



INVITATION TO BID NO: 10-R-2220697

STATE OF ALABAMA
DEPARTMENT OF FINANCE
DIVISION OF PURCHASING

REQ. AGENCY : 004004
DEPT OF CONSERV & NATURAL RESOURCES
AGENCY REQ. NO. : 033371
T-NUMBER :
DATE ISSUED : 08/06/10
VENDOR NO. :
VENDOR PHONE NO. :
SNAP REQ. NO. : 1444750
BUYER NAME : SUSAN JANA

INVITATION TO BID

FOR: BARGE / DI BIOLOGICAL
(REVISED)

BUYER PHONE NO. : (334) 242-7173-
PURCHASING PHONE NO: (334) 242-7250

BID MUST BE RECEIVED BEFORE:
DATE: 08/17/10 TIME: 5:00 PM

BIDS WILL BE PUBLICLY OPENED:
DATE: 08/18/10 TIME: 10:00 AM

TO BE COMPLETED BY VENDOR

INFORMATION IN THIS SECTION SHOULD BE PROVIDED, AS APPROPRIATE. BID RESPONSE MUST BE IN INK OR TYPED WITH ORIGINAL SIGNATURE AND NOTARIZATION.

1. DELIVERY: CAN BE MADE _____ DAYS OR _____ WEEKS AFTER RECEIPT OF ORDER
2. TERMS: _____(DISCOUNTS ARE TAKEN WITHOUT REGARD TO DATE OF PAYMENT.)
3. PRICE VALID FOR ACCEPTANCE WITHIN _____ DAYS.
4. VENDOR QUOTATION REFERENCE NUMBER, IF ANY: _____
(THIS NUMBER WILL APPEAR ON THE PURCHASE ORDER.)
5. E-MAIL ADDRESS: _____
INTERNET WEBSITE: _____
6. GENERAL CONTRACTOR'S LICENSE NO: _____
TYPE OF G.C. LICENSE: _____

***** IMPORTANT NOTE: *****

BIDDERS MUST COMPLY WITH ALL "BID RESPONSE INSTRUCTIONS" ON PAGE 2, TO INCLUDE ITEM 6 - COPY REQUIREMENT.

RETURN INVITATION TO BID:

US MAIL

COURIER

STATE OF ALABAMA
DEPARTMENT OF FINANCE
DIVISION OF PURCHASING
P O BOX 302620
MONTGOMERY, AL 36130-2620

STATE OF ALABAMA
DIVISION OF PURCHASING
RSA UNION BUILDING
100 N. UNION ST., SUITE 192
MONTGOMERY, AL 36104

SIGNATURE AND NOTARIZATION REQUIRED

I HAVE READ THE ENTIRE BID AND AGREE TO FURNISH EACH ITEM OFFERED AT THE PRICE QUOTED. I HERBY AFFIRM I HAVE NOT BEEN IN ANY AGREEMENT OR COLLUSION AMONG BIDDERS IN RESTRAINT OF FREEDOM OF COMPETITION BY AGREEMENT TO BID AT A FIXED PRICE OR TO REFRAIN FROM BIDDING.

SWORN TO AND

FEIN OR SSN

AUTHORIZED SIGNATURE (INK)

SUBSCRIBED BEFORE ME THIS

COMPANY NAME

TYPE/PRINT AUTHORIZED NAME

_____ DAY OF _____

MAIL ADDRESS

TITLE

NOTARY PUBLIC

CITY, STATE, ZIP

TOLL FREE NUMBER

TERM EXP: _____

PHONE INCLUDING AREA CODE

FAX NUMBER

STANDARD TERMS & CONDITIONS

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AUTHORITY:

THE DEPARTMENT OF FINANCE CODE OF ADMINISTRATIVE PROCEDURE, CHAPTER 355-4-1 EFFECTIVE DECEMBER 20, 2001 IS INCORPORATED BY REFERENCE AND MADE A PART OF THIS DOCUMENT. TO RECEIVE A COPY CALL (334)242-7250, OR OUR WEBSITE WWW.PURCHASING.ALABAMA.GOV .

INFORMATION AND ASSISTANCE TO MINORITY AND WOMEN-OWNED BUSINESSES IN ACQUIRING M/WBE CERTIFICATION MAY BE OBTAINED FROM THE OFFICE OF MINORITY BUSINESS ENTERPRISE, 1-800-447-4191.

BID (ITB) RESPONSE INSTRUCTIONS

REV: 07/15/10

1. TO SUBMIT A RESPONSIVE BID, READ THESE INSTRUCTIONS, ALL TERMS, CONDITIONS AND SPECIFICATIONS.
2. BID ENVELOPES/PACKAGES/BOXES MUST BE IDENTIFIED ON FRONT, PREFERABLY LOWER LEFT CORNER AND BE VISIBLE WITH THE BID NUMBER AND OPENING DATE. EACH INDIVIDUAL BID (IDENTIFIED BY A UNIQUE BID NUMBER) MUST BE SUBMITTED IN A SEPARATE ENVELOPE. RESPONSES TO MULTIPLE BID NUMBERS SUBMITTED IN THE SAME ENVELOPE/COURIER PACKAGE, THAT ARE NOT IN SEPARATE ENVELOPES PROPERLY IDENTIFIED, WILL BE REJECTED. THE DIVISION OF PURCHASING DOES NOT ASSUME RESPONSIBILITY FOR LATE BIDS FOR ANY REASON INCLUDING THOSE DUE TO POSTAL, OR COURIER SERVICE. BID RESPONSES MUST BE IN THE DIVISION OF PURCHASING OFFICE PRIOR TO THE "RECEIVE DATE AND TIME" INDICATED ON THE BID.
3. BID RESPONSES (PAGE 1, PRICE SHEET AND ADDENDUMS (WHEN SIGNATURE IS REQUIRED)) MUST BE IN INK OR TYPED ON THIS DOCUMENT. OR EXACT FORMAT WITH SIGNATURES BEING HANDWRITTEN ORIGINALS IN INK (PERSON SIGNING BID, NOTARY, AND NOTARY EXPIRATION), OR THE BID WILL BE REJECTED. UNLESS INDICATED IN THE BID, ALL PRICE PAGES MUST BE COMPLETED AND RETURNED. IF AN ITEM IS NOT BEING BID, IDENTIFY IT AS NB (NO-BID). PAGES SHOULD BE SECURED. THE DIVISION OF PURCHASING DOES NOT ASSUME RESPONSIBILITY FOR MISSING PAGES. FAXED BID RESPONSES WILL NOT BE ACCEPTED.
4. THE UNIT PRICE ALWAYS GOVERNS REGARDLESS OF THE EXTENDED AMOUNT. A UNIT PRICE CHANGE ON A LINE MUST BE INITIALED BY THE PERSON SIGNING THE BID, OR THAT LINE WILL BE REJECTED. THIS INCLUDES A CROSS-OUT, STRIKE-OVER, INK-OVER, WHITE-OUT, ERASURE, OR ANY OTHER METHOD CHANGING THE PRICE.
5. THE DIVISION OF PURCHASING IS NOT RESPONSIBLE FOR MISINTERPRETATION OF DATA FAXED FROM THIS OFFICE.
6. THE DIVISION OF PURCHASING REQUIRES AN ORIGINAL AND A MINIMUM OF ONE COMPLETE EXACT COPY (TO INCLUDE SIGNATURE AND NOTARY) OF THE INVITATION-TO-BID RESPONSE. THE ORIGINAL AND THE COPY SHOULD BE SUBMITTED TOGETHER AS A BID PACKAGE. FAILURE TO MARK RESPONSES AS "ORIGINAL" AND/OR "COPY" COULD RESULT IN THE ENTIRE BID RESPONSE BEING REJECTED.
7. AN IMPROPERLY SUBMITTED BID, LATE BID, OR BID THAT IS CANCELLED ON OR BEFORE THE OPENING DATE WILL BE HELD FOR 90 DAYS AND THEN DESTROYED. THE BID MUST BE RETRIEVED DURING REGULAR WORK HOURS, MONDAY - FRIDAY, EXCEPT STATE HOLIDAYS. AFTER THE BID IS DESTROYED, THE DIVISION OF PURCHASING ASSUMES NO RESPONSIBILITY FOR THE DOCUMENT.

DISQUALIFIED/CANCELLED BID

BIDS THAT ARE IMPROPERLY SUBMITTED OR RECEIVED LATE WILL BE A RESPONSE FOR RECORD, BUT WILL NOT BE RETURNED OR A NOTIFICATION MAILED.

THE FOLLOWING IS A PARTIAL LIST WHEREBY A BID RESPONSE WILL BE DISQUALIFIED:

- BID NUMBER NOT ON FACE OF ENVELOPE/COURIER PACKAGE/BOX
- RESPONSES TO MULTIPLE BID NUMBERS IN SAME ENVELOPE NOT PROPERLY IDENTIFIED
- BID RECEIVED LATE
- BID NOT SIGNED/NOT ORIGINAL SIGNATURE
- BID NOT NOTARIZED/NOT ORIGINAL SIGNATURE OF NOTARY AND/OR NO NOTARY EXPIRATION
- NOTARIZED OWN SIGNATURE
- REQUIRED INFORMATION NOT SUBMITTED WITH BID
- FAILURE TO SUBMIT THE ORIGINAL BID AND A COMPLETE EXACT COPY

CERTIFICATION PURSUANT TO ACT NO. 2006-557

ALABAMA LAW (SECTION 41-4-116, CODE OF ALABAMA 1975) PROVIDES THAT EVERY BID SUBMITTED AND CONTRACT EXECUTED SHALL CONTAIN A CERTIFICATION THAT THE VENDOR, CONTRACTOR, AND ALL OF ITS AFFILIATES THAT MAKE SALES FOR DELIVERY INTO ALABAMA OR LEASES FOR USE IN ALABAMA ARE REGISTERED, COLLECTING, AND REMITTING ALABAMA STATE AND LOCAL SALES, USE, AND/OR LEASE TAX ON ALL TAXABLE SALES AND LEASES INTO ALABAMA. BY SUBMITTING THIS BID, THE BIDDER IS HEARBY CERTIFYING THAT THEY ARE IN FULL COMPLIANCE WITH ACT NO. 2006-557, THEY ARE NOT BARRED FROM BIDDING OR ENTERING INTO A CONTRACT PURSUANT TO 41-4-116, AND ACKNOWLEDGES THAT THE AWARDING AUTHORITY MAY DECLARE THE CONTRACT VOID IF THE CERTIFICATION IS FALSE.

SPECIAL TERMS & CONDITIONS

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VENDOR REGISTRATION AND FEE PAYMENT ONLINE

EFFECTIVE SEPTEMBER 1, 2010, VENDORS MUST REGISTER ONLINE TO RECEIVE NOTIFICATION OF BIDS. GO TO WWW.PURCHASING.ALABAMA.GOV TO REGISTER. BIDS WILL NOT BE ACCEPTED FROM NON-REGISTERED VENDORS. A VENDOR'S REGISTRATION MUST BE MAINTAINED THROUGHOUT THE LIFE CYCLE OF AN AWARDED CONTRACT, TO INCLUDE RENEWAL PERIODS. AT THE TIME OF REGISTRATION, VENDOR MUST PAY A BIENNIAL REGISTRATION FEE. PAYMENT MUST BE MADE BY CREDIT CARD, DEBIT CARD, OR BY ELECTRONIC CHECK.

INTENT TO AWARD

EFFECTIVE MAY 1, 2008, THE STATE OF ALABAMA - DIVISION OF PURCHASING WILL ISSUE AN 'INTENT TO AWARD' BEFORE A FINAL AWARD IS MADE. THE 'INTENT TO AWARD' WILL CONTINUE FOR A PERIOD OF FIVE (5) CALENDAR DAYS, AFTER WHICH A PURCHASE ORDER WILL BE PRODUCED. UPON FINAL AWARD, ALL RIGHTS TO PROTEST ARE FORFEITED. A DETAILED EXPLANATION OF THIS PROCESS MAY BE REVIEWED IN THE ALABAMA ADMINISTRATIVE CODE - CHAPTER 355-4-1(14).

ALTERNATE BID RESPONSE

UNLESS STATED ELSEWHERE IN THIS INVITATION-TO-BID (ITB) THE STATE OF ALABAMA WILL ACCEPT AND EVALUATE ALTERNATE BID SUBMITTALS ON ANY ITB'S. ALTERNATE BID RESPONSES WILL BE EVALUATED ACCORDING TO THE REQUIREMENTS AS ALL OTHER RESPONSES TO THIS ITB.

INTERNET WEBSITE LINK'S

INTERNET AND/OR WEBSITE LINKS WILL NOT BE ACCEPTED IN BID RESPONSES AS A MEANS TO SUPPLY ANY REQUIREMENTS STATED IN THIS ITB (INVITATION-TO-BID).

PRODUCT DELIVERY, RECEIVING AND ACCEPTANCE

IN ACCORDANCE WITH THE UNIVERSAL COMMERCE CODE (CODE OF ALABAMA, TITLE 7), AFTER DELIVERY, THE STATE OF ALABAMA HAS THE RIGHT TO INSPECT ALL PRODUCTS BEFORE ACCEPTING. THE STATE WILL INSPECT PRODUCTS IN A REASONABLE TIMEFRAME. SIGNATURE ON A DELIVERY DOCUMENT DOES NOT CONSTITUTE ACCEPTANCE BY THE STATE. THE STATE WILL ACCEPT PRODUCTS ONLY AFTER SATISFACTORY INSPECTION.

SALES TAX EXEMPTION

PURSUANT TO THE CODE OF ALABAMA, 1975, TITLE 40-23-4 (A) (11), THE STATE OF ALABAMA IS EXEMPT FROM PAYING SALES TAX. AN EXEMPTION LETTER WILL BE FURNISHED UPON REQUEST.

INVOICES

INQUIRIES CONCERNING PAYMENT AFTER INVOICES HAVE BEEN SUBMITTED ARE TO BE DIRECTED TO THE RECEIVING AGENCY, NOT THE DIVISION OF PURCHASING

BID RESPONSES AND BID RESULTS

UNEVALUATED BID RESPONSES (NOT BID RESULTS) ARE AVAILABLE ON OUR WEB SITE AT WWW.PURCHASING.ALABAMA.GOV. BID RESULTS WILL BE MADE AVAILABLE FOR REVIEW IN THE DIVISION OF PURCHASING OFFICE, BUT ONLY AFTER THE BID HAS BEEN AWARDED. WE DO NOT FAX OR MAIL COPIES OF BID RESULTS. IF A VENDOR WISHES TO REVIEW BID RESULTS IN OUR OFFICE, THEY SHOULD FAX THEIR REQUEST TO REVIEW THE BID TWO DAYS IN ADVANCE TO THE "BID REVIEW CLERK" AT (334) 242-4419. BE SURE TO REFERENCE THE BID NUMBER.

FOREIGN CORPORATION - CERTIFICATE OF AUTHORITY

ALABAMA LAW PROVIDES THAT A FOREIGN CORPORATION (AN OUT-OF-STATE

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COMPANY/FIRM) MAY NOT TRANSACT BUSINESS IN THE STATE OF ALABAMA UNTIL IT OBTAINS A CERTIFICATE OF AUTHORITY FROM THE SECRETARY OF STATE. SECTION 10-2B-15.01, CODE OF ALABAMA 1975. TO OBTAIN FORMS FOR A CERTIFICATE OF AUTHORITY, CONTACT THE SECRETARY OF STATE, CORPORATIONS DIVISION, (334) 242-5324. THE CERTIFICATE OF AUTHORITY DOES NOT KEEP THE VENDOR FROM SUBMITTING A BID.

BID IDENTIFICATION

REFERENCE PAGE 2, ITEM 2. DUE TO THE POSTAL SERVICE PUTTING BAR CODE LABELS ON ENVELOPES, IT CONCEALS THE BID NUMBER AND DATE IF THE VENDOR HAS WRITTEN THEM OTHER THAN THE LOWER LEFT CORNER, THEREFORE THE BID WOULD BE REJECTED FOR NOT BEING PROPERLY IDENTIFIED.

AWARD:

AWARD WILL BE MADE "ALL OR NONE" TO THE LOWEST RESPONSIBLE BIDDER MEETING ALL SPECIFICATIONS.

DRAWINGS:

THE AWARDED VENDOR MUST SUBMIT CONCEPTUAL DRAWINGS TO THE AGENCY WITHIN TWO WEEKS AFTER FINAL AWARD. FAILURE TO SUBMIT DRAWINGS THAT MEET SPECIFICATIONS OR FAILURE TO SUBMIT DRAWINGS IN A TIMELY MANNER WILL RESULT IN AWARD CANCELLATION.

FREIGHT:

BID IS F.O.B. DESTINATION. ANY FREIGHT CHARGES MUST BE INCLUDED IN THE UNIT BID PRICE AND NOT SHOWN SEPARATELY ON THE ITB OR INVOICE.

PAYMENT:

PAYMENT WILL NOT BE MADE UNTIL AFTER FINAL INSPECTION AND TRIALS HAVE BEEN MADE AND UNTIL AFTER A CORRECT INVOICE HAS BEEN RECEIVED.

MANUFACTURER/MODEL NUMBERS:

AT THE END OF EACH ITEM WHERE SPACES ARE MARKED "MFR" AND "MODEL", VENDORS MUST INDICATE THE MANUFACTURER & ALL STOCK/MODEL NUMBERS NECESSARY TO COMPLETE EACH UNIT AS SPECIFIED.

THIS INFORMATION MUST BE COMPLETED, EVEN IF BIDDING THE RECOMMENDED MFR/MODEL, OR THE BID WILL BE REJECTED.

* NOTE: IF A RECOMMENDED "MODEL" IS NOT GIVEN, THE "MODEL" SPACE WILL NOT BE REQUIRED TO BE COMPLETED.

DESCRIPTIVE LITERATURE:

THE BRANDS AND MODEL NUMBERS REFERENCED PROVIDE A LEVEL OF QUALITY, AND UNLESS OTHERWISE SPECIFIED, ARE NOT RESTRICTIVE. VENDORS BIDDING ALTERNATE ITEMS MUST PROVIDE COMPLETE DESCRIPTIVE/TECHNICAL LITERATURE WITH BOTH THE ORIGINAL AND REQUIRED COPY OF THE BID. REFERENCE TO A WEBSITE OR TO LITERATURE WITH A PREVIOUS BID WILL NOT SATISFY THIS REQUIREMENT.

FAILURE TO SUBMIT LITERATURE WITH THE ORIGINAL AND/OR REQUIRED COPY OF THE BID OR TO SUBMIT LITERATURE WHICH DEMONSTRATES THAT THE ALTERNATE ITEM MEETS/EXCEEDS ALL SPECIFICATIONS WILL RESULT IN BID REJECTION.

PHYSICAL INSPECTION AND OPERATIONAL EVALUATION MAY ALSO BE REQUIRED WITHOUT COST OR OBLIGATION TO THE STATE OF ALABAMA.

MATERIALS, SUPPLIES OR EQUIPMENT:

ALL MATERIALS, SUPPLIES OR EQUIPMENT BEING BID AND DELIVERED TO THE STATE SHALL BE NEW, UNUSED, OF RECENT MANUFACTURE, FIRST CLASS IN EVERY RESPECT, AND SUITABLE FOR THEIR INTENDED PURPOSE.

REQUESTED INFORMATION:

ANY ADDITIONAL INFORMATION REQUESTED FROM A VENDOR MUST BE FURNISHED WITHIN FIVE (5) BUSINESS DAYS FROM RECEIPT OF REQUEST.

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WARRANTY INFORMATION:

EQUIPMENT SHALL BE WARRANTED FOR A MINIMUM OF TWELVE (12) MONTHS. *
WARRANTY SHALL COVER ALL PARTS, LABOR & FREIGHT COST ASSOCIATED WITH
REPAIRS AND/OR REPLACEMENT OF DEFECTIVE EQUIPMENT. ACCIDENTS, MISUSE
AND NEGLIGENCE ARE NOT COVERED BY THIS WARRANTY. THE WARRANTY SHALL
COMMENCE ON THE DATE THE EQUIPMENT IS PUT INTO SERVICE BY THE USING
AGENCY. VENDOR WILL USE WHATEVER MEANS REQUIRED TO FACILITATE THIS
WARRANTY, AND WILL INSURE TOTAL SATISFACTORY PERFORMANCE TO THE USING
AGENCY.

* EXCEPTIONS TO THE 12-MONTH WARRANTY ARE NOTATED WITHIN THE BID
SPECIFICATIONS.

DEMONSTRATION, SEA TRIALS, VESSEL NAME, FINAL INSPECTION:

VENDOR MUST PROVIDE DEMONSTRATION OF PUMPS, STEERING PUMP AND GEAR,
MAIN ENGINE AND GENERATORS, ALL HYDRAULIC EQUIPMENT, ALL ELECTRONICS,
AND EACH APPLIANCE INSTALLED, UPON DELIVERY OF BARGE.

VENDOR MUST PROVIDE A SEA TRIAL, CONSISTING OF A ONE-HOUR ENDURANCE
TEST OF THE MAIN PROPULSION ENGINE, CRASH STOPS AND MANEUVERS, AND
A REPORT OF THE SEA TRIAL PRODUCED BY THE ENGINE MANUFACTURER.

VESSEL NAME AND HAILING PORT TO BE PAINTED. OFFICIAL NUMBER IS TO BE
PAINTED & PUNCHED ON ENGINE ROOM FORWARD BULKHEAD PER USGC REGULATIONS
AND PAINTED VISIBLE FROM THE PILOT HOUSE ROOF.

AFTER THE DEMONSTRATION AND SEA TRIALS HAVE BEEN COMPLETED AND ANY
DEFICIENCIES CORRECTED, THE VESSEL WILL BE THOROUGHLY CLEANED AND MADE
READY FOR SEA AND DELIVERED TO THE AGENCY.

ATTACHMENTS

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***** IMPORTANT INFORMATION *****

IT IS THE VENDOR'S RESPONSIBILITY TO READ THIS ENTIRE DOCUMENT FROM BEGINNING TO END AND TO COMPLY WITH ALL INSTRUCTIONS AND TERMS AND CONDITIONS OF THE ITB.

REMINDER: BIDDERS MUST SUBMIT AN ORIGINAL AND A MINIMUM OF ONE EXACT, COMPLETE COPY (INCLUDING SIGNATURE, NOTARY, AND LITERATURE) OF THE BID, AS SHOWN ON PAGE 2 OF THE ITB, OR THE BID WILL BE REJECTED.

REMINDER: VENDORS MUST COMPLETE THE MFR/MODEL LINES, EVEN IF BIDDING THE RECOMMENDED MFR/MODEL, OR THE BID WILL BE REJECTED.

SPECIFICATION QUESTIONS MUST BE SUBMITTED, IN WRITING, TO THE AGENCY: JOHN MARESKA @ JOHN.MARESKA@DCNR.ALABAMA.GOV

FOR PROCEDURAL QUESTIONS, CONTACT THE BUYER: SUSAN JANA @ (334) 242-7173 OR SUSAN.JANA@PURCHASING.ALABAMA.GOV

REMINDER: CHANGES TO SPECIFICATIONS MAY ONLY BE DONE VIA A WRITTEN ADDENDUM. VERBAL SPECIFICATION CHANGES ARE NOT ALLOWED.

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LINE NO.	COMMODITY/SERVICE DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENDED AMOUNT
00001	<p>UNLESS SPECIFIED OTHERWISE BELOW: SHIP TO: 004004 / 004M08 DEPT OF CONSERV & NATURAL RESOURCES MARINE RESOURCES DIVISION 2 N IBERVILLE ST DAUPHIN ISLAND AL 36528</p> <p>COMMODITY CODE: 120-20-086941 CUSTOM BUILT SELF-PROPELLED BARGE WITH THE FOLLOWING MINIMUM SPECIFICATIONS:</p> <p>***** SECTION 1.0 OVERVIEW OF VESSEL</p> <p>SECTION 1.1 VESSEL DIMENSIONS LENGTH OVERALL 40' - 0" MOLDED BEAM 15' - 0", DRAFT (MAX LIGHT) 3' - 0".</p> <p>SECTION 1.2 VESSEL PLANS CLASSIFICATIONS: THE HULL CONSTRUCTION INSTALLATION OF EQUIPMENT. MACHINERY PIPING AND ELECTRICAL SYSTEMS WILL BE CARRIED OUT TO CONFORM TO ACCEPTABLE SHIPBUILDING PRACTICES, AND IN ACCORDANCE WITH THE APPLICABLE INDUSTRY STANDARDS. VESSEL MUST MEET ALL USCG REQUIREMENTS FOR A VESSEL OF THIS SIZE. THE WELDING SHALL CONFORM TO REQUIRE- MENTS OF ABS CLASS FOR VESSELS UNDER 90 METERS; HOWEVER VESSEL IS NOT TO BE SURVEYED UNDER C CONSTRUCTION OF CLASS.</p> <p>CERTIFICATION: CERTIFICATES OF COMMUNICATION FOR RADIO TRANSMISSIONS ABOARD THE VESSEL SHALL BE SECURED BY THE OWNER</p> <p>MATERIALS AND WORKMANSHIP: ALL MATERIAL AND EQUIPMENT UTILIZED IN CONSTRUCTION SHALL BE OF RECOGNIZED STANDARDS AND MARINE GRADE QUALITY. MATERIAL AND WORKMANSHIP MAY BE INSPECTED THROUGHOUT THE CONSTRUCTION BY OWNER OR A REPRESENTATIVE, WHOM WILL BE GRANTED ACCESS TO THE VESSEL.</p> <p>SECTION 1.3 HULL CONSTRUCTION AND MATERIAL THE HULL OF THE VESSEL SHALL BE OF SINGLE CHINE TYPE, AFT SLOPING DEAD- RISE. ALUMINUM PLATE AND STRUCTURALS SHALL BE UTILIZED IN THE CONSTRUCTION OF THE VESSEL'S HULL. PLATING TO BE 5086 MARINE GRADE ALUMINUM. STRUCTURALS TO BE 6061 MARINE GRADE ALUMINUM. CARE SHALL BE TAKEN TO ISOLATE ALL OTHER METAL MATERIAL FROM THE ALUMINUM TO ELIMINATE GALVANIC DETERIORATION OF ALUMINUM HULL AND COMPONENTS.</p> <p>SECTION 1.4 DECK AWNING</p>	1	LOT		
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BOW DECK TO BE COVERED BY CANVAS AWNING SUPPORTED BY 1 1/2" ALUMINUM TUBING UPRIGHTS AND 3/4" TUBING TOP RAIL. UPRIGHTS TO BE FITTED WITH PINS TO SUPPORT 3/4" X 6' BOARDS. CENTER TUBE IS TO BE SUFFICIENT TO SUPPORT BLOCKS THAT ARE PART OF DREDGE'S RETRIEVAL.

SECTION 1.5 FRAMING AND PLATING THE VESSEL SHALL HAVE TRANSVERSE FRAMING ON 18" CENTERS. LONGITUDINAL BEAMS AS SUFFICIENT SHALL BE INSTALLED 18" OFF CENTERLINE LONGITUDINALLY TO REINFORCE AND SUPPORT MAIN DECK PLATING OF THE VESSEL. THE MAIN DECK WILL BE INSTALLED WITH 3" OF CAMBER TO ALLOW FOR DECK ROLL-OFF. LONGITUDINAL BULKHEADS SHALL BE INCORPORATED. FRAMING SHALL BE STRUCTURAL ANGLES. LIMBER HOLES AND AIR SNIPES SHALL BE CUT IN STRUCTURAL MEMBERS FOR DRAINAGE OF WATER AND ELIMINATION OF AIR POCKETS. FOLLOWING ARE PLATE AND FRAMING SIZES FOR THE VESSEL.

VESSEL PLATING
 BOTTOM PLATING, TRANSOM, SIDESHELL, MAIN DECK, ROOF, AND INTERNAL BULKHEADS: 5/16" ALUMINUM PLATE
 AFT BOTTOM NEAR STEERING GEAR 1/2" ALUMINUM PLATE
 PILOT HOUSE: BOW PLATE 5/16" SIDE AND AFT 1/4" ALUMINUM PLATE

STRUCTURAL MATERIAL
 FRAMES 2 X 3 X 1/4" ANGLE ON 18" TRANSVERSE CENTERS
 KEEL 1" X 6" FLAT BAR W. 1/3" X 3" T-KEEL
 RUMBOLD 4.5" SCHEDULE 80 SPLIT PIPE; SINGLE-RUN INSTALLED
 BULKHEAD VERTICAL STIFFENERS 2 X 3 X 1/4" ANGLE
 ENGINE GRIDERS 1/2" PLATE
 ENGINE RIDER PLATE 3/4" X 6" F/BAR
 SUPERSTRUCTURE FRAMES 2 X 3 X 1/4" ANGLE 1/4" X 2" F/BAR
 SUPERSTRUCTURE ROOF 2 X 3 X 1/4" ANGLE

SECTION 1.6 CAPACITIES
 FUEL 1400 GALLONS, FRESH WATER 300 GALLONS

SECTION 1.7 HATCHES
 THE BUILDER SHALL FURNISH AND INSTALL UP TO 3 18" SINGLE-BOLT MANHOLES TO ACCESS COMPARTMETNS, STEERING ROOM,

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AND PASSAGEWAYS THROUGH MAIN DECK IN PILOTHOUSE, WHERE APPLICABLE. BUILDER SHALL FURNISH AND INSTALL 18" MULTI-BOLT MANHOLES TO ACCES EACH FUEL TANK FROM THE ENGINE ROOM, BALLAST TANKS OIL RESERVOIRS, AND ALL POTABLE WATER TANKS.

SECTION 1.8 DOORS
 EXTERIOR DOORS SHALL BE AS FOLLOWS:
 2 ALUMINUM DOORS OPENING TO THE STERN ON BOTH SIDES OF THE PILOT HOUSE WITH ALUMINUM FRAME AND WINDOWS.

SECTION 1.9 WINDOWS AND PORTS
 PILOT HOUSE WINDOWS TO BE AS FOLLOWS
 RUBBER MOUNTED 3/8" TEMPERED MONOLITHIC GLASS. FORWARD PILOT HOUSE WINDOWS ARE TO BE PROTECTED FROM SPRAY OF WATER CANON BY A FLIP UP SHIELD OF SUITABLE MATERIAL HINGED ABOVE WINDOWS AND SECURED IN THE UP POSITION BY TWO ALUMINUM RODS ANGLED AGAINST THE FRONT OF THE VESSEL. SHIELD MUST HAVE AN 18" X 18" REINFORCED PLEXIGLAS PORTAL CENTERED IN FRONT OF MIDDLE FRONT WINDOW. THREE FIXED WINDOWS ACROSS THE FRONT, ONE ADJOINING ON EACH SIDE OF THE FORWARD CORNERS,
 ONE (25" H X 18 1/2"W) CENTERED ON THE AFT WALL, ONE (26"H X 29 1/2"W) CENTERED ABOVE COUNTER TOP ALONG STARBOARD SIDE, AND ONE 12" 3-DOG PORTLIGHT WITH SCREEN MOUNTED 6 FOOT OFF FLOOR IN THE HEAD. AFT WINDOW, HELM SIDE WINDOWS, AND STARBOARD WINDOW TO HAVE SLIDE OPEN CAPABILITY.

SECTION 1.10 PILOTHOUSE
 EXTERIOR DIMENSIONS TO BE 14' IN LENGTH 10' IN WIDTH AND 9' IN HEIGHT FROM MAIN DECK. INTERIOR HEIGHT TO BE 7'. PILOT HOUSE ROOF TO EXTEND TO MAIN DECK WIDTH AND 18" OVER AFT WALLS. BOW WINDOWS TO BE TILTED FORWARD. 4" CAP ON OVERHANG. STEPS WILL BE INSTALLED ALLOWING ACCESS UP TO PILOT HOUSE DOORS FROM FORE AND AFT OF VESSEL. THE FOLLOWING GALLEY EQUIPMENT SHALL BE PROVIDED AND INSTALLED: MICROWAVE, 1.7 CUBIC FOOT REFRIGERATOR, STAINLESS STEEL SINK AND TOILET.

HELM CONSOLE
 CONSOLE COUNTER SHALL BE 35" FROM THE FLOOR, 24" DEEP (SEE BELOW FOR ANGLED STEERING WHEEL), AND SPAN

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THE ENTIRE WIDTH OF THE PILOT HOUSE. THE CENTER 24" IN WHICH THE 20" STEERING WHEEL WILL BE CENTERED WILL BE ANGLED UP 30 DEGREES TOWARD THE FRONT WINDOW. BASE OF THE STEERING COLUMN SHOULD BE INSTALLED 2" FROM THE LOWER EDGE OF THE THE ANGLED COUNTER. THREE 32H X 18"W CABINET DOORS SHALL BE INSTALLED EQUIDISTANTLY ON THE STARBOARD HALF OF THE OUTWARD FACING CONSOLE. ONE 32" X 18" CABINET SHALL BE INSTALLED ON THE PORT HALF OF THE CONSOLE RESERVING THE CENTERMOST AREA OF THE PORT HALF FOR FUSE PANEL, INSTRUMENTATION, AND VESSEL TOGGLE SWITCHES, PLACEMENT OF SWITCHES, INSTRUMENTS, GAUGES, AND RADIOS TO BE SPECIFIED BY OWNER.

STARBOARD COUNTER TOP AND SINK COUNTERTOP ALONG STARBOARD SIDE OF VESSEL SHALL BE 84"L X 37"H X 24"D. SINK AREA SHALL BE CONTINUOUS WITH THE WORKING COUNTER IN A "L" CONFIGURATION ALONG THE AFT WALL AND SHALL BE 24" L X 37"H X 24"D. SINK SHALL BE AS LARGE AS POSSIBLE WITH A SWIVELING FAUCET AND DISH HOSE. TWO CABINET DOORS SHALL BE INSTALLED UNDER SINK. CUBBY HOLE SHALL BE INSTALLED UNDER THE FORE-MOST SECTION OF THE STARBOARD COUNTER. IT SHALL BE NO LESS THAN 21 7/8" H X 19 5/16"W TO ACCOMODATE LARGEST 1.7 CUBIC FOOT MINI FRIDGE AVAILABLE (MEASUREMENTS ABOVE INCLUDE 1" EXTRA CLEARANCE FOR HEAT DISSIPATION) AND SHALL HAVE AN ELECTRICAL OUTLET INSTALLED. CUBBY ABOVE A MINI FRIDGE SHALL ACCOMODATE A MID TO SMALL SIZE MICROWAVE OVEN. FOUR 7" HIGH DRAWERS STACKED 2 DOWN BY 2 ACCROSS ABOVE 2 CABINETS SHALL BE INSTALLED UNDER THE COUNTER. LENGTH WILL BE DETERMINED BY REMAINING SPACE BETWEEN MICROWAVE FRIDGE CUBBY AND THE SINK "L". TWO ELECTRICAL OUTLETS SHALL BE INSTALLED ON STARBOARD WALL ABOVE COUNTERTOP.

HEAD RESTROOM SHALL BE 48" FROM THE PORT WALL X 52" FROM THE AFT WALL. RESTROOM DOOR SHALL BE INSTALLED ON FORWARD WALL. TOILET SHALL BE INSTALLED ON AFT WALL.

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SECTION 1.11 INCLINED LADDERS
 ALUMINUM INCLINED LADDERS W/F/BAR
 STRINGERS AND SAFETY TREAD STEPS
 SHALL BE INSTALLED FOR ACCESS TO
 ENGINE ROOM. ALL INCLUDED LADDERS
 TO BE PROVIDED WITH 1 - 1/4" GALV.
 ALUMINUM PIPE HANDRAIL.

SECTION 1.12 DECK FITTINGS
 BITTS AND CHOCKS SHALL BE LOCATED AT
 BOW, STERN, AND MID-SHIP ON BOTH SIDES
 OF THE BARGE.

SECTION 1.13 FREEING PORTS
 LOCATION OF FREEING PORTS SHALL BE AT
 THE VENDOR'S DISCRETION

SECTION 1.14 DIVE AND CULTIVATOR
 PLATFORM
 THE MAIN DECK WILL STEP DOWN TO A 5' X
 15' FLAT FANTAIL DECK AT THE STERN OF
 THE VESSEL TO ALLOW DIVERS ACCESS AND
 STORAGE OF CULTIVATOR. (2) FANTAIL
 RAILINGS, (4) GRAB HANDLES, AND (4) TIE
 DOWNS TO BE PLACED AT LOCATION CHOSEN BY
 THE AGENCY DURING TIME OF CONSTRUCTION.

SECTION 1.15 DREDGE TABLES
 TWO STAINLESS STEEL DREDGE TABLES WILL
 BE FABRICATED AND INSTALLED ON THE STAR-
 BOARD AND PORT SIDES OF THE FORWARD
 QUARTER OF THE MAIN DECK
 OF THE MAIN DECK PER THE OWNERS
 INSTRUCTIONS.

DREDGE SPECIFICATIONS: ROLLER 4'
 BLACK IRON WITH BEARINGS, LEGS, AND
 BRACING 1 1/2" STAINLESS STEEL TUBING,
 TOP 3/16" STAINLESS STEEL SHEETING.

SECTION 1.16 RIGGING
 A KANGAROO BOOM IS TO BE INSTALLED
 ENABLING THE VESSEL TO
 CULTIVATE FROM THE STERN. BOOM IS
 TO BE MOUNTED AND INSTALLED
 FORWARD OF THE PROP ON THE TOP
 OF THE PILOT HOUSE AND RUN AFT
 BEYOND THE HOUSE STRUCTURE. ALL
 RIGGING SHALL BE TO ACCOMODATE
 OPERATION AND TOWING CAPACITIES
 OF EACH DREDGE (125LBS + TOWING
 STRESS) AND CULTIVATOR BAR
 (330 LBS + TOWING STRESS).

 SECTION 2.0 STRUCTURAL AND AIR TESTING
 THE BUILDER SHALL PROVIDE THE
 MATERIALS AND LABOR TO PRESSURIZE
 ALL INTEGRAL TANKS TO A MINIMUM
 PRESSURE OF TWO POUNDS, TO CHECK FOR

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WELD LEAKS BEFORE PRIMARY HULL
 COATINGS ARE APPLIED TO VESSEL.

 SECTION 3.0 ELECTRICAL

SECTION 3.1 OVERVIEW
 BUILDER SHALL INSTALL A 120/208 VOLT
 ELECTRICAL POWER SYSTEM. SYSTEM
 SHALL BE POWERED BY "ONAN MODEL
 MDKBP DIESEL MARINE GENERATOR SET,
 MINIMUM RATED 17KW" OR GREATER TO MEET
 LOAD REQUIREMENTS OF VESSEL, AND
 GALVONIC ISOLATOR. VESSEL TO BE FITTED
 WITH POWER AND DISTRIBUTION PANEL AS
 APPLICABLE. CONNECTION FOR ONSHORE
 POWER, (2) 12V BATTERY BANKS AND
 CHARGES TO BE PROVIDED.

SECTION 3.2 MAIN CABLE RACEWAY AND
 BULKHEAD PENETRATIONS
 BUILDER SHALL INSTALL CABLE RUNS AS
 DIRECTLY AS POSSIBLE, WITH CARE,
 TO AVOID AREAS OF EXCESSIVE
 MOISTURE, BILGE SPACES, AND
 AREAS WHICH WOULD INTERFERE
 WITH PLACEMENT OR OPERATION OF
 MACHINERY AND EQUIPMENT.
 APPROVED TYPE COMMERCIAL SOLDERLESS
 LUGS SHALL BE UTILIZED FOR MOTOR
 SEALING, GENERATOR AND BATTERY CABLE
 ENDS. ALL WIRING TO BE MARINE
 GRADE, I-EEE STANDARD.

SECTION 3.3 NAVIGATION LIGHTING
 VESSEL SIDE LIGHT 2 - 12V AC SINGLE
 LIGHT
 STERN LIGHT 1 12V AC LIGHT
 BOW LIGHT 1 12V AC SINGLE LIGHT
 WHITE LIGHT
 ANCHOR LIGHT 1 12V AC SINGLE WHITE "ALL-
 AROUND"
 HORN LIGHT 1 AMBER FIXTURE PER
 USCG LIGHT LIST INSTALLED
 SPOTLIGHT 1 PERKO 12" DIA SPOT LIGHT
 WITH DASH CONTROL OR EQUAL

SECTION 3.4 DISTRIBUTION PANELS
 THE DISTRIBUTION OF ELECTRICAL POWER
 SHALL BE IN GENERAL ACCORDANCE WITH
 CONCEPTUAL DRAWINGS SUBMITTED BY THE
 VENDOR, EXCEPT FOR 1 FUSE PANEL, WHICH
 WILL BE PLACED AS SPECIFIED IN 1.10.
 THE ELECTRICAL DISTRIBUTION SYSTEM SHALL
 BE 120 VOLTS. DC POWER SHALL BE SUPPLIED
 BY BATTERIES. THE 12 VOLT BATTERY BANKS
 MUST SUPPLY POWER TO THE REQUIRED ITEMS.
 THE VENDOR SHALL FURNISH AND INSTALL (1)
 AC AND (1) DC PANEL FOR DISTRIBUTION OF
 POWER FROM THE PILOT HOUSE.

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ALL ELECTRICAL GENERATOR UNITS, MOTORS, AND DISTRIBUTION PANELS MUST BE GROUNDED TO THE HULL OF THE VESSEL.

SECTION 3.5 ENGINE ROOM VENTILATION
18" BLOWER WILL BE MOUNTED FOR INTAKE AIR
12' BLOWER WILL BE MOUNTED FOR EXHAUST AIR REMOVAL
FIRE PROTECTION SYSTEM FOR ENGINE ROOM OPERATED FROM/INITIATED FROM PILOT HOUSE

SECTION 3.7 WORK DECK LIGHTING
GREEN LED LIGHTS TO BE INSTALLED ON AFT SIDE OF PILOT HOUSE AND EVERY 6 FEET ALONG CENTER LINE OF SUPERSTRUCTURE OVER THE BOW DECK

SECTION 3.8 ENGINE CONTROLS
ELECTRONIC CONTROLS, THROTTLE, AND GEAR CONTROLS FOR MAIN ENGINE SHALL BE MOUNTED AT THE PILOT HOUSE CENTER CONSOLE AND THE FORWARD MAIN DECK CONTROL STATION.

SECTION 3.9 FUEL OIL SYSTEM
THE BUILDER SHALL INSTALL COMPLETE FUEL OIL SYSTEM NECESSARY TO SERVE THE ENGINES AND SHALL SUPPLY NECESSARY FUEL FILLS, VENTS, FILTERING, SUPPLY, AND RETURN FUEL PIPING FROM TANKS TO ENGINES. ALL ENGINES SHALL BE CAPABLE OF DRAWING FROM ANY DESIGNATED FUEL TANKS AND RETURNING LIKEWISE. A SINGLE RACOR (OR EQUAL) FILTER TO BE INSTALLED TO SERVICE THE GENERATOR & A DUAL RACOR (OR EQUAL) SYSTEM TO SERVICE THE MAIN ENGINE.

SECTION 3.10 ENGINE COOLING
ENGINES ARE TO BE ARRANGED FOR KEEL COOLING. MAINE ENGINE AND GENERATOR COOLERS SHALL BE INSTALLED AND SIZED PER MANUFACTURER'S RECOMMENDATION.

SECTION 4.0 MAIN ENGINE AND REDUCTION

BUILDER SHALL FURNISH AND INSTALL A TIER II COMPLIANT MAIN PROPULSION ENGINE.
1 CUMMINS QSL9M (OR EQUAL) 405 HP @ 2100 RPM; TWIN DISC MARINE (OR EQUAL) 2:1 RATIO

VENDOR TO PROVIDE GAUGE PANELS W/ WIRING

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	PLUGS, 4 - FLEXES, ENGINE, AND GEAR MOUNTING HARDWARE. *****				
	***** SECTION 5.0 CAT. 1 PIPING				
	SECTION 5.1 STERN TUBE THE STERN TUBE SHALL BE FABRICATED FROM ALUMINUM MECHANICAL TUBE TO HOUSE STERN BEARING AND STUFFING BOX. STUFFING BOX PUSHER/FLANGE AND BOLTS TO BE INSTALLED.				
	SECTION 5.2 STRUTS STRUTS SHALL BE CONSTRUCTED TO MEET THE NECESSARY HORSEPOWER DRIVE TRAIN REQUIREMENTS OF THE VESSEL.				
	SECTION 5.3 RUDDER TUBE AND SHAFTING MECHANICAL TUBE RUDDER PORTS SHALL BE INSTALLED TO HOUSE TWO STEERING RUDDERS WITH 2 1/2" SS RUDDER SHAFTS. NYLON THRUST BEARING WITH GREASE FITTINGS ON DECK. THE RUDDER TOP WILL BE AFFIXED TO THE TILLER ARMS BY BEING PERMANENTLY WELDING TO A TAPERED HUB ON TOP OF RUDDER SHAFTS. RUDDER BEARINGS ARE TO BE NYLON TOP AND BOTTOM.				
	SECTION 5.4 PROPELLER PROPELLER TO BE 4-BLADE SS, 28' OVERALL DIAMETER. PROPELLER TO BE SIZED AND INSTALLED IN ACCORDANCE WITH ENGINE MANUFACTURER'S RECOMMENDATION.				
	SECTION 5.5 MAIN SHAFT PROPELLER SHAFTS TO BE 2.5" AQUAMET 17, OR EQUAL				
	SECTION 5.6 BILGE PUMP 12V BILGE PUMPS SHALL BE INSTALLED TO DE-WATER ALL INTERNAL SELF-CONTAINED COMPARTMENTS, SINGLE PUMP IN EACH SELF-CONTAINED COMPARTMENT FOR A TOTAL MIN. CAPACITY OF 8,000 GPH. *****				
	***** SECTION 6.0 STEERING GEAR AND HYDRAULICS				
	SECTION 6.1 STERRING UNIT STEERING UNITL SHALL BE DUAL PUMP WITH SELF CONTAINED TANK MOUNTED UNITS AND ELECTRICALLY DRIVEN BY APPROPRIATELY SIZED MOTORS. ELECTRICALLY DRIVEN MOTORS WITH RUDDER DIAL INDICATORS TO BE LOCATED AT THE DESIGNATED CONTROL STATIONS.				

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SECTION 6.2 HYDRAULIC DECK WINCH
 A2 - DRUM HYDRAULIC DECK WINCH SHALL BE PROVIDED AND INSTALLED ON THE BOW PER THE AGENCY'S DIRECTION ON THE LOCATION. A SINGLE DRUM HYDRAULIC WINCH SHALL BE INSTALLED AT THE STERN FOR TRAWLING OR DREDGING PURPOSES.

SECTION 6.3 WINCH CONTROLS
 THE HYDRAULIC WINCH CONTROLS ARE TO BE LOCATED LOCALLY AT THE WINCH CONTROL STATION AND WITHIN THE PILOT HOUSE. PILOT HOUSE CONTROLS ARE TO BE POSITIONED IN FRONT OF AFT WINDOW.

SECTION 7.0 INSULATION
 SECTION 7.1 HOUSE INSULATION
 DECK HOUSE SURFACES EXPOSED SHALL BE INSULATED WITH 3" FIBERGLASS BATTS.

SECTION 7.2 EXHAUST INSULATION
 EXHAUST PIPES SHALL BE INSULATED WITH LEWCO PIPE INSULATION, THERMAL WRAPS, AND BLANKETS. ALL EXHAUST FLEXES SHALL BE COVERED WITH REMOVABLE THERMAL BLANKETING. GENERATOR MUFFLERS TO BE INSTALLED IN ENGINE ROOM OVERHEAD.

SECTION 7.3 AIR CONDITIONING AND HEATING
 OVERHEAD UNITS SHALL BE INSTALLED WITH HEAT STRIPS ON PILOT HOUSE ROOF TO SERVICE REQUIREMENTS OF LIVING SPACE.

SECTION 8.0 CAT. 2 PIPING

SECTION 8.1 ENGINE FOUNDATIONS
 THE ENGINE FOUNDATIONS SHALL BE FITTED PER MANUFACTURER SEPCIFICATIONS (REFERENCE SECTION 4.0).

SECTION 8.2 PIPING (GENERAL)
 PIPING SHALL BE INSTALLED WHERE IT IS ACCESSIBLE BUT NOT SUBJECT TO DAMAGE. PIPE SHALL BE RUN DIRECTLY WITH A MINIMUM NUMBER OF BENDS, AND FITTINGS SHALL BE WELL - SECURED AND SUFFICIENTLY SUPPORTED TO PREVENT DAMAGE FROM VIBRATION.

SECTION 8.3 FILLS AND VENTS
 ALL TANKS SHALL BE VENTED, FUEL FILLS AND VENTS TO BE SIZED IN ACCORDANCE WITH THE APPLICABLE USCG

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REGULATIONS.

SECTION 8.4 SEACHEST
 SEACHEST TO BE SIZED AND INSTALLED PER THE REQUIREMENTS OF THE MAIN DECK FIRE MONITOR, AS SPECIFIED IN 8.10.

SECTION 8.5 BILGE SYSTEMS
 BILGE PIPING TO BE 1 1/4" SCH 80 ALUMINUM PIPE. A 2" VALVE SHALL BE INSTALLED AT THE SEACHEST FOR SALT WATER SUPPLY. A BILGE MANIFOLD SHALL BE INTALLED IN ACCORDANCE WITH THESE SPECIFICATIONS TO TAKE SUCTION FROM ALL NECESSARY COMPARTMENTS.

SECTION 8.6 LUBE OIL SYSTEM
 LUBE OIL TANK TO BE INSTALLED PER AGENCY AT TIME OF CONSTRUCTION.

SECTION 8.7 EXHAUST PIPING
 MAIN ENGINE AND GENERATOR EXHAUST PIPING TO BE STAINLESS STEEL, SIZED PER ENGINE REQUIREMENTS. EXHAUST PIPING TO BE INSTALLED UTILIZING PROPER METHODS ALLOWING FOR HEAT EXPANSION, AND VIBRATION ABSORPTION.

SECTION 8.8 POTABLE WATER
 THE BUILDER SHALL FURNISH AND INSTALL A POTABLE WATER SYSTEM ARRANGED TO PROVIDE A CONTINUOUS SUPPLY OF FRESH WATER FROM STORAGE TANKS TO THE PRESSURE PUMP. FRESH WATER SUPPLY TO BE PROVIDED FROM DESIGNATED POTABLE WATER TANKS. EACH POTABLE WATER TANK SHALL HAVE A SIGHT GAUGE INSTALLED.

SECTION 8.9 WASH WATER SYSTEM
 A 2" DECK WASH DOWN SHALL BE PROVIDED AT THE MAIN DECK, CAPABLE OF TAKING SUCTION THROUGH THE BILGE/BALLAST MANIFOLD FOR FORE PEAK COMPARTMENT.

SECTION 8.10 FIRE MONITOR
 A FIRE MONITOR WILL BE INSTALLED DRIVEN FROM A 15 HP PUMP POWERED FROM THE SHIP'S GENERATOR. AN ADJUSTABLE NOZZLE SHALL BE INSTALLED TO REGULATE THE FLOW AND SPRAY FROM THE MONITOR TIP.

SECTION 8.11 SANITARY SYSTEM
 BUILDER WILL INSTALL A FRESH WATER SINK AND TOILET IN HEAD. BUILDER SHALL SUPPLY A USCG APPROVED MARINE SANITATION DEVICE.

SECTION 9.0 LIFE - SAVING

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	SECTION 9.1 LIFE - SAVING DEVICES BUILDER SHALL FURNISH AND INSTALL THREE 30" LIFE RINGS AND FOUR ADULT LIFE JACKETS.				
	SECTION 9.2 FIRE - FIGHTING BUILDER SHALL FURNISH AND INSTALL PORTABLE FIRE EXTINGUISHERS AS REQUIRED BY USCG.				
	SECTION 9.3 HORN AND BELL BUILDER SHALL FURNISH AND INSTALL ONE DUAL TRUMPET BUELL HORN COMPLETE WITH AMBER LIGHT AND ONE 12" BRASS FOG BELL.				
	SECTION 9.4 COMPASS ONE RITCHIE (OR EQUAL) COMPASS				
	SECTION 9.5 CHAIRS ADJUSTABLE UPHOLSTERED CAPTAIN'S CHAIR TO BE INSTALLED CENTERED AT THE PILOT HOUSE CONSOLE. A SECOND CHAIR SHALL BE INSTALLED ON THE PORT JUST AFT OF THE DOOR. CHAIRS TO BE COVERED WITH HEAVY - DUTY NAUGAHYDE MATERIAL. *****				
	***** SECTION 10.0 JOINER				
	SECTION 10.1 CARPENTRY LOCKERS SHALL BE PROVIDED FOR STORAGE (SEE SECTION 1.10). WALLS TO BE FURNISHED WITH FIBERGLASS PANEL THROUGH- OUT.				
	SECTION 10.2 FLOORING FLOOR TO BE COVERED WITH ARMSTRONG LINOLEUM OR EQUAL. ENGINE ROOM FLOOR IS TO BE FRAMED WITH 2 X 3 ANGLE WITH 3/16" DIAMOND ALUMINUM INSERTS FOR WALKING DECK INSTALLED THEREIN. *****				
	***** SECTION 11.0 PAINT				
	SECTION 11.1 PAINT SYSTEM PAINT SYSTEM TO BE AMERON MARINE COATINGS, OR EQUAL. VESSEL WILL BE SAND SWEEP CLEAN WITH #4 GRIT BEFORE COATINGS ARE APPLIED. COATING IS TO BE MAXIMUM THICKNESS AND NON-SKID ON THE MAIN DECK, PER MANUFACTURER'S SPECS.				
	ANODES - MAGNESIUM ANODES ARE TO BE INSTALLED BELOW WATER LINE OF THE HULL, THE AMOUNT OF ANODES INSTALLED SHOULD EFFECTIVELY PROTECT THE LIFE				

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OF THE VESSEL FOR A MINIMUM OF TWO YEARS.

 SECTION 12.0 ELECTRONICS
 AN INTERGRATED GPS RADAR SYSTEM WITH DEPTH FINDER, TWO VHF RADIOS AND A COMPASS SHALL BE INSTALLED.

MFR: _____ MODEL: _____
 ONAN MDKDP OR EQUAL (GENERATOR 3.1)

MFR: _____ MODEL: _____
 PERKO OR EQUAL (SPOTLIGHT 3.3)

MFR: _____ MODEL: _____
 RACOR OR EQUAL (FILTER 3.9)

MFR: _____ MODEL: _____
 CUMMINS QSL9M OR EQUAL (ENGINE 4.0)

MFR: _____ MODEL: _____
 TWIN DISC 2:1 RATIO OR EQUAL (TRANSMISSION 4.0)

MFR: _____ MODEL: _____
 AQUAMET 17 OR EQUAL (PROPELLOR 5.4)

MFR: _____ MODEL: _____
 RITCHIE OR EQUAL (COMPASS 9.4)

MFR: _____ MODEL: _____
 ARMSTRONG OR EQUAL (FLOORING 10.2)

MFR: _____ MODEL: _____
 AMERON OR EQUAL (PAINT SYSTEM 11.1)

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