



JW DESIGN

X

pininfarina

SIGMA SPEEDBOAT

BY JAKE WILLIAMS

BRIEF:

IN 1969, PININFARINA AND REVUE AUTOMOBILE WITH THE
SUPPORT OF ENZO FERRARI BUILT THE SIGMA.

OTHERWISE KNOWN AS THE PININFARINA SIGMA F1, THE
SIGMA WAS BUILT IN ATTEMPT TO ADDRESS THE CHALLENGE
OF SAFETY IN FORMULA 1.

USING A PERIOD FERRARI 312 F1 CHASSIS COMPLETED WITH
A V12 ENGINE SAT BEHIND THE DRIVER - THE SIGMA F1
FEATURES A FLAT FORM WITH FRONT AND SIDE-IMPACT
ABSORPTION. A STAND UP SPOILER BEHIND THE DRIVER
ALSO PROVIDES ROLLOVER PROTECTION.

DUE TO THE DESIGN OF THE CARS' FORM, I SEE A GREAT
OPPORTUNITY AND CHALLENGE TO DESIGN A SPEEDBOAT
INSPIRED BY THE CAR...

BY ANALYSING THE DESIGN AND IDENTIFYING ITS' KEY
FEATURES, DESIGN A SPEEDBOAT INSPIRED BY THE
1969 PININFARINA SIGMA F1. TAKE INSPIRATION FROM
CIGARETTE RACING BOATS.



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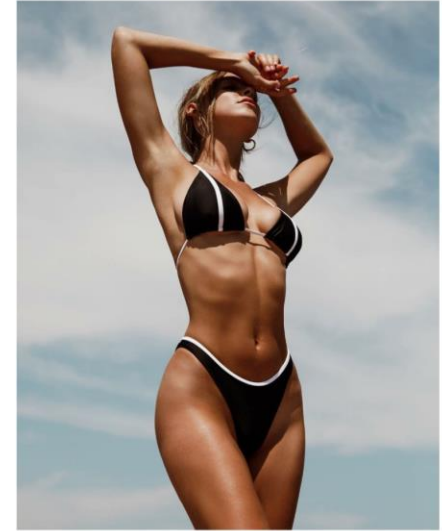
MOOD BOARD:



FAST
DYNAMIC



STREAMLINE

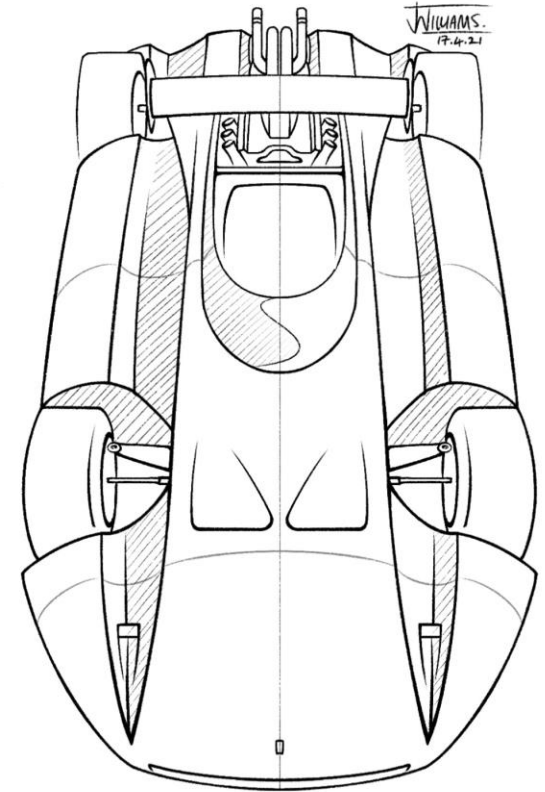
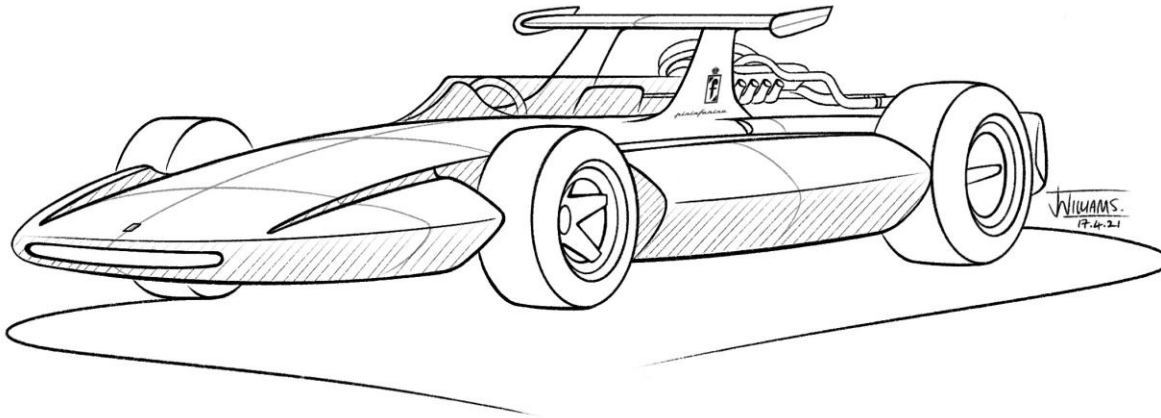
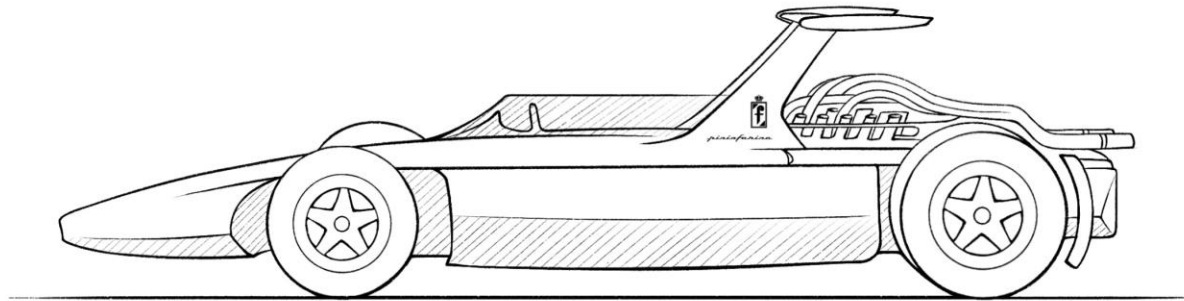


ELEGANCE



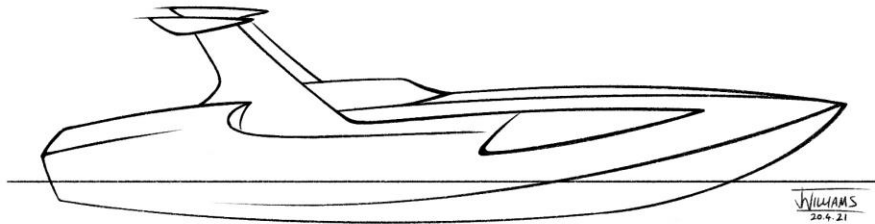
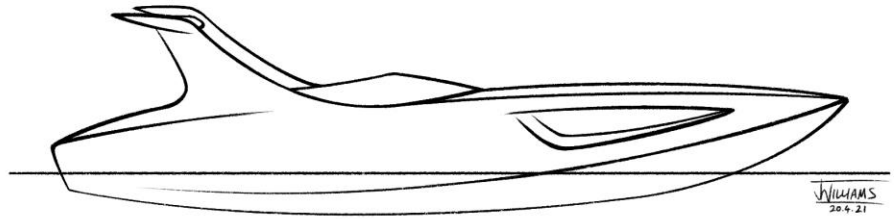
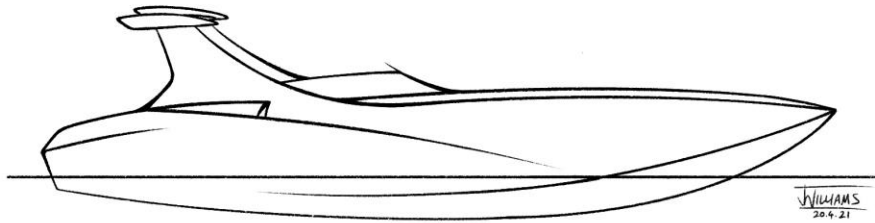
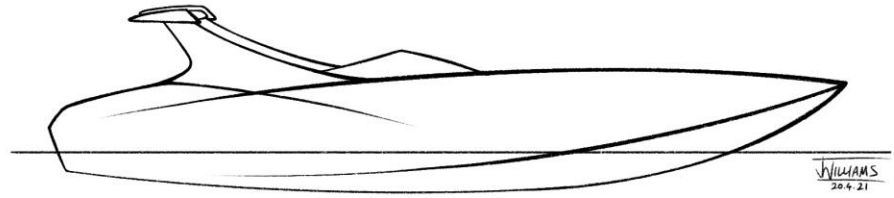
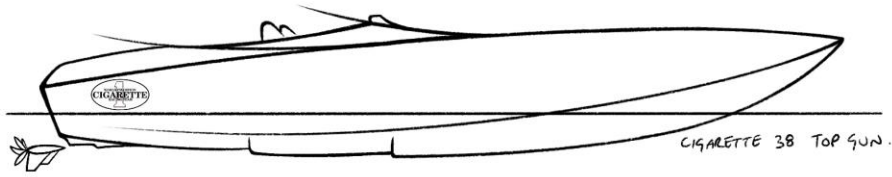
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PININFARINA SIGMA F1:



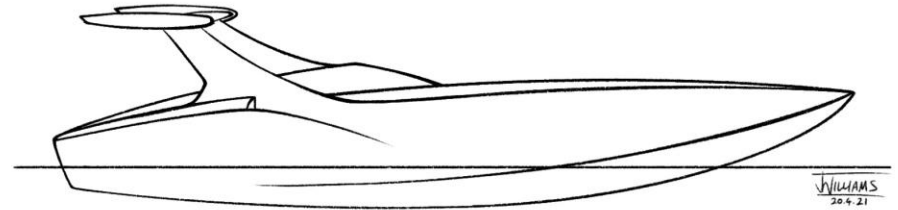
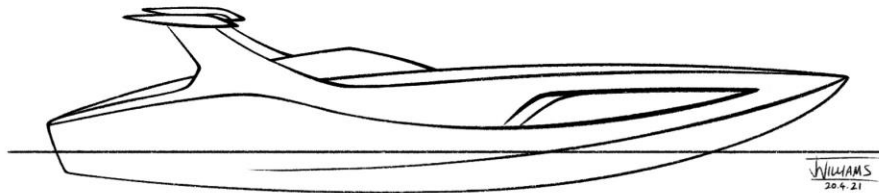
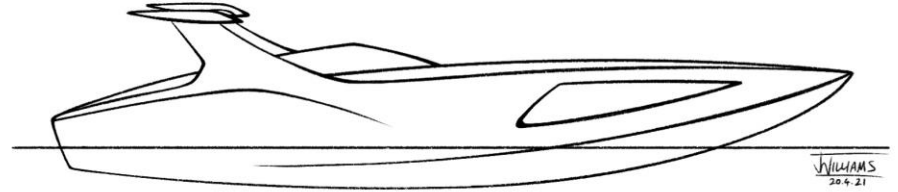
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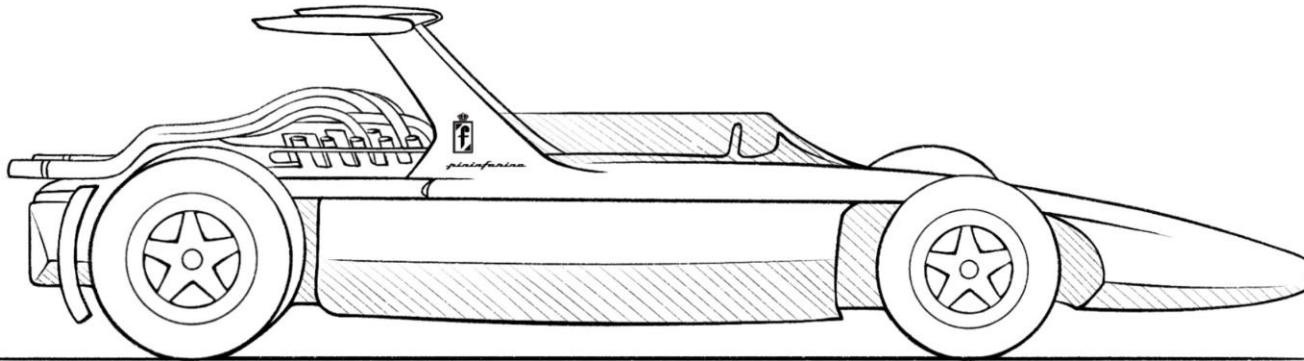
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DEVELOPMENT:



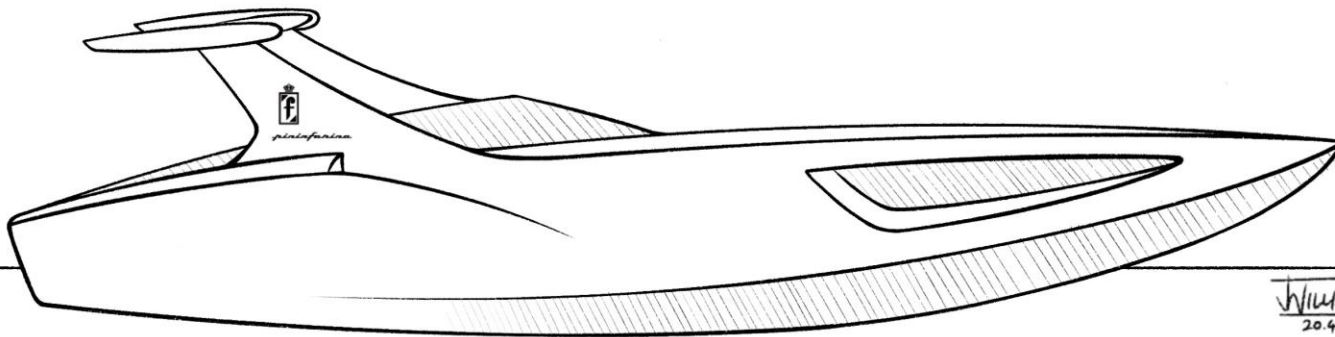
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PROPOSED DESIGN:



PININFARINA SIGMA.

WILLIAMS.
17.4.21

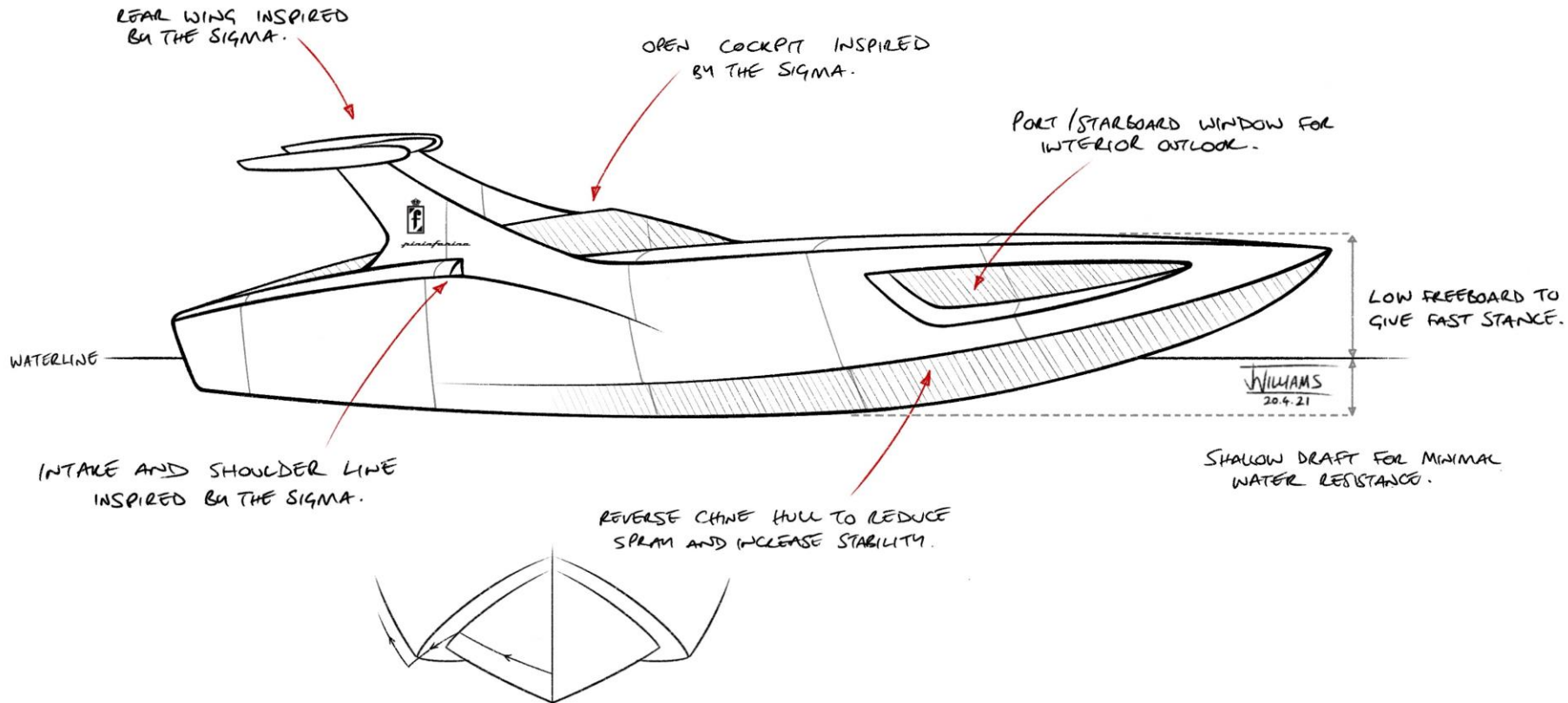


WILLIAMS
20.4.21



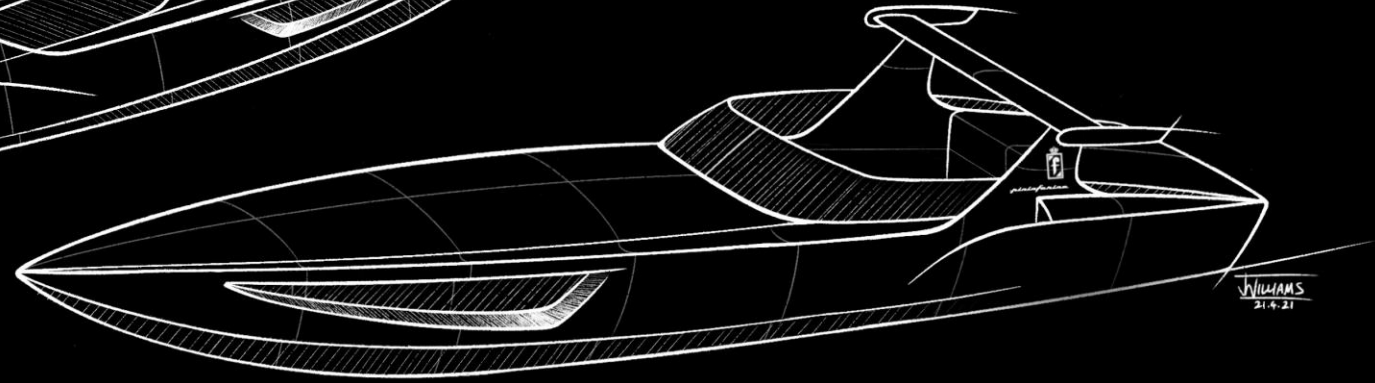
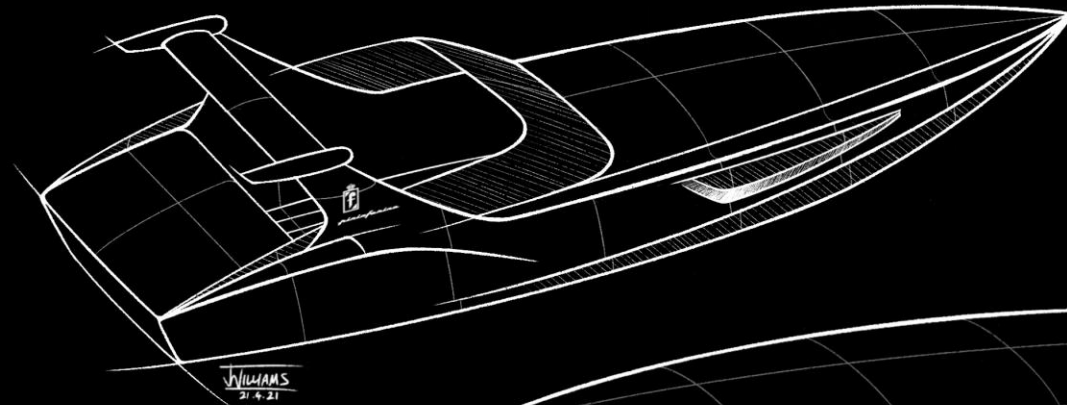
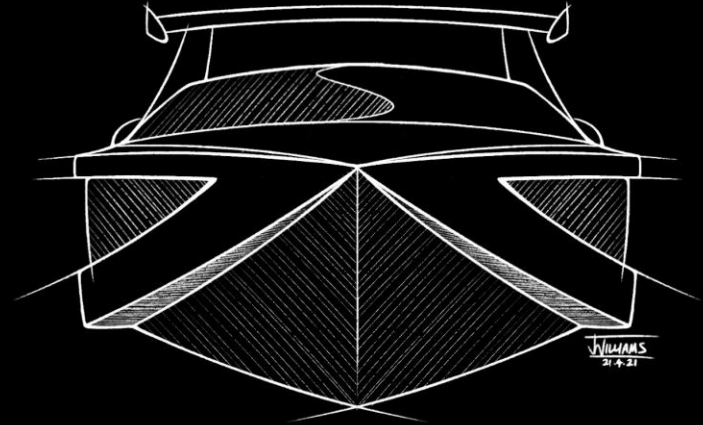
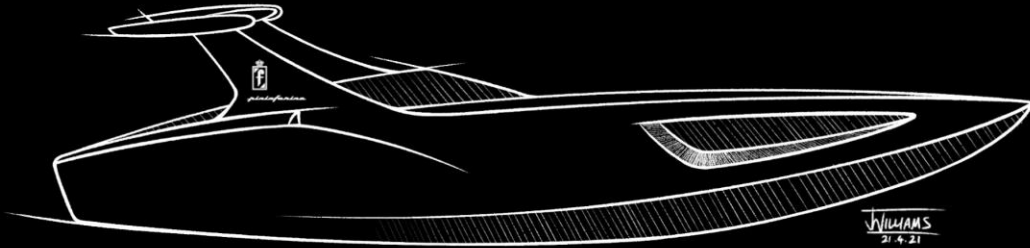
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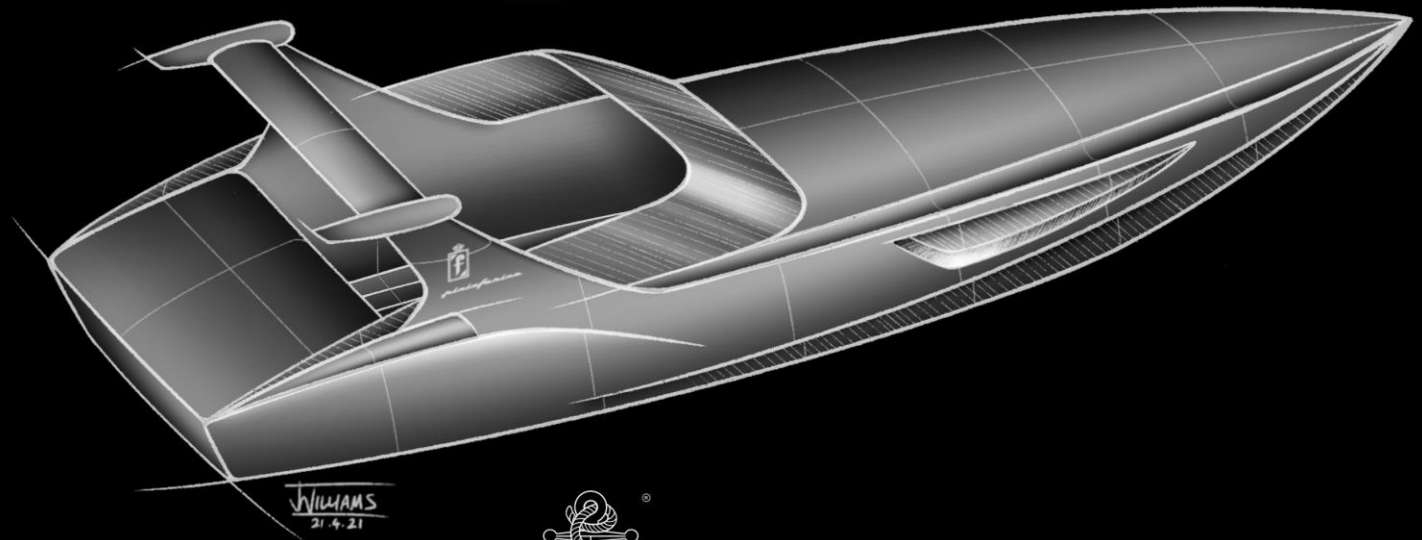
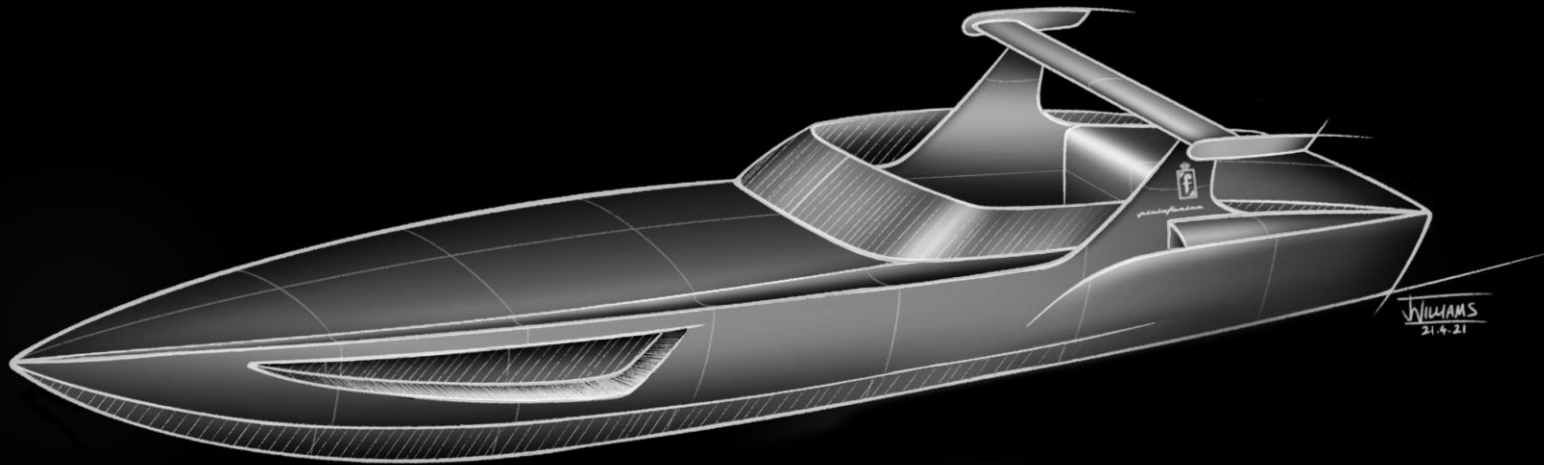
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PININFARINA SIGMA 38FT SPEEDBOAT:



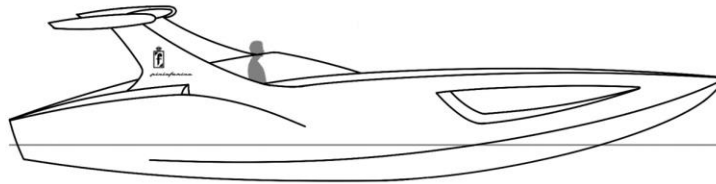
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PININFARINA SIGMA 38FT SPEEDBOAT:

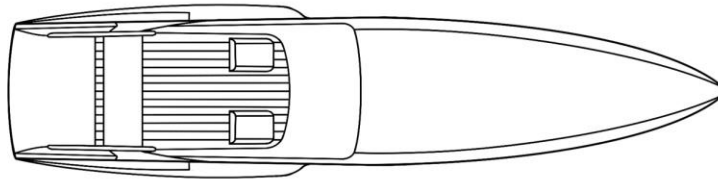


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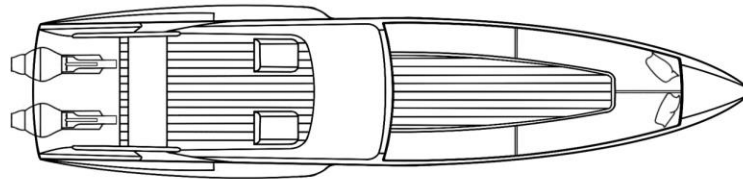
LAYOUT:



PROFILE



MAIN DECK



LOWER DECK



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SPECIFICATIONS:

HULL DESIGN:

~REVERSE CHINE
(REDUCE SPRAY / INCREASE STABILITY)

*JET CAN CAUSE MANOEVRING DIFFICULTIES :.
REVERSE CHINE NECESSARY FOR BALANCE AND PLANING
STABILITY*

~SHALLOW DRAFT
(MINIMAL DRAG TO ENHANCE HIGH SPEEDS)

CIGARETTE BOATS NOTORIOUS FOR SHALLOW DRAFT

~REAR WING ANGLED DOWN
(GENERATE LESS LIFT AT HIGH SPEEDS TO PREVENT BOW
LIFTING AND FLIPPING)

DRIVE CHAIN:

~2x FUEL INJECTED IN-BOARD JETS
(450HP EACH REACHING 3500 REVOLUTIONS PER MINUTE)

*JET PROPULSION IS MORE WILDLIFE FRIENDLY DUE TO
REMOVAL OF PROPELLER DANGER*

JET PROPULSION LOSES LESS ENERGY THAN PROP MOTORS

*JET PROPULSION DOES NOT CHURN UP SEA/LAKE BED AS
MUCH AS PROP MOTORS*

MATERIALS:

~DECKING MADE FROM GUADUA BAMBOO DECKING
(PALE BROWN SUSTAINABLE DECKING)

*SALUTE TO THE AESTHETIC OF THE 70's ERA WOODEN
BOAT MANUFACTURING*

*SUSTAINABLE - ONE GUADUA PLANT PRODUCES 10 CULMS
PER YEAR*

*GUADUA LIGHTER THAN TEAK :. NECESSARY FOR ACHIEVING
THE HIGH SPEEDS OF A CIGARETTE BOAT*



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