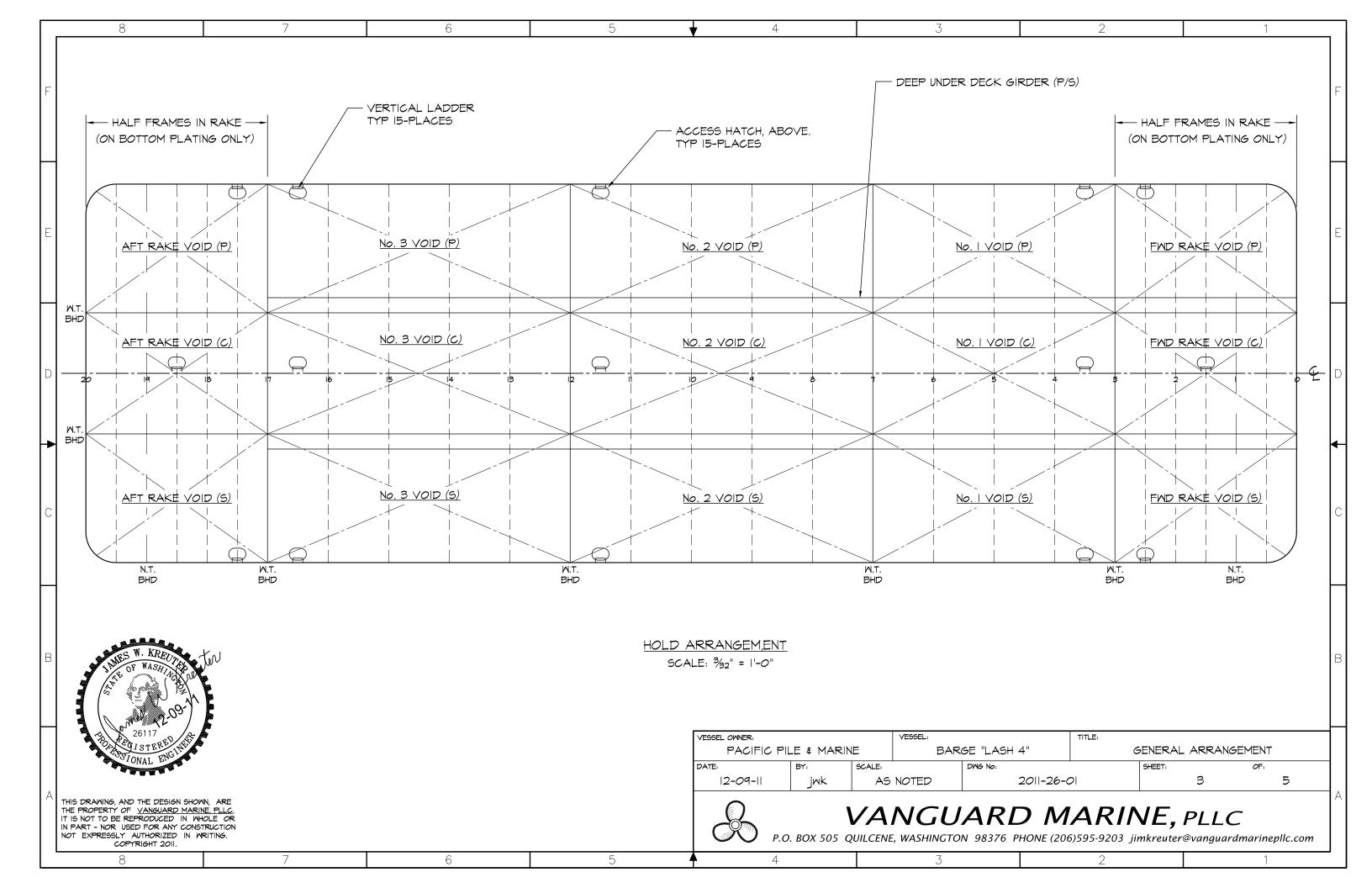


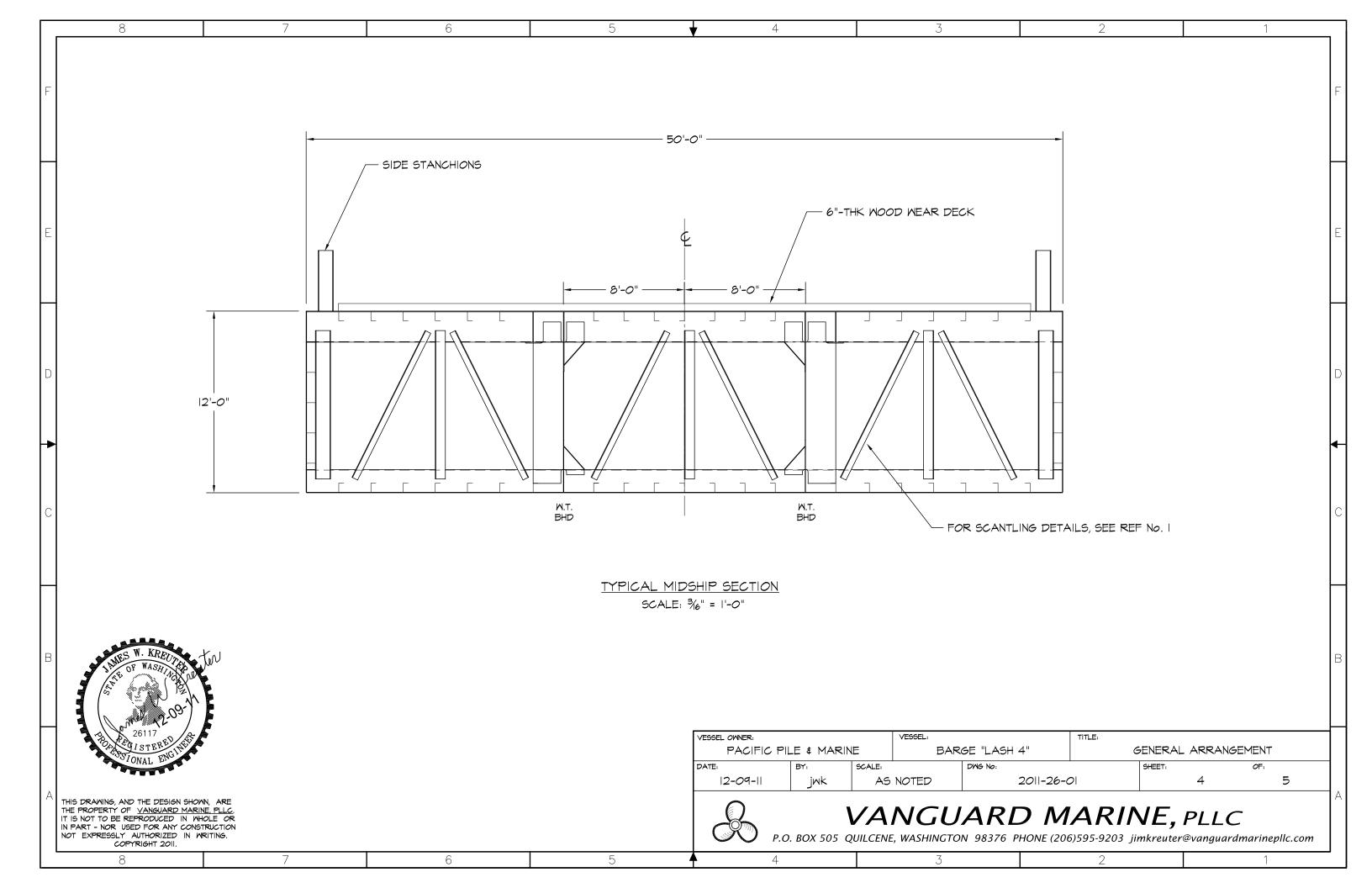


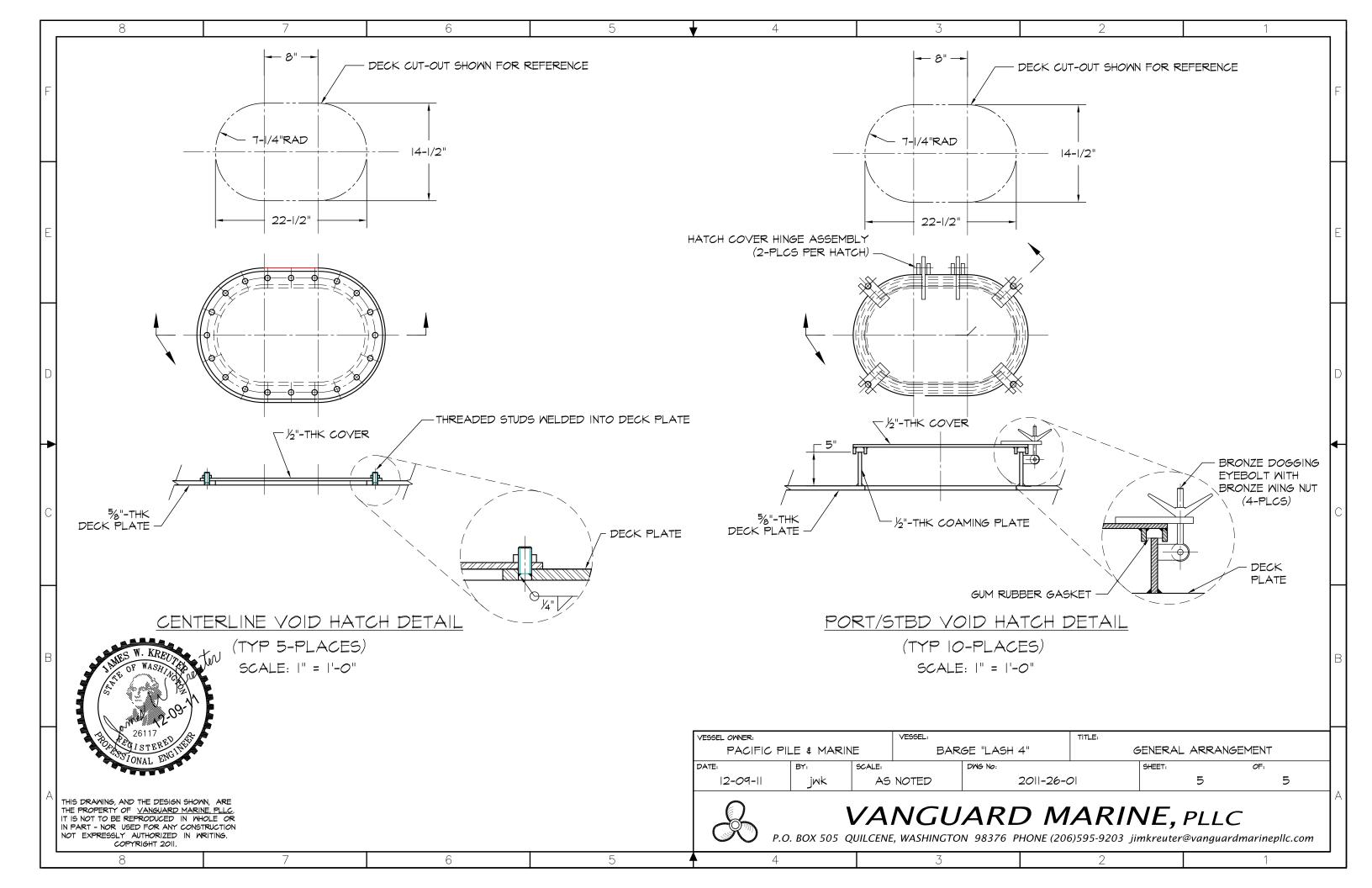


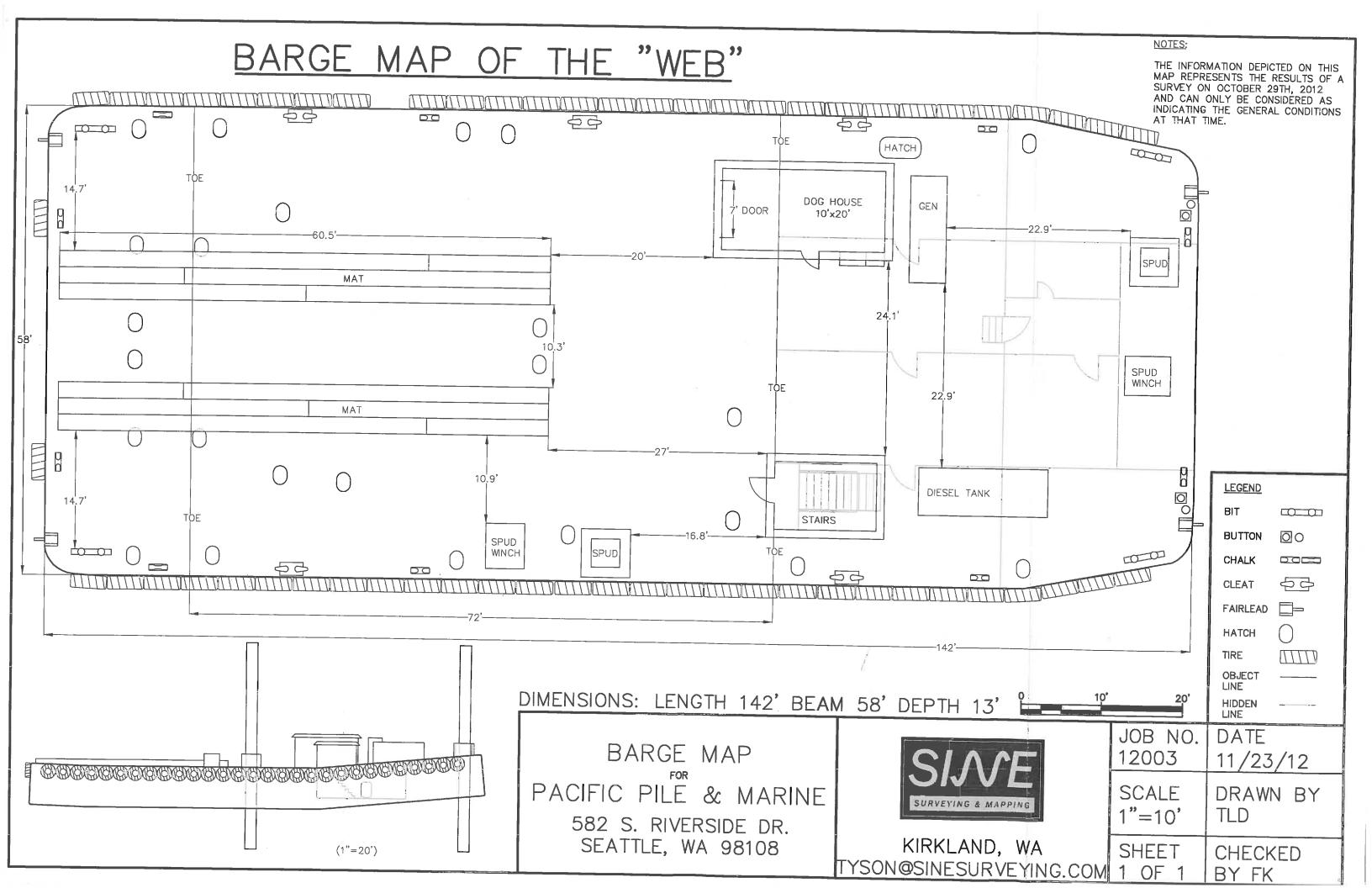
	8 7 6 5	<b>↓</b>	4	3	2	1	
	GENERAL NOTES			REVISIONS	•		
		REV Z	CONE	DESCRIPTION		DATE	APPVD
F	I. THIS DRAWING PROVIDES GENERAL ARRANGEMENT INFORMATION FOR THE BARGE "LASH 4". THE VESSEL GENERAL CHARACTERISTICS ARE AS FOLLOWS:						F
	LENGTH OVERALL						
	BREADTH MOLDED						
	DEPTH MOLDED 12'-0"						
	GROSS TONNAGE						
	USCG DOC. No						
	YEAR BUILT						
F	BUILDERMALTBY TANK (EVERETT, WA)						F
	HULL NUMBER						
	VESSEL SERVICE						
	2. THE BARGE HAS BEEN ISSUED A LOAD LINE CERTIFICATE BY THE AMERICAN BUREAU OF SHIPPING (ABS).						
Η							F
	3. THE BARGE HAS TRANSVERSE FRAMES ON 8'-O" CENTERS. THE BARGE HAS HALF FRAMES (TRANSVERSE)						
	LOCATED AT 4'-O" FROM EACH MAIN FRAME ON THE BOTTOM SHELL IN WAY OF THE FORWARD AND AFT						
	RAKE. THERE ARE NO HALF FRAMES UNDER THE DECK AND THERE ARE NO HALF FRAMES IN THE VESSEL MID-BODY. STRUCTURAL DETAILS ARE PROVIDED ON REFERENCE No. 1.						r
							L
	4. THE BARGE IS PRESENTLY CONFIGURED WITH A MOORING SYSTEM AND TWO EXTERNAL SPUDS. BOTH THE						
	MOORING SYSTEM AND SPUD HOISTING SYSTEM ARE POWERED BY A SINGLE, 4-DRUM WINCH. THE MOORING SYSTEM IS COMPRISED OF FOUR ANCHORS (SIZE UNKNOWN) WITH SWIVEL HEAD FAIRLEADS						
	LOCATED AT THE FOUR CORNERS OF THE BARGE. THE TWO SPUDS ARE 30"-DIAMETER PIPES WITH						
	$^3\!$						
	WELLS MOUNTED TO THE PORT SIDE OF THE BARGE AT FRAMES 3 AND 17.						
C							(
							Ì
Ц							L
	NES W. KREUZ AL						F
	SPACE OF WASHING OF WASHING OF WASHING		2011-26-02	STRUCURAL DETAILS (AS-BUILT)	VANGUARD MARINE, PLLC	12	-09-11
					· · · · · · · · · · · · · · · · · · ·		
		NO.	DRAWING NO.	REFERENCE	BY C		DATE
Н		VESSEL C		REFERENCE Vessel:			<del> </del>
	TO A STERED NOT		PACIFIC PILE & MAR		GENERAL ARRANGE	MENT	
	JONAL EN	DATE:	BY:	SCALE: DWG No:	SHEET:	OF:	
		2	-09-11 jwk	AS NOTED 2011-26	5-0		<b>;</b> ,
1 1	THIS DRAWING, AND THE DESIGN SHONN, ARE THE PROPERTY OF <u>VANGUARD MARINE, PLLC</u> . IT IS NOT TO BE REPRODUCED IN WHOLE OR			VANCUARD	AARINE DUC		ľ
1 1	THE PROPERTY OF VANGUARD MARINE, PLLC. IT IS NOT TO BE REPRODUCED IN WHOLE OR IN PART - NOR USED FOR ANY CONSTRUCTION NOT EXPRESSLY AUTHORIZED IN WRITING. P.O. BOX 505 QUILCENE, WASHINGTON 98376 PHONE (206)595-9203 jimkreuter@vanguardmarineplic.com						
ΙĽ	COPYRIGHT 2011.		P.O. BOX 505	QUILCENE, WASHINGTON 98376 PHONE (A	2003-9203 JIMKreuter@vanguaram	urinepilo	com
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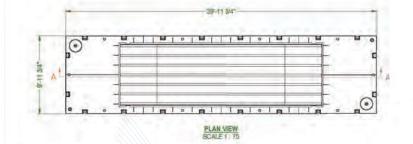


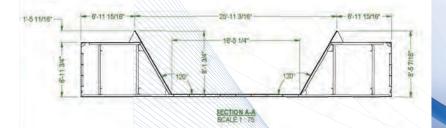
## POSEIDON® BARGE P2-7' SECTIONAL HOPPER

The Poseidon Hopper Barge is made to the same dimensions as the Poseidon P2-40' x 10' x 7' barge section. The P2-7' Hopper has male and female connections to allow for the sections to attach to one another or to another Poseidon P2-40' x 10' x 7' Standard Barge.

## HEAVY DUTY CONSTRUCTION INCLUDES:

- 40' Long x 10' Wide x 8' 5-3/4" Tall Hopper Barge
- 3/8" Wall and Floor Thickness
- Physical Shipping Weight 40,900 lbs
- 50 Yard Hopper Box
- Four Point lifting points
- 1.6' Draft Empty Fresh Water
- Two (2) —18" Deck Hatches Each
- 4" Diameter drain plug





9001:201



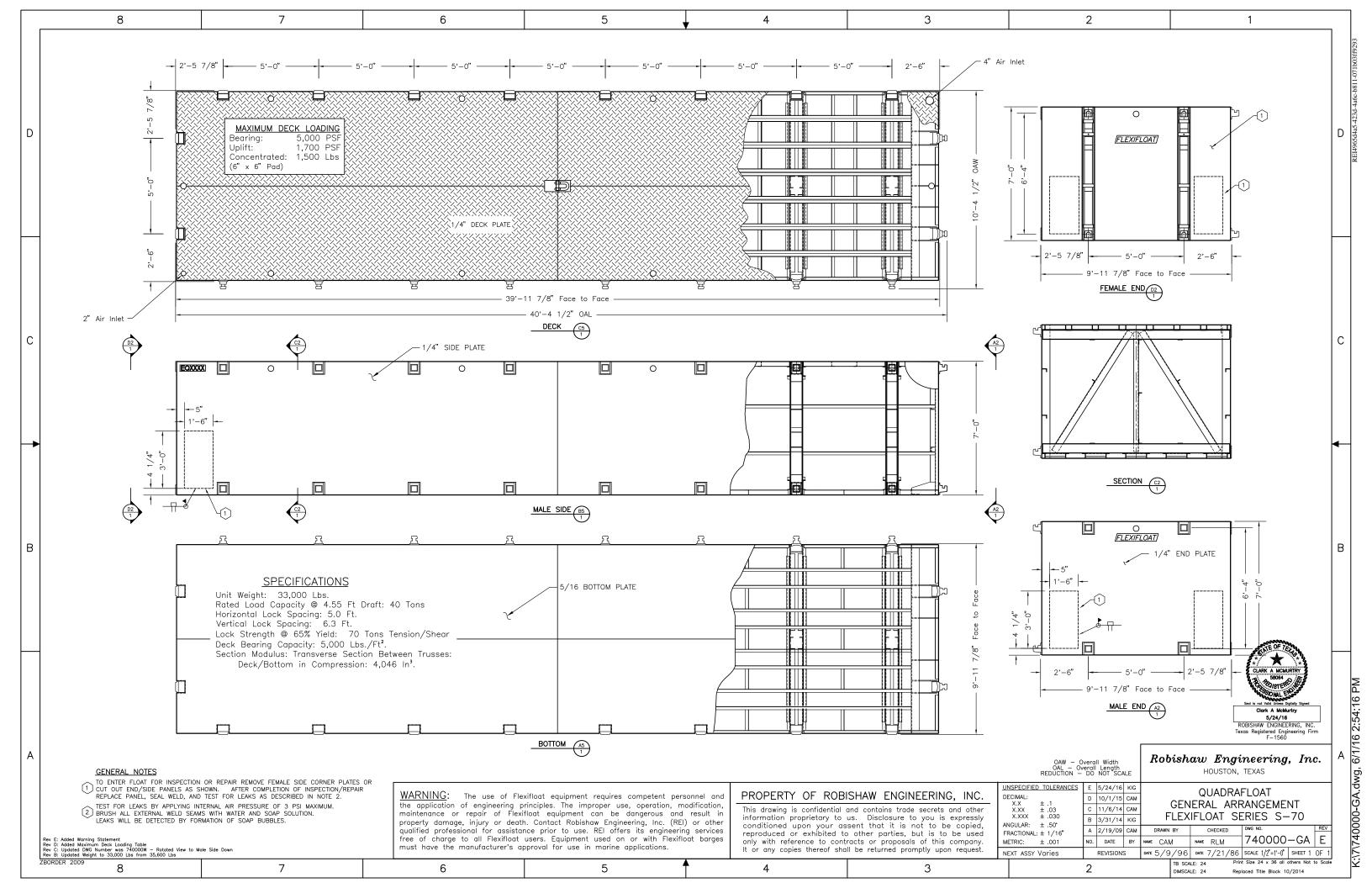
## **Draft Levels Material Capacity:**

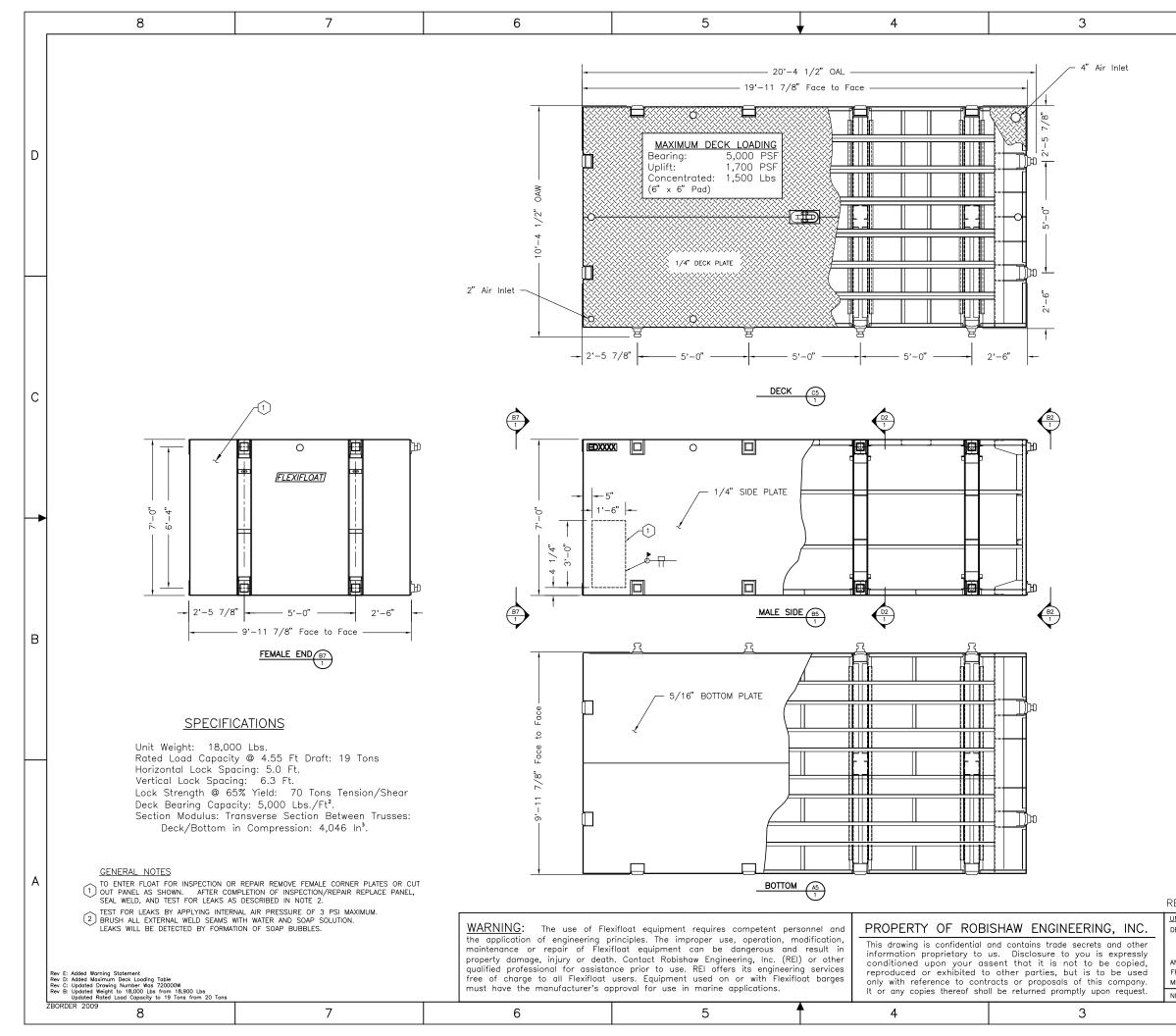
- 2' draft: 4.5 tons of material
- 4' draft: 29.5 tons of material
- 5'10" max allowable draft holds
  52. tons of material

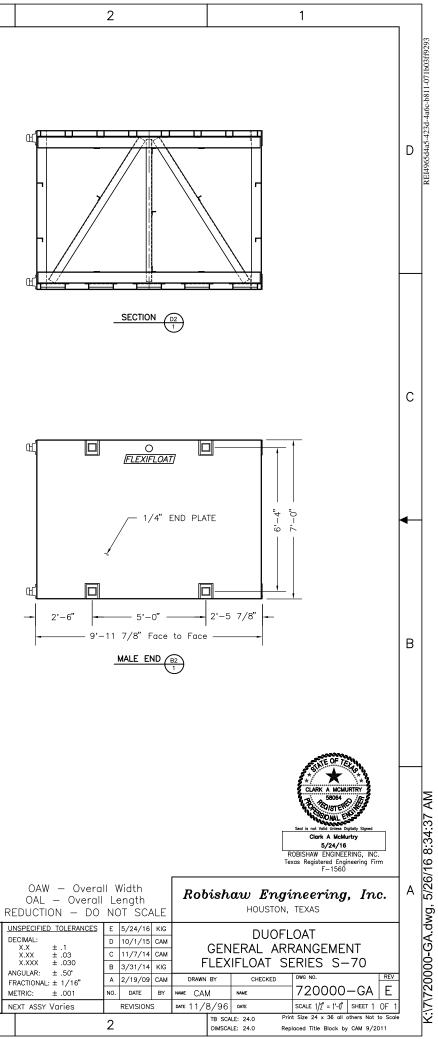
Material weight varies depending on the make up of the dredge material.

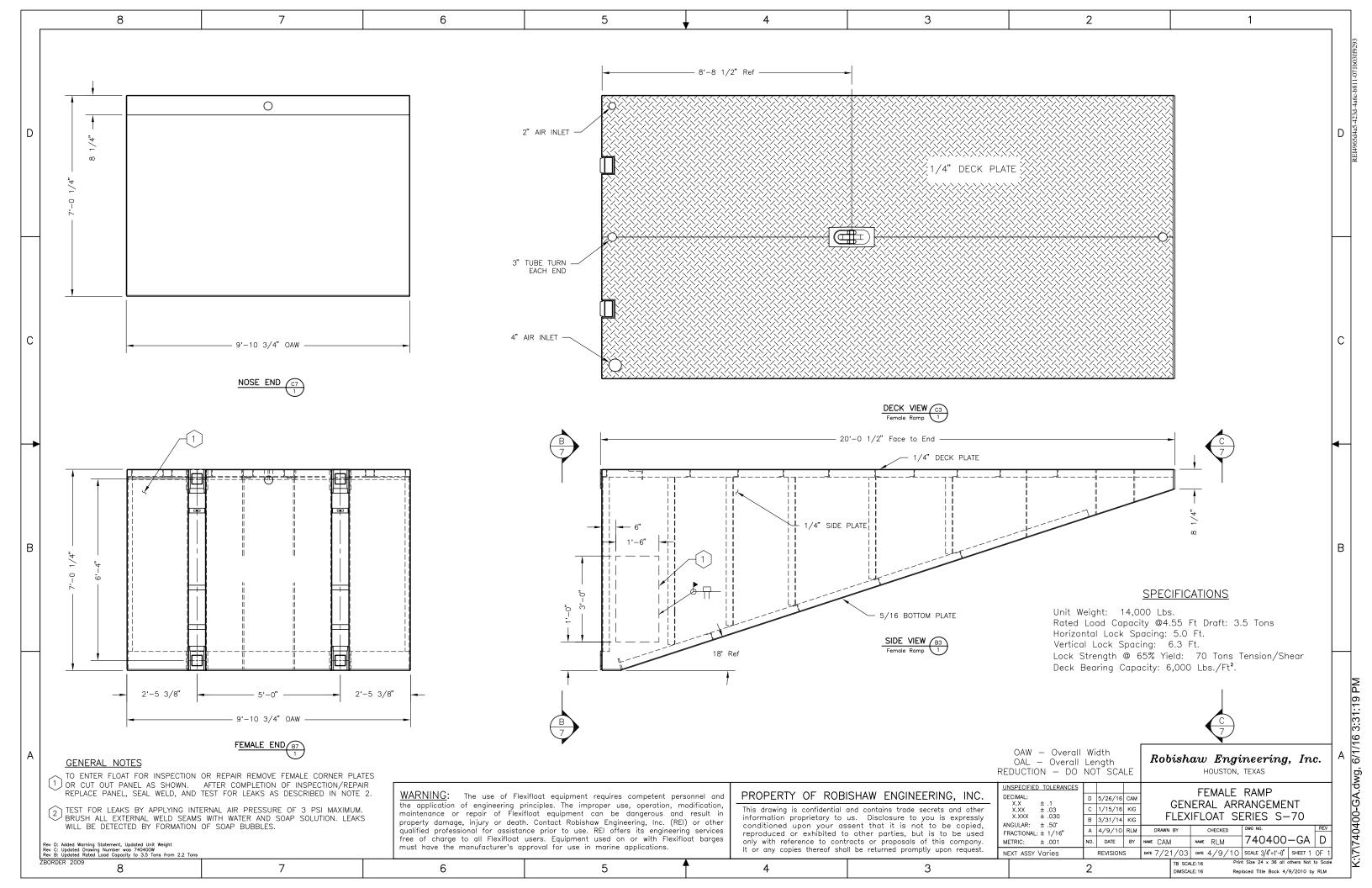
## **POSEIDON® BARGE, LTD**

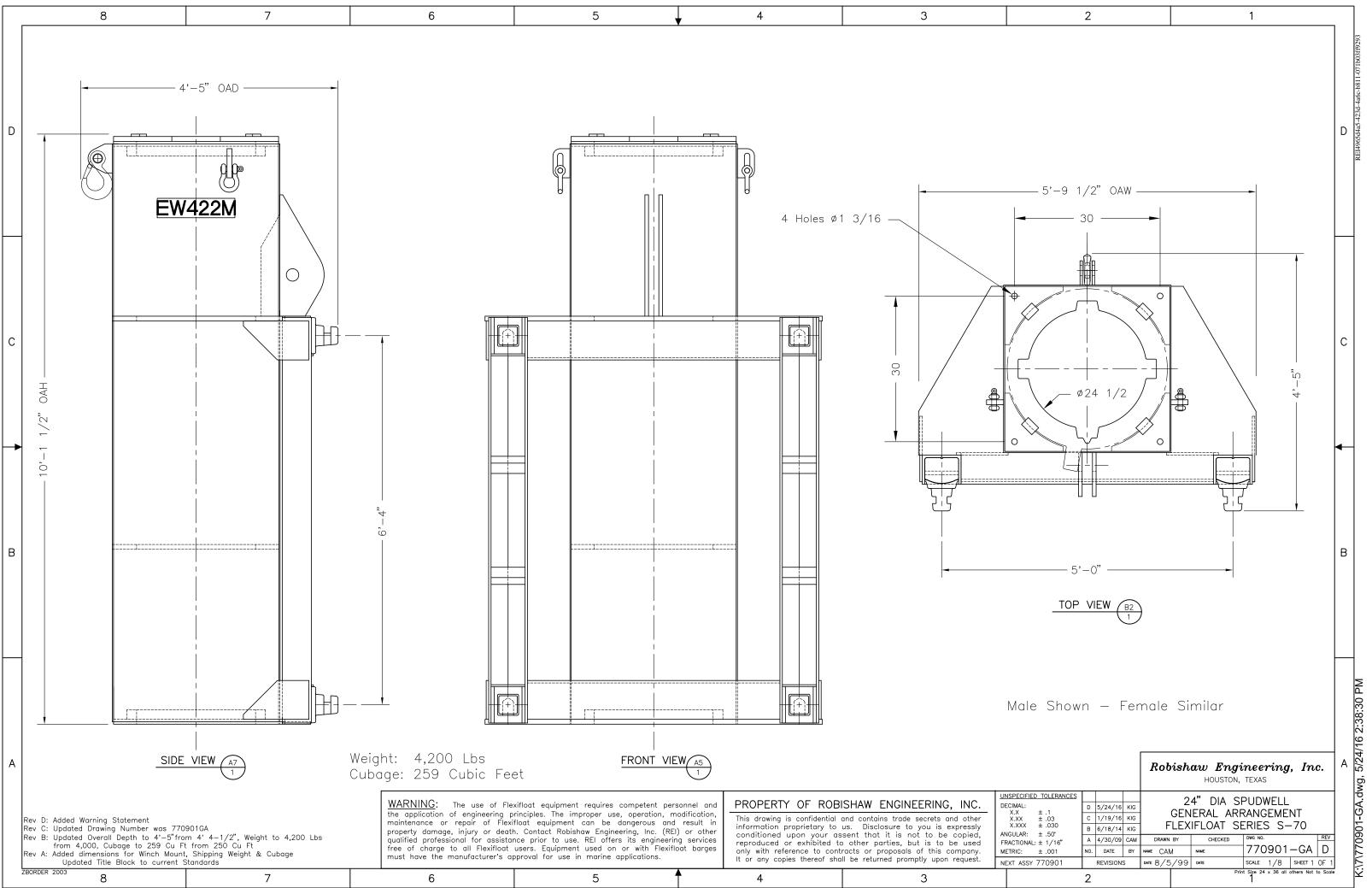
725 East Parr Road, Berne, IN 46711 PH: 866-99-BARGE; FAX: 260-589-2088 WEBSITE: www.poseidonbarge.com STOCK LOCATIONS: Berne, IN • Plain, WI • Leland, NC Cocoa, FL • Coeymans, NY • St. Louis, MO • New Orleans, LA

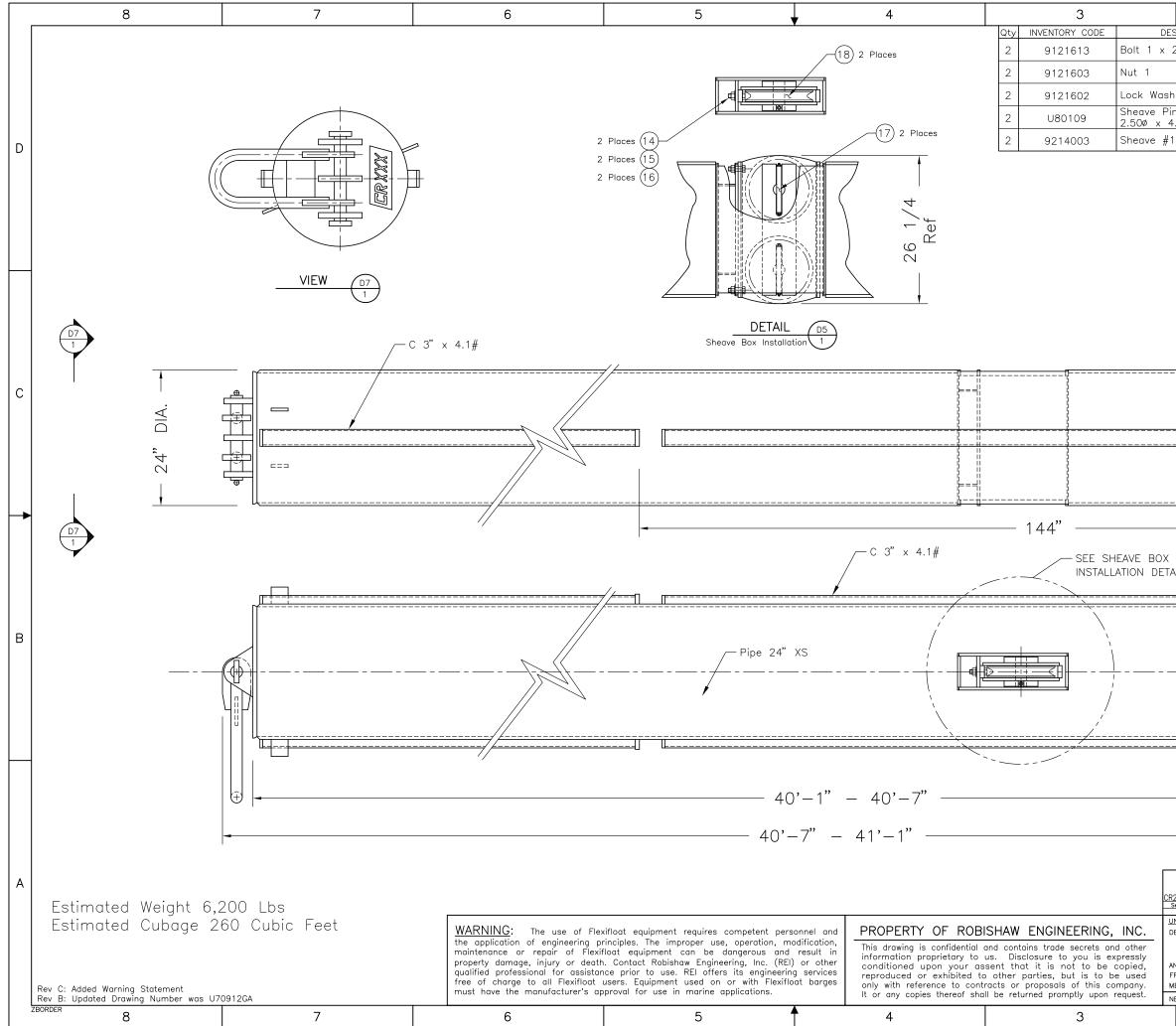




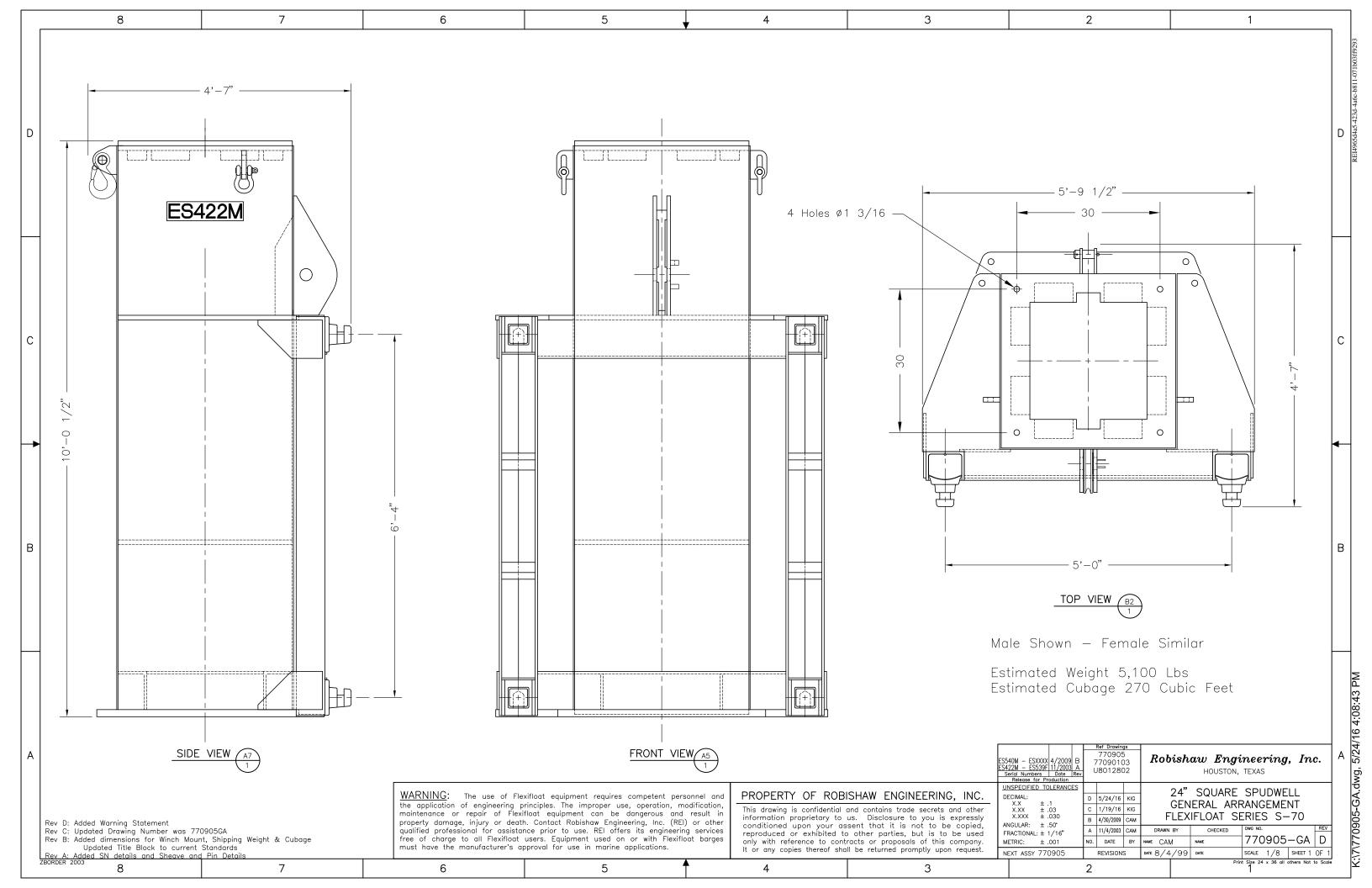


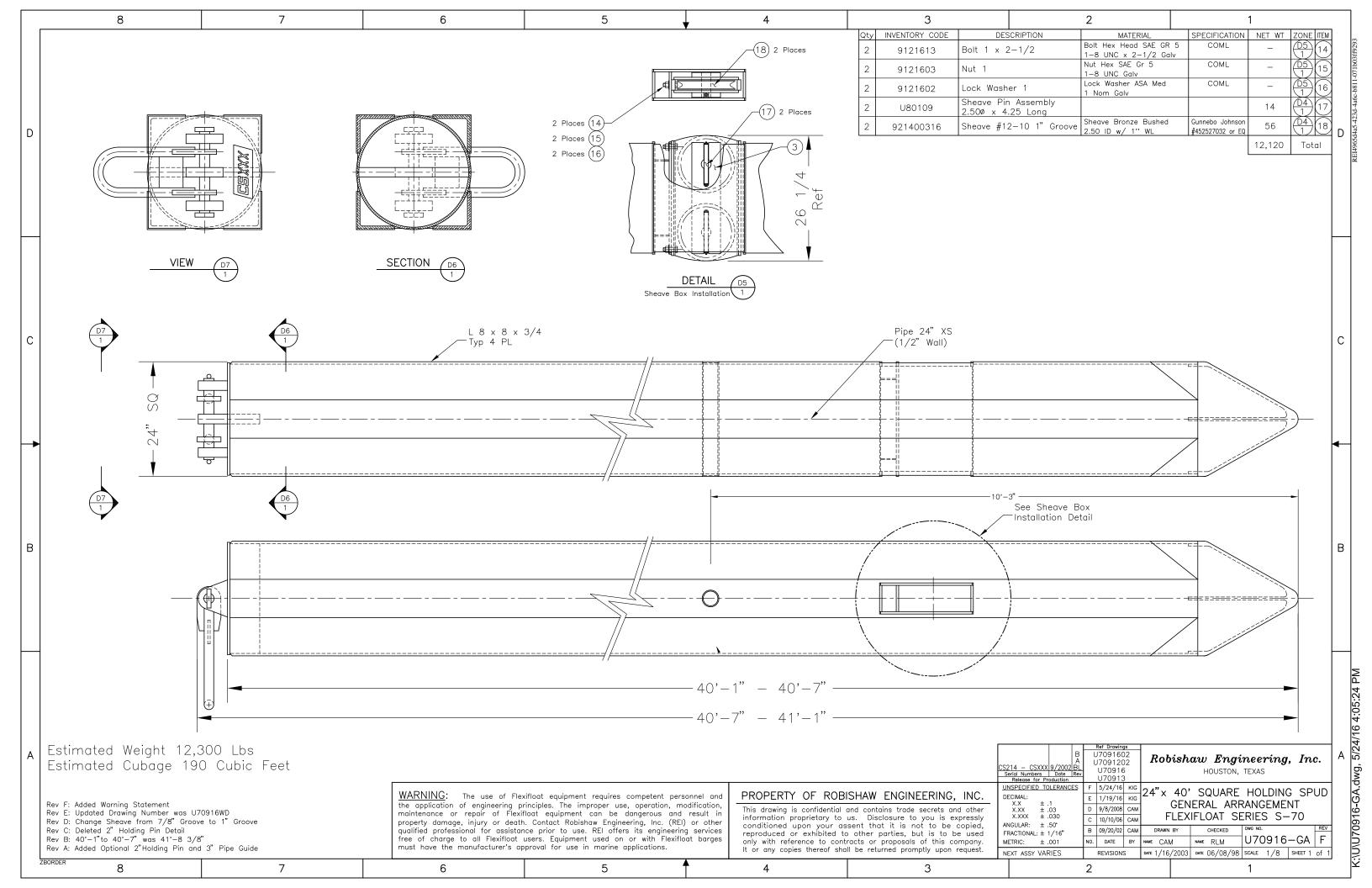


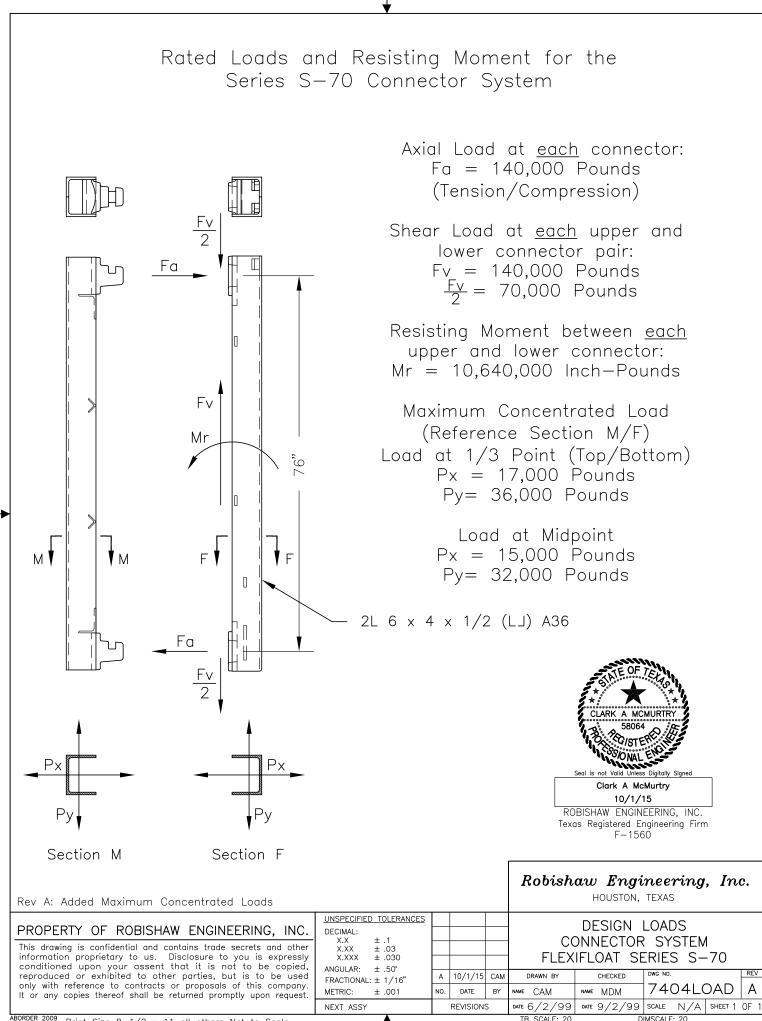




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 $^{ER 2009}$  Print Size 8-1/2 x 11 all others Not to Scale

Replaced Title Block 10/2015





#### Transport Canada

Home > Marine Transportation > Marine Safety > Products & Services > Vessel Registration Query System > Details for registered vessel PAMTAY (O.N. 846893)

# **Details for registered vessel PAMTAY (O.N. 846893)**

#### Vessel

Official Number	846893
Vessel Name	PAMTAY
Former Vessel Name	-
IMO Number	-
Hull Number	-
Year Built	1943
Year Rebuilt	-
Port of Registry	VANCOUVER
<b>Registry Date</b>	2023-08-02
Certificate Expires	2026-08-31
Number of Encumbrances	0

#### **General Statistics**

Vessel Type	BARGE
Gross Tonnage	756.43
Net Tonnage	226.93
<b>Construction Type</b>	WELDED
<b>Construction Material</b>	STEEL
Vessel Length (m)	56.08
Vessel Breadth (m)	15.24
Vessel Depth (m)	3.51

#### Engine

Engine Description	NONE
Number of Engines	0
Propulsion Type	NON-PROPELLED
Speed (knots)	0.0
Propulsion Method	NONE
Propulsion Power	0
Unit of Power	NONE

#### Builder

Name	THE FEDERAL SH
Address	
City	SOUTH KEARNY
Country	UNITED STATES
Province	
Postal Code	-

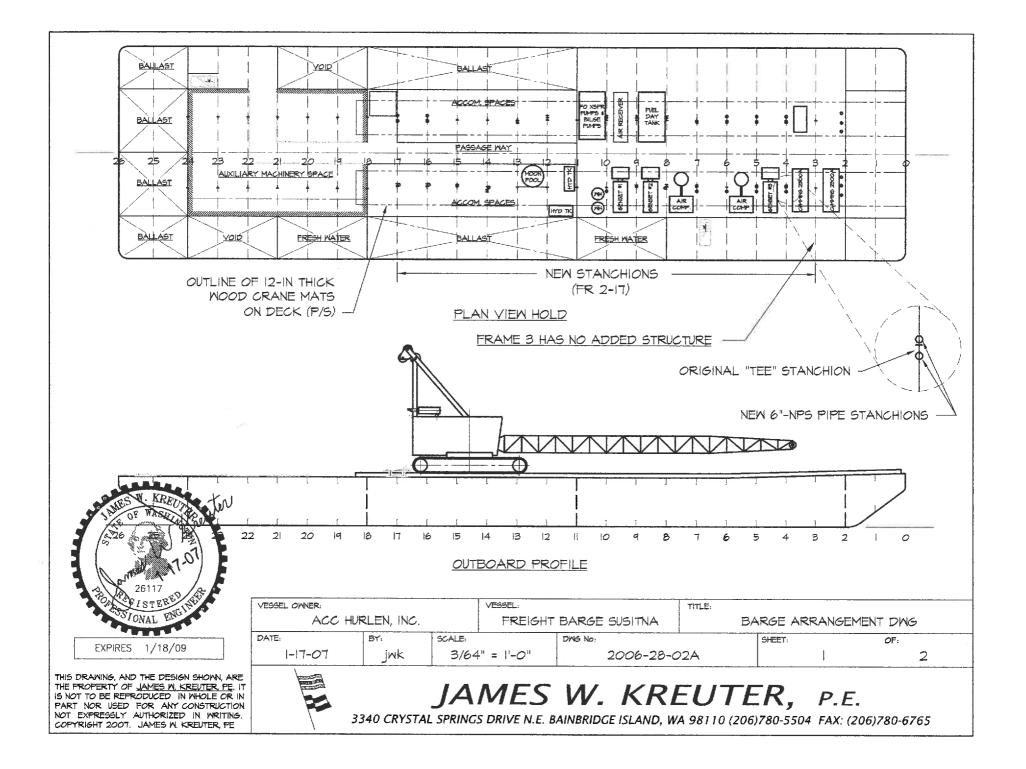
## **Owners**

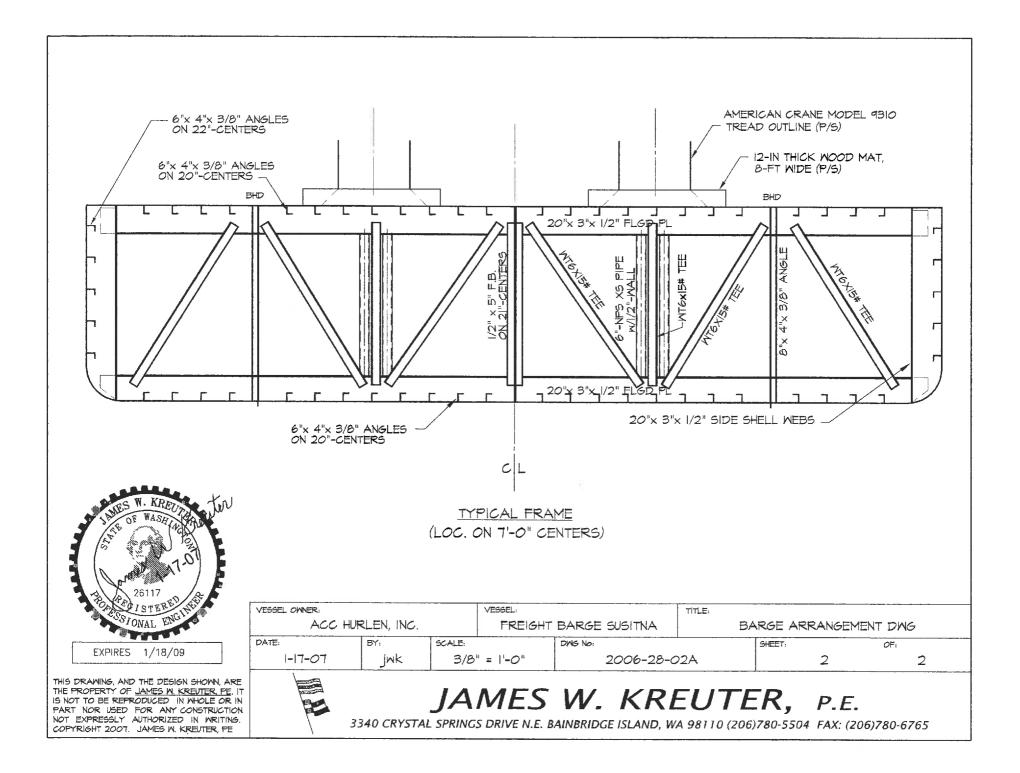
# Sequence #1. Number of Shares: 64

Name	PPM CIVIL CONSTRUCTORS, ULC
Address	604-495 DUNSMUIR STREET
City	NANAIMO
Country	CANADA
Province	BRITISH COLUMBIA
Postal Code	V9R 6B9

# Authorized Representative

Name	PPM CIVIL CONSTRUCTORS, ULC
Address	604-495 DUNSMUIR STREET
City	NANAIMO
Country	CANADA
Province	BRITISH COLUMBIA
Postal Code	V9R 6B9





# **BOYER TOWING, INC.**

P.O. Box 8000 Ketchikan, Alaska 99901 Phone (206) 763-8696 Fax (206) 767-9517

#### PORPOISE Official No: 285683



#### **Overall Dimensions:**

Length: 140 ft. Beam: 35 ft. Depth: 8.6 ft.

#### Useable Deck:

Length: 130 ft. Cargo Capacity: 500 Tons Beam: 32 ft.

#### **Regulatory:**

Gross Tonnage: 339 GRT Net Tonnage: 339 NRT

#### DEADWEIGHT TABLE - SALTWATER (SHORT TONS)

Avg. Draft	Cargo Wt.	]
3'-4 3/8"	0.0	(Lightship)
3'-6"	17.3	
3'-9"	51.8	
4'-0"	86.4	
4'-3"	123.6	
4'-6"	160.8	
4'-9"	198.0	
5'-0"	235.2	
5'-3"	272.7	
5'-6"	310.2	
5'-9"	347.7	
	005.4	
6'-0"	385.1	
6'-3"	423.1	
6'-6"	461.0	
6'-9"	498.9	
7'-0''	536.8	

NOTE:

1. Draft or freeboard shown is for average values.



PORPOISE Barge Deadweight Table Dwg No. 2020-106-300-02A For: Boyer Towing



WEST SOUND MARITIME, INC.

December 9, 2020 By: cjk, Check: jwk Sheet 1 of 2

#### DEADWEIGHT TABLE - FRESHWATER (SHORT TONS)

		_
Avg. Draft	Cargo Wt.	
3'-5 1/2"	0.0	/Lightohin)
3-5 1/2	0.0	(Lightship)
3'-6"	16.9	
3'-9"	50.4	
4'-0"	83.9	
4'-3"	120.1	
4'-6"	156.3	
4'-9"	192.5	
10	192.5	
5'-0"	228.6	
5'-3"	265.1	
5'-6"	301.5	
5'-9"	337.9	
6'-0''	374.3	
6'-3"	411.2	
6'-6"	448.1	
6'-9"	484.9	
7'-0"	521.8	

NOTE:

1. Draft or freeboard shown is for average values.



PORPOISE Barge Deadweight Table Dwg No. 2020-106-300-02A For: Boyer Towing



WEST SOUND MARITIME, INC.

December 9, 2020 By: cjk, Check: jwk Sheet 2 of 2

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CERTIFICATE OF DOCUMENTATION         Image: State S						and the first states	
VESSEL NAME       OFFICIAL NUMBER       MO. OR OTHER NUMBER       VEAR COMPLETED         UNKINGYIN       NONE       UNKINGVIN       UNKINGVIN         HALLING PORT       HULL MATERIAL       INCHAINGAL PROPULSION         GROSS TONNAGE       NET TONNAGE       LENGTH       BREADTH       DEPTH         GBUILT       J39 NRT       137.0       34.2       8.6         PLACE BUILT       UNKNOWN       OPERATIONAL ENDORSEMENTS       BOVER TOWING INC         BOYER TOWING INC       PEGISTRY       COASTWISE       COASTWISE         BOYER TOWING INC       ENTITLEMENTS       NONE       BOVER TOWING INC         RESTRICTIONS       NONE       RESTRICTIONS       NONE         ISSUE DATE       MAY 23.3024       EXTITULE EXPIRES       JUNE 30.2025							
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PREVIOUS EDITION OBSOLETE, THIS CERTIFICATE MAY NOT BE ALTERED

This certificate is not valid for operation of the vessel until the vessel is marked with the name, official number, and hailing port as shown on the certificate. The original certificate must be kept aboard the vessel at all times when in operation and must be presented upon the demand of federal, state or local officials for law enforcement purposes. Vessels with only a recreational endorsement may not engage in commercial trade.

Documented vessels may be registered by states for tax and other purposes and may be required to display a state decal. Renewal is the responsibility of the owner. This certificate becomes invalid upon a change in ownership, change in state of incorporation, or a change in any other element shown on the certificate other than change of address. This certificate is invalid for any vessel other than one documented solely for recreation when the vessel is placed under the command of a person who is not a citizen of the U.S. The vessel and its equipment are liable to seizure and forfeiture to the U.S. government and the owner is liable for a civil penalty of not more than \$10,000.00 per violation. Each day of a continuing violation is a separate violation.

Any change in address of the managing owner must be reported promptly to the NVDC. You may contact NVDC at nvdc.w.webmaster@uscg.mil.

**Note:** The certificate on the face of this document is not conclusive evidence of title in any proceeding where ownership is in issue. Complete records are on file at the NVDC. The sale or transfer section below is provided for convenience only.

#### SALE OR TRANSFER OF VESSEL

100% OF THE VESSEL IDENTIFIED HEREIN IS SOLD (TRANSFERRED) BY THE OWNER(S) NAMED ON THE FACE OF THIS CERTIFICATE TO THE FOLLOWING PERSON(S). ADDRESS MUST BE INCLUDED.

IF SOLD (TRANSFERRED) TO MORE THAN ONE PERSON, THE PURCHASER(S)/TRANSFEREE(S) ARE TENANTS IN COMMON, EACH OWNING AN EQUAL UNDIVIDED INTEREST, UNLESS OTHERWISE INDICATED HEREIN: CHECK ONLY ONE OF THE FOLLOWING BLOCKS TO SHOW ANOTHER FORM OF OWNERSHIP.
JOINT TENANCY WITH RIGHT OF SURVIVORSHIP TENANCY BY THE ENTIRETIES COMMUNITY PROPERTY
SIGNATURE OF SELLER(S)/TRANSFEROR(S) OR PERSONS SIGNING ON BEHALF OF SELLER(S)/TRANSFEROR(S):
DATE SIGNED:
NAME(S) OF PERSON(S) SIGNING ABOVE, AND LEGAL CAPACITY IN WHICH SIGNED (E.G. OWNER, AGENT, TRUSTEE, EXECUTOR)
ACKNOWLEDGMENT (TO BE COMPLETED BY NOTARY PUBLIC OR OTHER OFFICIAL AUTHORIZED BY A LAW OR A STATE OR
THE UNITED STATES TO TAKE OATHS.) STATE:
ON THE PERSON(S) NAMED COUNTY:
NOTARY PUBLIC
MY COMMISSION EXPIRES:
PRIVACY ACT STATEMENT IN ACCORDANCE WITH 5 USC 552(A). THE FOLLOWING INFORMATION IS PROVIDED TO YOU WHEN SUPPLYING PERSONAL INFORMATION TO THE U.S. COAST GUARD:
1. AUTHORITY. SOLICITATION OF THIS INFORMATION IS AUTHORIZED BY 46 USC CHAPTER 313 AND 46 CFR, PART 67.
2. THE PRINCIPAL PURPOSES FOR WHICH THIS INSTRUMENT IS TO BE USED ARE:
<ul> <li>(A) TO PROVIDE A RECORD, AVAILABLE FOR PUBLIC INSPECTION AND COPYING, OF THE SALE OR OTHER CHANGE IN OWNERSHIP OF A VESSEL WHICH IS DOCUMENTED, WILL BE DOCUMENTED, OR HAS BEEN DOCUMENTED PURSUANT TO 46 USC, CHAPTER 121.</li> <li>(B) RETENTION FOR EXAMINATION BY GOVERNMENTAL AUTHORITIES AND MEMBERS OF THE GENERAL PUBLIC.</li> </ul>
3. THE ROUTINE USE WHICH MAY BE MADE OF THIS INFORMATION INCLUDES DEVELOPMENT OF STATISTICAL DATA CONCERNING DOCUMENTED VESSELS.
4. DISCLOSURE OF THE INFORMATION REQUESTED ON THIS FORM IS VOLUNTARY. HOWEVER, FAILURE TO PROVIDE THE INFORMATION COULD PRECLUDE FILING OF A BILL OF SALE AND DOCUMENTATION OF THE VESSEL NAMED HEREIN PURSUANT TO 46 USC CHAPTER 121. MOREOVER, BILLS OF SALE WHICH ARE NOT FILED ARE NOT DEEMED TO BE VALID AGAINST ANY PERSON HAVING ACTUAL KNOWLEDGE OF THE SALE. (46 USC 31321 (A)).
AN AGENCY MAY NOT CONDUCT OR SPONSOR, AND A PERSON IS NOT REQUIRED TO RESPOND TO A COLLECTION OF INFORMATION UNLESS IT DISPLAYS A VALID OMB CONTROL NUMBER.
THE COAST GUARD ESTIMATES THAT THE AVERAGE BURDEN FOR THIS FORM IS 20 MINUTES FOR COMPLETING AND 3 MINUTES FOR FILING. YOU MAY SUBMIT ANY COMMENTS CONCERNING THE ACCURACY OF THIS BURDEN ESTIMATE OR ANY SUGGESTIONS FOR REDUCING THE BURDEN TO: U.S. COAST GUARD, NATIONAL VESSEL DOCUMENTATION CENTER, 792 T J JACKSON DRIVE, FALLING WATERS, WEST VIRGINIA 25419 OR OFFICE OF MANAGEMENT AND BUDGET, PAPERWORK REDUCTION PROJECT (1625-0027), WASHINGTON, DC 20503.
<b>AX</b> 696650922419

#### 80'x40'x5' Flexifloat Raft w/ Hitachi ZX470-6 Excavator Stability Guidance

SEATTLE, WASHINGTON	Pacific Pile & Marine		ADDIVIELLL B. RITE
Glosten CLOSTEN.COM		Bradley G. Lamkin, PE PRINCIPAL-IN-CHARGE	TRO PEGISTERED
document no.: 24159.01-001	REV: -	DATE: 24 October 2024	Digitally Signed 24-Oct-2024

## **Raft Stability**

Calculations on file at Glosten show that the  $80' \times 40' \times 5'$  Flexifloat Raft meets the lifting stability criteria of Reference 1, with the raft configured as follows:

- 1. The excavator is a Hitachi Z470LC-6 excavator weighing 112.3 kip with the following configuration:
  - a. 20'-7" mass boom.
  - b. 21' Jewell stick.
  - c. 36" triple semi-grouser shoes.
  - d. 2 cu. yd Young RS200 clamshell bucket.
  - e. Maximum pick load of 59 kips.
- 2. The raft geometry and excavator location are as shown on Sheet 4. The excavator's tracks shall be fully extended.
- 3. Prior to operation, the excavator shall be in its initial working position as shown on Sheet 4 with the boom on centerline.
- 4. In this initial position, the raft's initial conditions shall be within the following limits:

Minimum Average Freeboard	Maximum Heel	Maximum Trim		
(measured at raft ends)	(measured across working end)	(measured at raft ends)		
2'-9"	Level	1'-0" Fwd or 1'-0" Aft		

- 5. All voids shall remain dry.
- 6. In addition to the excavator and crane mats, the raft may be loaded down to the limiting draft with other solid deck weights. The height of these miscellaneous weights shall not exceed 8' above the main deck. These weights shall be secured against movement.
- 7. Initial raft heel and trim may be controlled by miscellaneous weights on deck.
- 8. The excavator shall operate with 12" crane mats oriented as shown on Sheet 4. The excavator may walk forward on the raft as noted on Sheet 4 for spud access/removal only.
- 9. Spuds shall be down or removed during equipment operations.
- 10. All unprotected manholes, access openings, etc., through which progressive flooding may take place must be closed while the excavator is in operation.

## **Excavator Operations**

When operating according to the rated load chart and range of operation above, the maximum raft heel or trim angle will not exceed  $3.0^{\circ}$  when operating under the following restrictions.

- 1. The initial conditions described in Raft Stability Item 4, above, are adhered to.
- 2. The raft meets the stability requirements of Reference 1 when the total load lifted is less than or equal to 59 kips.
- 3. The excavator may not travel with a load. At no time is raft transiting permitted with a load.
- 4. There is no inclination chart for this excavator. It is assumed that the excavator can operate in raft heel and trim angles up to 3.0°.
- 5. Calculations have been performed demonstrating that the excavator will have adequate friction force to prevent sliding and/or shifting prior to the stability criteria being met. However, Section 1437(n)(5) of Ref. 2 still requires physical restraint. All manufacturer recommendations and PPM policies for lashing of equipment for marine use shall be followed.
- 6. The raft deck structure has been analyzed using the machine self-weight and the max pick load (noted in item 4 above). The excavator shall operate with the crane mat configuration shown on Sheet 4. The maximum nominal deck pressure from is less than the allowable deck pressure provided in Reference 4.
- 7. The guidance provided is for static conditions only. The operator's judgement must be used to allow for dynamic effects from wind and sea. Sea state wavelengths of more than half the raft beam shall be avoided.
- 8. In addition to the limitations set forth in this guidance, the operator shall adhere to all available manufacturer's guidance, including any guidance regarding safe operation of the excavator in a marine environment and wind restrictions.
- 9. If operated in the manner described above, the raft may have the following maximum angles/conditions (not necessarily concurrently):

   Raft Heel

   Raft Heel
   Raft Trim

   Achieved Righting Energy
   Reqd. Righting Energy

Raft Heel	Raft Trim	Achieved Righting Energy	Reqd. Righting Energy
2.7°	2.2°	25.1 ft-deg	10.0 ft-deg

# Assumptions

- The raft operates in salt water with calm conditions and in partially protected waters.
- The raft lightship was derived from Reference 4. The longitudinal transverse and vertial centers were derived from Reference 3.

Lightship:	220.8 kip
LCG:	40 ft aft of FP
TCG:	0.0 ft off centerline
VCG:	3.0 ft above baseline

- The excavator weight is provided in Reference 5. The center of gravity is conservatively assumed to be at its center of rotation and at the top of the cab in the initial condition.
- A lift capacity chart does not exist for the extended Jewell stick configuration. However, given that the counterweight and base machine weights have not changed, the load and frontend tipping moment limits can be assumed the same as stock. The new boom and stick weigh more than stock and therefore the max pick of 59kips from the load chart is conservative. Hydraulic capacity may limit operations prior to stability limits.
- When operating forward or aft, the combined excavator and load LCG is assumed to be aligned with the track ends.

2

• When operating port or starboard, the combined excavator and load is conservatively assumed to be at the tracks outer edge.

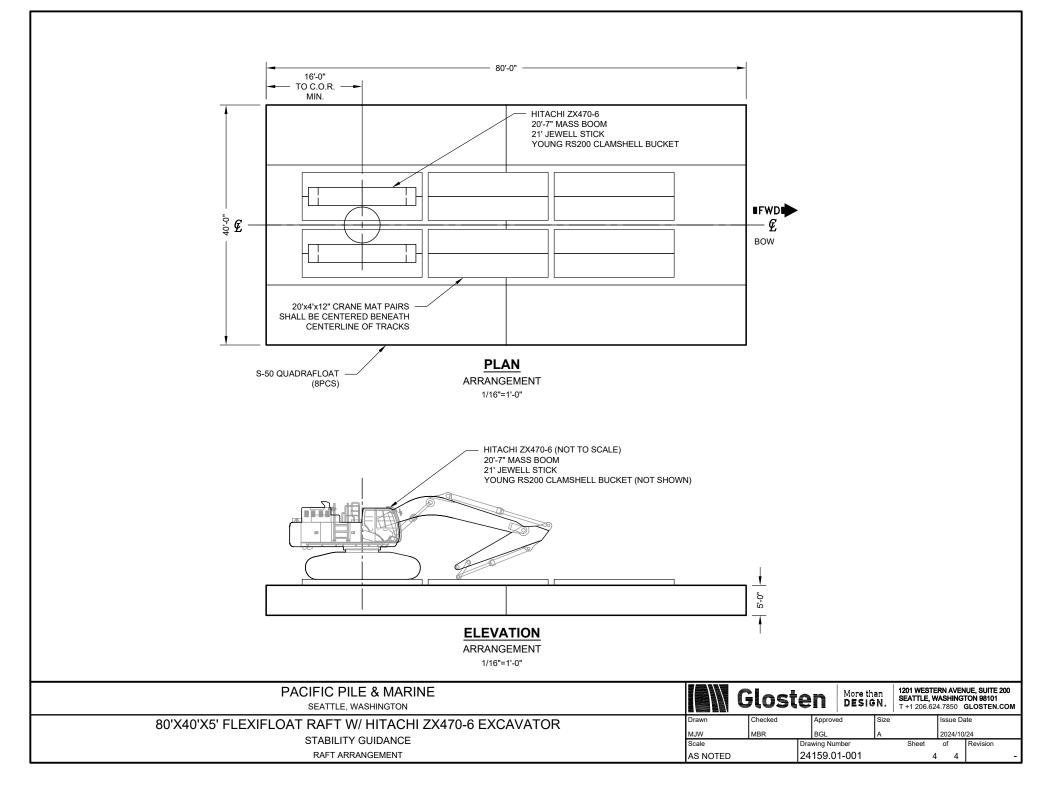
## **Period of Validity**

The stability guidance is valid for four years from the issue date. After this time, the contractor/operator shall review the following items with Glosten prior to reissuing the stability guidance.

- Area of operation and applicable stability criteria.
- Excavator configuration and applicable manufacturer's modes of operations and limits.
- Raft arrangement and structural condition.
- Use of deck cargo.

#### References

- 1. 46 CFR§173 Subpart B, Lifting, 2023.
- 29 CFR§1926 Subpart CC, Floating Cranes/Derricks and Land Cranes/Derricks on Barges, 2023.
- 3. Marine Safety Manual, Vol. IV, United States Coast Guard, 2024.
- 4. *Robishaw Engineering, Inc.*, Working Drawing, Flexifloat S-50 Quadrafloat 540000W, Rev A, 19 February 2009.
- 5. Hitachi Ltd., Production-Class Excavators ZX470-6, June 2016.



1625-0027

DEPARTMENT OF HOMELAND SECURITY **UNITED STATES COAST GUARD** 

NATIONAL VESSEL DOCUMENTATION CENTER

# **CERTIFICATE OF DOCUMENTATION**

VESSEL NAME		OFFICIAL NUMBER	IMO OR	OTHER NUMBER	YEAR COMPLETED	
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#### DEADWEIGHT TABLE (SHORT TONS)

#### **SALTWATER**

	Avg. Draft	Cargo Wt.
(Lightship)	2'-8 7/8"	0.0
	3'-0"	71.1
	3'-3"	139.0
	3'-6"	207.3
	3'-9"	276.1
	4'-0"	345.4
	4'-3"	415.1
	4'-6"	485.3
	4'-9"	555.9
	5'-0"	627.0
	5'-3"	698.6
	5'-6"	770.6
	5'-9"	843.1
	6'-0"	916.1
	6'-3"	989.5
	6'-6"	1,063.4
	6'-9"	1,137.7

Avg. Draft	Cargo Wt.	]
<b>7'-0''</b> 7'-3"	<b>1,212.5</b> 1,287.8	
7'-6" 7'-9"	1,363.5 1,439.7	
<b>8'-0''</b> 8'-3" 8'-6" 8'-9"	<b>1,516.4</b> 1,593.5 1,671.0 1,748.8	
<b>9'-0''</b> 9'-3" <b>9'-5 1/2''</b> 9'-6" 9'-9"	<b>1,826.6</b> 1,904.4 <b>1,969.3</b> 1,982.2 2,060.0	(Loadline)
<b>10'-0"</b> 10'-3" 10'-6"	<b>2,137.8</b> 2,215.6 2,293.4	



#### NOTES:

- 1. Drafts shown are average values.
- 2. Table shown applies to even keel conditions (no trim).
- 3. Lightship weight is assumed to be 707.13-ST, based on freeboard measurements taken on 10-25-22.

Barge KP-5 Deadweight Table Dwg No. 2022-071-300-01A For: Boyer Towing, Inc.



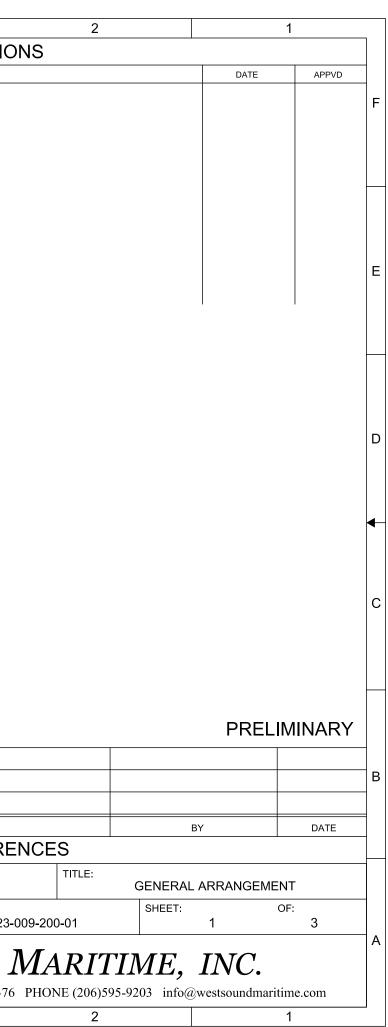
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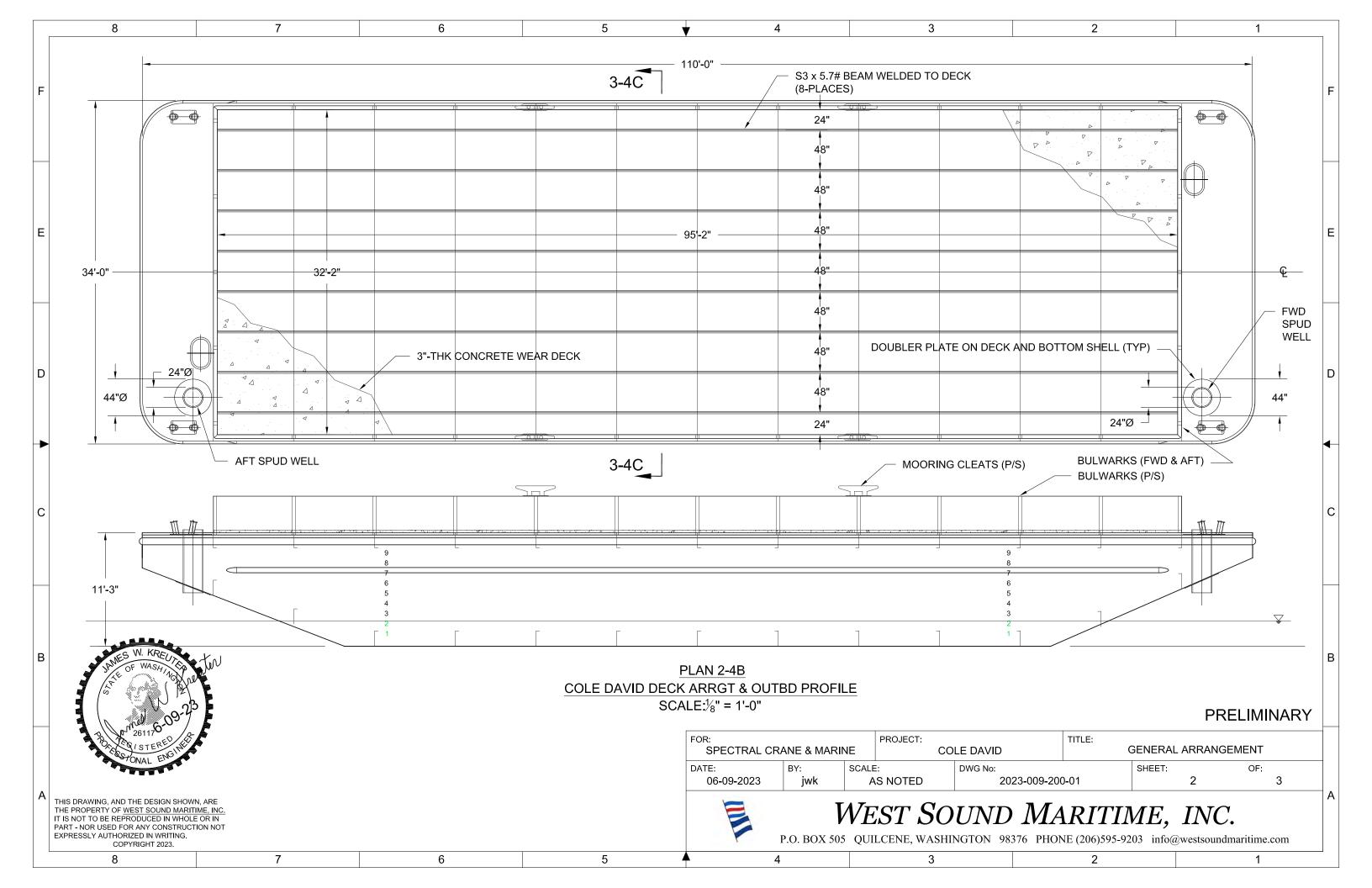
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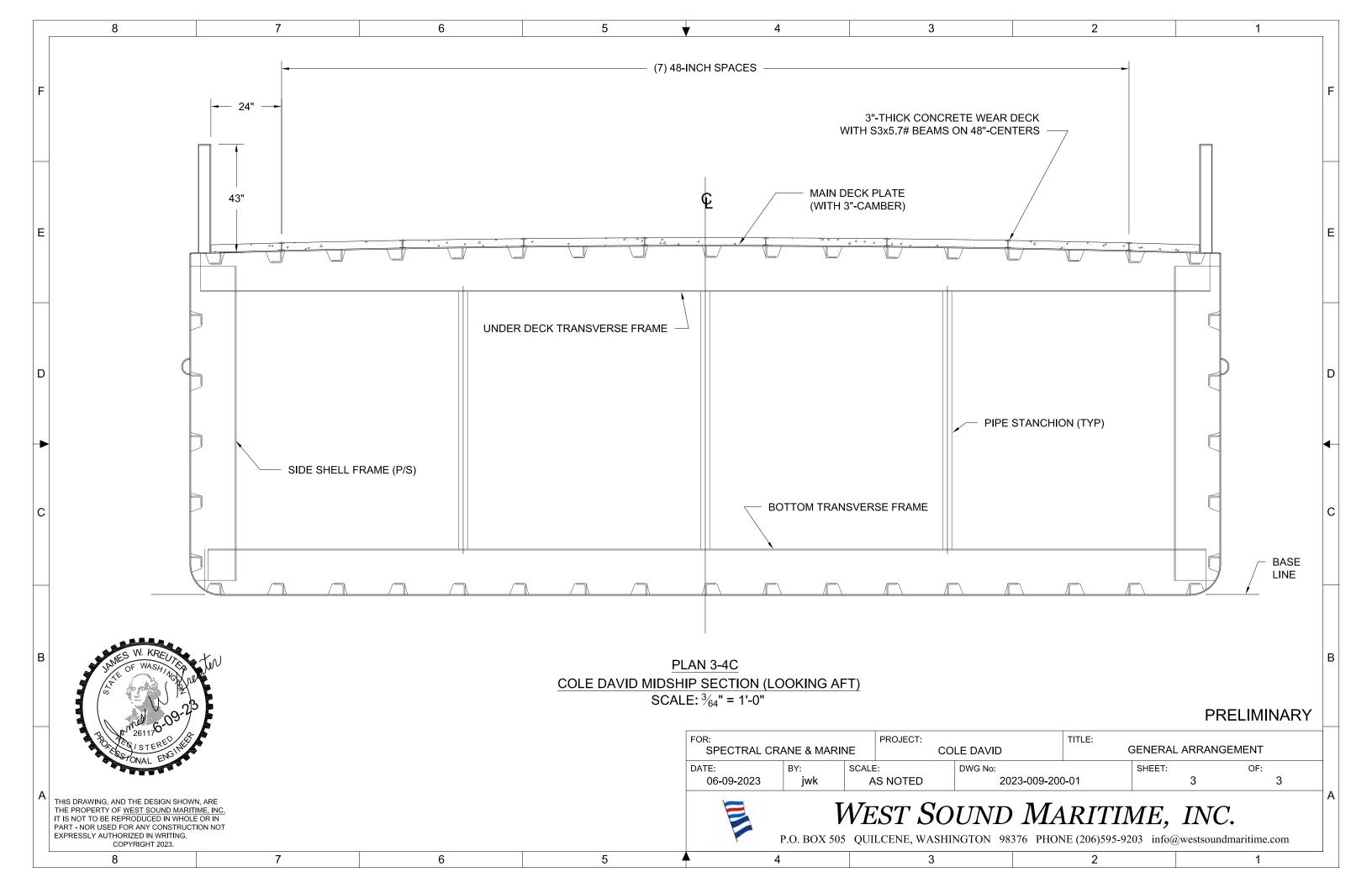
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#### DEADWEIGHT TABLE - SALTWATER (SHORT TONS)

Avg. Draft	Cargo Wt.	]
3'-4 3/8"	0.0	(Lightship)
3'-6"	17.3	
3'-9"	51.8	
4'-0"	86.4	
4'-3"	123.6	
4'-6"	160.8	
4'-9"	198.0	
5'-0"	235.2	
5'-3"	272.7	
5'-6"	310.2	
5'-9"	347.7	
	005.4	
6'-0"	385.1	
6'-3"	423.1	
6'-6"	461.0	
6'-9"	498.9	
7'-0''	536.8	

NOTE:

1. Draft or freeboard shown is for average values.



PORPOISE Barge Deadweight Table Dwg No. 2020-106-300-02A For: Boyer Towing



WEST SOUND MARITIME, INC.

December 9, 2020 By: cjk, Check: jwk Sheet 1 of 2

#### DEADWEIGHT TABLE - FRESHWATER (SHORT TONS)

		_
Avg. Draft	Cargo Wt.	
3'-5 1/2"	0.0	/Lightohin)
3-5 1/2	0.0	(Lightship)
3'-6"	16.9	
3'-9"	50.4	
4'-0"	83.9	
4'-3"	120.1	
4'-6"	156.3	
4'-9"	192.5	
10	192.5	
5'-0"	228.6	
5'-3"	265.1	
5'-6"	301.5	
5'-9"	337.9	
6'-0''	374.3	
6'-3"	411.2	
6'-6"	448.1	
6'-9"	484.9	
7'-0"	521.8	

NOTE:

1. Draft or freeboard shown is for average values.



PORPOISE Barge Deadweight Table Dwg No. 2020-106-300-02A For: Boyer Towing



WEST SOUND MARITIME, INC.

December 9, 2020 By: cjk, Check: jwk Sheet 2 of 2



A CHIC PHIE & Marine, LPT 206 331-3873700 South Riverside DriveF 206 774-5958Seattle, WA 98108License # DACKE

License # PACIFPM922J3

#### **Attachment C- Maintenance Schedule**

Vessel(s)	Mandatory Dry Docking	Mandatory Inspections	Optional Dry Docking	Regular Inspections	Preventive Maintenace	Emergency Repairs
KP Barges	N/A	N/A	Every 6 years (1 is anticipated during project)	checking the hull for structural integrity, ensuring that mooring equipment is in good condition, and inspecting internal bulkheads and voids for cleanliness and wear.	Regular cleaning to prevent buildup of marine growth and debris is essential. Maintenance of mooring lines, hatches, and fittings, as well as checking and lubricating moving parts like winches and hinges. Application of anti- fouling paint where applicable	Use of divers for hull repairs
Kumtux	Every 5 years	Conducted every year to verify the condition of the hull, equipment, and machinery, ensuring they meet ABS standards and remain in satisfactory condition.	N/A	checking the hull for structural integrity, ensuring that mooring equipment is in good condition, and inspecting internal bulkheads and voids for cleanliness and wear.	Regular cleaning to prevent buildup of marine growth and debris is essential. Maintenance of mooring lines, hatches, and fittings, as well as checking and lubricating moving parts like winches and hinges. Application of anti- fouling paint where applicable	Use of divers for hull repairs
Lash 4	Every 5 years	Conducted every year to verify the condition of the hull, equipment, and machinery, ensuring they meet ABS standards and remain in satisfactory condition.	N/A	checking the hull for structural integrity, ensuring that mooring equipment is in good condition, and inspecting internal bulkheads and voids for cleanliness and wear.	hatches, and fittings, as well as checking and lubricating	Use of divers for hull repairs. PPM mechanics for anchoring systems
WEB	N/A	N/A	Every 6 years	and voids for cleanliness and wear. inspection of hull for	Regular cleaning to prevent buildup of marine growth and debris is essential. Maintenance of mooring lines, hatches, and fittings, as well as checking and lubricating moving parts like winches and hinges. Application of anti- fouling paint where applicable	Use of divers for hull repairs. PPM mechanics for anchoring systems
PamTay	N/A	N/A	Every 6 years	and voids for cleanliness and wear. inspection of hull for	Regular cleaning to prevent buildup of marine growth and debris is essential. Maintenance of mooring lines, hatches, and fittings, as well as checking and lubricating moving parts like winches and hinges. Application of anti- fouling paint where applicable	Use of divers for hull repairs. PPM mechanics for anchoring systems

P2 Hopper Barges	N/A	N/A	N/A	checking the hull for structural integrity, ensuring that mooring equipment is in good condition, and inspecting internal bulkheads and voids for cleanliness and wear. inspection of hull for corrosion, damage, and leaks, ensuring the integrity of the deck and structural component	Regular cleaning to prevent buildup of marine growth and debris is essential. Maintenance of mooring lines, hatches, and fittings. Application of anti-fouling paint where applicable	Use of divers for hull repairs
FlexiFloat	N/A	N/A	N/A	and voids for cleanliness and wear. inspection of hull for	Regular cleaning to prevent buildup of marine growth and debris is essential. Maintenance of mooring lines, hatches, and fittings, as well as checking and lubricating moving parts like winches and hinges. Application of anti- fouling paint where applicable	Use of divers for hull repairs. PPM mechanics for anchoring systems
Judge Dredge	N/A	N/A	N/A		hatches, and fittings, as well as checking and lubricating	Use of divers for hull repairs. PPM mechanics for anchoring systems
Halle H	Tugboats must undergo drydocking and ISE twice within a five-year period, with no more than three years between examinations. One of these examinations must be conducted while the vessel is out of the water. The drydocking inspection includes examination of the hull, propulsion systems, steering apparatus, and other underwater components. The ISE focuses on internal structural integrity.	<ul> <li>Hull and Structural Integrity: Examination for corrosion, damage, and overall structural condition.</li> <li>Machinery and Electrical Systems: Checks on engines, generators, electrical wiring, and battery conditions.</li> <li>Safety Equipment: Inspection of life rafts, life jackets, fire extinguishers, and other emergency equipment.</li> <li>Operational Readiness: Verification of navigational aids, communication systems, and alarms.</li> <li>Documentation Review: Ensuring all necessary logs, certificates, and documentation are up-to- date and properly maintained.</li> </ul>	N/A	routine checks of safety equipment, hull integrity, electrical systems, and navigational aids	cleaning and painting the hull, inspecting and maintaining deck machinery, and verifying the operation of all onboard systems	Use of divers for hull repairs. Boyer mechanics for anchoring systems

Gretchen H	Tugboats must undergo drydocking and ISE twice within a five-year period, with no more than three years between examinations. One of these examinations must be conducted while the vessel is out of the water. The drydocking inspection includes examination of the hull, propulsion systems, steering apparatus, and other underwater components. The ISE focuses on internal structural integrity.	Safety Equipment: Inspection of life rafts_life	N/A	routine checks of safety equipment, hull integrity, electrical systems, and navigational aids	cleaning and painting the hull, inspecting and maintaining deck machinery, and verifying the operation of all onboard systems	Use of divers for hull repairs. Boyer mechanics for anchoring systems
Fog Dog	N/A	N/A	N/A	routine checks of safety equipment, hull integrity, electrical systems, and navigational aids	propulsion systems, and servicing	Removal of boat from water at PPM Yard for hull repairs. PPM mechanics for propulsion issues
Work Skiffs	N/A	N/A	N/A	routine checks of electrical systems, navigation lights, and bilge pumps	propulsion systems, and servicing the outboard motor, including oil changes and spark plug replacements.	Removal of boat from water at PPM Yard for hull repairs. PPM mechanics for propulsion issues

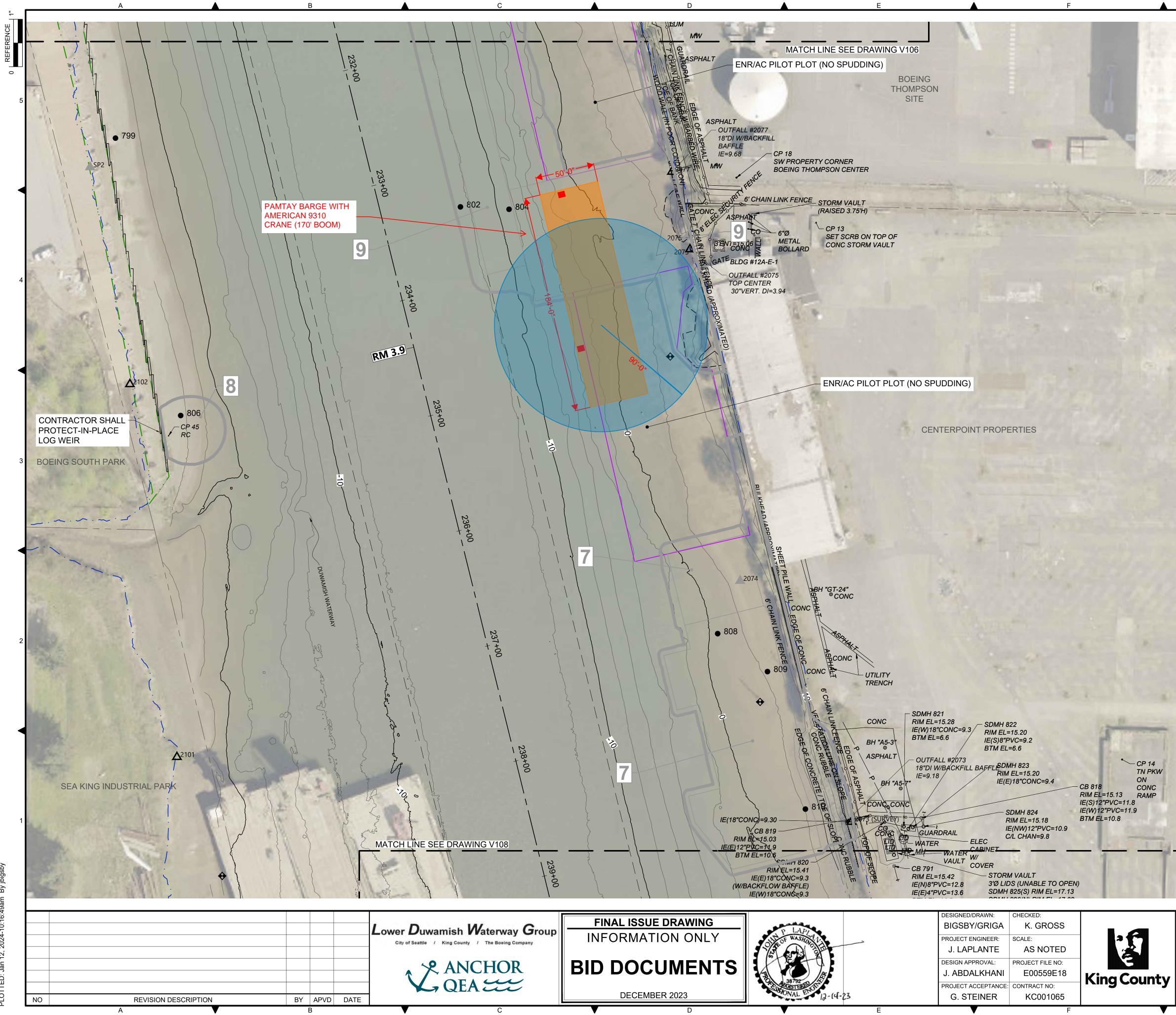
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## **Attachment D- Mooring Locations**



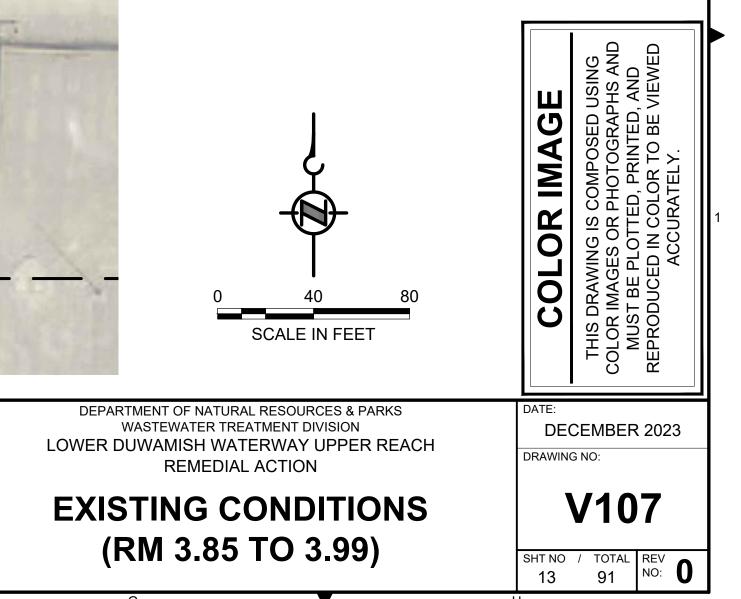
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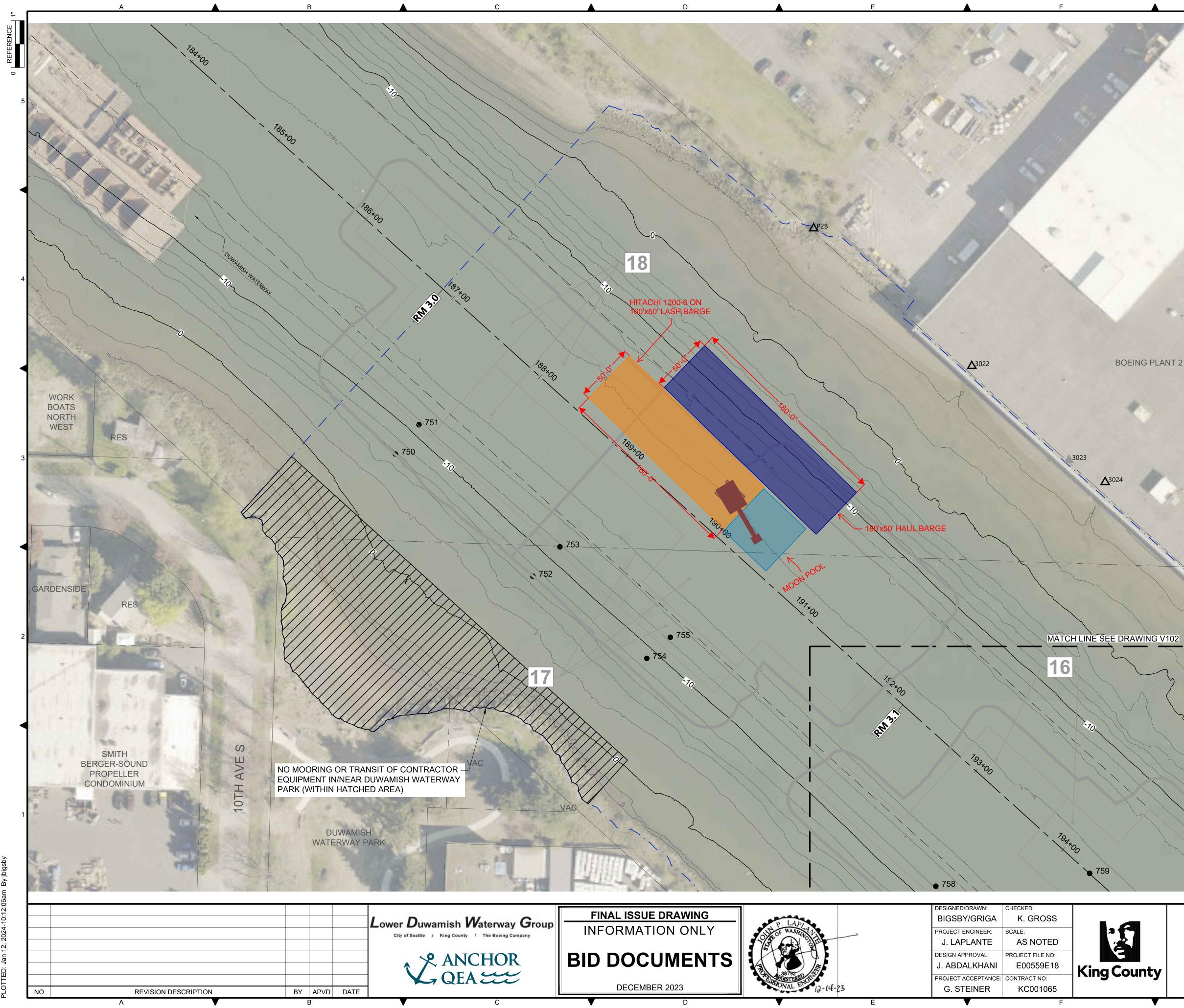


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	EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
Δ	OUTFALL LOCATION (ACTIVE) - LOCATION APPROXIMATE
	OUTFALL LOCATION (PRESUMED ABANDONED, INACTIVE, OR REMOVED) - LOCATION APPROXIMATE
�	DOLPHIN
•	VERTICAL DELINEATION CORE LOCATION
	SEDIMENT MANAGEMENT AREA BOUNDARY
14	SEDIMENT MANAGEMENT AREA NUMBER
	ENR/AC PILOT PLOTS
<u> </u>	HABITAT AREA (CONTRACTOR TO PROTECT)

## NOTES:

- 1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
- 2. VERTICAL DATUM: MLLW
- 3. AERIAL SOURCE: KING COUNTY 2021
- 4. THESE DRAWINGS DISPLAY THE LOCATION OF VERTICAL DELINEATION CORES ONLY. THE FULL DESIGN DATASET IS AVAILABLE AS A REFERENCE DOCUMENT, SEE SPECIFICATION SECTION 01 13 00.
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- 6. ITALICIZED TEXT REPRESENT SURVEYOR'S FIELD NOTES. CONTRACTOR TO VERIFY ANY NOTES RELEVANT TO THE CONTRACTOR'S WORK.





BORDER FILE EDITION: xKCWTD-Dsize-TB-Boi \\gala\cad\Projects\0067-King County\LDW Uppei PLOTTED: Jan 12, 2024-10:12:06am By jbigsby

# LEGEND:

250+00	USACE CHANNEL CENTERLINE AND STATIONING
	FEDERAL NAVIGATION CHANNEL
RM 3.0	RIVER MILE LABEL
	KING COUNTY PARCEL
·	LDW UPPER REACH APPROXIMATE BOUNDARY
	EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
Δ	OUTFALL LOCATION (ACTIVE) - LOCATION APPROXIMATE
	OUTFALL LOCATION (PRESUMED ABANDONED, INACTIVE, OR REMOVED) - LOCATION APPROXIMATE
•	VERTICAL DELINEATION CORE LOCATION
	SEDIMENT MANAGEMENT AREA BOUNDARY
14	SEDIMENT MANAGEMENT AREA NUMBER

**BOEING PLANT 2** 

#### NOTES:

- 1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
- 2. VERTICAL DATUM: MLLW

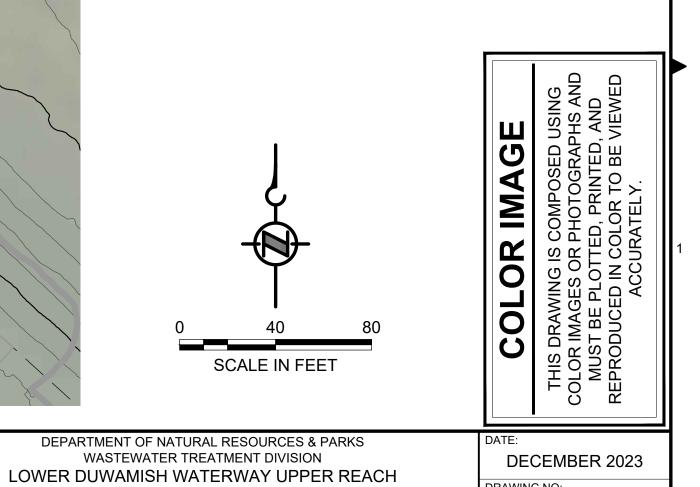
REMEDIAL ACTION

**EXISTING CONDITIONS** 

(RM 2.93 TO 3.15)

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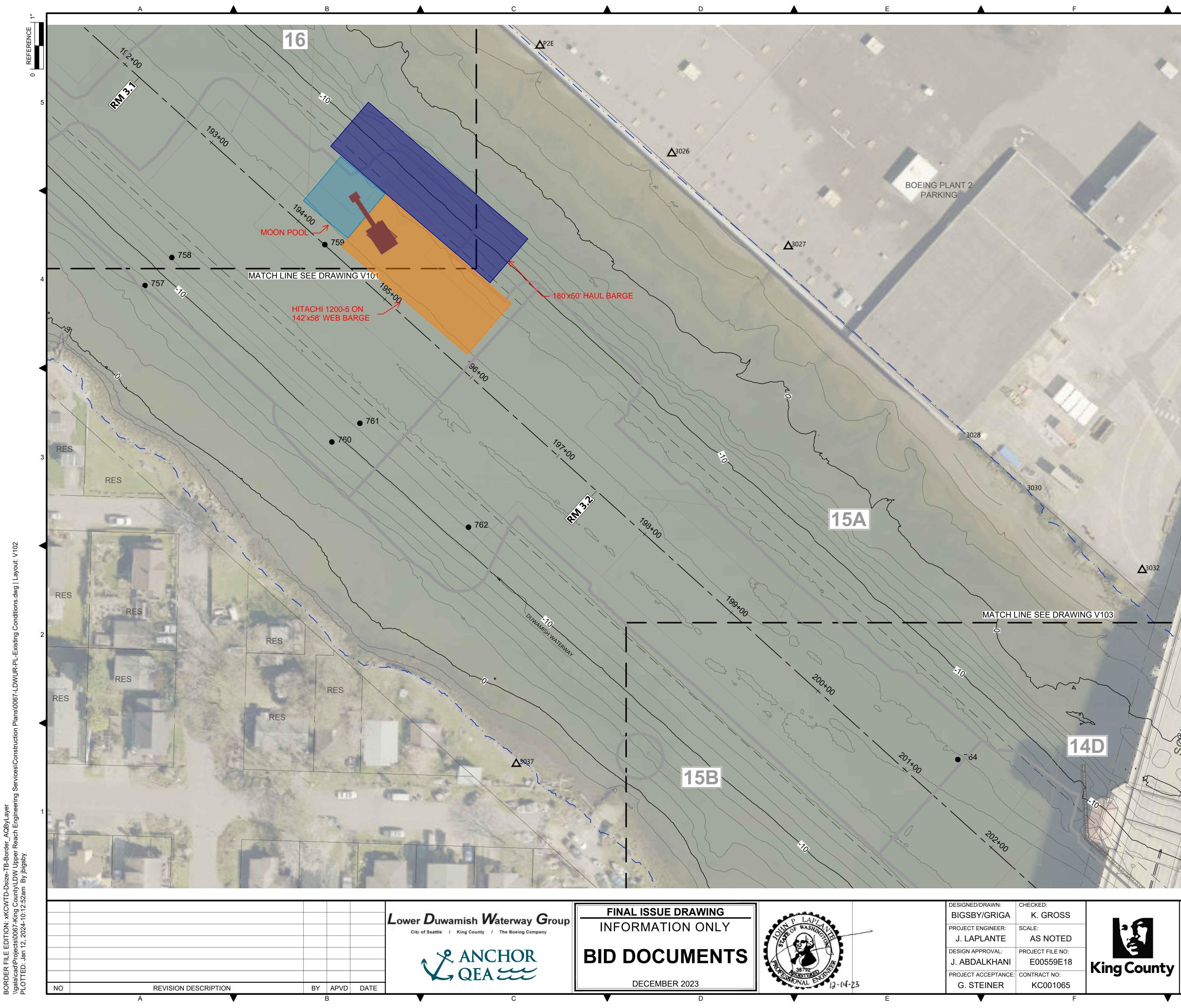
- 3. AERIAL SOURCE: KING COUNTY 2021
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DRAWING NO:

V101

SHT NO / TOTAL REV 7 91 NO: **0** 



# LEGEND:

250+00	USACE CHANNEL CENTERLINE AND STATIONING
	FEDERAL NAVIGATION CHANNEL
RM 3.0	RIVER MILE LABEL
	KING COUNTY PARCEL
·	LDW UPPER REACH APPROXIMATE BOUNDARY
	EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
Δ	OUTFALL LOCATION (ACTIVE) - LOCATION APPROXIMATE
	OUTFALL LOCATION (PRESUMED ABANDONED, INACTIVE, OR REMOVED) - LOCATION APPROXIMATE
•	VERTICAL DELINEATION CORE LOCATION
	SEDIMENT MANAGEMENT AREA BOUNDARY
14	SEDIMENT MANAGEMENT AREA NUMBER

#### NOTES:

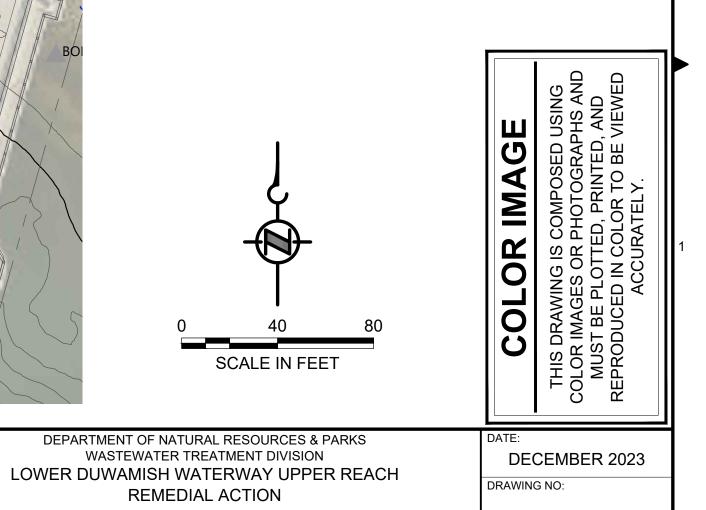
- 1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
- 2. VERTICAL DATUM: MLLW

**EXISTING CONDITIONS** 

(RM 3.09 TO 3.29)

G

- 3. AERIAL SOURCE: KING COUNTY 2021
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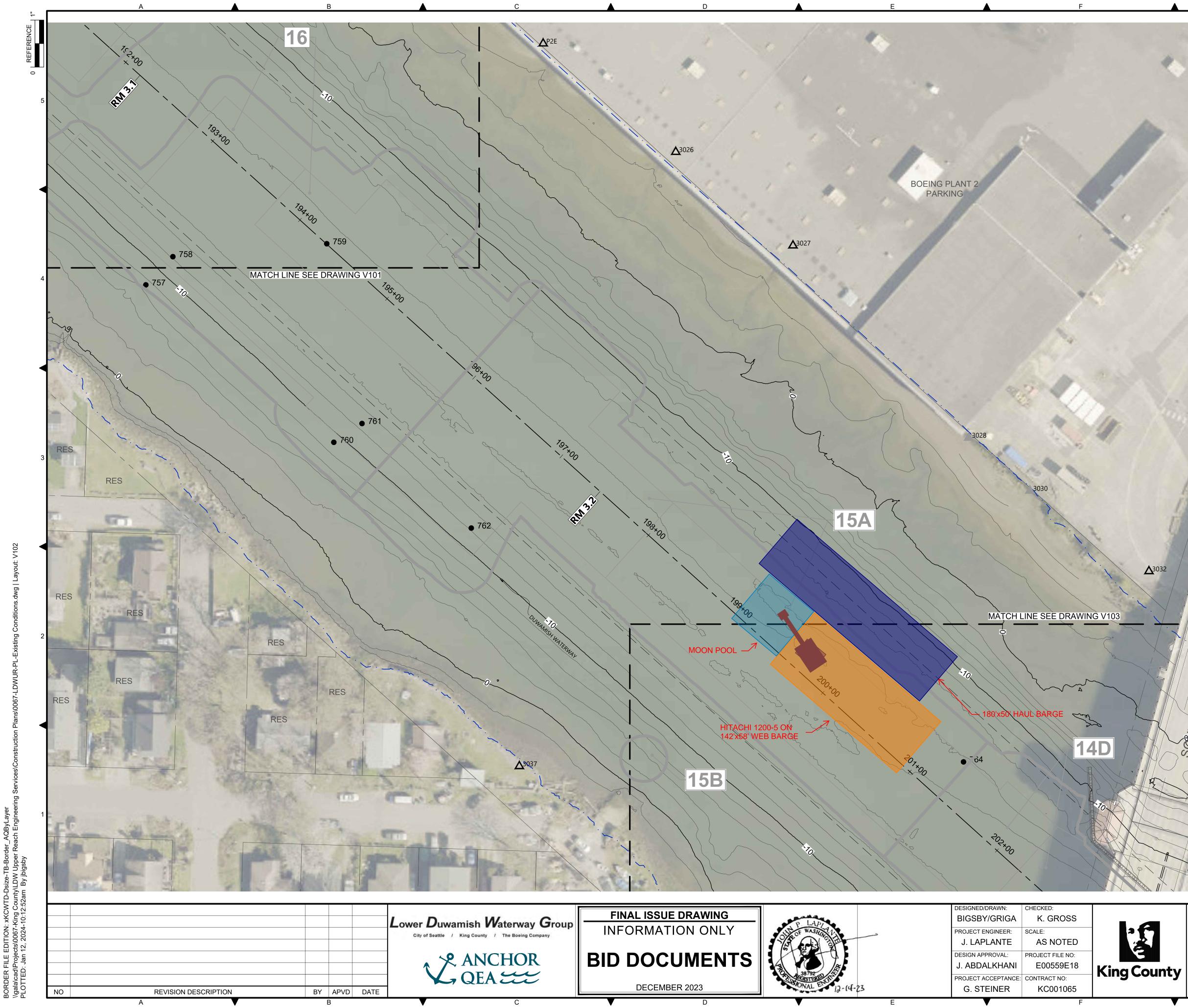


DRAWING NO:

V102

SHT NO / TOTAL REV NO: **0** 

PARK BRIDGE



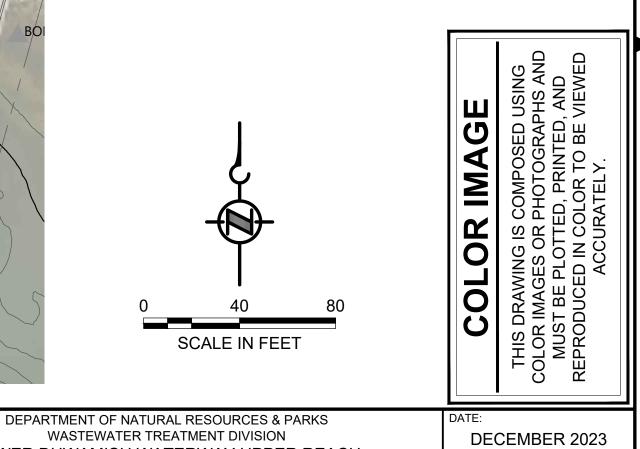
# LEGEND:

250+00	USACE CHANNEL CENTERLINE AND STATIONING
	FEDERAL NAVIGATION CHANNEL
RM 3.0	RIVER MILE LABEL
	KING COUNTY PARCEL
·	LDW UPPER REACH APPROXIMATE BOUNDARY
	EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
Δ	OUTFALL LOCATION (ACTIVE) - LOCATION APPROXIMATE
	OUTFALL LOCATION (PRESUMED ABANDONED, INACTIVE, OR REMOVED) - LOCATION APPROXIMATE
•	VERTICAL DELINEATION CORE LOCATION
	SEDIMENT MANAGEMENT AREA BOUNDARY
14	SEDIMENT MANAGEMENT AREA NUMBER

#### NOTES:

PARK BRIDGE

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LOWER DUWAMISH WATERWAY UPPER REACH REMEDIAL ACTION

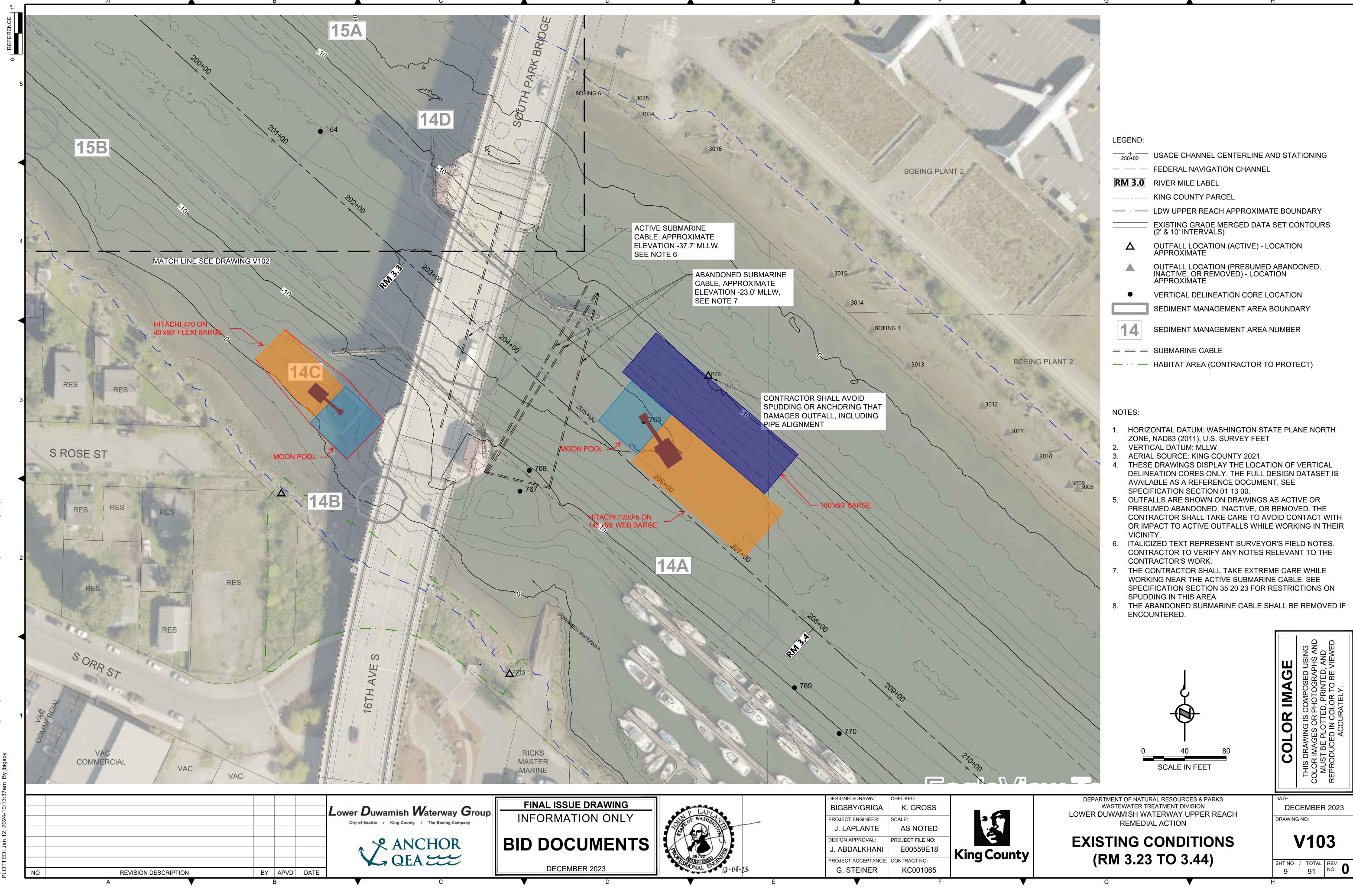
**EXISTING CONDITIONS** (RM 3.09 TO 3.29)

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V102

SHT NO / TOTAL REV 8 91 NO: **0** 

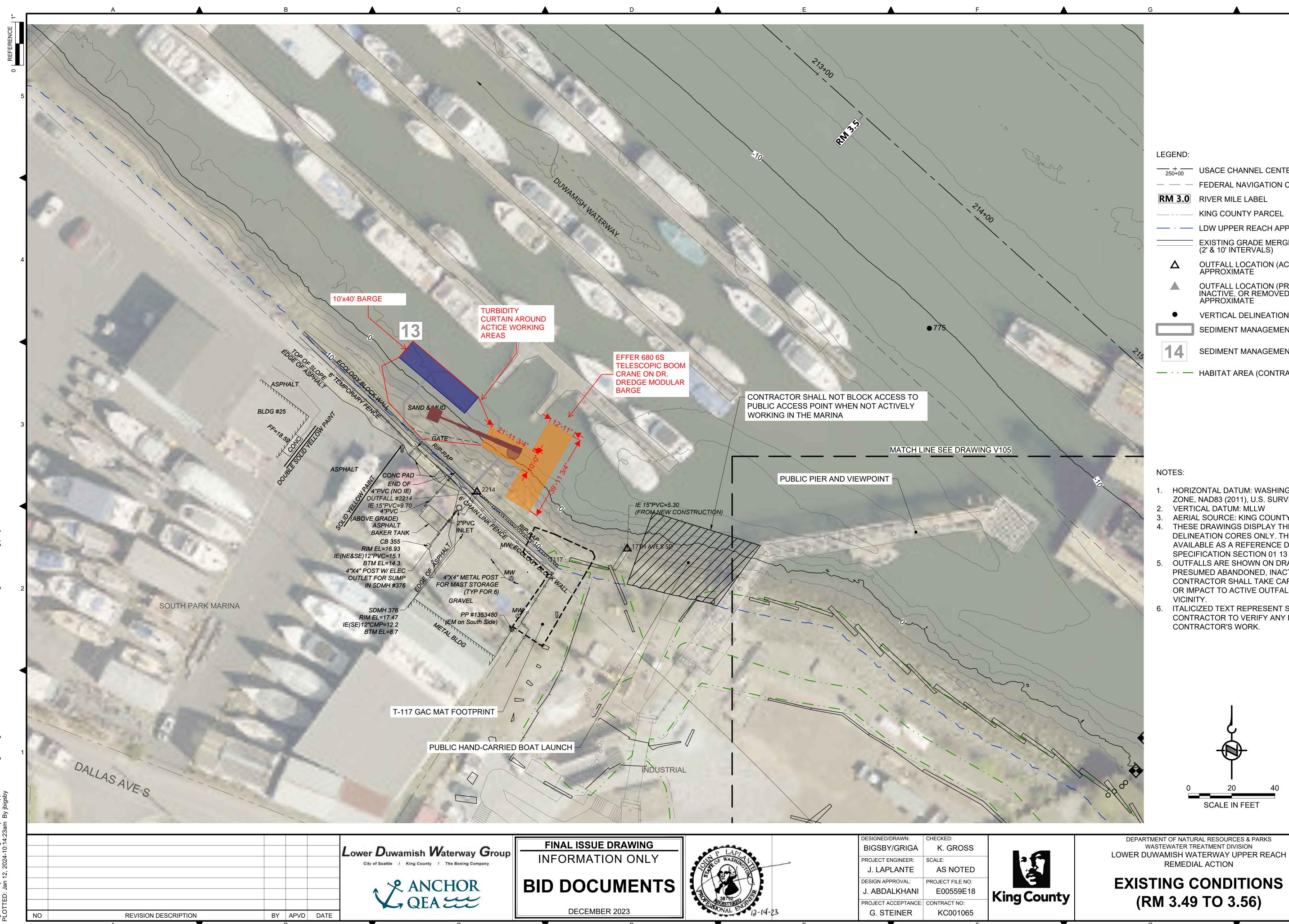
DRAWING NO:



BORDER FILE EDITION: xKCWTD-Dsize-TB-Boi \\gala\cad\Projects\0067-King County\LDW Uppe PLOTTED: Jan 12, 2024-10:13:37am By jbigsby

LEGEND:	
- i	
250+00	USACE CHANNEL CENTERLINE AND STATIONING
	FEDERAL NAVIGATION CHANNEL
RM 3.0	RIVER MILE LABEL
	KING COUNTY PARCEL
·	LDW UPPER REACH APPROXIMATE BOUNDARY
	EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
Δ	OUTFALL LOCATION (ACTIVE) - LOCATION APPROXIMATE
	OUTFALL LOCATION (PRESUMED ABANDONED, INACTIVE, OR REMOVED) - LOCATION APPROXIMATE
٠	VERTICAL DELINEATION CORE LOCATION
	SEDIMENT MANAGEMENT AREA BOUNDARY
14	SEDIMENT MANAGEMENT AREA NUMBER
	SUBMARINE CABLE
<u> </u>	HABITAT AREA (CONTRACTOR TO PROTECT)

- CONTRACTOR SHALL TAKE CARE TO AVOID CONTACT WITH OR IMPACT TO ACTIVE OUTFALLS WHILE WORKING IN THEIR



BORDER FILE EDITION: xKCWTD-Dsize-TB-Boi \\gala\cad\Projects\0067-King County\LDW Uppei PLOTTED: Jan 12, 2024-10:14:23am By jbigsby

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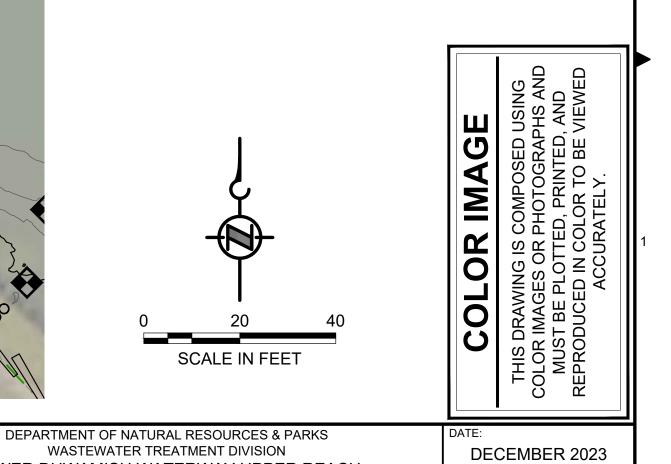
250+00	USACE CHANNEL CENTERLINE AND STATIONING
	FEDERAL NAVIGATION CHANNEL
RM 3.0	RIVER MILE LABEL
	KING COUNTY PARCEL
·	LDW UPPER REACH APPROXIMATE BOUNDARY
	EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
Δ	OUTFALL LOCATION (ACTIVE) - LOCATION APPROXIMATE
	OUTFALL LOCATION (PRESUMED ABANDONED, INACTIVE, OR REMOVED) - LOCATION APPROXIMATE
•	VERTICAL DELINEATION CORE LOCATION
	SEDIMENT MANAGEMENT AREA BOUNDARY
14	SEDIMENT MANAGEMENT AREA NUMBER
	HABITAT AREA (CONTRACTOR TO PROTECT)

## NOTES:

- 1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
- 2. VERTICAL DATUM: MLLW

REMEDIAL ACTION

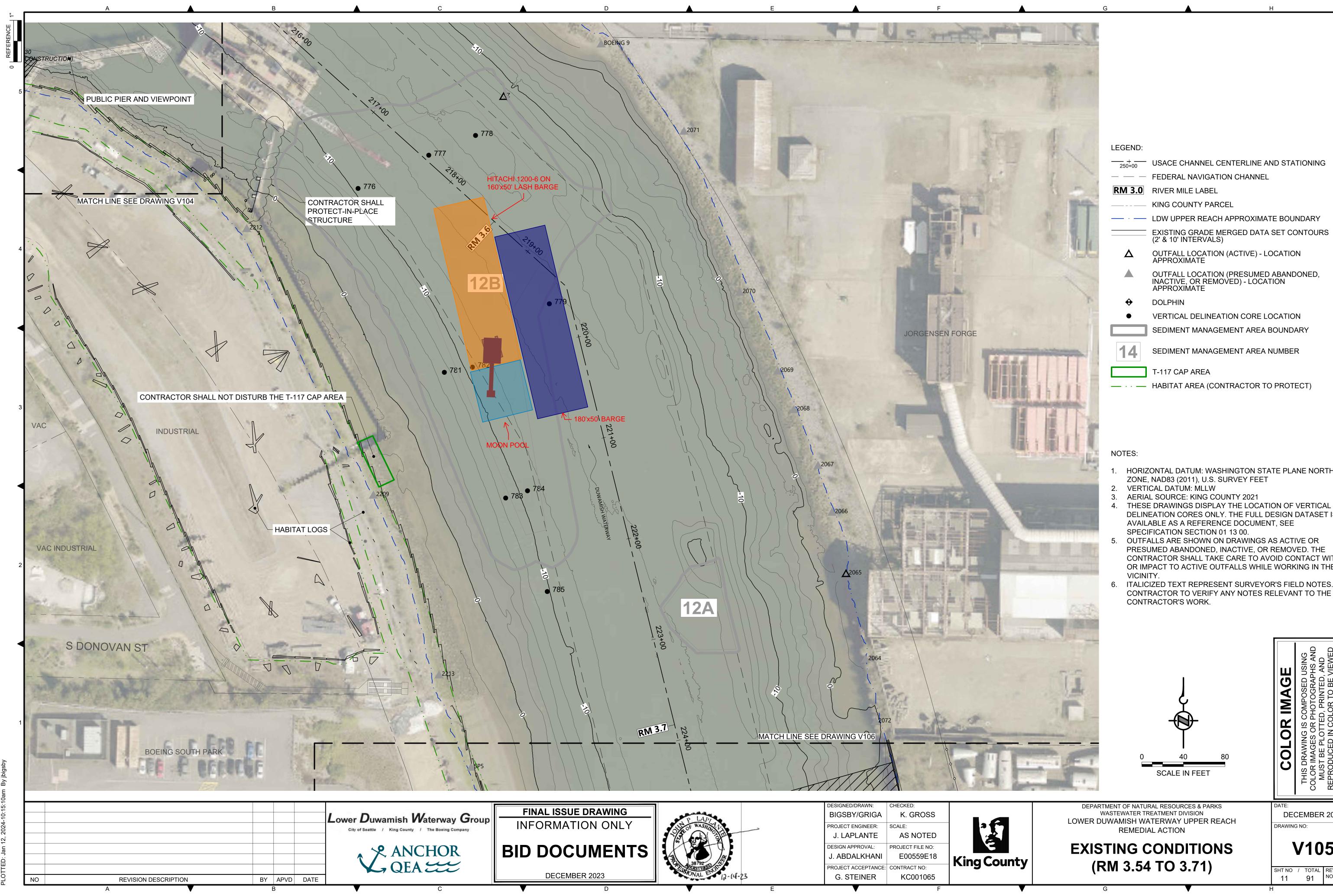
- 3. AERIAL SOURCE: KING COUNTY 2021
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DRAWING NO:

**V104** 

SHT NO / TOTAL REV 10 91 NO: **0** 

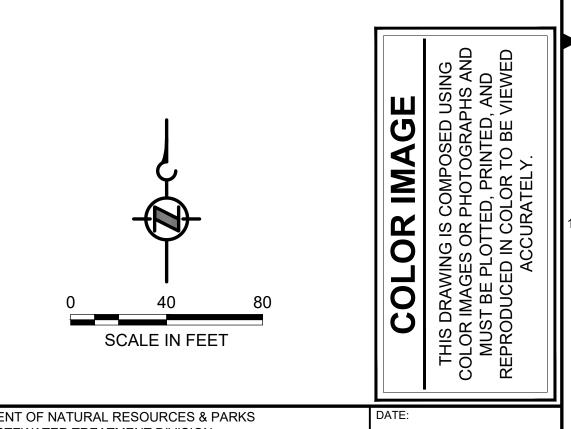


BORDER FILE EDITION: xKCWTD-Dsize-TB-Bor \\gala\cad\Projects\0067-King County\LDW Upper PLOTTED: Jan 12, 2024-10:15:10am By jbigsby

LEGEND:	
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	FEDERAL NAVIGATION CHANNEL
RM 3.0	RIVER MILE LABEL
	KING COUNTY PARCEL
·	LDW UPPER REACH APPROXIMATE BOUNDARY
	EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
Δ	OUTFALL LOCATION (ACTIVE) - LOCATION APPROXIMATE
	OUTFALL LOCATION (PRESUMED ABANDONED, INACTIVE, OR REMOVED) - LOCATION APPROXIMATE
�	DOLPHIN
•	VERTICAL DELINEATION CORE LOCATION
	SEDIMENT MANAGEMENT AREA BOUNDARY
14	SEDIMENT MANAGEMENT AREA NUMBER
	T-117 CAP AREA
	HABITAT AREA (CONTRACTOR TO PROTECT)

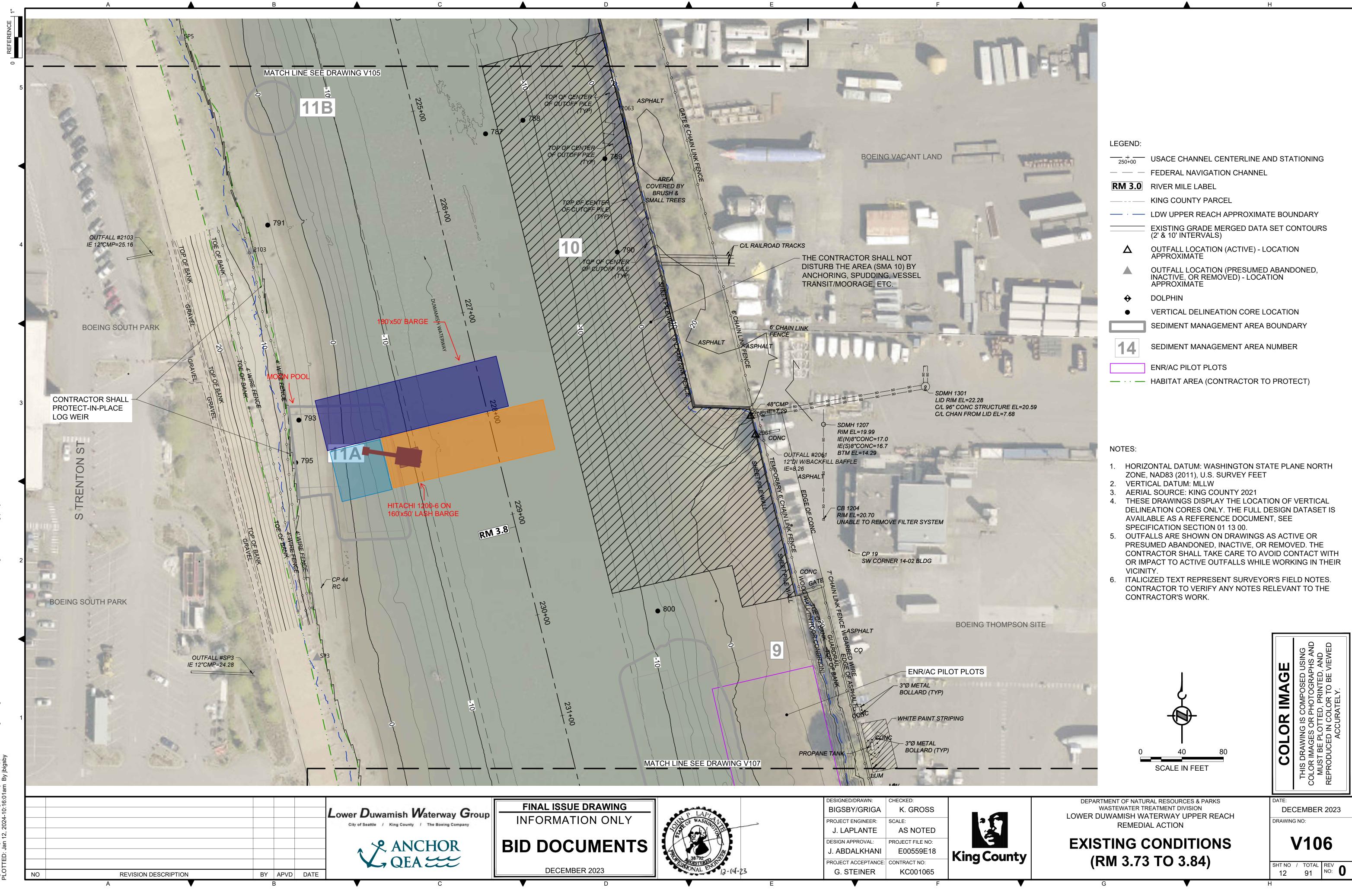
- 1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET

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DECEMBER 2023 DRAWING NO: V105

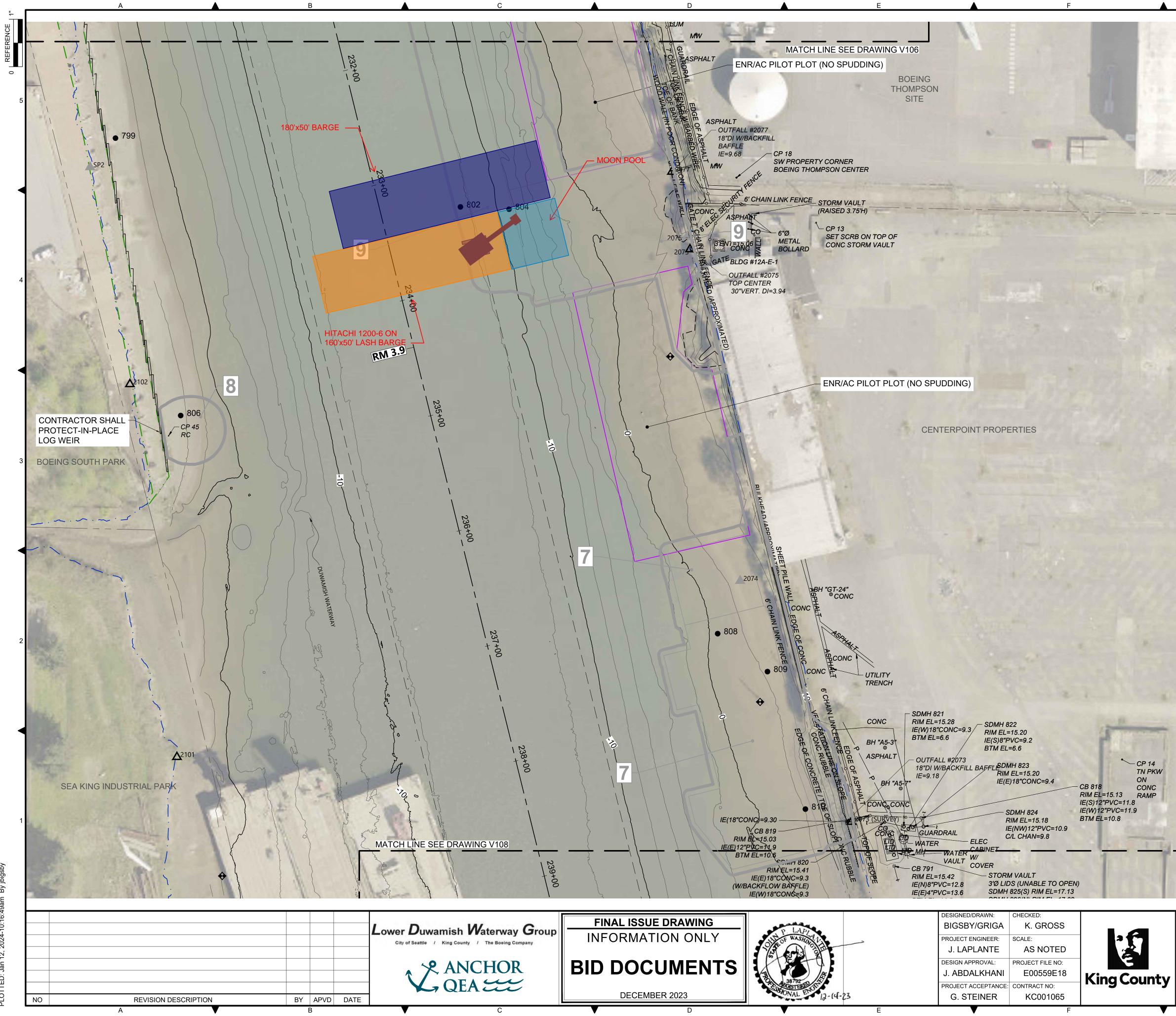
SHT NO / TOTAL REV 11 91 NO: **0** 



BORDER FILE EDITION: xKCWTD-Dsize-TB-Boi \\gala\cad\Projects\0067-King County\LDW Uppei PLOTTED: Jan 12, 2024-10:16:01am By jbigsby

EGEND:	
250+00	USACE CHANNEL CENTERLINE AND STATIONING
	FEDERAL NAVIGATION CHANNEL
RM 3.0	RIVER MILE LABEL
	KING COUNTY PARCEL
·	LDW UPPER REACH APPROXIMATE BOUNDARY
	EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
Δ	OUTFALL LOCATION (ACTIVE) - LOCATION APPROXIMATE
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�	DOLPHIN
•	VERTICAL DELINEATION CORE LOCATION
	SEDIMENT MANAGEMENT AREA BOUNDARY
14	SEDIMENT MANAGEMENT AREA NUMBER
	ENR/AC PILOT PLOTS
	HABITAT AREA (CONTRACTOR TO PROTECT)





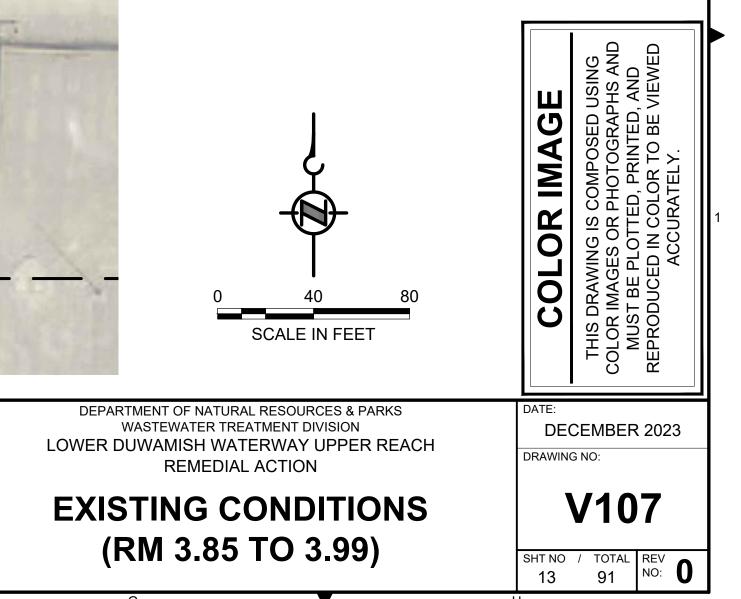
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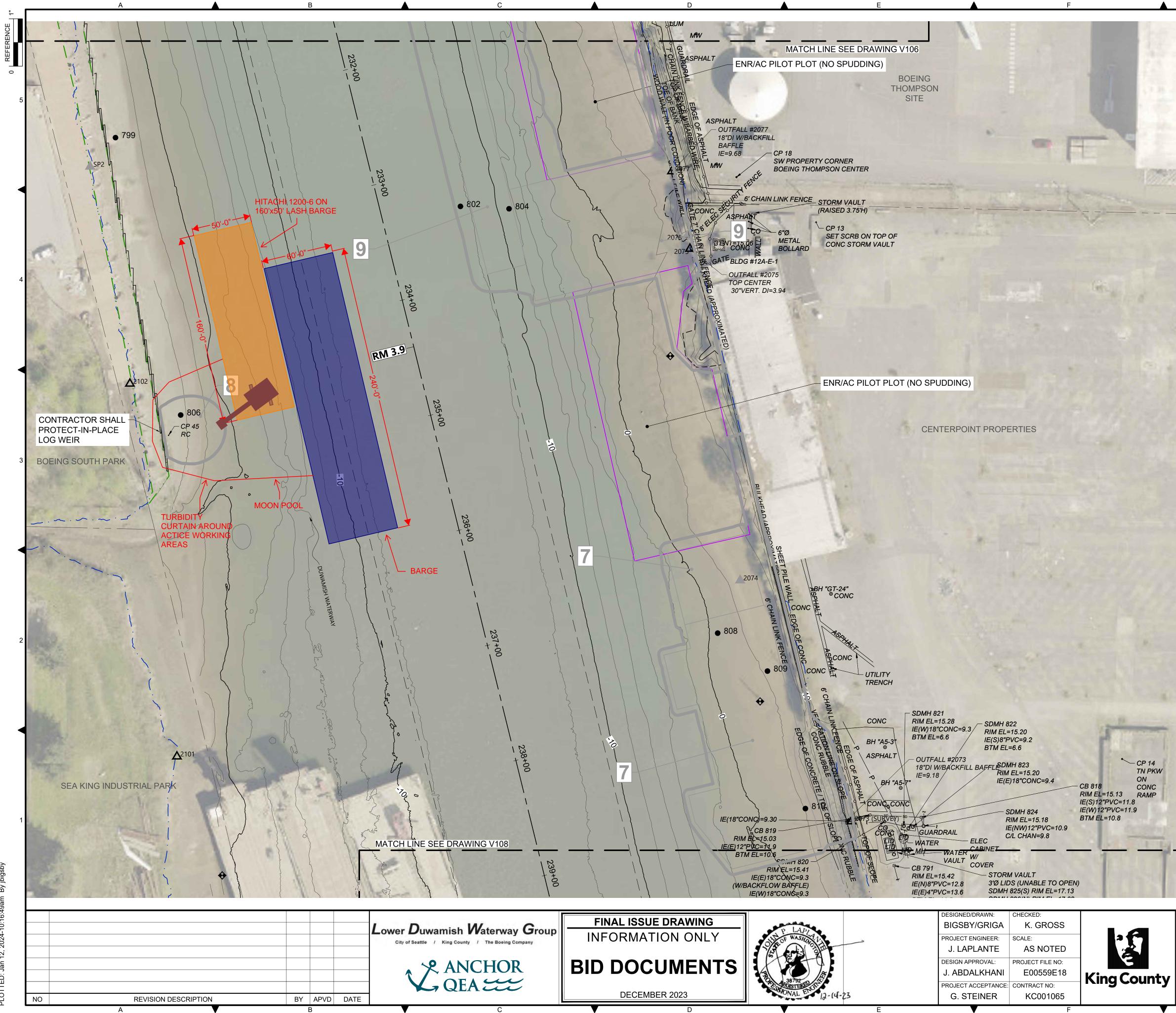


250+00	USACE CHANNEL CENTERLINE AND STATIONING
	FEDERAL NAVIGATION CHANNEL
RM 3.0	RIVER MILE LABEL
	KING COUNTY PARCEL
·	LDW UPPER REACH APPROXIMATE BOUNDARY
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•	VERTICAL DELINEATION CORE LOCATION
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### NOTES:

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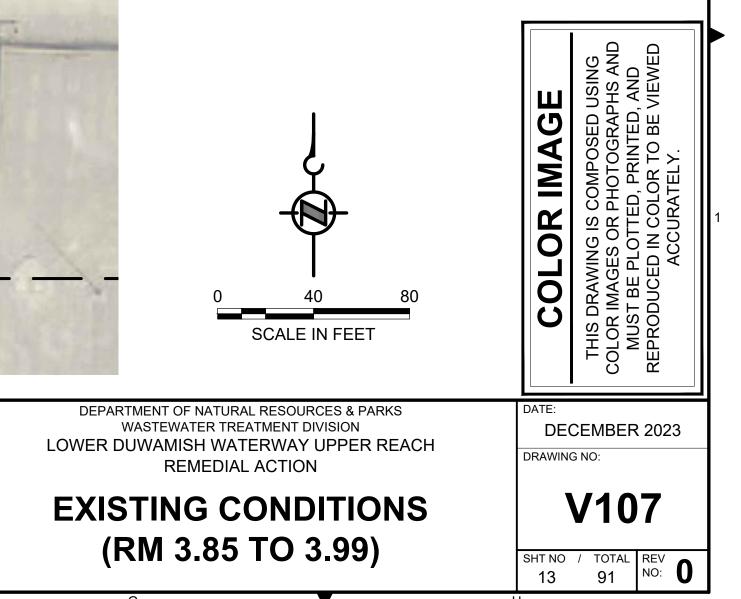
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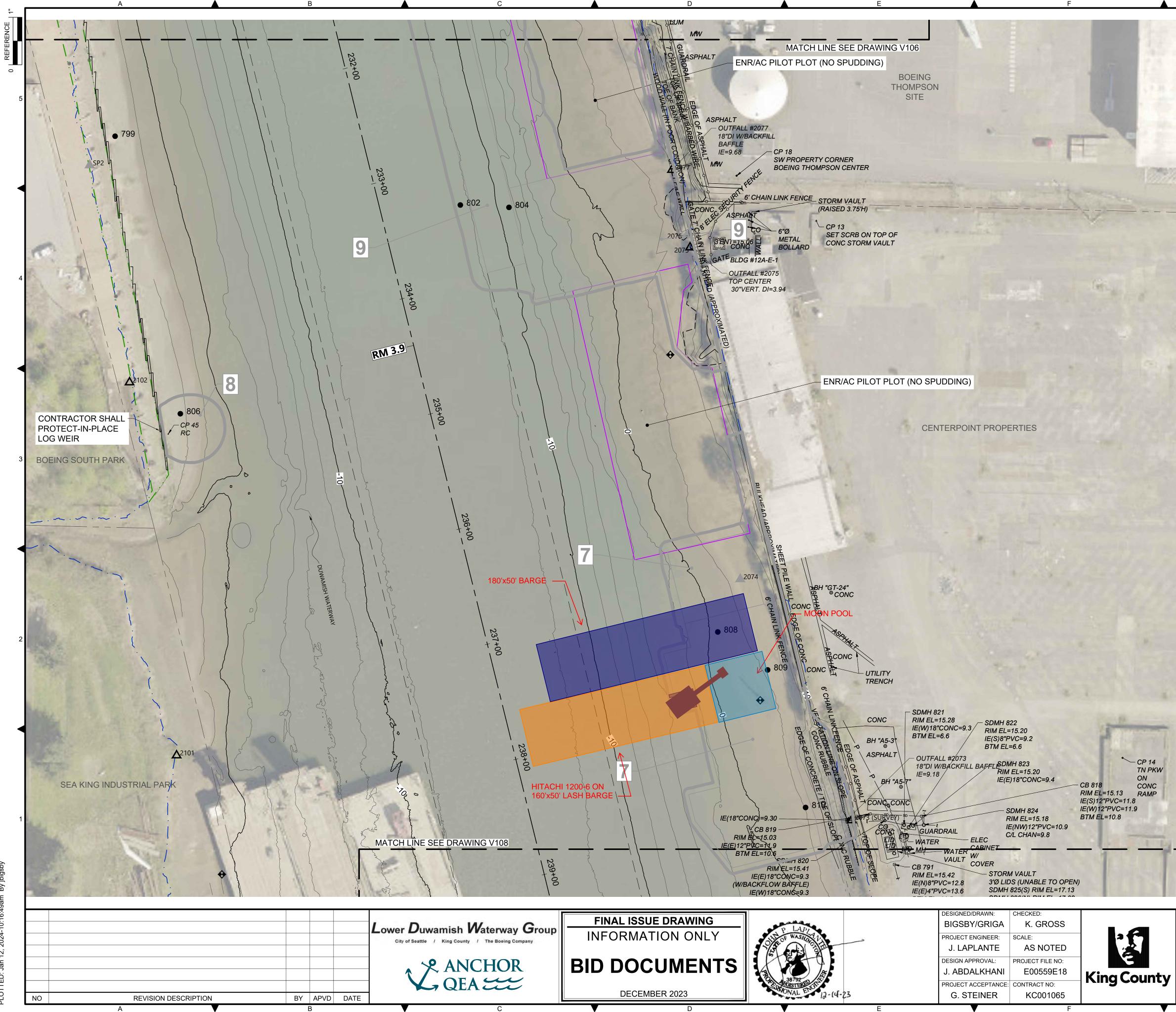


250+00	USACE CHANNEL CENTERLINE AND STATIONING
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RM 3.0	RIVER MILE LABEL
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	SEDIMENT MANAGEMENT AREA BOUNDARY
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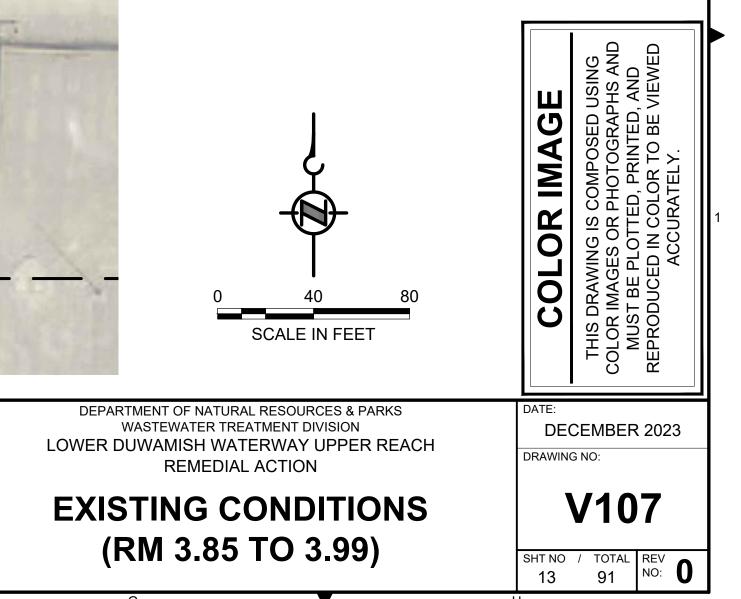
BORDER FILE EDITION: xKCWTD-Dsize-TB-Border\_AQByLayer \\gala\cad\Projects\0067-King County\LDW Upper Reach Engineering Services\Construction Plans\0067-LDWUR-PL-Existing Conditions.dwg | Layout: PLOTTED: Jan 12, 2024-10:16:49am By jbigsby

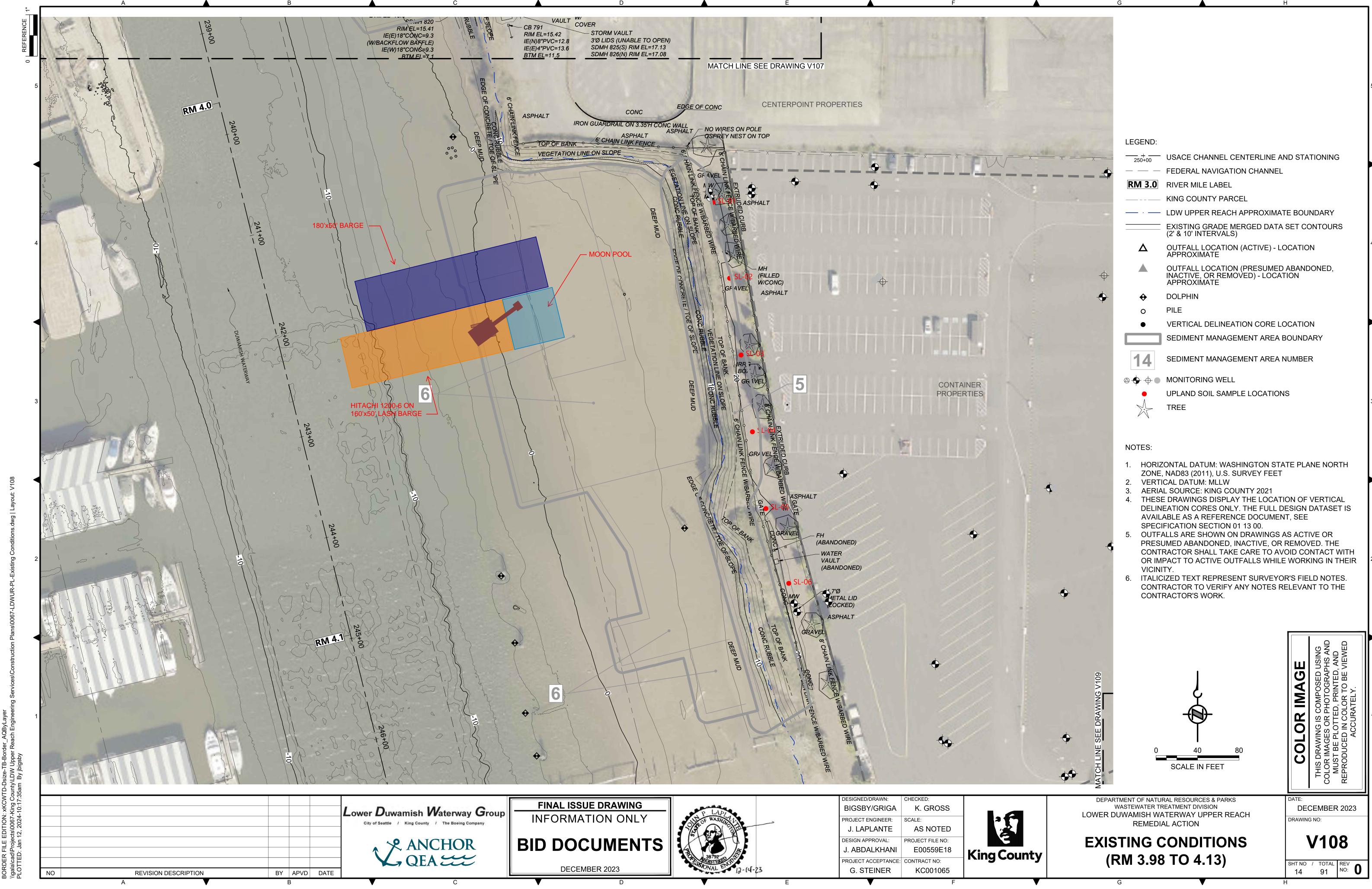


250+00	USACE CHANNEL CENTERLINE AND STATIONING
	FEDERAL NAVIGATION CHANNEL
RM 3.0	RIVER MILE LABEL
	KING COUNTY PARCEL
·	LDW UPPER REACH APPROXIMATE BOUNDARY
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<u> </u>	HABITAT AREA (CONTRACTOR TO PROTECT)

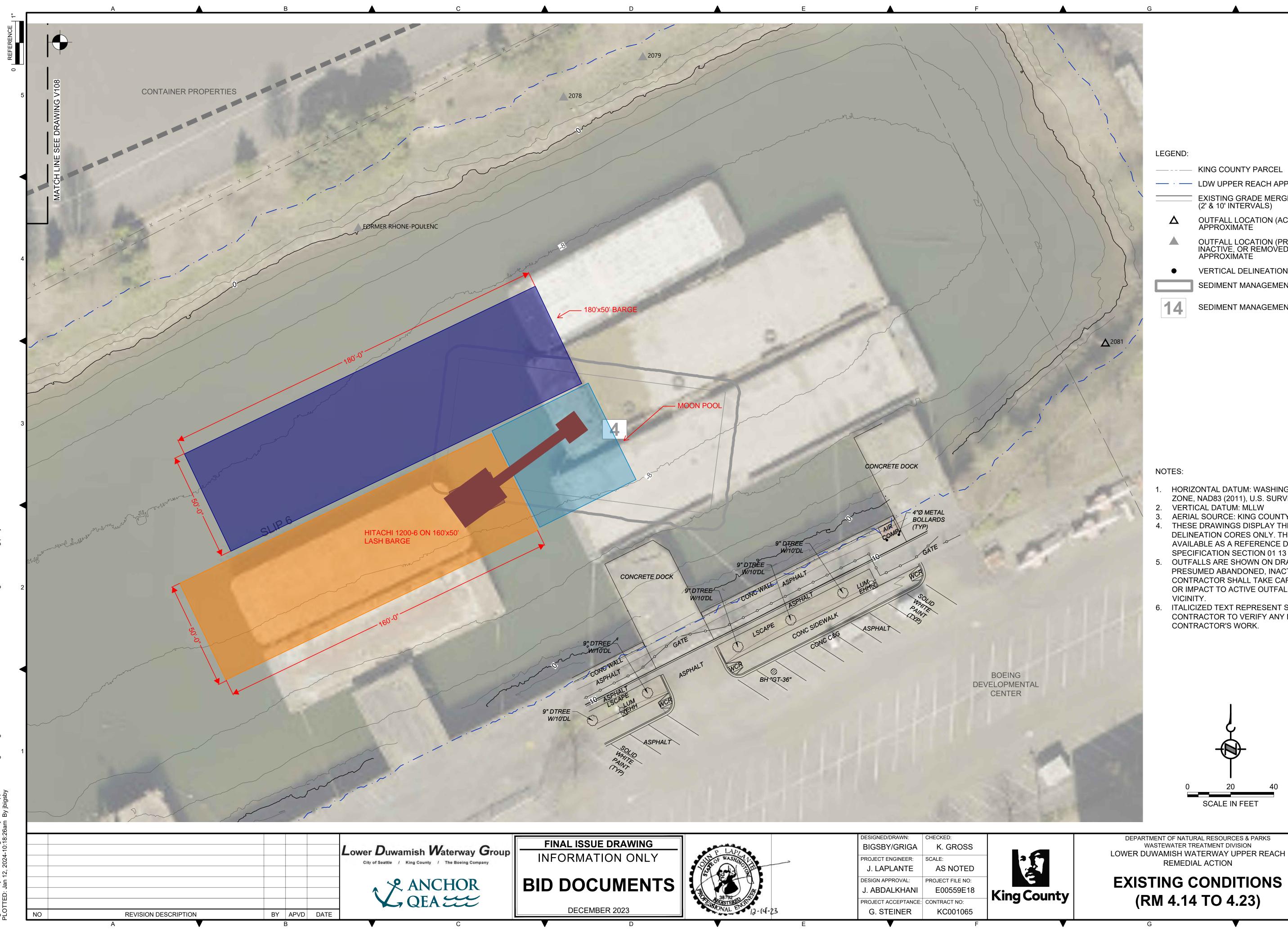
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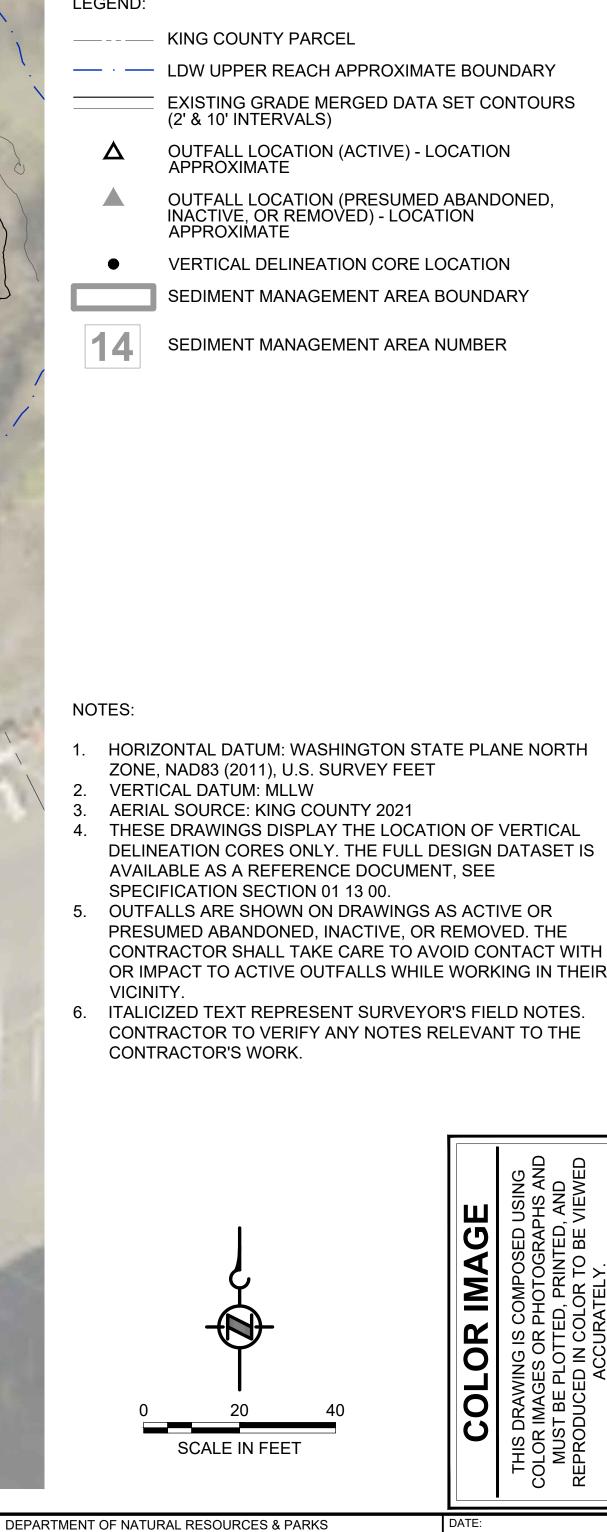




DESIGNED/DRAWN:	CHECKED:
BIGSBY/GRIGA	K. GROSS
PROJECT ENGINEER:	SCALE:
J. LAPLANTE	AS NOTED
DESIGN APPROVAL:	PROJECT FILE NO:
J. ABDALKHANI	E00559E18
PROJECT ACCEPTANCE:	CONTRACT NO:
G. STEINER	KC001065



BORDER FILE EDITION: xKCWTD-Dsize-TB-Bol \\gala\cad\Projects\0067-King County\LDW Uppel PLOTTED: Jan 12, 2024-10:18:26am By jbigsby



DECEMBER 2023

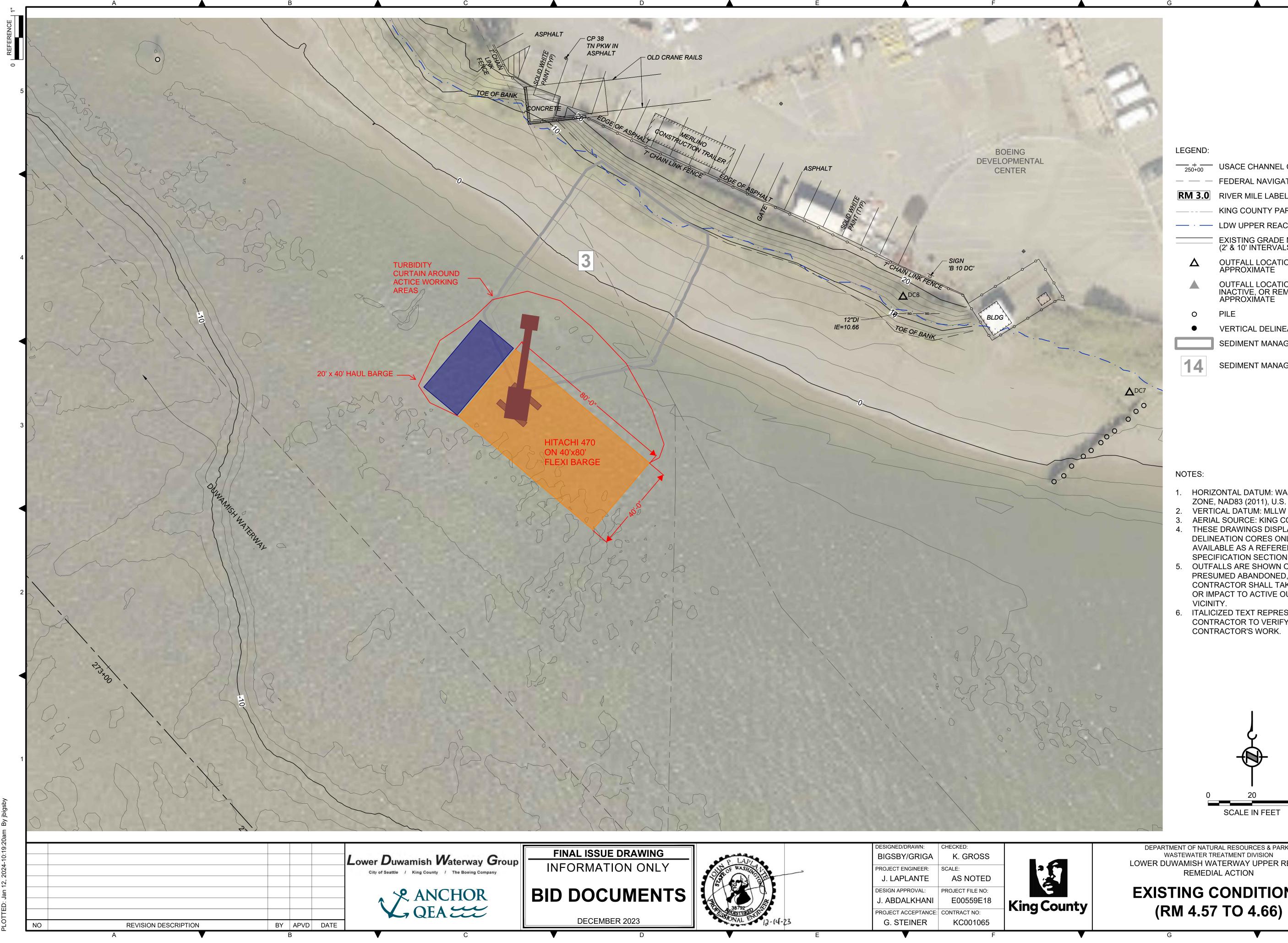
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SHT NO / TOTAL REV 15 91 NO: **0** 

DRAWING NO:

REMEDIAL ACTION

LEGEND:

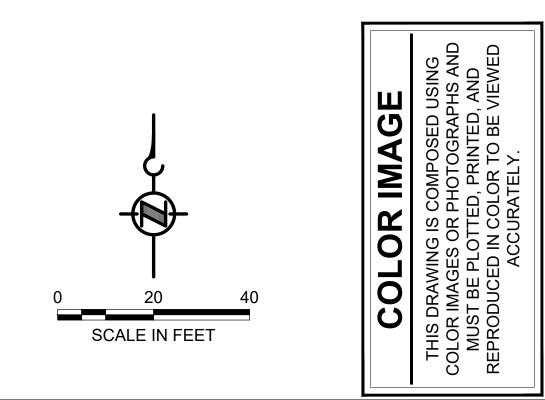


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LEGEND:	
250+00	USACE CHANNEL CENTERLINE AND STATIONING
	FEDERAL NAVIGATION CHANNEL
RM 3.0	RIVER MILE LABEL
	KING COUNTY PARCEL
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	EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
Δ	OUTFALL LOCATION (ACTIVE) - LOCATION APPROXIMATE
	OUTFALL LOCATION (PRESUMED ABANDONED, INACTIVE, OR REMOVED) - LOCATION APPROXIMATE
0	PILE
٠	VERTICAL DELINEATION CORE LOCATION
	SEDIMENT MANAGEMENT AREA BOUNDARY
14	SEDIMENT MANAGEMENT AREA NUMBER

## NOTES:

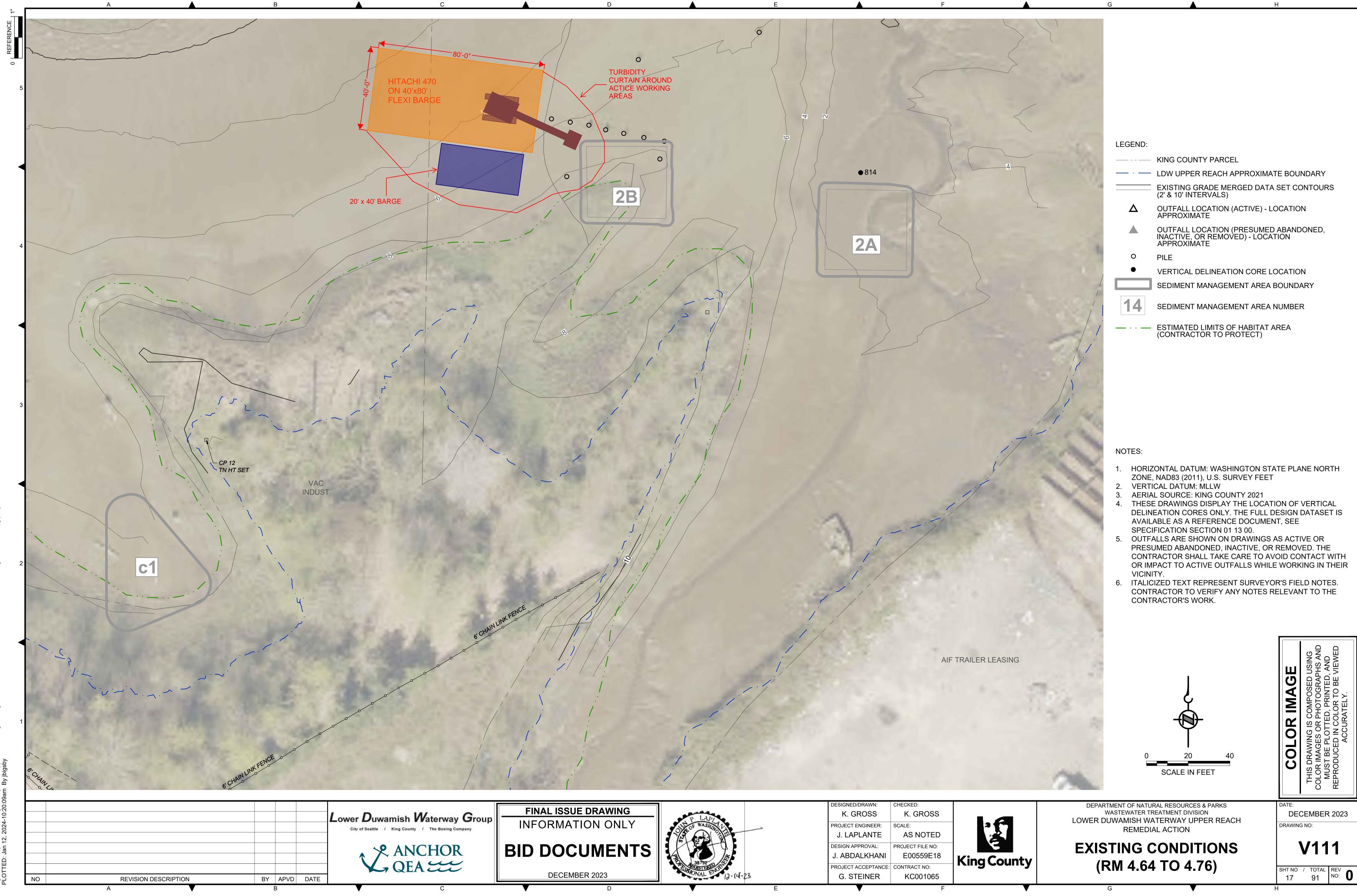
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DEPARTMENT OF NATURAL RESOURCES & PARKS DATE WASTEWATER TREATMENT DIVISION DECEMBER 2023 LOWER DUWAMISH WATERWAY UPPER REACH DRAWING NO: REMEDIAL ACTION V110 **EXISTING CONDITIONS** 

G

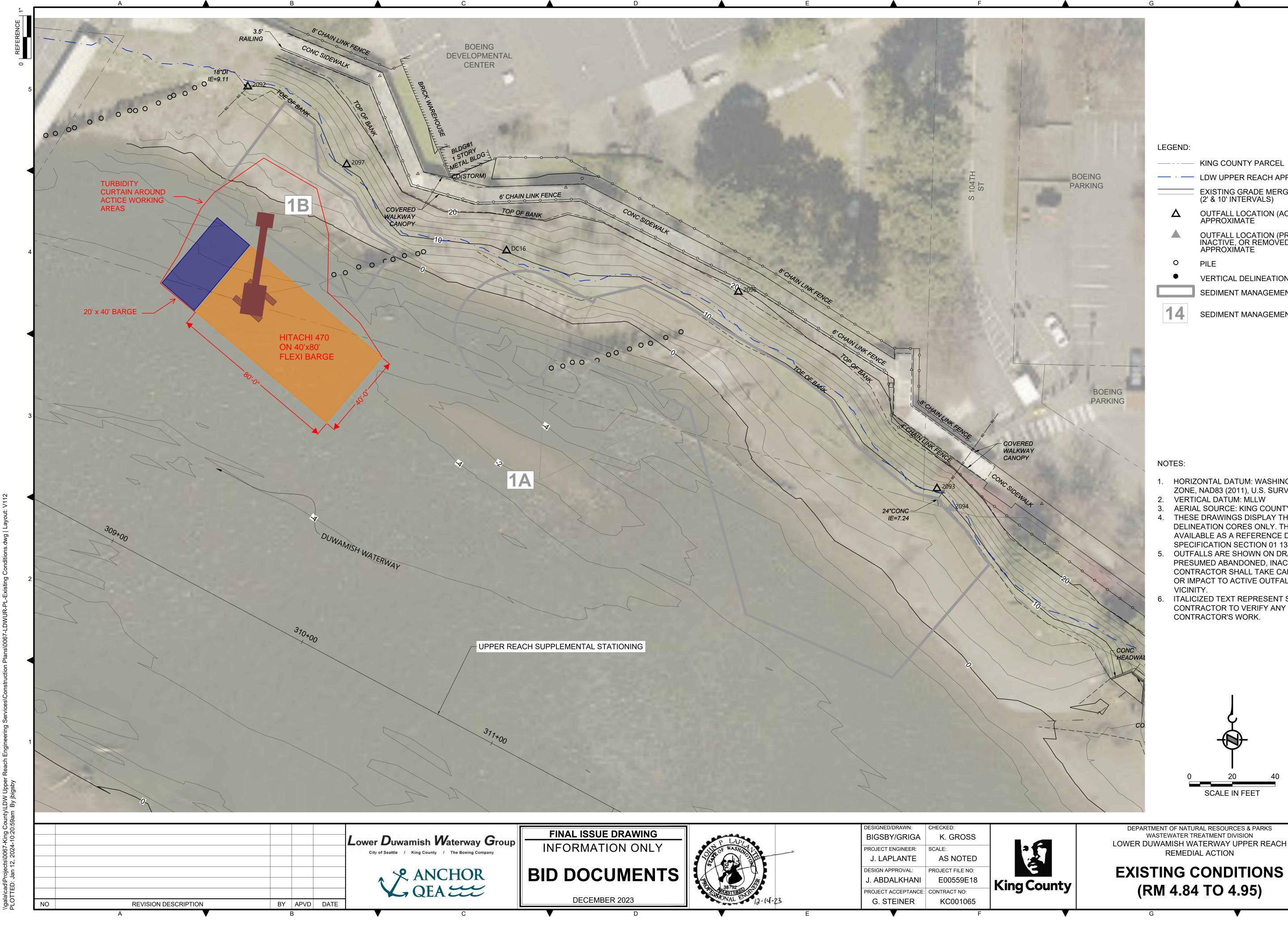
SHT NO / TOTAL REV 16 91 NO: **0** 



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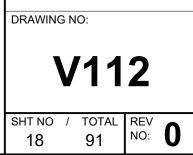
.EGEND:	
	KING COUNTY PARCEL
·	LDW UPPER REACH APPROXIMATE BOUNDARY
	EXISTING GRADE MERGED DATA SET CONTOURS (2' & 10' INTERVALS)
Δ	OUTFALL LOCATION (ACTIVE) - LOCATION APPROXIMATE
	OUTFALL LOCATION (PRESUMED ABANDONED, INACTIVE, OR REMOVED) - LOCATION APPROXIMATE
0	PILE
•	VERTICAL DELINEATION CORE LOCATION
	SEDIMENT MANAGEMENT AREA BOUNDARY
14	SEDIMENT MANAGEMENT AREA NUMBER
	ESTIMATED LIMITS OF HABITAT AREA (CONTRACTOR TO PROTECT)

- CONTRACTOR SHALL TAKE CARE TO AVOID CONTACT WITH OR IMPACT TO ACTIVE OUTFALLS WHILE WORKING IN THEIR



BORDER FILE EDITION: xKCWTD-Dsize-TB-Border \\gala\cad\Projects\0067-King County\LDW Upper Re PLOTTED: Jan 12, 2024-10:20:59am By jbigsby

LEGEND:			
	KING COUNTY PARCEL		
	- LDW UPPER REACH APPROXIN	IATE BOU	NDARY
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ZONE 2. VERT 3. AERI 4. THES DELIN AVAII SPEC 5. OUTF PRES CONT OR IN VICIN 6. ITALIO CONT	ZONTAL DATUM: WASHINGTON S E, NAD83 (2011), U.S. SURVEY FEI TICAL DATUM: MLLW AL SOURCE: KING COUNTY 2021 SE DRAWINGS DISPLAY THE LOC, NEATION CORES ONLY. THE FULL LABLE AS A REFERENCE DOCUM CIFICATION SECTION 01 13 00. FALLS ARE SHOWN ON DRAWING SUMED ABANDONED, INACTIVE, O FRACTOR SHALL TAKE CARE TO APACT TO ACTIVE OUTFALLS WH IITY. CIZED TEXT REPRESENT SURVE FRACTOR TO VERIFY ANY NOTES FRACTOR'S WORK.	ET ATION OF DESIGN ENT, SEE S AS ACT OR REMO AVOID CC ILE WORF	VERTICAL DATASET IS IVE OR /ED. THE NTACT WITH (ING IN THEIR LD NOTES.
	20 40 SCALE IN FEET	COLOR IMAGE	THIS DRAWING IS COMPOSED USING COLOR IMAGES OR PHOTOGRAPHS AND MUST BE PLOTTED, PRINTED, AND REPRODUCED IN COLOR TO BE VIEWED ACCURATELY.
	JRAL RESOURCES & PARKS REATMENT DIVISION	DATE:	CEMBER 2023
ER DUWAMISH W	ATERWAY UPPER REACH		
REMED	IAL ACTION		



LEGEND: