RAPTOR DESIGN & ENGINEERING LLC

MANUFACTURER OF



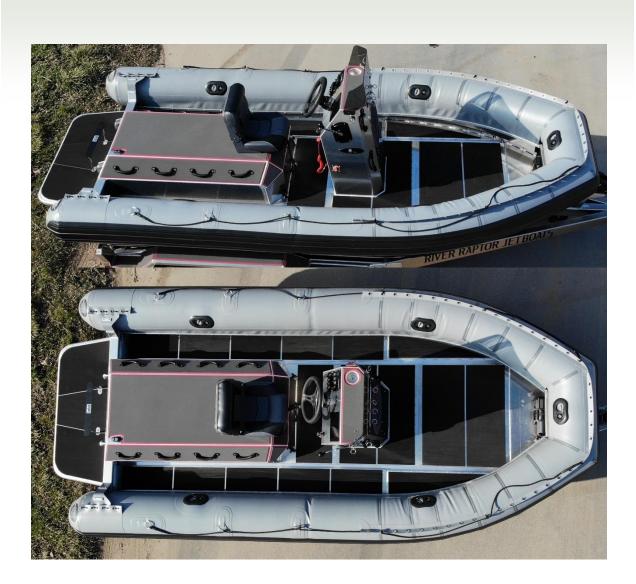
XTR RESCUE RAPTOR 1860 & 1560





375 New Holland Drive Suite A Belleville, PA 17004 USA

PHONE	717-935-2175
EMAIL	info@riverraptorjetboats.com
WEBSITE	www.riverraptorjetboats.com



1. General Specifications

- 1.1. Rigid Hull Inflatable Boat
 - 1.1.1. Rigid Hull Material: Aluminum
 - 1.1.2. Inflatable Collar Material: Urethane
- 1.2. Hull Shape: Modified V
- 1.3. Propulsion: Inboard Jet



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- 1.4. Internal Layout: Walk-Around Center Console Forward, Open Bow, Boxed Engine Compartment
- 1.5. Overall Length: 1860 = 18'2" or 1560 = 14'11"
- 1.6. Bow Tip To Transom Length: 1860 = 16'3" or 1560 = 13'2"
- 1.7. Bottom Width: 60"
- 1.8. Beam: 83"
- 1.9. Side Height: 27"
- 1.10. Deadrise: 10 Degree
- 1.11. USCG Rated Capacity: 1860 = 7 Persons 1300 lbs or 1560 = 5 Persons 850 lbs
- 1.12. Weight (No UHMW): 1860 = 1600 lbs or 1560 = 1300 lbs
- 1.13. Static Draft: 8"
- 1.14. Draft On Plane: 3"
- 1.15. Top Speed 50 mph with 300 hp engine, 43 mph with 170 hp engine
- 1.16. Fuel Consumption: 7 gph @ 30 mph
- 1.17. US Coast Guard Compliant Construction
- 2. <u>Hull Specifications</u>
 - 2.1. Aluminum Hull (Boat Bottom & Lower Sides)
 - 2.1.1. AL 5052 Sheet Material (Ultimate Tensile Strength 33,000 psi)
 - 2.1.2. AL 6061 Extrusions
 - 2.1.3. .190" Bottom
 - 2.1.4. .125" Sides, Aluminum Collar Cradle, Keder Rail For Collar Attachment
 - 2.1.5. .125" Floor Panels
 - 2.1.6. Raised Performance Jet Intake System (Dimensions: 13" Wide X 20" Long X 1.75" Deep)
 - 2.1.7. Double Mig Welded (Inside & Outside) Hull Seams
 - 2.1.8. Custom Build Heavy Duty Infrastructure
 - 2.1.9. Engineered, Laser Notched (To Reduce Weight & Provide Access To UHMW Hardware) C Channel & .25" X 2" C Channel Continuously Welded Bottom Stringers, T Extrusion Bottom Stringers
 - 2.1.10. Custom Build Floor Support Structure Welded To Stringers
 - 2.1.11. Floor Panels Attached To Floor Support Structure Via 3M 540 & Aluminum Rivets
 - 2.1.12. Pump Protection Tubing (1 3/4" O.D., 0.125" WALL, AL) Connecting Swim Deck & Transom Reinforced With Cross Brace
 - 2.1.13. Self-Baling Deck System 2 Longitudinal Floor Channels That Direct Water To 2 Transom Mounted Scupper Valves
 - 2.1.14. Hull is of rugged, heavy-duty design to minimize damage from impact and abrasion as a result of contacting subsurface objects.
 - 2.2. <u>Collar System (Boat Higher Sides)</u>
 - 2.2.1. Constructed of 40 oz Urethane Fabric



- 2.2.2. Available In Red & Grey Color
- 2.2.3. 14" Diameter
- 2.2.4. 5 Individual Chambers
- 2.2.5. 8" Side Rubstrake
- 2.2.6. 8" Bottom Rubstrake
- 2.2.7. D Ring Attached Collar Top Life Line
- 2.2.8. Grab Handles
- 3. Internal Layout
 - 3.1. Center Forward Console Design
 - 3.2. Walk Around Center Console With Polycarbonate Windshield, 4 Grab Handles, Sliding D-Ring Track, 4 D-Ring Pods & 8 Removable D-Rings
 - 3.3. Bow Deck 53" X 53"
 - 3.4. Sit Down Operator's Station With Low-Back Helm Seat 1560 Dual Leaner Seat With Storage - 1860
 - 3.5. Rear Deck Engine Compartment Lid (54" X 22" Seating) With Lifting Shocks & Grab Handles
 - 3.6. Swim Deck Extension 52.5" X 20"
- 4. Drive System Specifications:
 - 4.1. Engine: BRP Rotax 1630
 - 4.1.1. Horsepower: 300 or 170
 - 4.2. Pump: BRP Rotax
 - 4.2.1. 160mm Diameter
 - 4.2.2. Axial Flow
 - 4.2.3. Cast Aluminum Reverse Bucket
 - 4.2.4. Stainless Steel Wear Ring
 - 4.2.5. Integrated Cooling Water Supply For Engine
 - 4.3. Wet Exhaust System
 - 4.4. Fuel Capacity: 1860 27 Gallon, 1560 19 Gallon (Aluminum Under Floor Fuel Tank To Maximize Fuel Capacity & Watercraft Stability)
- 5. Electrical Specifications
 - 5.1. Rear Starboard Storage Located Electrical Center Containing:
 - 5.1.1. NOCO NLP14 Starting Battery: 500 CCA
 - 5.1.2. Deka Group 31 Lead Acid Deep Cycle Accessory Battery: 100AH (NOCO NLX31 Lithium 120AH Available)
 - 5.1.3. NOCO Genius GENPRO Onboard Battery Charger With NOCO Bulkhead Charging Inlet
 - 5.1.4. Engine Fuse Box
 - 5.1.5. BRP Rotax JPS BUDS Engine Data & Diagnostic System With Diagnostic Plug
 - 5.1.6. Main Electrical Panel Containing:
 - 5.1.6.1. Main Electrical Disconnect



- 5.1.6.2. Blue Sea Charging Relay
- 5.1.6.3. CZONE Contact 6 Plus Module
- 5.1.6.4. ATO Fuse Box
- 5.1.7. CZONE Digital Switching Power Distribution System
- 5.2. Medallion Helm Mounted 8" Touch Display
 - 5.2.1. Multifunction Touch Display: Clock, Fuel Level, Speed, Engine RPM, Engine Temperature, Fuel Consumption Rate (Instant), Compass, Hour Meter
 - 5.2.2. Indicator Lights: High Engine / Exhaust Temperature, High / Low Battery Voltage, Maintenance Required / Fault Code, Low Fuel, Low Oil Pressure, Check Engine
 - 5.2.3. Cole Hersee Key Switch
- 5.3. Helm Mounted CZONE Switch Panel
 - 5.3.1. Fused Switches:
 - 5.3.1.1. Blower
 - 5.3.1.2. Navigation Lights
 - 5.3.1.3. Manual Bilge
 - 5.3.1.4. Deck Lighting
 - 5.3.1.5. Auxiliary/Lighting/Accessory As Needed
- 5.4. 12V Receptacle
- 5.5. Helm Mounted Kill Switch With Lanyard (Fell Marine MOB Wireless Option Available)
- 5.6. 4" Marine Bilge Blower
- 5.7. Dual 900gph Automatic Bilge Pumps
- 5.8. TH-Marine LED Interior Strip Deck Lighting
- 5.9. Side Helm Recessed LED Front Navigation Lights
- 5.10. Rear Post Anchor Light
- 5.11. Sealed Electrical Connectors At Electrical Harness Junctions & Terminals
- 6. <u>Controls Specifications</u>
 - 6.1. 270 Degree Helm Steering
 - 6.2. Flow-Tec SDR Shifter
 - 6.2.1. Single Lever/Dual Function
 - 6.2.2. Port Side Console Mount
 - 6.2.3. Start In Gear Protection
- 7. <u>Deck Hardware</u>
 - 7.1. Stainless Steel Hardware
- 8. <u>Topside Finish</u>
 - 8.1.1. AquaTraction Cross-Link Polyethylene Marine Flooring Black Boat Floors



- 8.1.2. AquaTraction Cross-Link Polyethylene Marine Flooring Customer Choice Of Color Scheme – Fore Console Logo, Engine Lid, Transom Top, Swim Deck
- 8.1.3. Customer Service Logo Laser Etched In Engine Compartment Lid 8.2. Decals
 - 8.2.1. River Raptor Console Logo
- 9. Additional Options & Accessories Available Upon Request
 - 9.1. 1/2" UHMW Bottom & Side Coating With Steel Plate Reinforcement Around Intake
 - 9.2. Winch (3500 lb Bow Mounted) 9.3. 24V Portable Cordless Winch
 - 9.3. 24V Portable Cordiess W 9.4. Anchor & Anchor Nest
 - 9.5. Fore-Console Or Under Seat Cooler/Seat/Storage Box
 - 9.6. Light Bar Loop Rear Mounted (Customizable Search & Warning Lighting)
 - 9.7. Light Bar Bow Mounted Quick-Detach
 - 9.8. Helm T-Top
- 10. <u>3D Model & 2D Technical Drawings</u>
 - 10.1. A 3D AutoCAD Inventor Model Will Be Made Available Upon Request For Project Approval Prior To Project Construction
 - 10.2. 2D Drawings Will Be Made Available For Project Approval Prior To Project Construction
- *11. <u>Training</u>*
 - 11.1. A qualified, manufacturer authorized and trained service representative can offer training at the request of the customer. This training will be at the cost of the customer.
- 12. <u>Commercial Use Warranty</u>
 - 12.1. Scope Entire Body & Accessories
 - 12.2. Time Period 1 Year
 - 12.3. Guarantee Free Of Original Material & Workmanship Defects









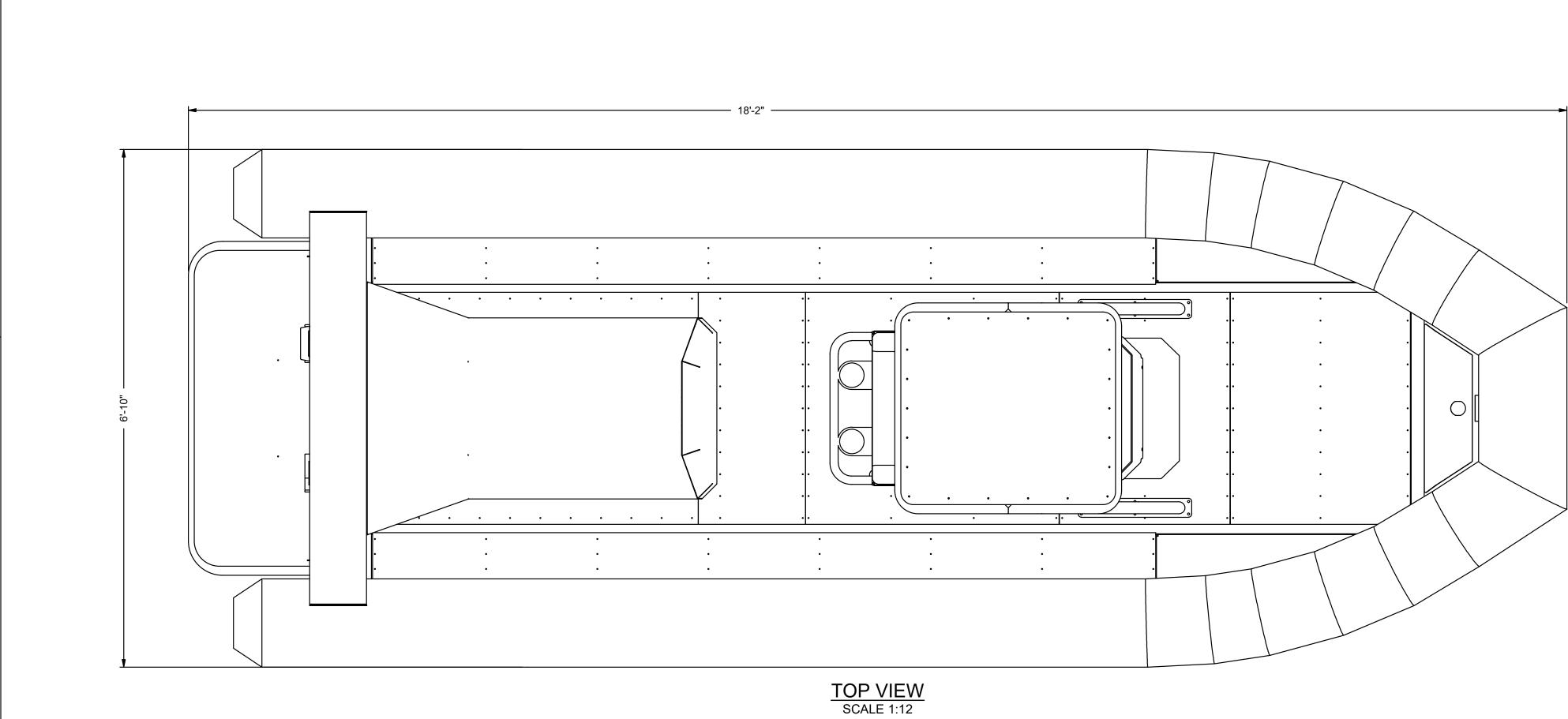




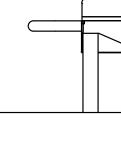


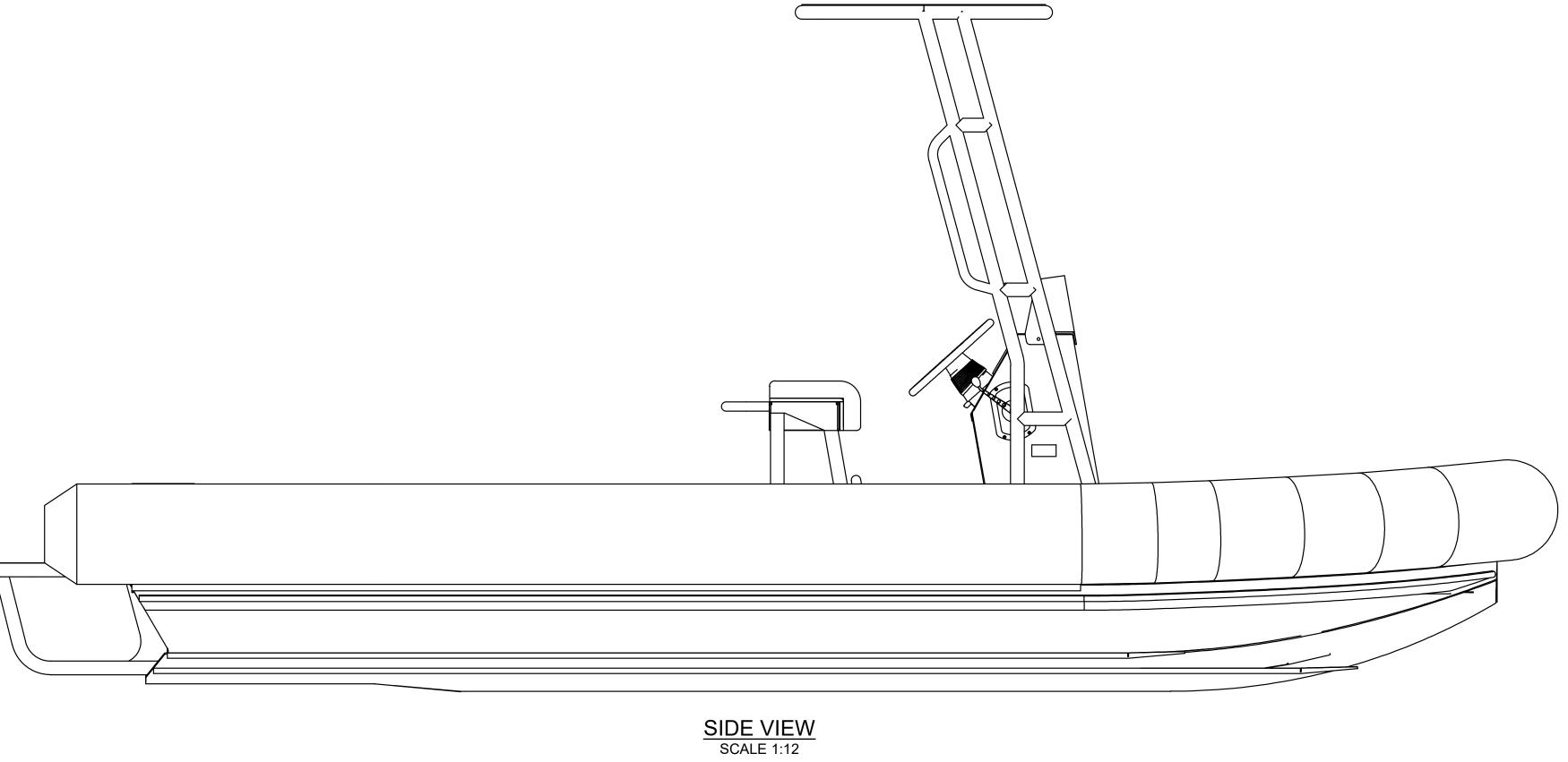






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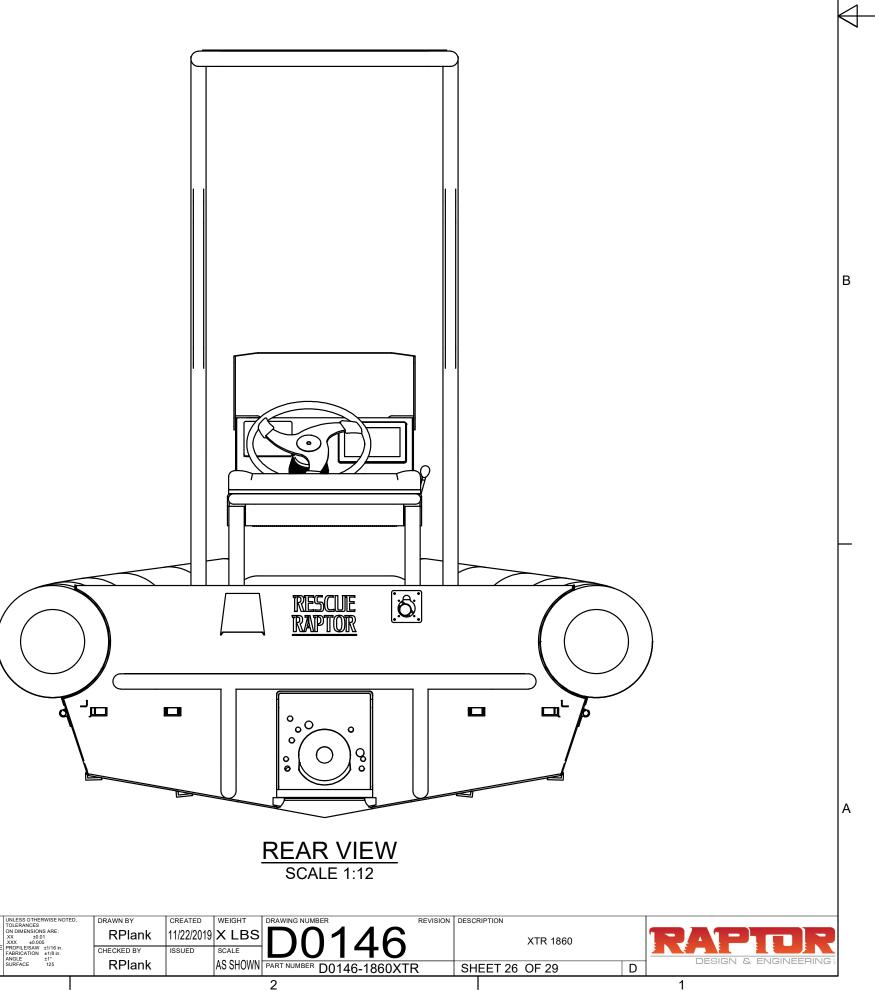




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BUILD DETAILS					
ITEMS	VALUE]			
MODEL	XTR 1860	1			
LENGTH	15'				
WIDTH	60"				
ENGINE	170/300 HP, ROTAX]			
ВОТТОМ ТНК	0.190				
COLLAR MATERIAL	GREY URETHANE				
COLLAR PRESSURE	2.5 PSI				
FUEL CAPACITY	27 GAL.				
BOW STORAGE	STANDARD				
STOMP GRATE	STANDARD				
BOTTOM UHMW	YES				
SIDE UHMW	YES				
AQUATRACTION COLOR	TBD				
BOW COOLER/SEAT	NO				
TRAILER	CUSTOM, DUAL]			





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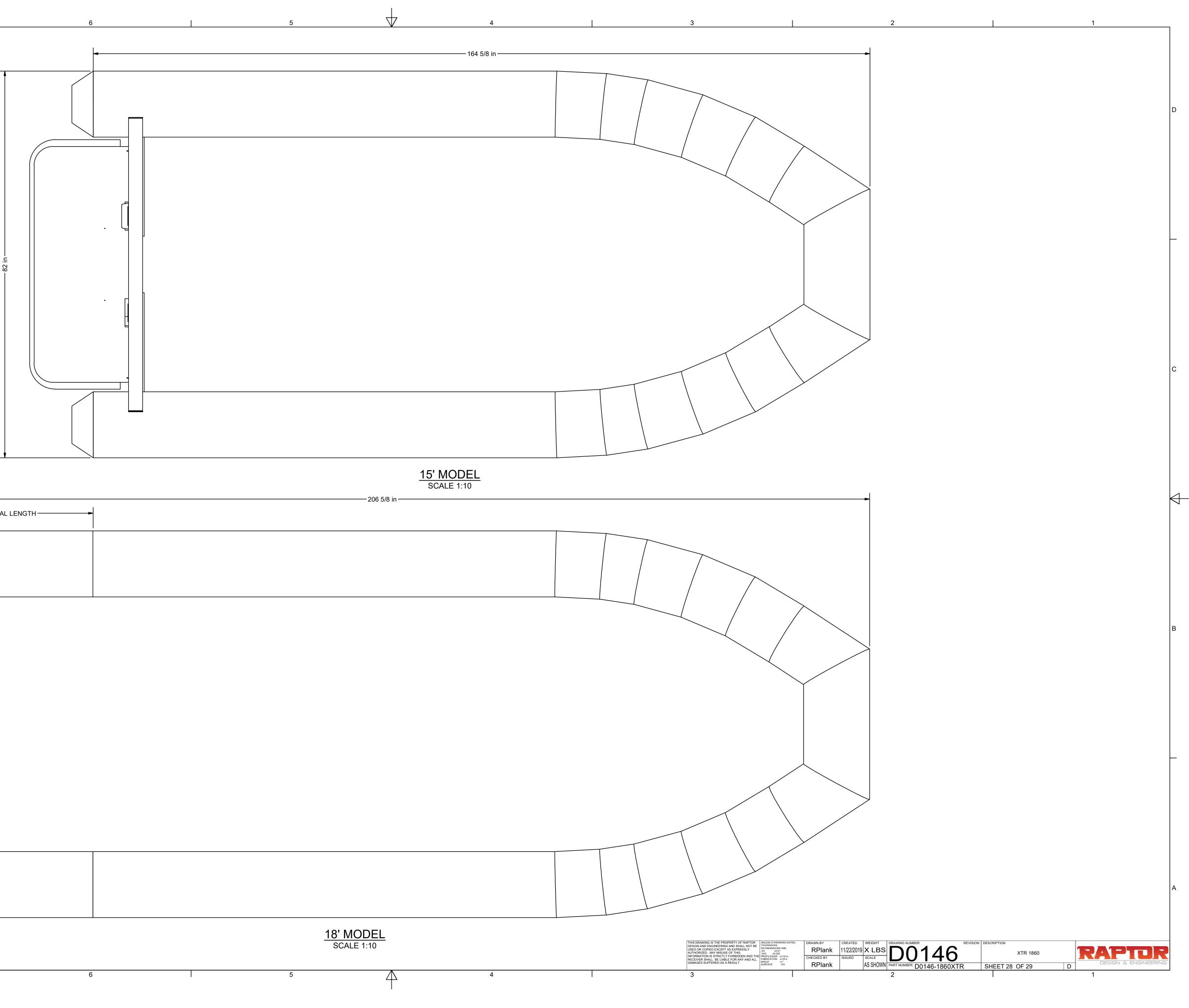
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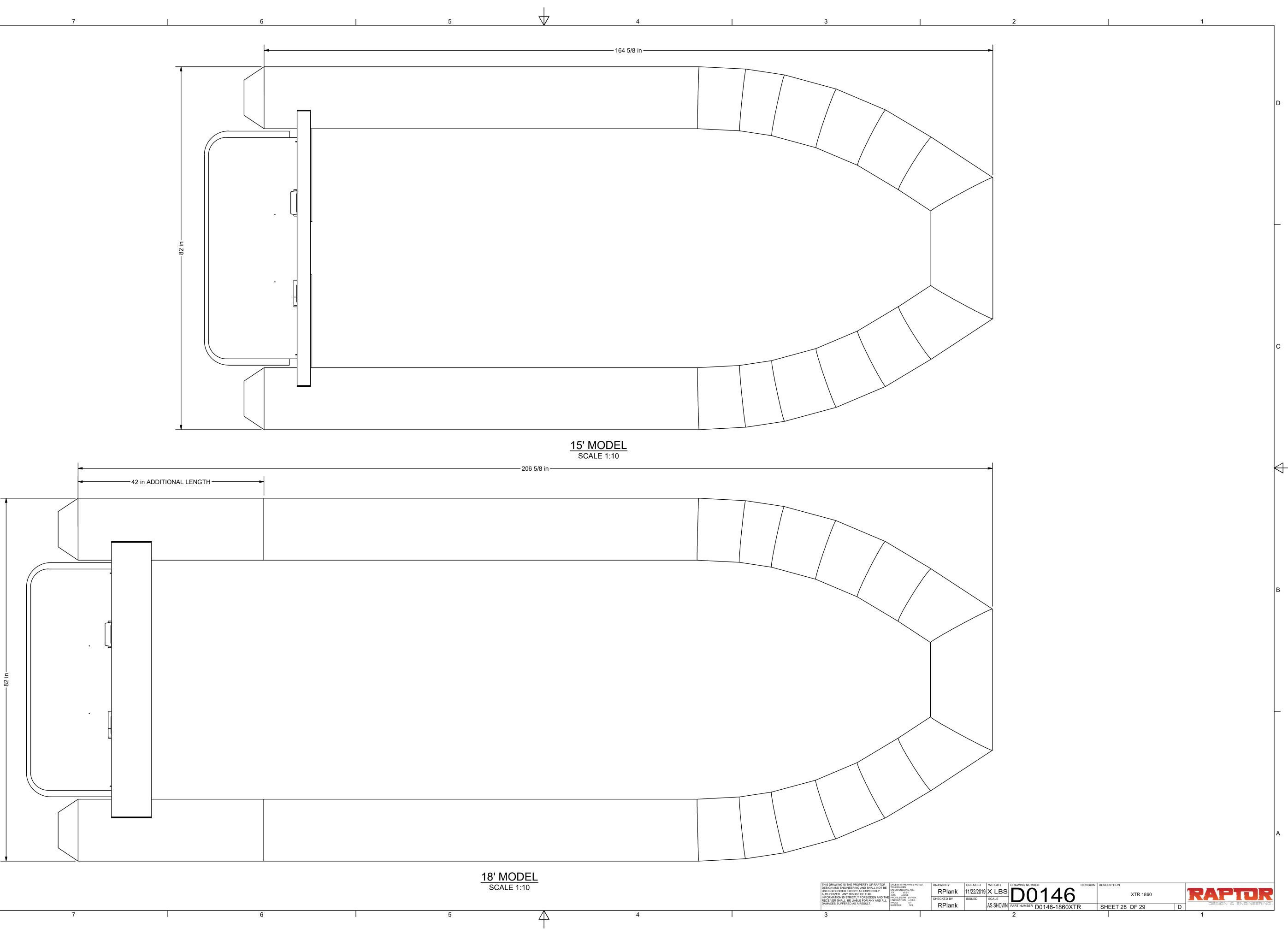
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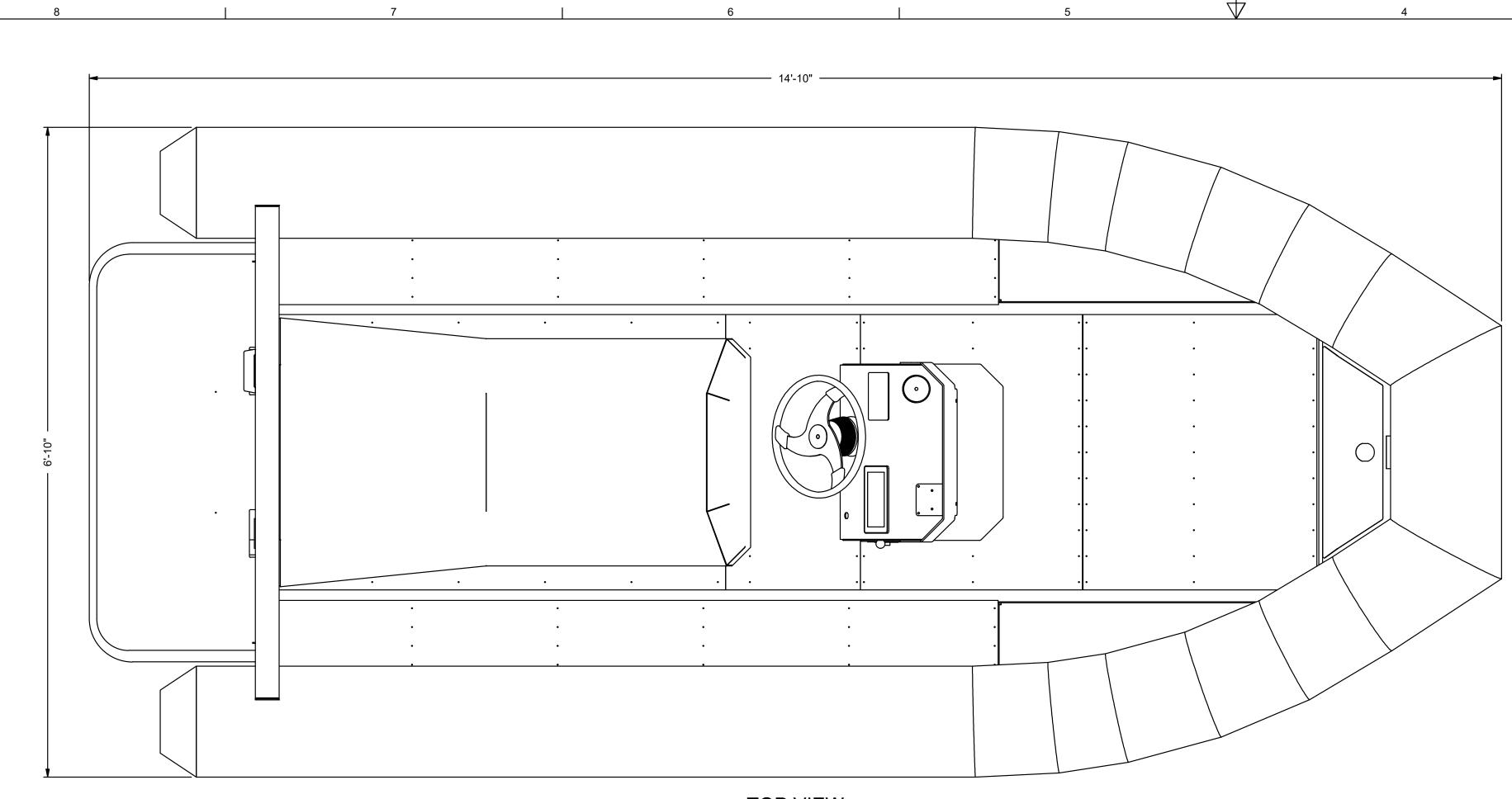
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UNLESS OTHERWISE NOT TOLERANCES GOMENSION XXX 10015 PROFILESSAW 11/16 n. ANGLE 11 SURFACE 125	ED. DRAWN BY RPlank	CREATED WEIGHT 11/22/2019 X LBS	WING NUMBER	REVISION DESCRIPTION			A
±0.01 .XXX ±0.005 PROFILE/SAW ±1/16 in. FABRICATION ±1/8 in.	CHECKED BY	ISSUED SCALE	11/16		XTR 1860		





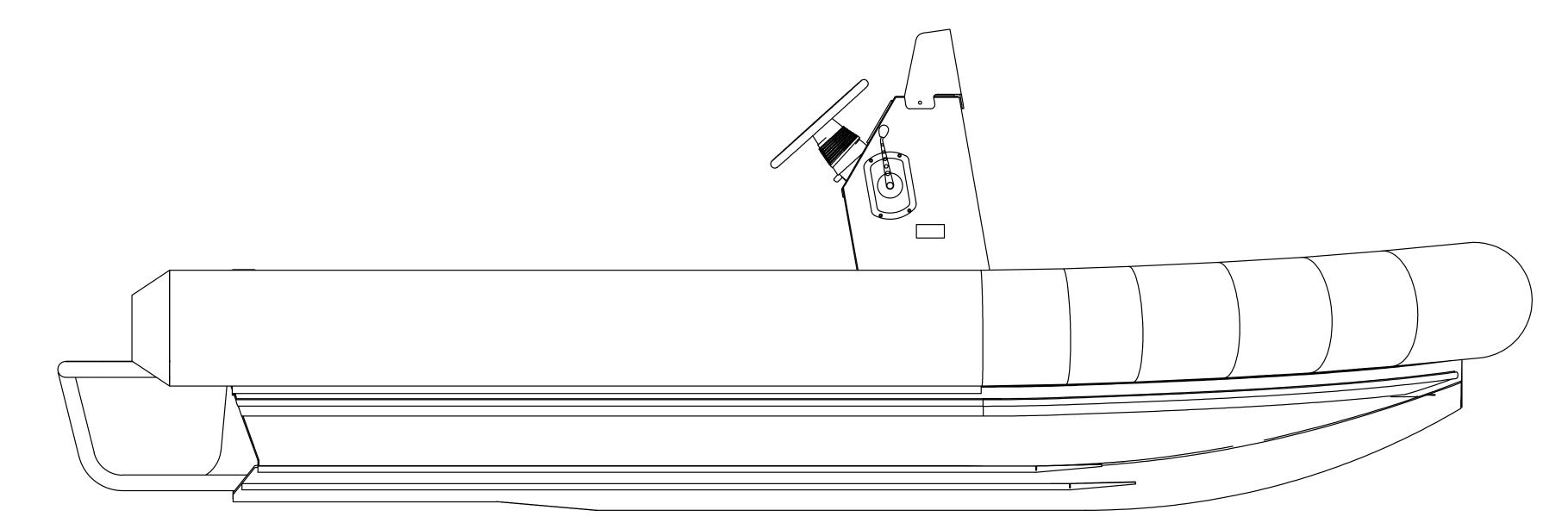
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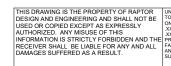




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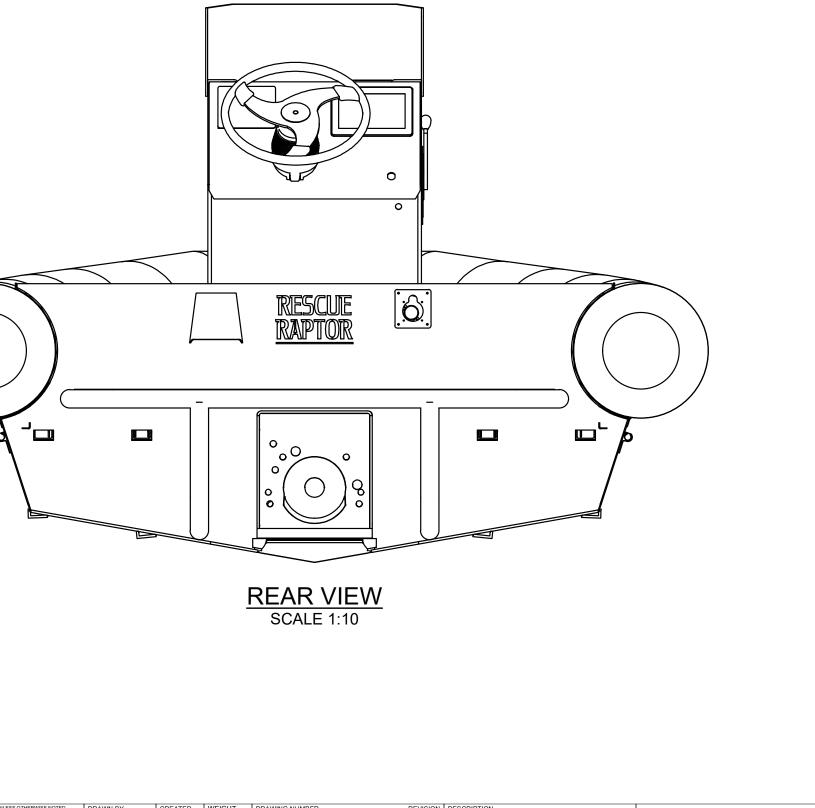


SCALE 1:10



1					
BUILD DETAILS					
ITEMS	VALUE				
MODEL	XTR 1560				
LENGTH	15'				
WIDTH	60"				
ENGINE	170 HP, ROTAX				
ВОТТОМ ТНК	0.190				
COLLAR MATERIAL	GREY URETHANE				
COLLAR PRESSURE	2.5 PSI				
FUEL CAPACITY	20 GAL.				
BOW STORAGE	STANDARD				
STOMP GRATE	STANDARD				
BOTTOM UHMW	YES				
SIDE UHMW	YES				
AQUATRACTION COLOR	CHARCOAL ON RED				
BOW COOLER/SEAT	NO				
TRAILER	CUSTOM, DUAL				

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UNLESS OTHERWISE NOTED, TOLERANCES	DRAWN BY	CREATED	WEIGHT	DRAWING NUMBER	REVISION	DESCRIPTION		
ON DIMENSIONS ARE: .XX ±0.01 .XXX ±0.005	RPlank	11/22/2019	X LBS			XTR 1560		TAPTIC
PROFILE/SAW ±1/16 in. FABRICATION ±1/8 in.	CHECKED BY	ISSUED	SCALE					
ANGLE ±1° SURFACE 125	RPlank		AS SHOWN	PART NUMBER XTR1560		SHEET 26 OF 27	D	DESIGN & ENGINEERING
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