

C028 27ft 10in LANDING CRAFT I.O.
DISCOVERY PASSAGE 28 - 8' 8" CABIN
STUDY PLAN

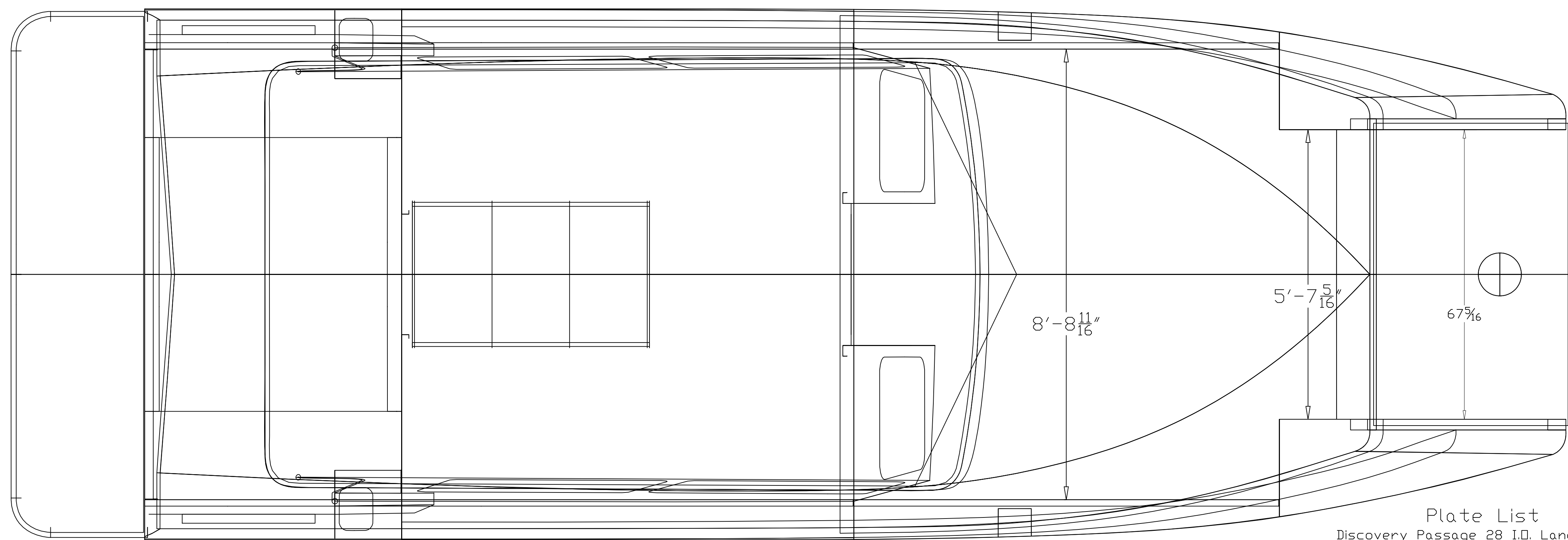
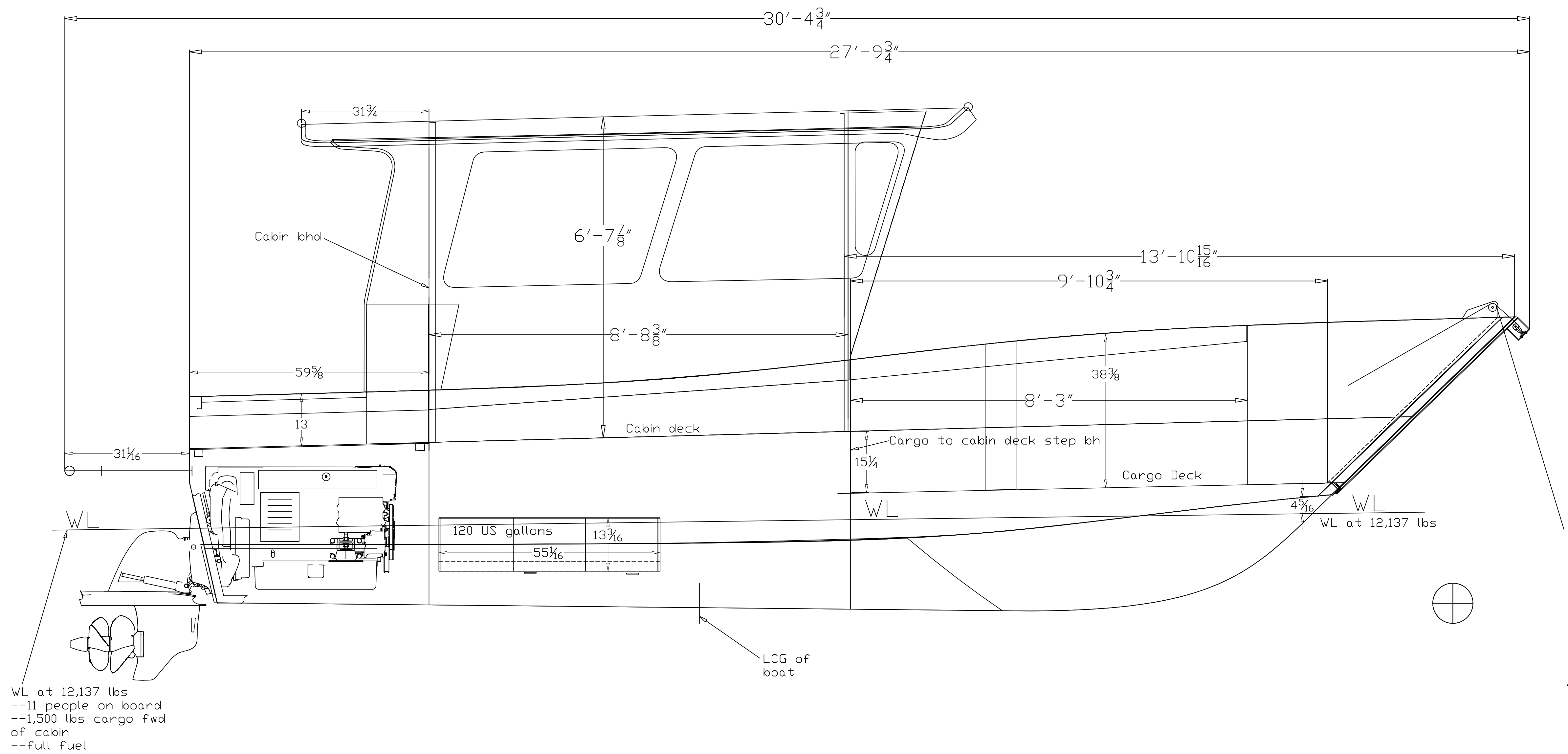
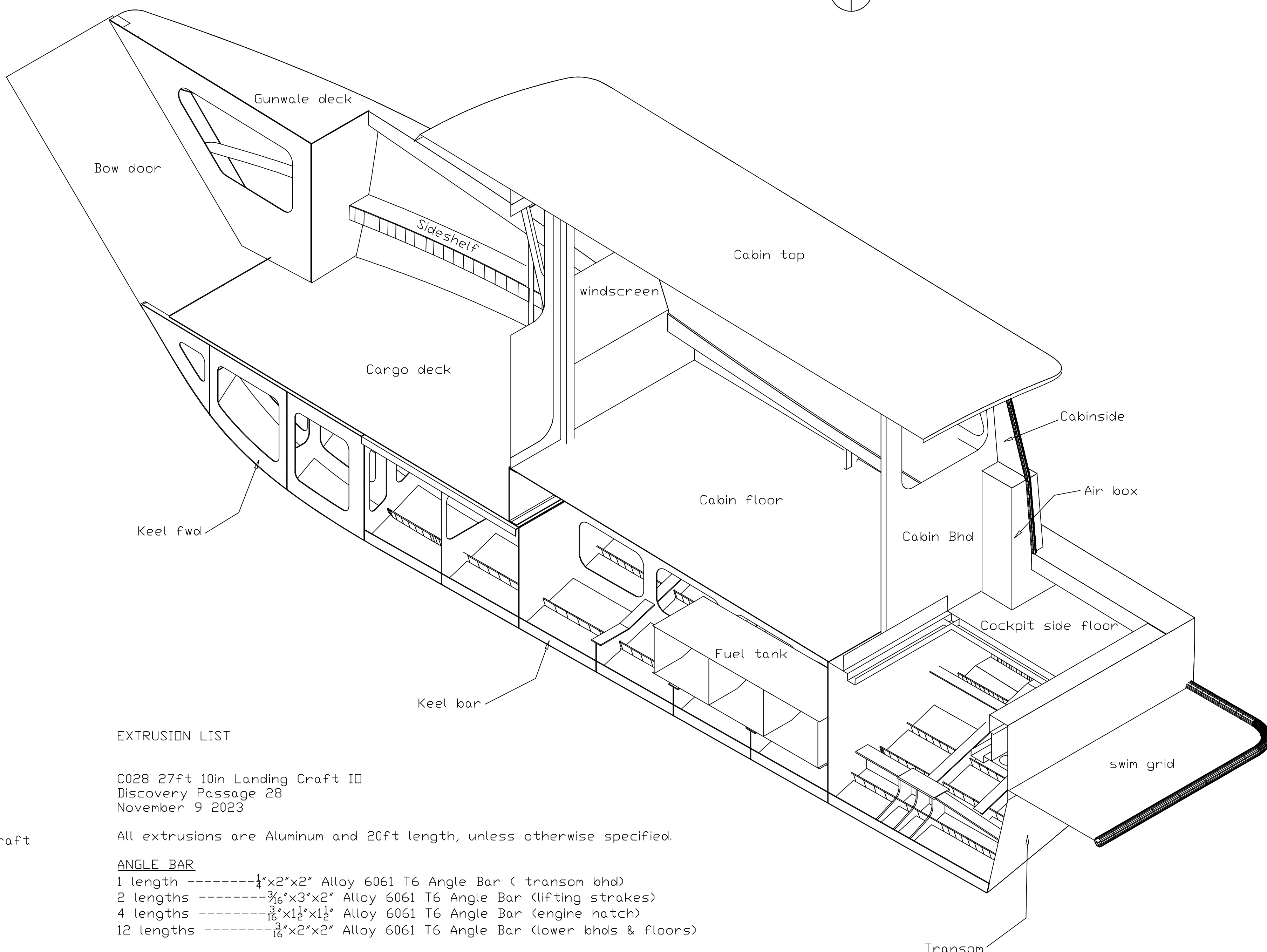
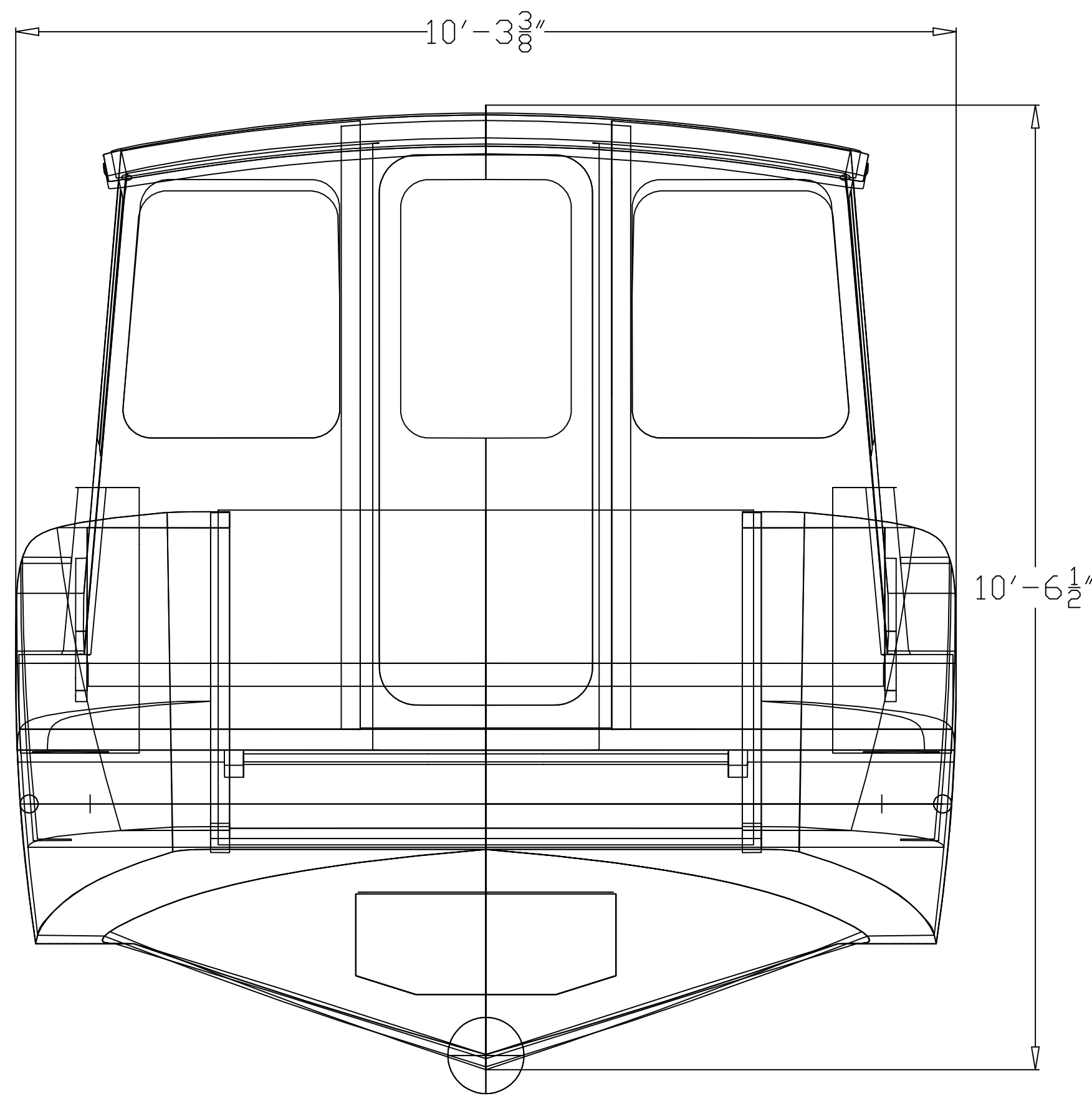


Plate List
Discovery Passage 28 I.O. Landing Craft
Design C028
Single I.O. Diesel Model
May 14-2013
revised November 10 2023

- 3/8" plate-5086 H116
1 sheet 3/8"x5ftx8ft 5086 H116
- 1/4" sheet-5086 H116
2 sheets 1/4"x5ft x25ft 5086 H116
1 sheet 1/4"x5ftx20ft 5086 H116
1 sheet 1/4"x5ftx12ft 5086 H116
1 sheet 1/4"x4ftx20ft 5086 H116
- 3/8" sheet-5086 H116
2 sheets 3/8"x5ftx27ft 9in 5086 H116
- 3/8" sheet-5052 H32
2 sheets 3/8"x6ftx20ft 5052 H32
9 sheets 3/8"x5ftx20ft 5052 H32
1 sheet 3/8"x4ftx20ft 5052 H32
1 sheet 3/8"x5ftx10ft 5052 H32
- 3/8" sheet- 5052 H32
2 sheets 3/8"x6ftx20ft 5052 H32
1 sheet 3/8"x5ftx20ft 5052 H32
- 3/8" sheet- 5052 H32
1 sheet 3/8"x4ftx8ft 5052 H32

There is a total of 25 sheets



EXTRUSION LIST

C028 27ft 10in Landing Craft IO
Discovery Passage 28
November 9 2023

All extrusions are Aluminum and 20ft length, unless otherwise specified.

ANGLE BAR

- 1 length -----1"x2"x2" Alloy 6061 T6 Angle Bar (transom bhd)
2 lengths -----3/4"x3"x2" Alloy 6061 T6 Angle Bar (lifting strakes)
4 lengths -----1"x1 1/2"x1 1/2" Alloy 6061 T6 Angle Bar (engine hatch)
12 lengths -----1/2"x2"x2" Alloy 6061 T6 Angle Bar (lower bhd's & floors)

SQUARE TUBE

- 7 lengths -----1/2"x1 1/2"x1 1/2" Alloy 6061 T6 Square Tube (windscreen & cabinside)
2 lengths -----1/2"x3"x3" Alloy 6061 T6 Square Tube (bow door)
6 lengths -----1"x1"x1" Alloy 6061 T6 Square Tube (cabintop)
3 lengths -----1/2"x2"x2" Alloy 6061 T6 Square Tube (cabin bhd)
2 lengths -----1/2"x4"x4" Alloy 6061 T6 Square Tube (rigging chase)

RECTANGULAR CHANNEL

- 2 lengths -----1/2"x3"x1 1/2" Alloy 6061 T6 Rectangular Channel (cabinside)

PIPE

- 1 lengths -----3/4" sch 40 Alloy 6063 T5 Pipe (handrails)
1 lengths -----2" sch 40 Alloy 6063 T5 Pipe (swingrid)
3 lengths -----1" sch 40 Alloy 6061 T6 Pipe (cabintop)

HALF PIPE

- X lengths -----2" sch 40 Alloy 6061 T6 Half Pipe

HULL EXTRUSION - 25FT LENGTH

- 4 lengths ----- Marine Extrusion Alloy 6061 T6

FLAT BAR

- 1 length -----1/2"x5" Alloy 6061 T6 Flat Bar (engine mounts)
1 length -----1/2"x1 1/2" Alloy 6061 T6 Flat Bar (transom pad)

STAINLESS STEEL ROUND BAR - 12FT LENGTH

- 1 length ----- 1/2" stainless Steel T 316 Round Bar (safety latch)

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Discovery Passage 28
8' 8" Cabin Model

CONSTRUCTION-ALUMINUM---MEASUREMENT-IMPERIAL

Length hull-----27ft 10in
Length OA including swingrid----30ft 5in
Beam-----10ft 6in
Deadrise at transom-----17.9 degrees
Displacement---Lightship---8,272 lbs
Displacement---Loaded---13,126 lbs
Cargo Capacity-----5,000 lbs
Bow door width-----5ft 6-7/8 inch
Power-----Single Volvo D6 330hp I.O.
Designed by A.B.COPE LTD.
Designer-Bruce Cope
June 2013
Revised November 2023

Builder is required to go through the construction drawings to confirm the extrusion list. This list does not include additional material that may be required while building an aluminum boat. This list does not include parts for jig assembly.