

Primary force lines - load paths
are lines - local shapes
thrust/strain



KITESHIP

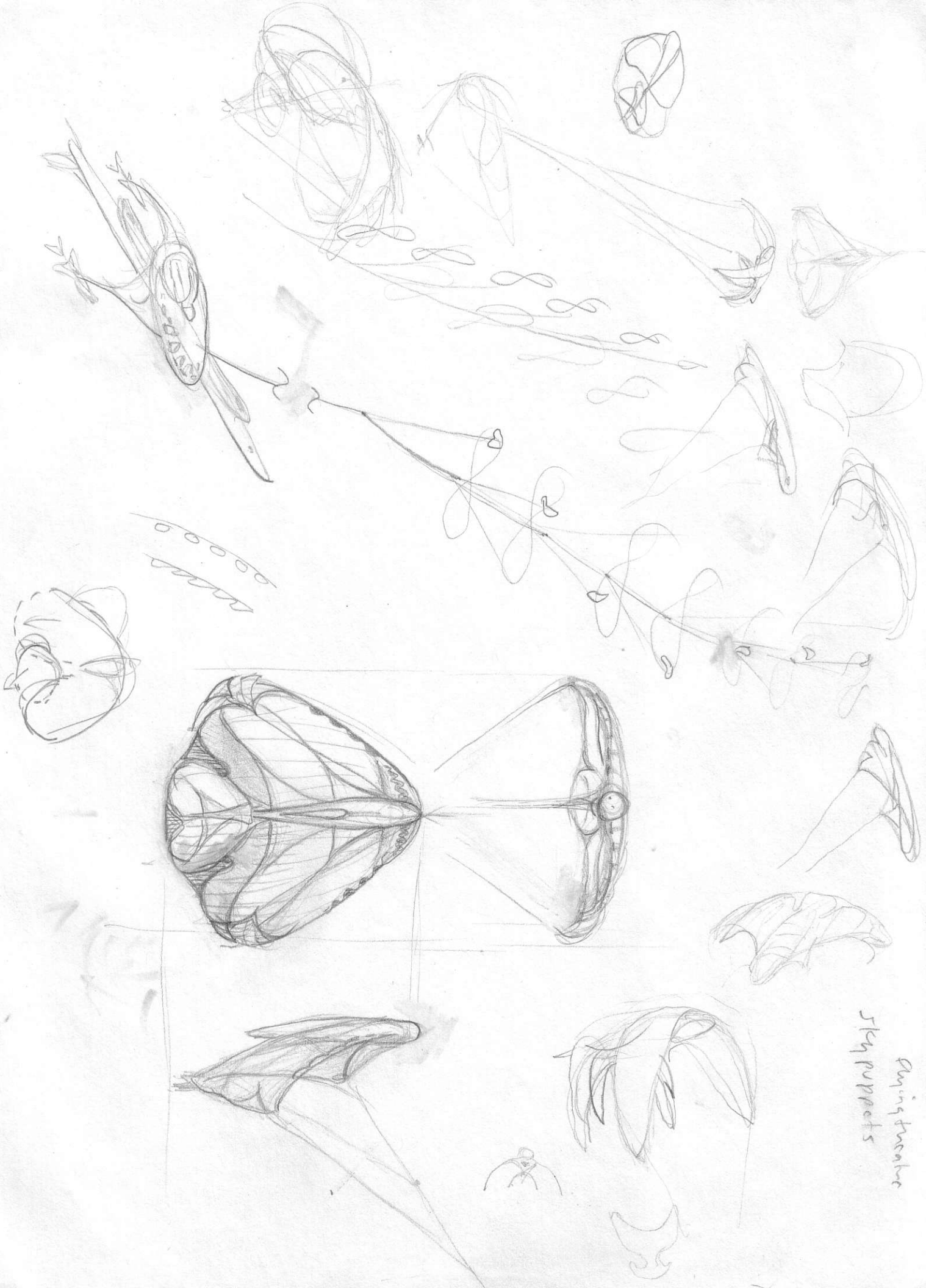
LE

mesh
teeth

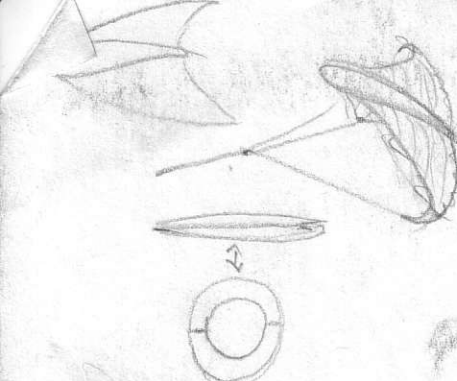
mesh
teeth

Aot v.
porosity

load paths
porosity
04/9



Playing the role
5 leg puppets

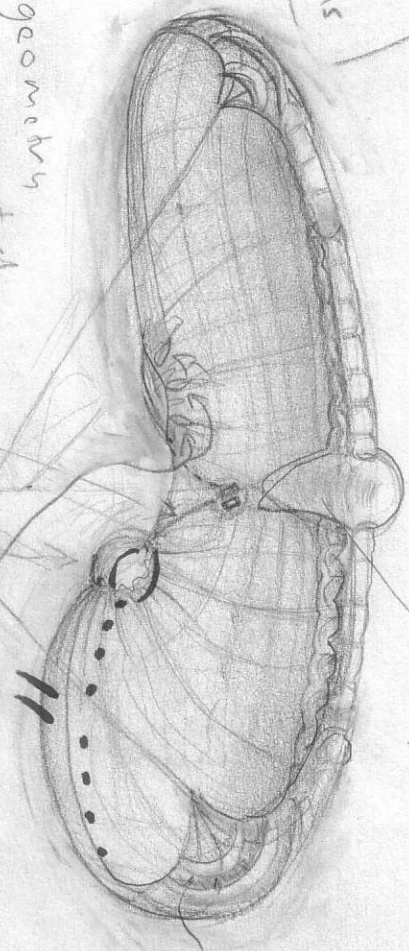


graw
furling
gear line climber
as wind freshens

multiple
pulser joint
multifaceted
to sum

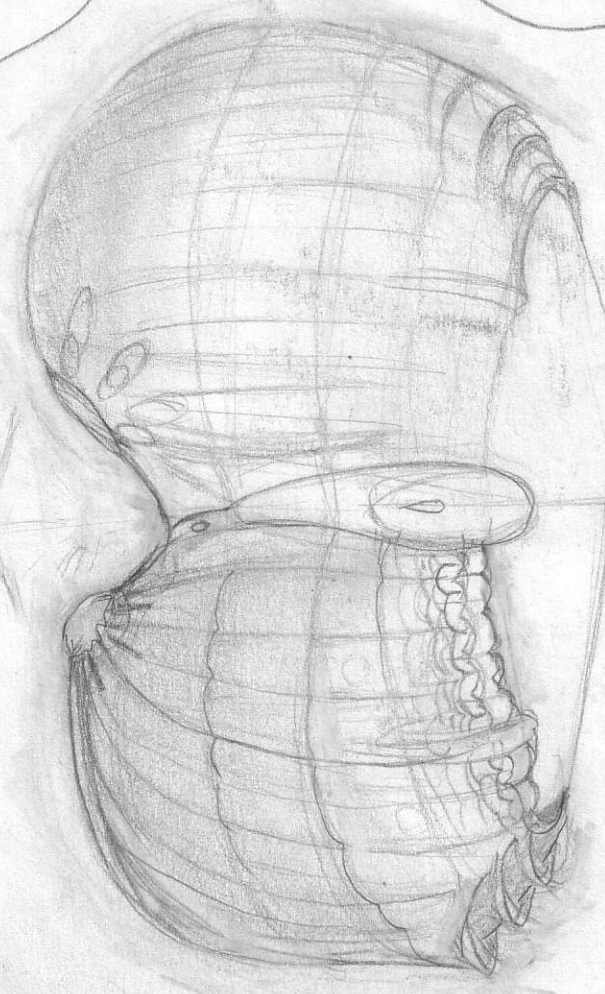
geometry
exaggerated
for clarity

keel
forms
upon
rotation



LTA flexas

mesh



swamp frog
as fruit
of line
length

1/4" x 1/2"
oval
hole
in sand rail

soft
~ "football pressure" 25 psi
ducted fans low psi air pump
pressure relief valves?

all lines
color coded
indented lead
padding

"solid state" tail-tales



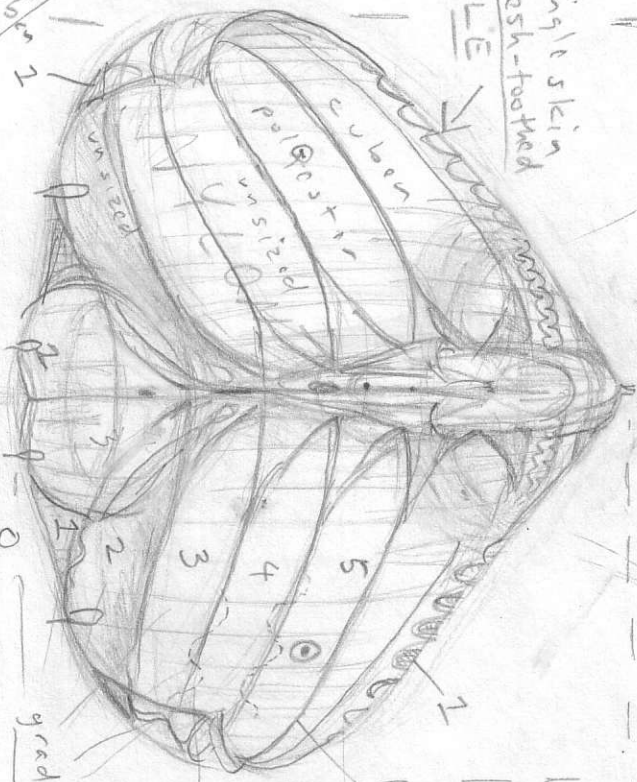
* lighter kite
will go faster
turn faster
brake faster
* single skin?

so going
kite faster
see details



- 1 mesh
- 2 mesh
- 3 steel
- 4 & 5

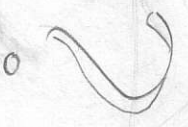
single skin
mesh-footed
LE



graded porosity

"lazy" porosity borders

Carbon load paths



LTA bag
camber

quasi-crystal rip-stop

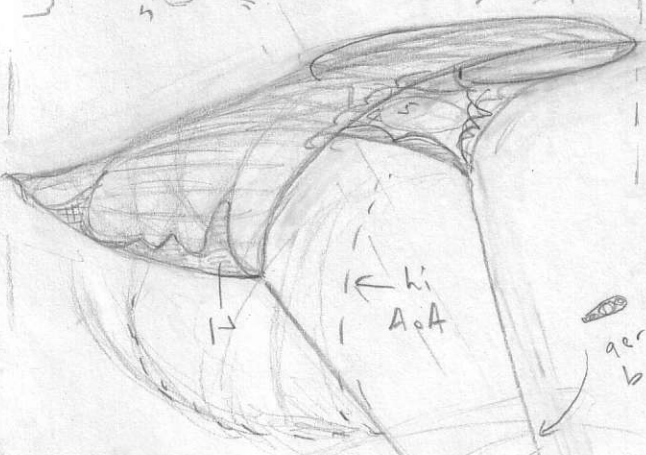
high AoA

low AoA



acrolite
bridle
kittling

Soft Delta
Concept



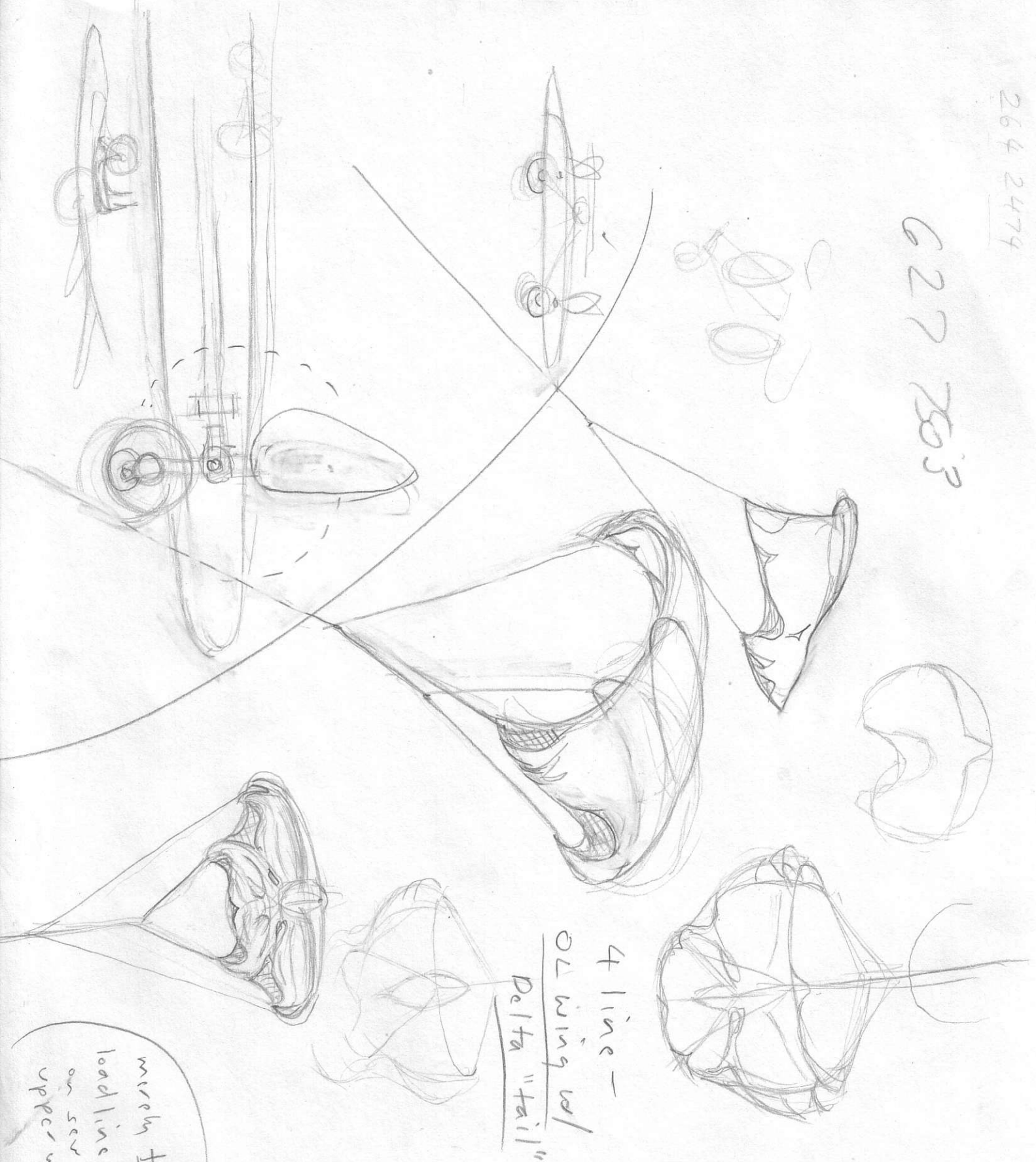
high AoA

wat your grand-
mother's Pan Commander

WHP

264 2474

G27 7503



4 line -
 on wing w/
 Delta "tail"

mirrored tapes
 load lines
 on seam
 upper wing?

On the "human scale", that is, what one can see to do manually, * scaling laws can be temporarily ignored, the crudest approximation to truth already starts to work, the rest is "tuning".

* a ~4 order-of-mag scale

the 11-12' space

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Alex Liece @hotmail.com

CH



In Panted
beech
1inc

or perfected
slacker culture, creative
productive even,
pseudo militant
slow-time fashionistas
living tangible revolution,
the festival lifestyle, woman looks across a festive planet

zero or
reverse
dividual

with
wars

0.2. as
etc parameter
gen

argumented
with 1st/2nd for
weight shift

parallel plane
line plane

OL or address
displayed/
reversed
in mid
air

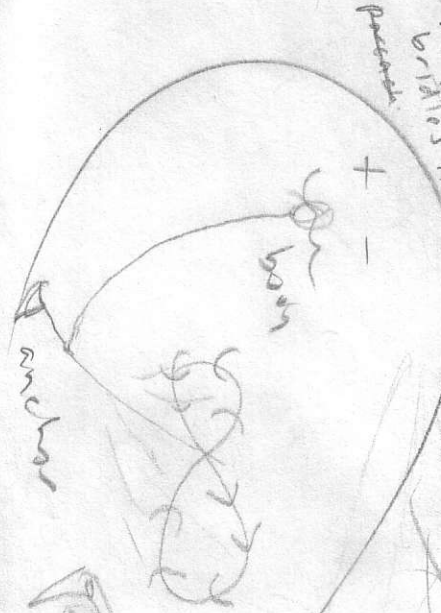
UPPER
LE works for motion helps
spanwise variable porosity

LE Under Body
rippled fill.

variable porosity
scale



restacking - out pilot stack
meshed bridges like pilot stack



open porosity



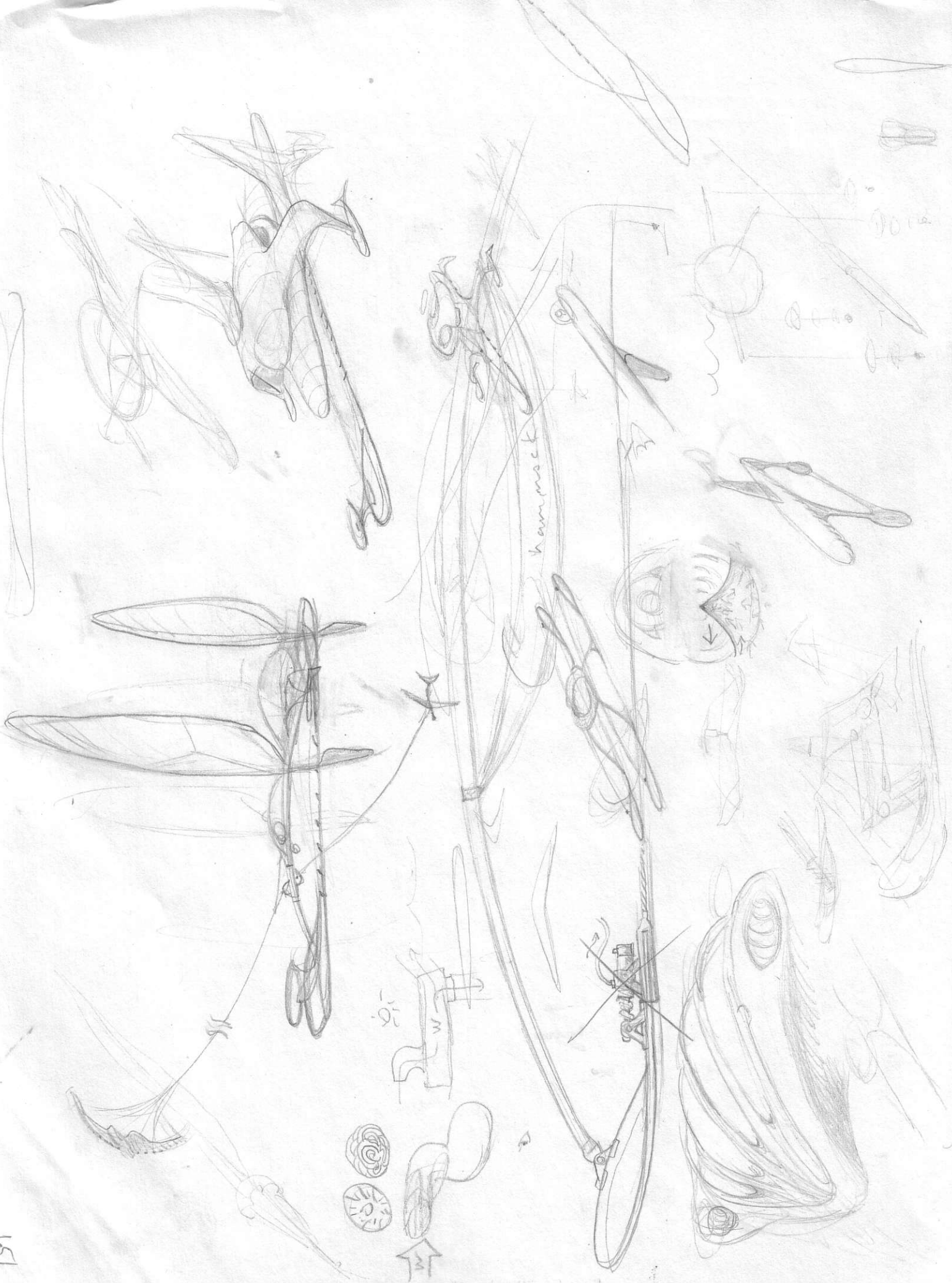
wash
separate load from flow at clews

litter with
balls
teach 5 voices

TOP

Inverted Cambor Prototype
II

3/07
Alameda



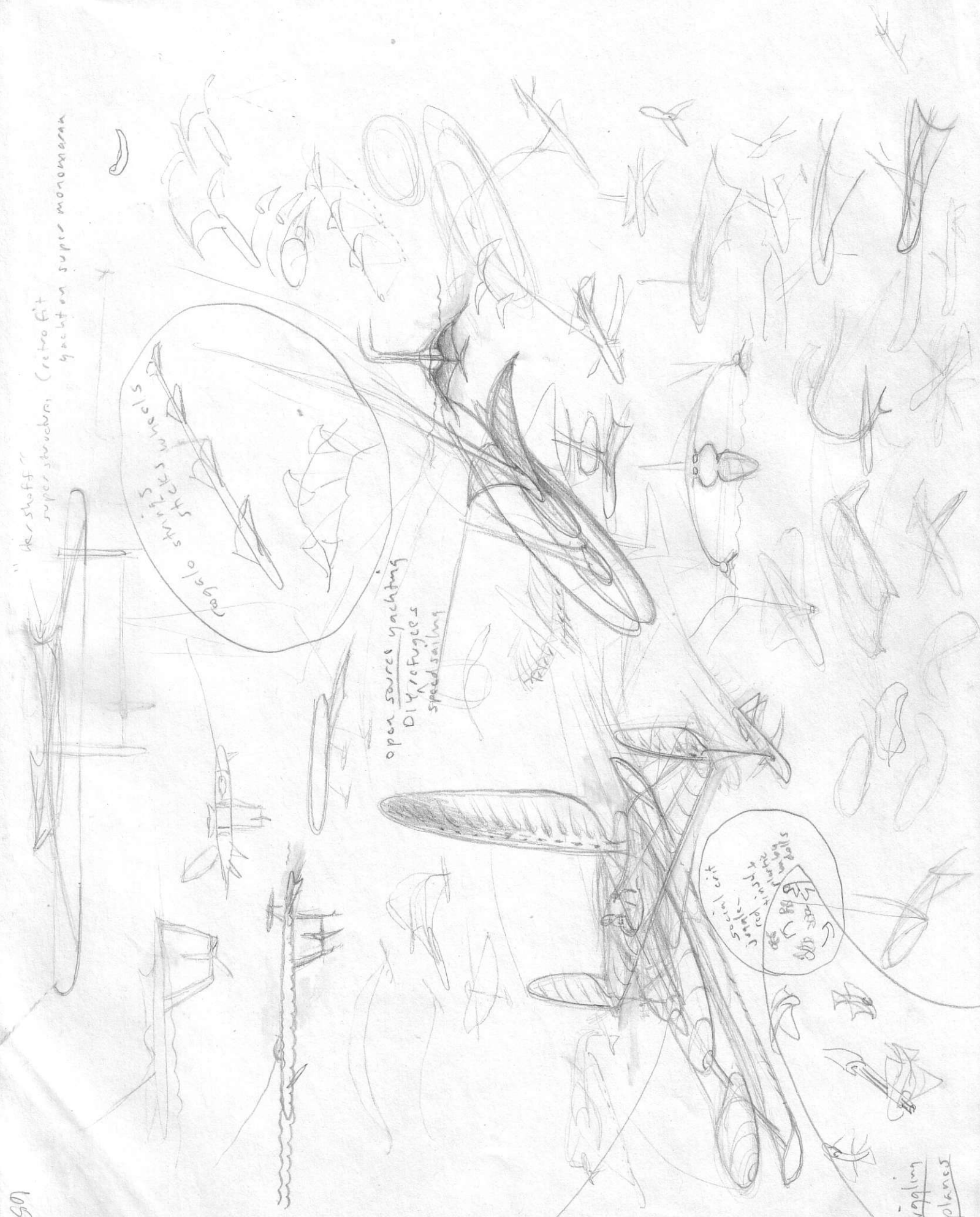
Her shoff
super structure (retro fit)
yachten super monomanna



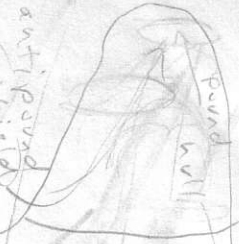
open source yachting
DIY refugees
speed sailing



juggling
planes



Compliments, power from
anti powdering
power gun

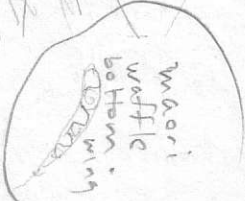


anti powdering

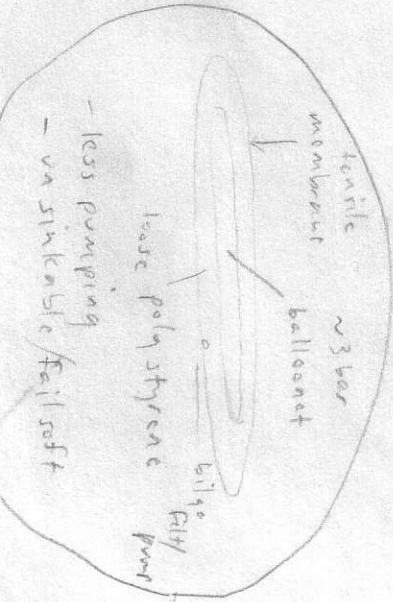
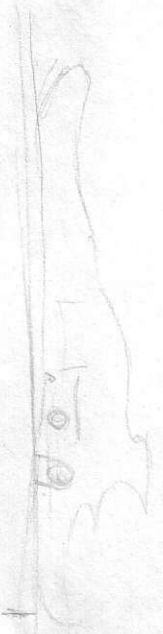
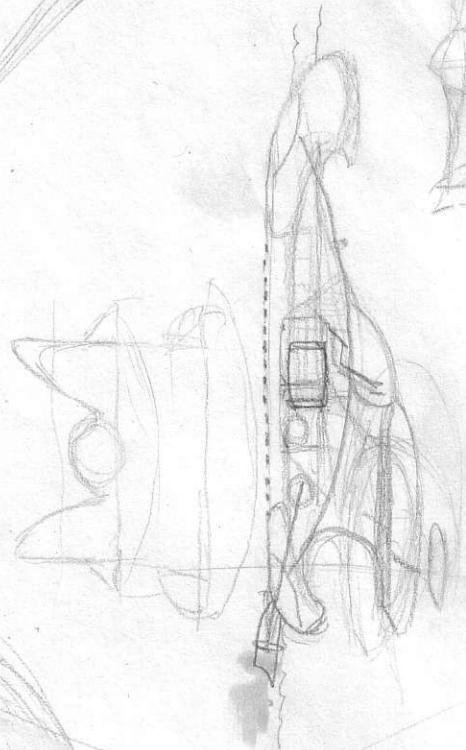
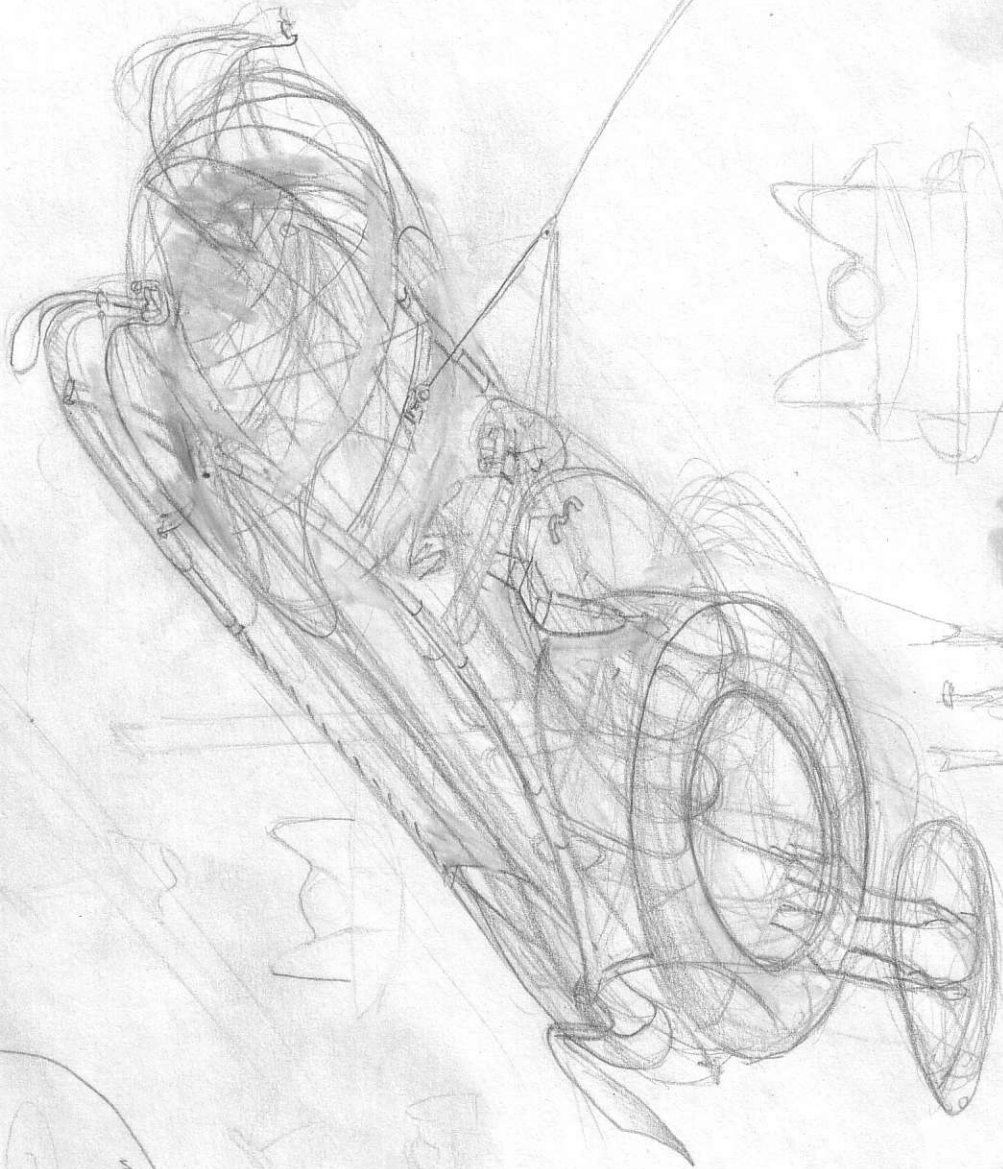


compressed air extracting
forward water shoe at sea

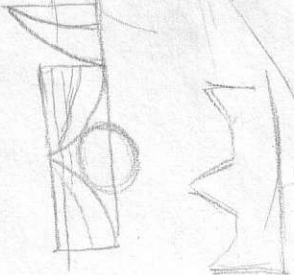
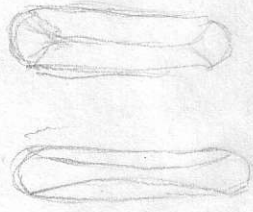
Sea Mammal
Tribe



Maori
waffle
bottom
drawing



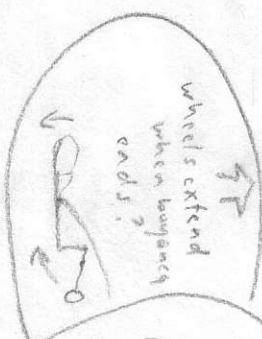
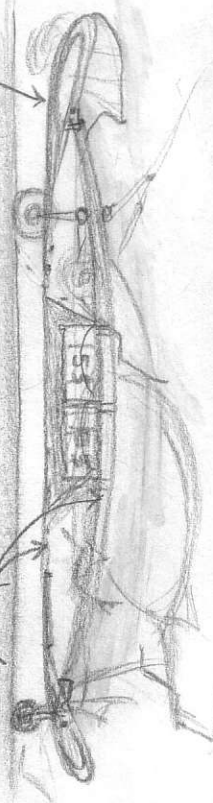
first boat
 to see steel
 semi-inflated



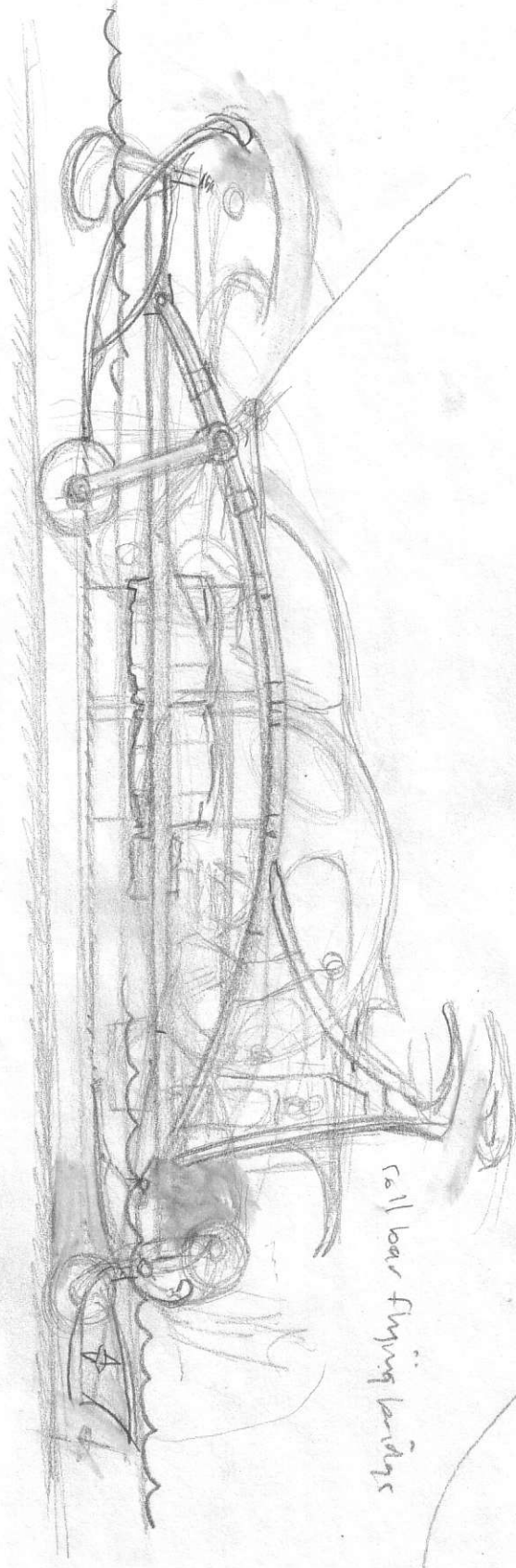
Al nuts?



skibow



coll bars flying bearings





vortigen
Semi porous
single skin



landing bird as model
of hi D/low L
cruising bird of low D
Hi L

Stability & efficiency
can improve together
up to theoretical limits
app'ly brakes to LE stall collapse

Mod 5 control bar as wing

vortigen, vortilan, dogtooth
notch,

spoileron as in PC

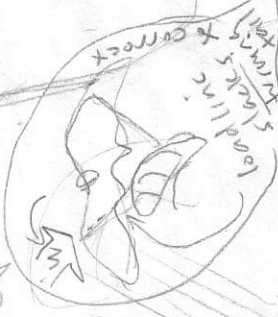
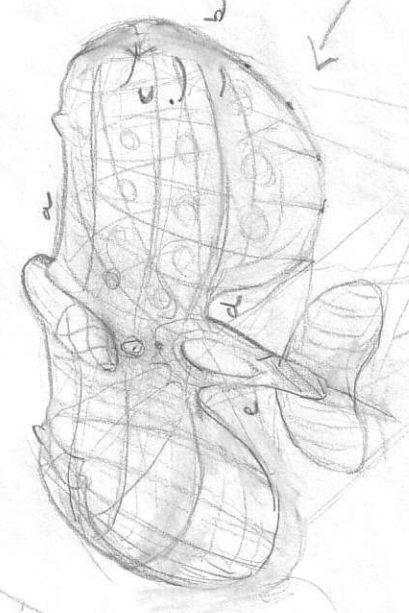
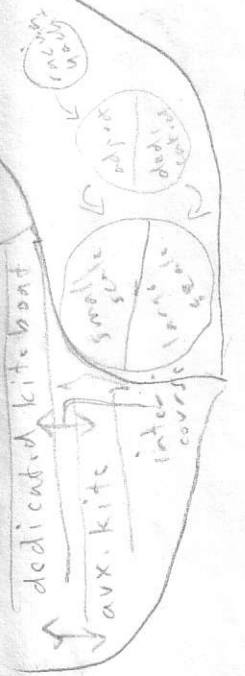
PC trier ^a cut LE ventral
^b ears ^c rear

ram-air
tool-kit
battens etc,
vortigen stabilizers
main spar
spoiler

why all birds
have tails, the slower
the bigger/longer

get control
payload #
(gr. per sq. m)
more aerobatic
the bigger / longer

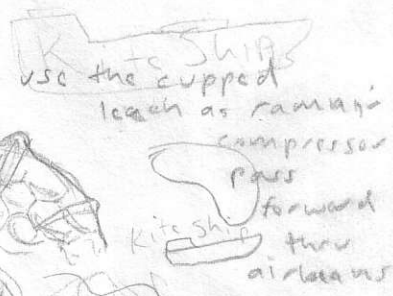
rudder/eleven less
drag than spoileron
turns



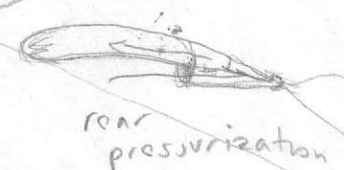
CULP
(925) 550 6738
(512) ~~76~~ BS
276-4140

5 AVE OR MONOMARAN

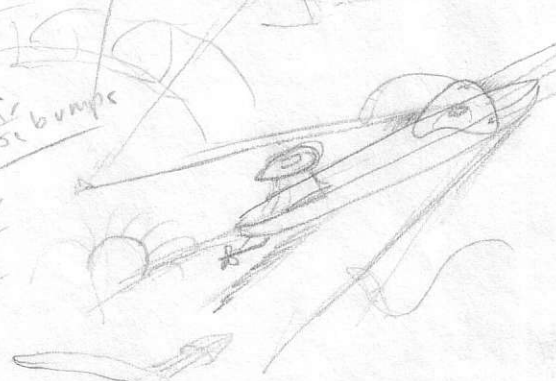
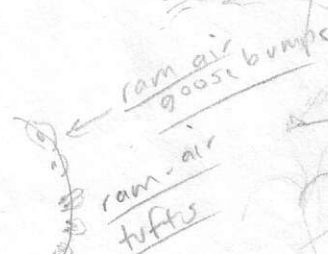
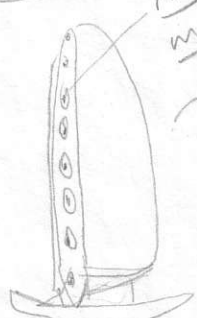
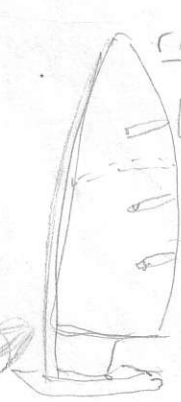
Radical
Sieakite
Collective



REVOLUTION

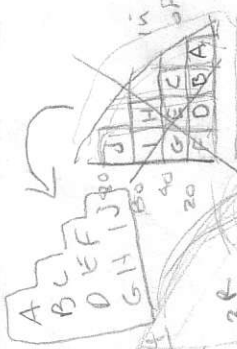
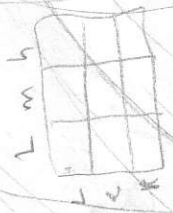
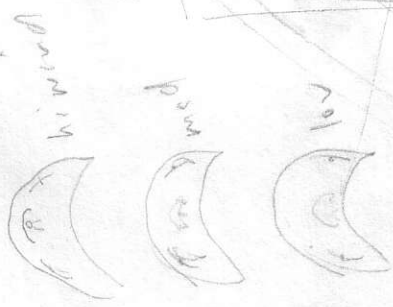


Full stall
part stall
un stalled



creaky water + Borealis Radio AM
Dr. Bunkling

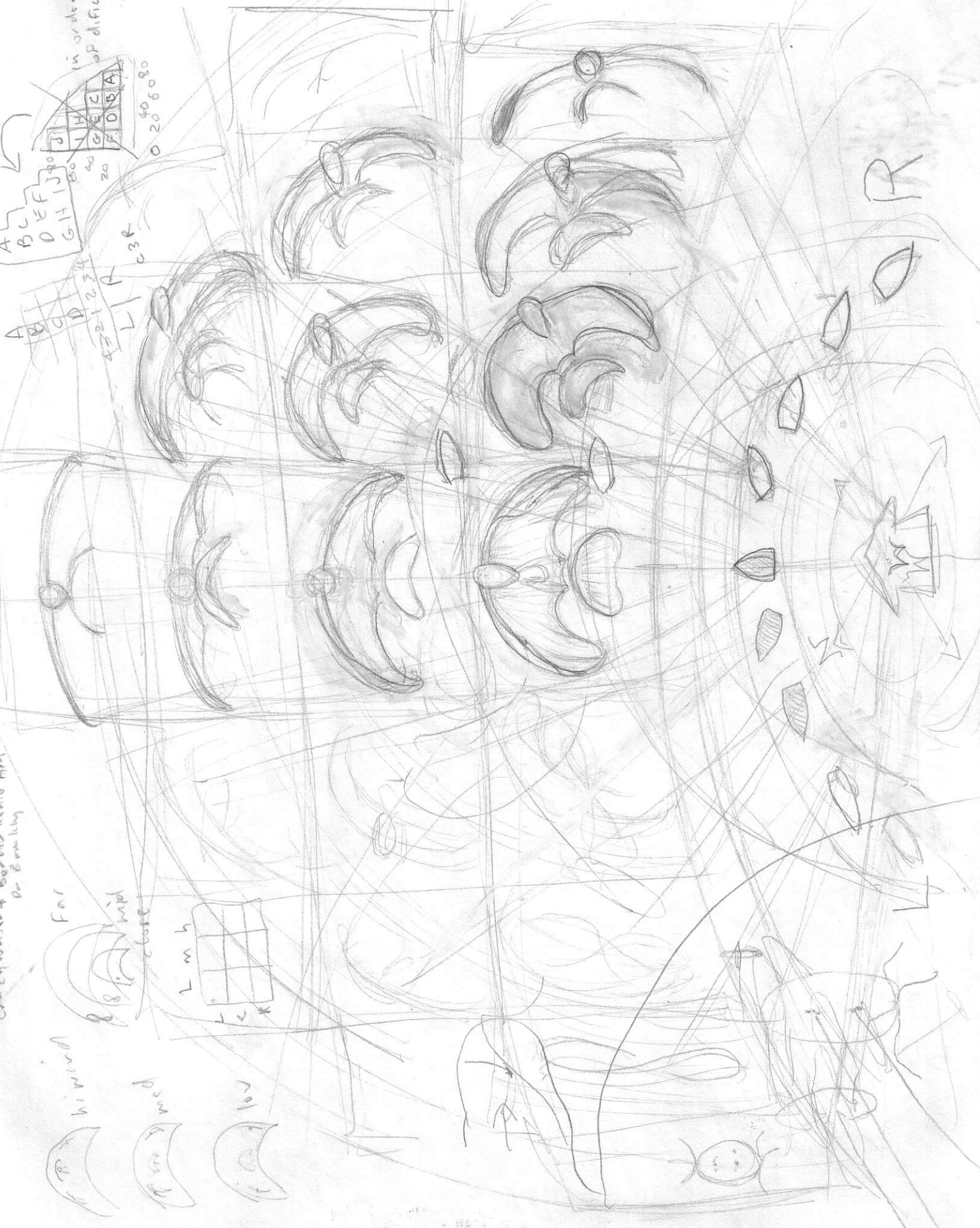
Empty peltan bucket



in order
of difficulty

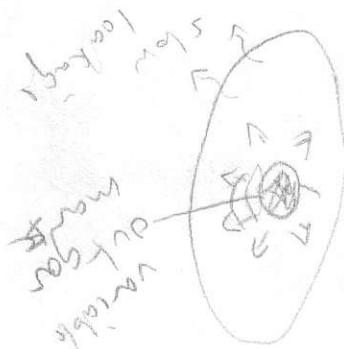
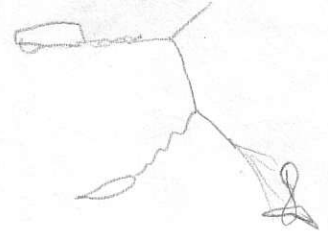
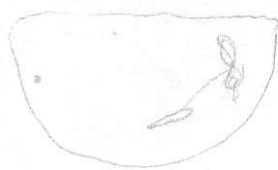
0 20 40 60 80

L R
c3r



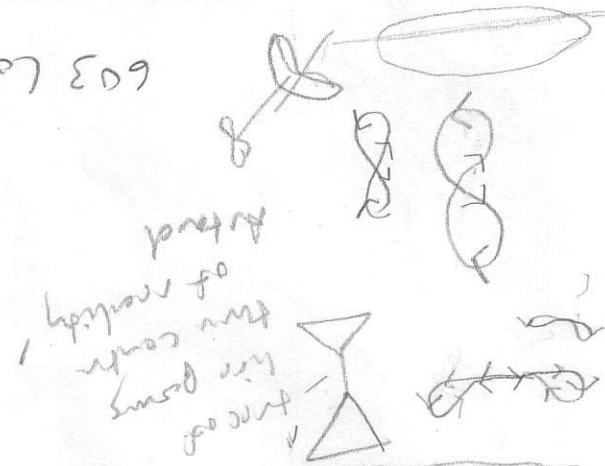
R





Dörig J. Buchholz
Stephan Brabeck
Arto Rav

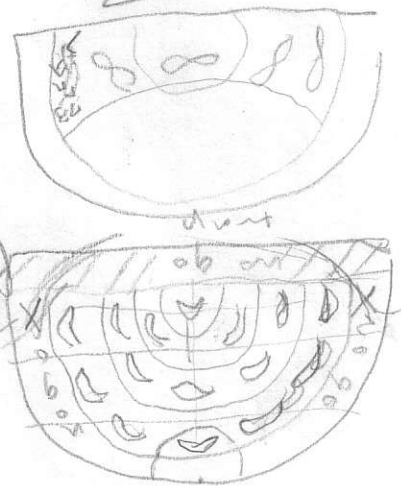
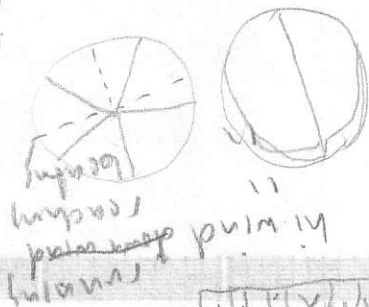
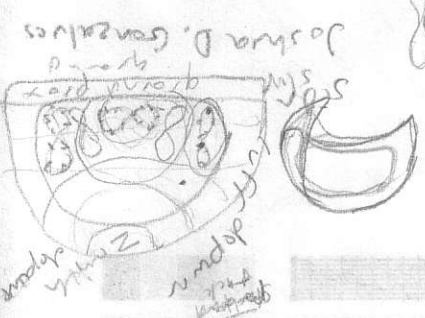
Flight-air
figures
square
heavy air
stations



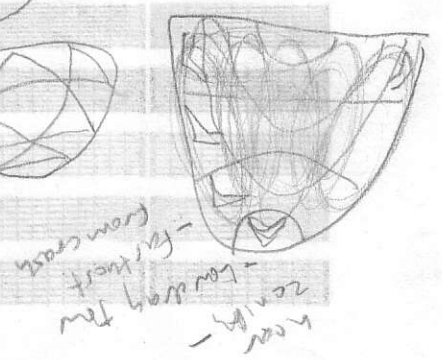
Artoads
"imaginary poles
of the two
Indias

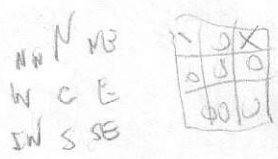
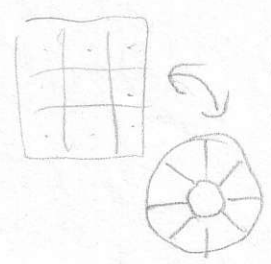
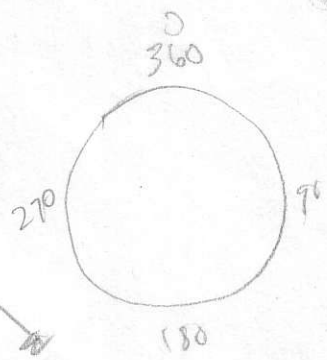
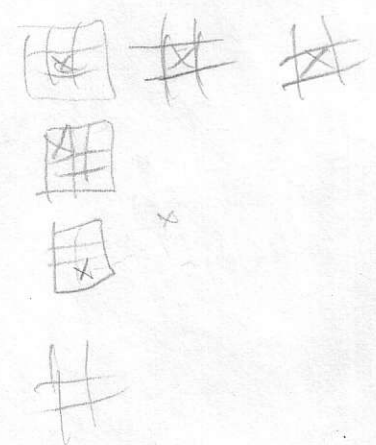
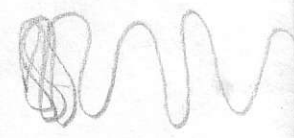
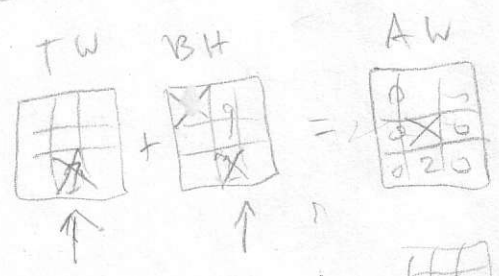
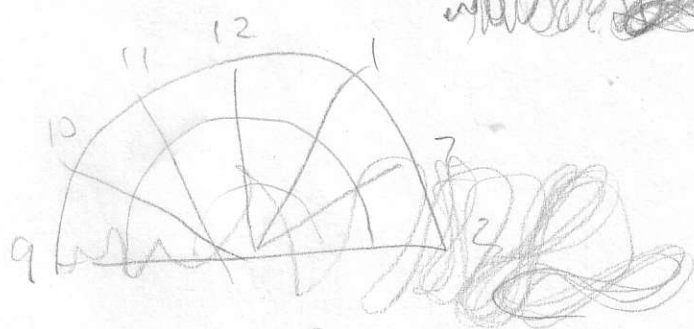
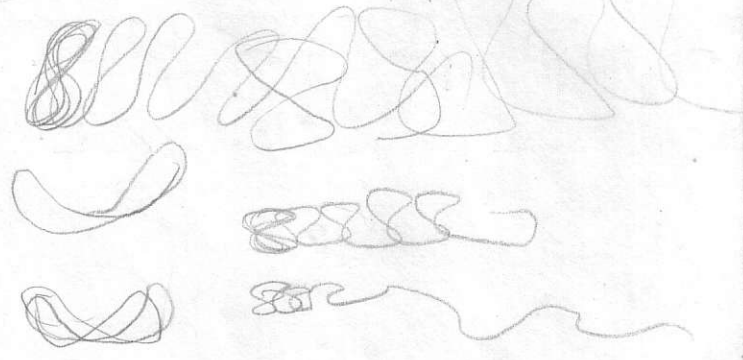
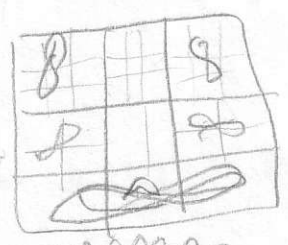
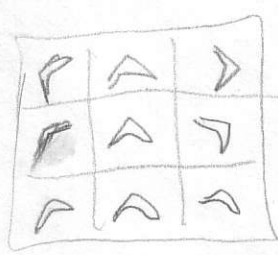
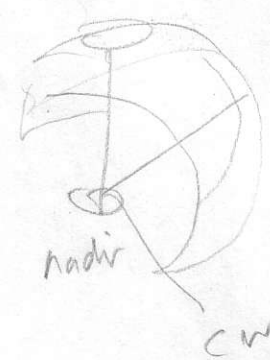
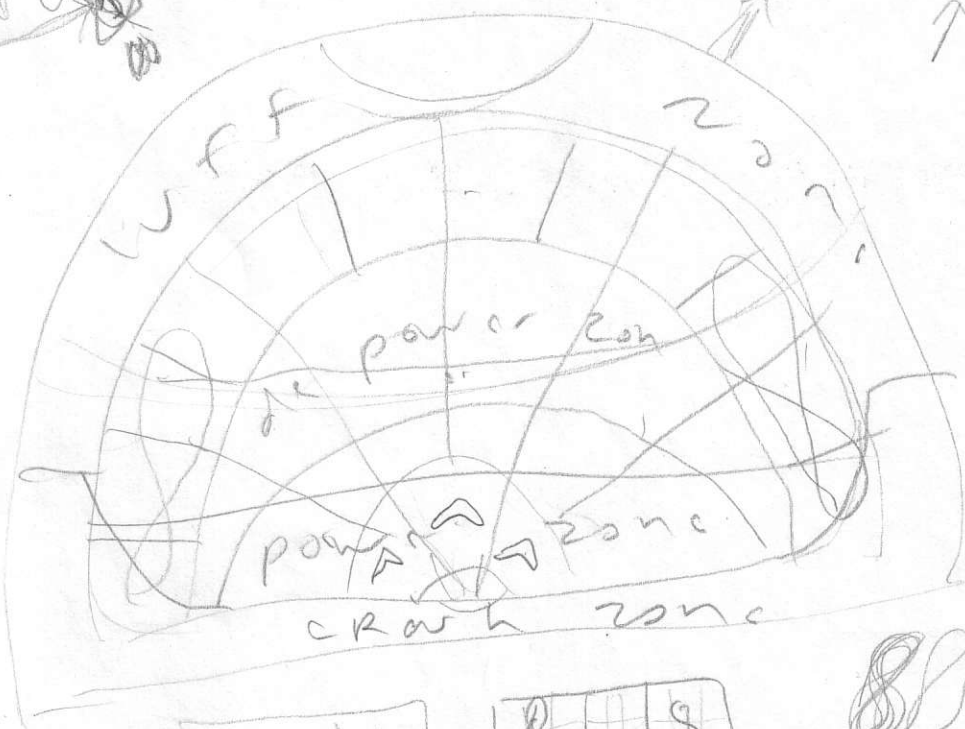
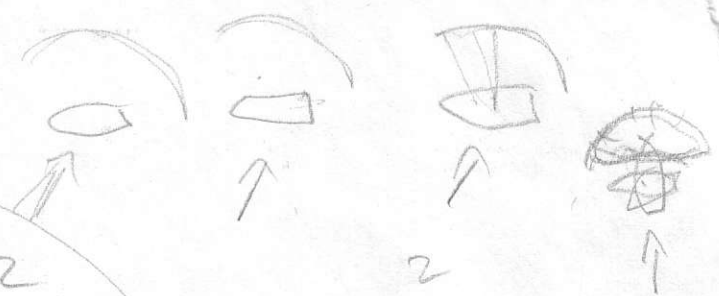
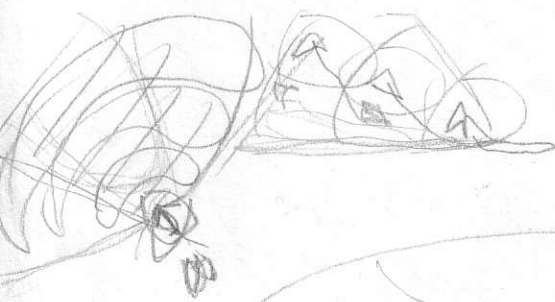
48004
img

Peter Lynn Jordan
trap



dynamic sweet-spot - shifter up with wind
windward upwind
leeward downwind





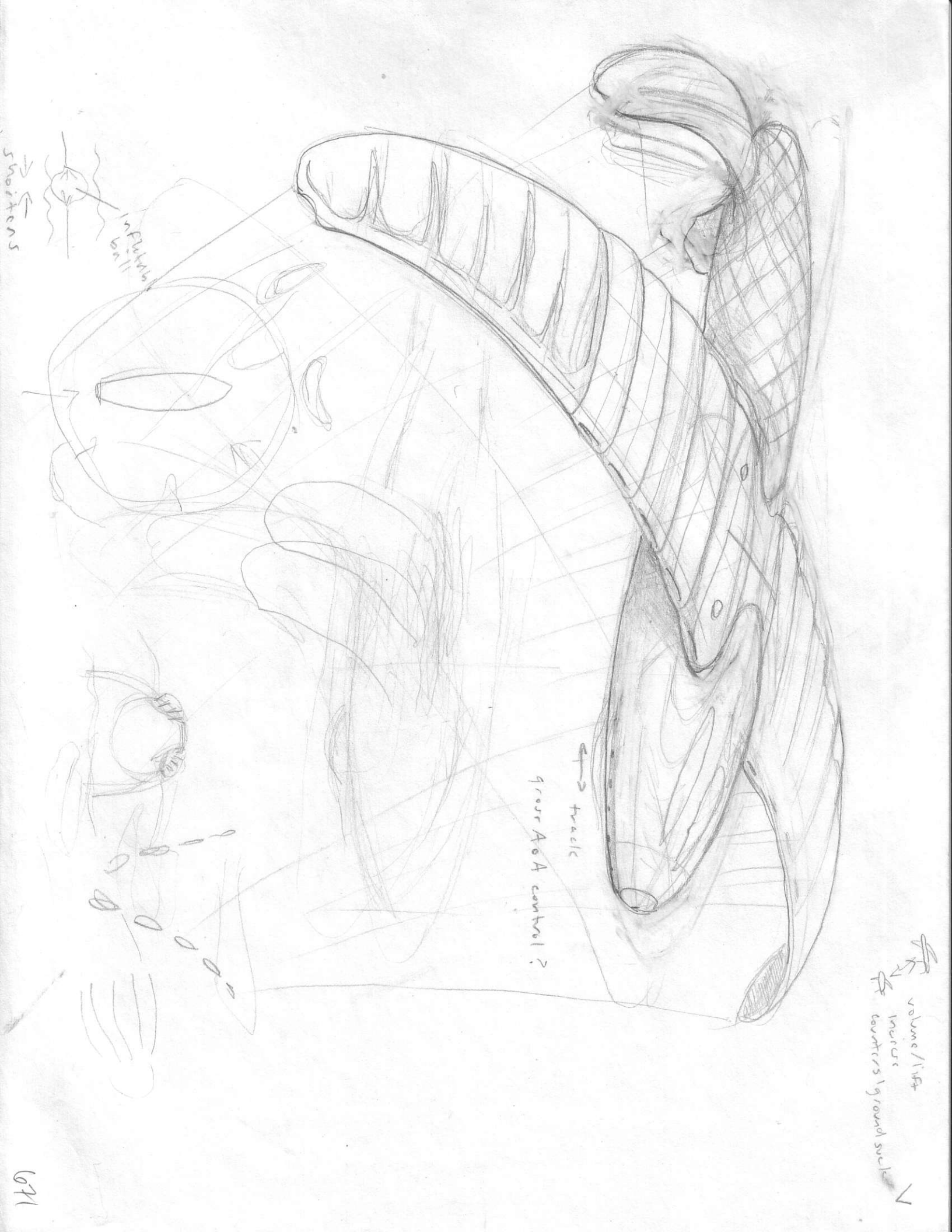
→
←
5moitens

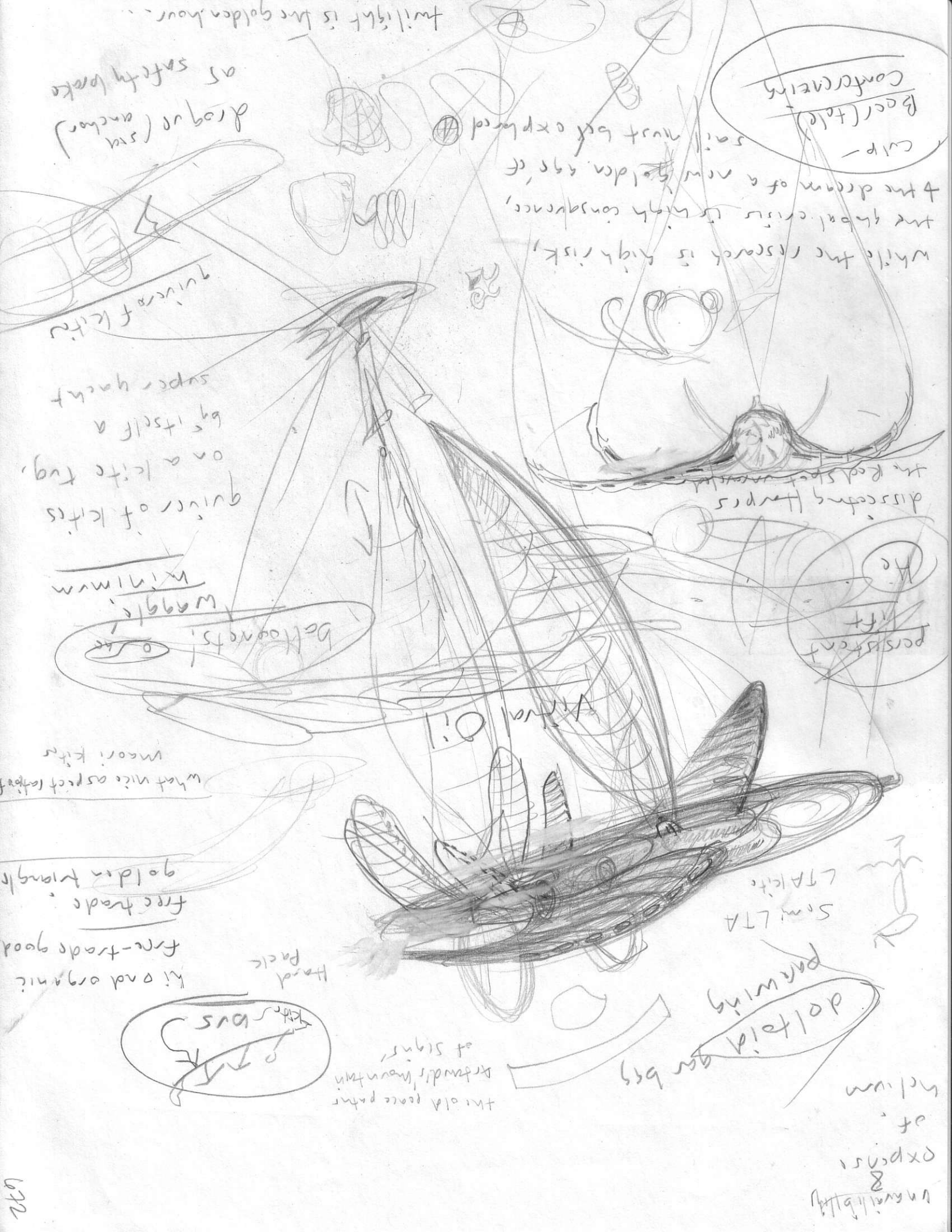
inflator
ball

↔ track
gross AsA control ?

↖ volume/lift
↗ incurve
↘ counters ground swell

671





cup -
Beet (tale)
Confronting

While the research is high risk,
the global crisis is high consequence,
the dream of a new golden age of
sail must be explored

drop us (sw anchor)
as safety breaks

quivers of kites
supper yacht
by itself a
on a kite tug,
quivers of kites

Waggle!
Minimum
backbones!

Animal Oil

persistent
lift

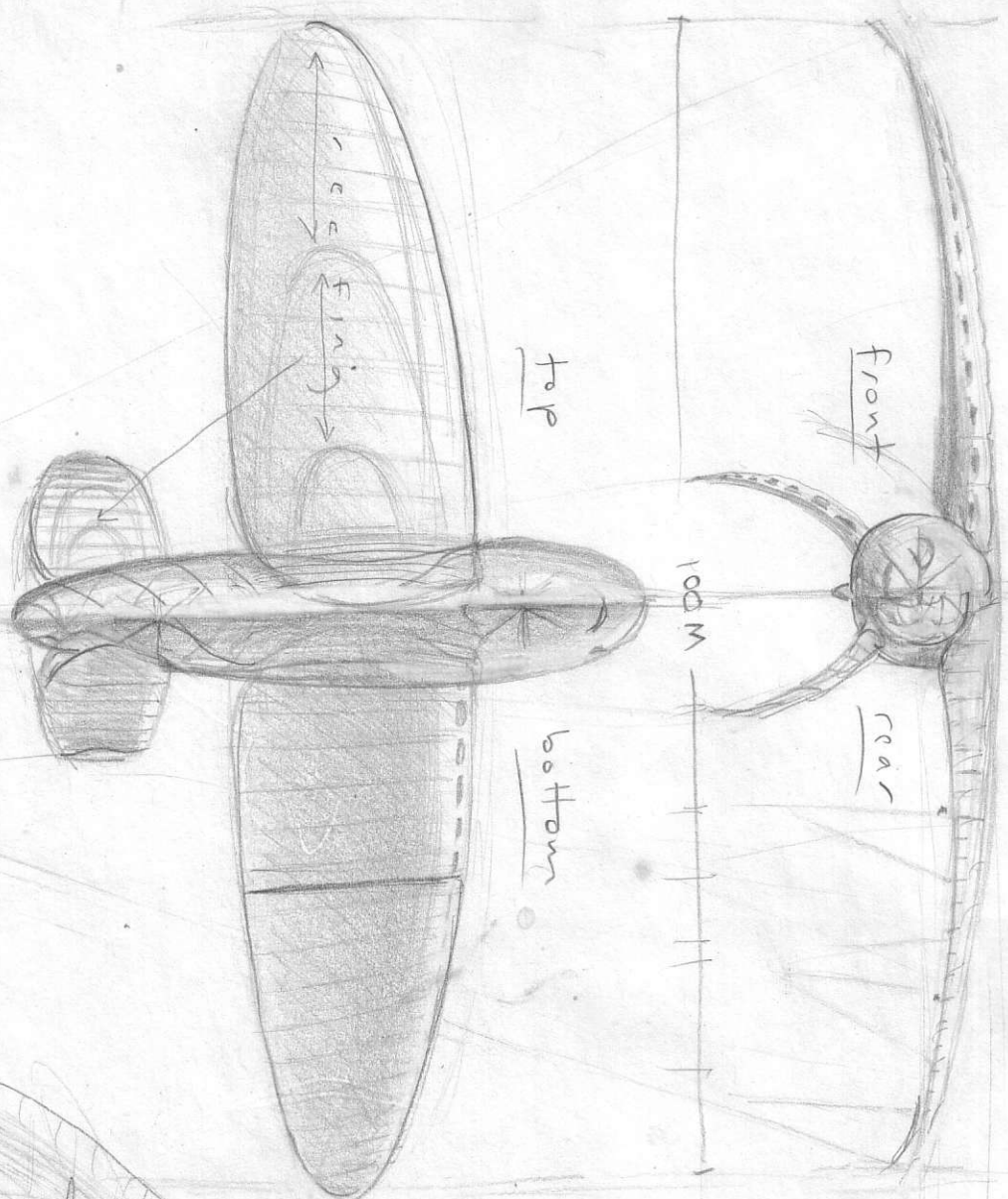
dolphin
parawing
5m LTA
LTA kite

Ki and organic
free-trade good
golden triangle

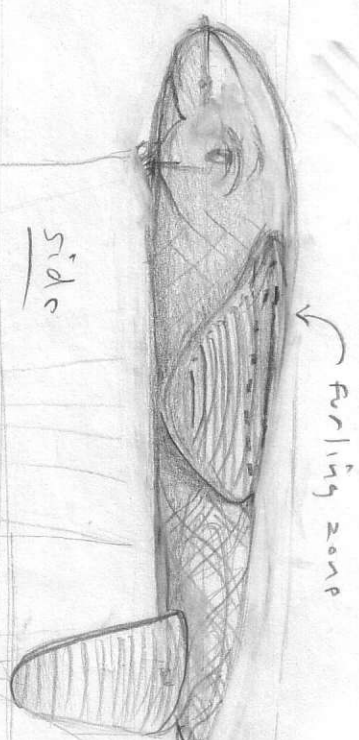
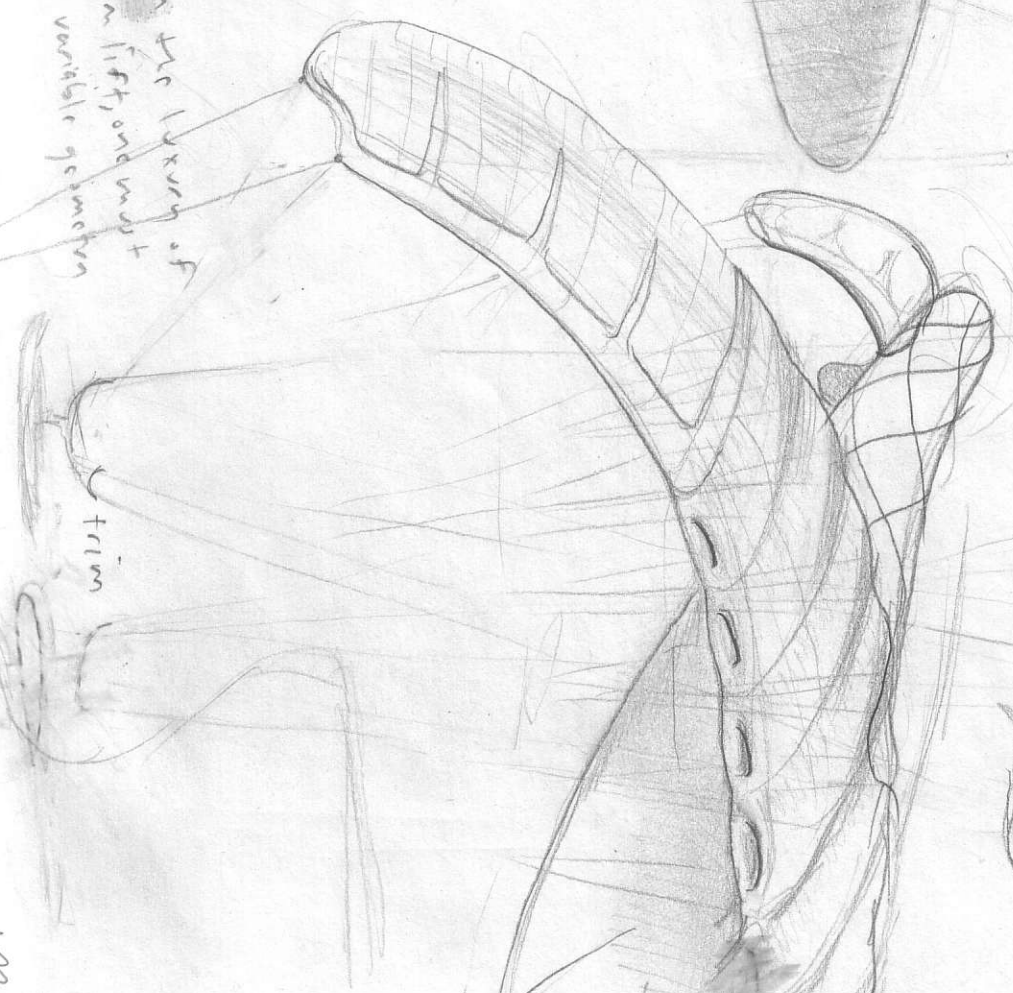
the old peace print
of signs
Arundel's Mountain

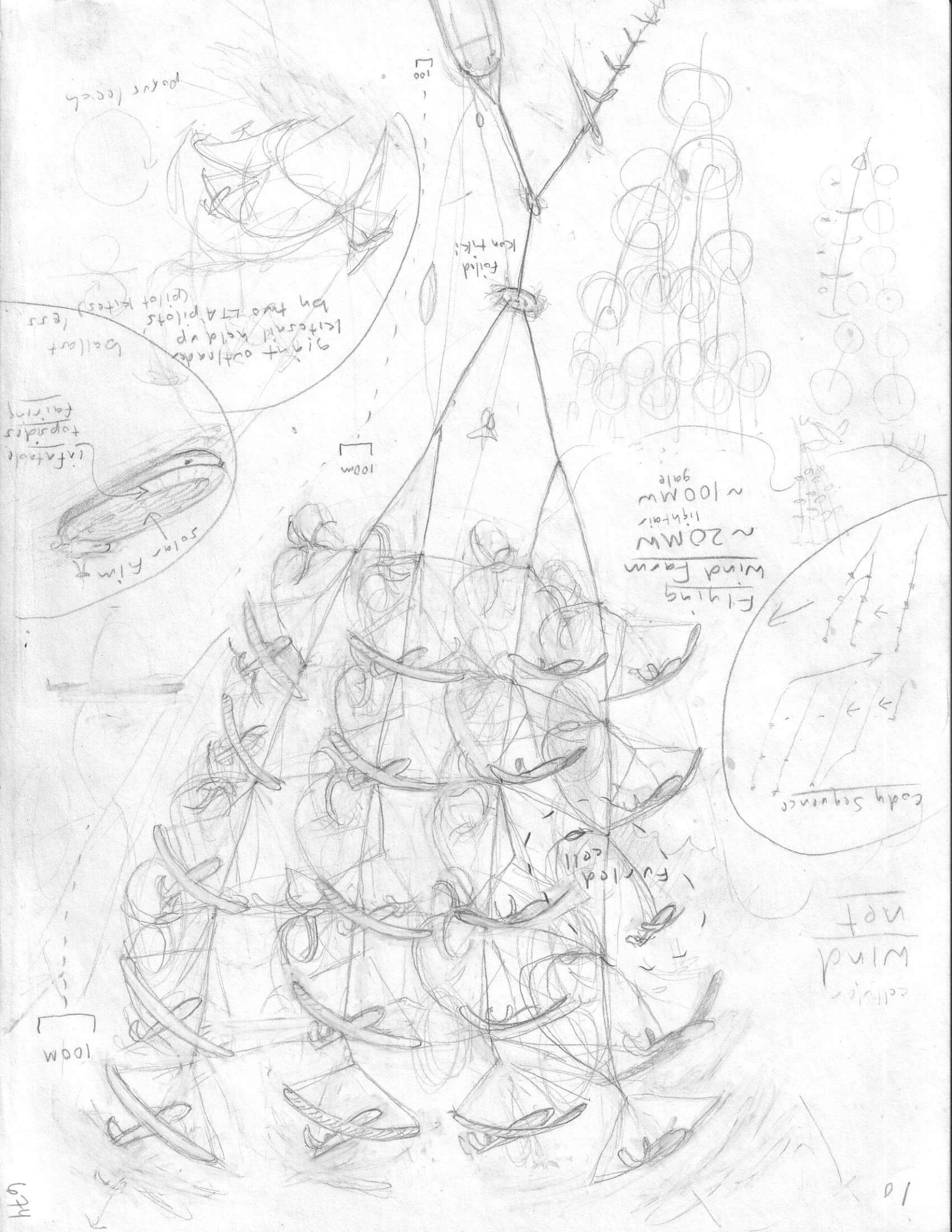
unavailability
&
expensive
of

kites that transform by switching ram vents, by turning inside out, etc.



open the layer of active lift, and must have variable geometry





parks leech

100

folded
Koniki

giant outlander
left hand held up
by two LTA pilots
(pilot kites) ballast

100m

Flying
Wind Farm
20MW
light tail
100MW
gale

Cody Sequence

Wind net
collider

100m

624

10

Roller furling
 onto helium gas bag
 - fuselage
 requires big soft rollers
 two stems & lives

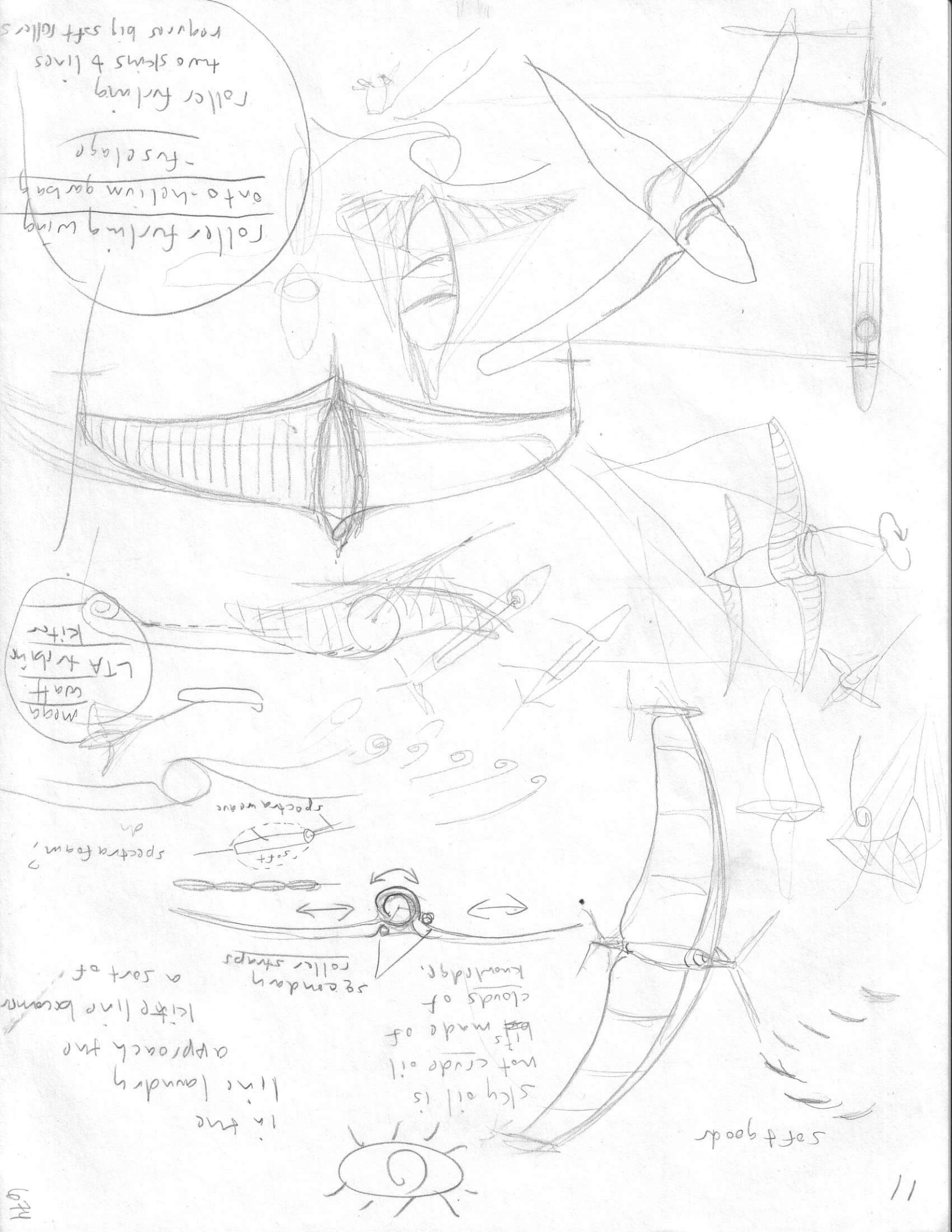
Mega
 shaft
 LTA kite
 kite

spectra foam?
 spectra weave
 soft

in the
 line laundry
 approach the
 kite line becomes
 a sort of
 secondary
 roller straps

sky oil is
 not crude oil
 it's made of
 clouds of
 knowledge.

soft goods



a universe
of utter beauty created
at a terrible loss,
sadness & awe...

Sidi's deadbird
warm pun - his discovery of Peace Pithu

Kite keel
reduce
windage
loss

the child's kite
4 bicycle wheels
into a utopian
dream, the
Flying Bicycle

They never gave
you a flying car,
make your own,
slim bike

is a perfect gas
the corners
help pull down

Why kites
are Disc
planes

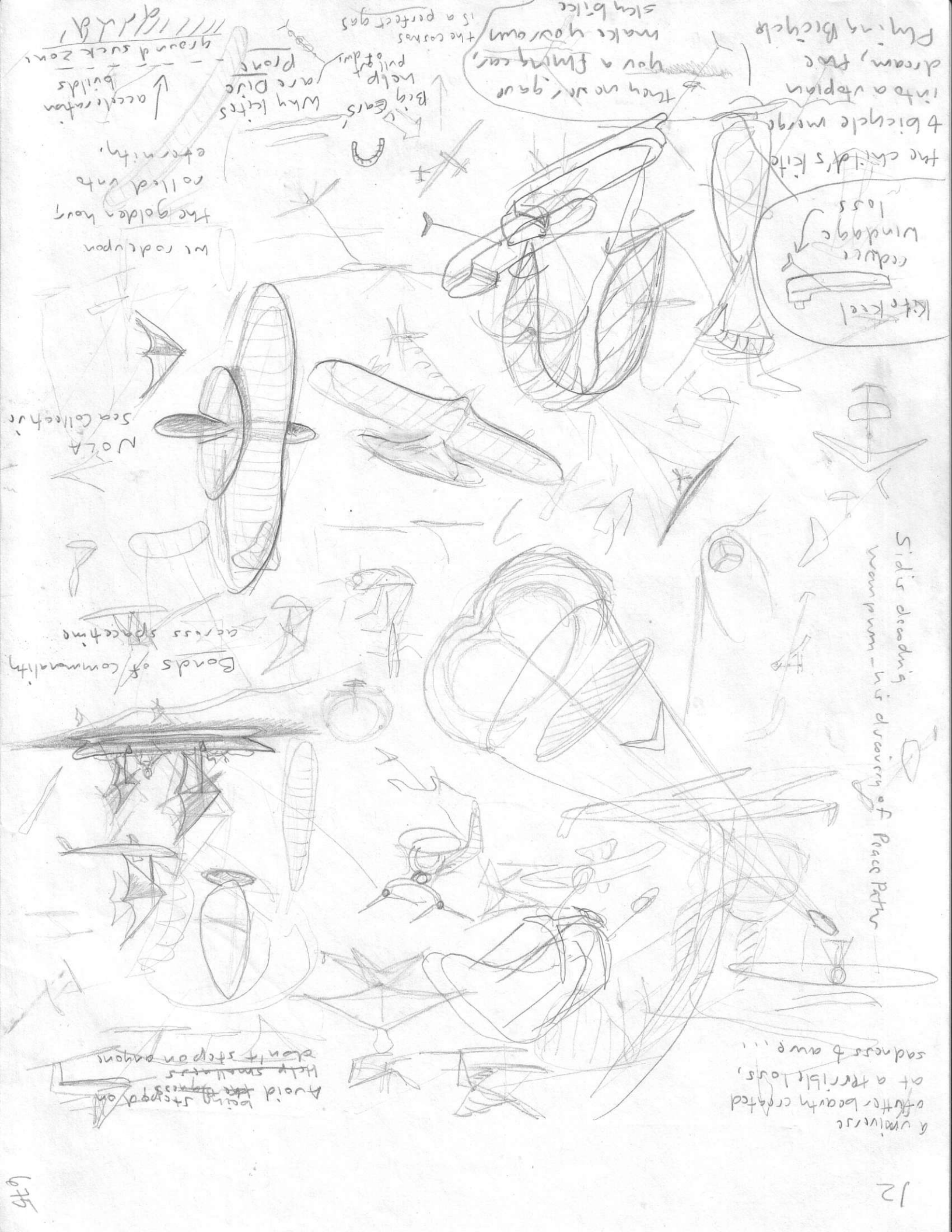
acceleration
builds
ground suck zone

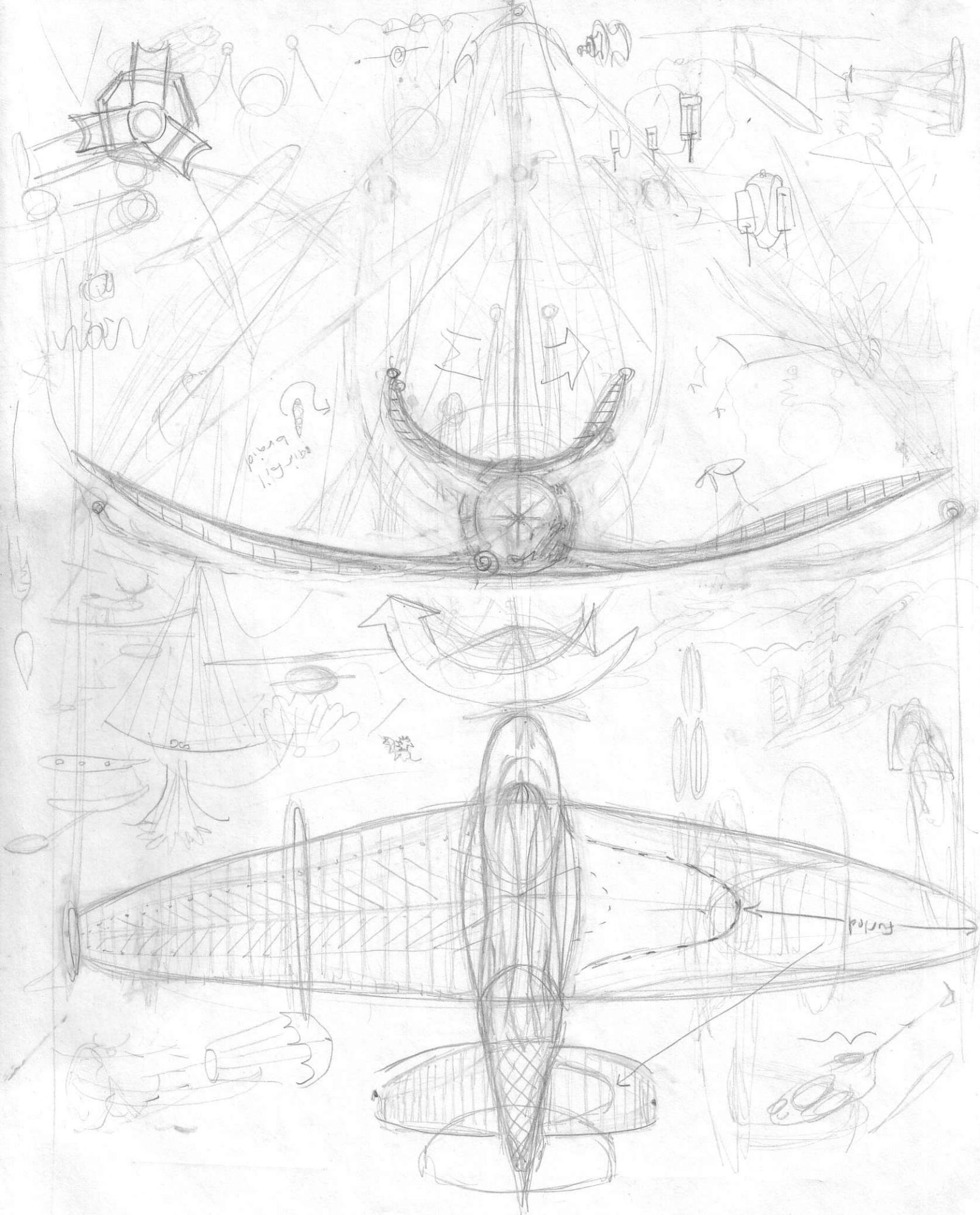
we rode upon
the golden hour
rolled into
eternity.

Sea Collector
NOLA

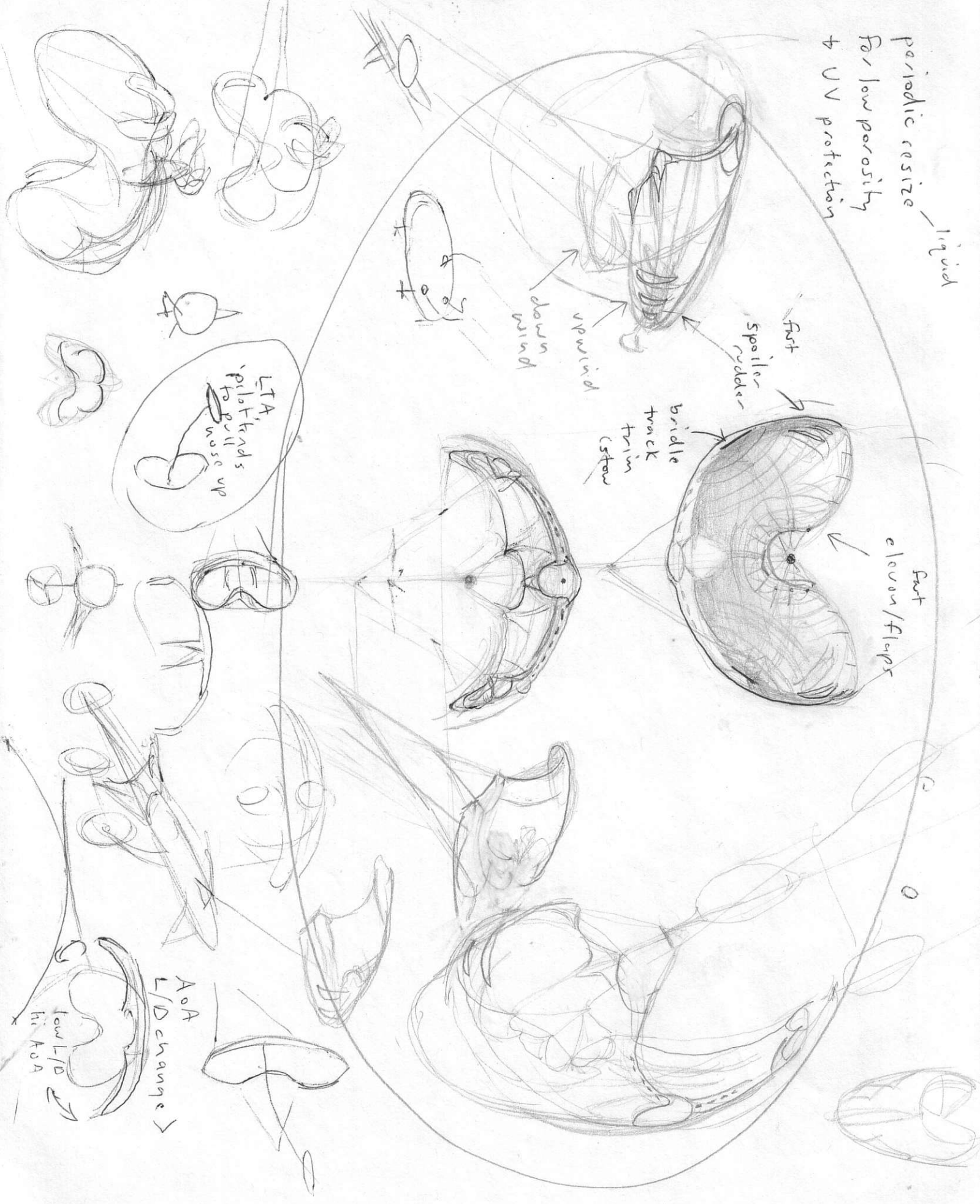
Bonds of commonality
across spacetime

Avoid being stepped on
Help smaller
don't step on anyone





periodic resize
for low porosity
to UV protection
liquid

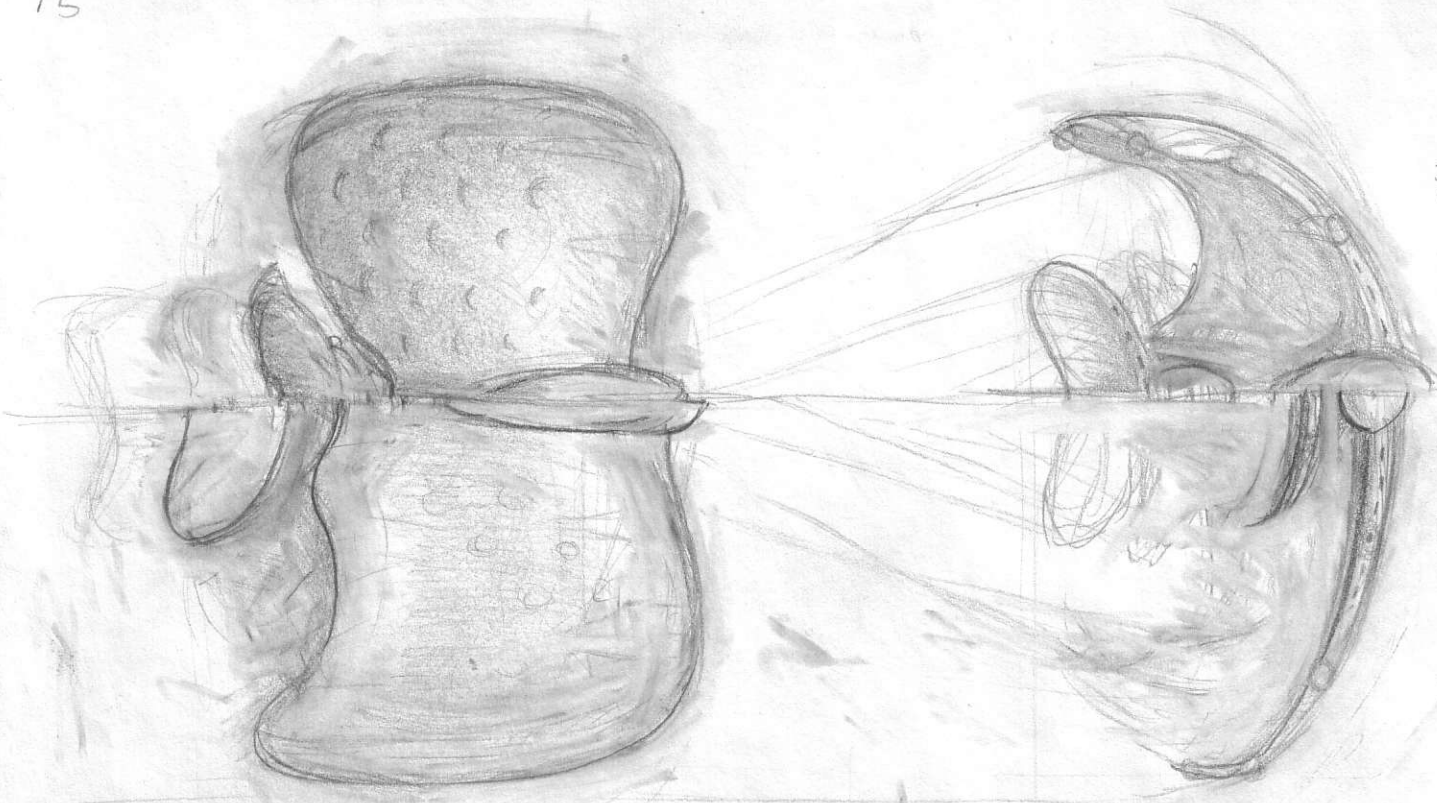


LTA Pilot's hands to pull nose up

Aof L/D change
low L/D
hi AOA

Hi AoA

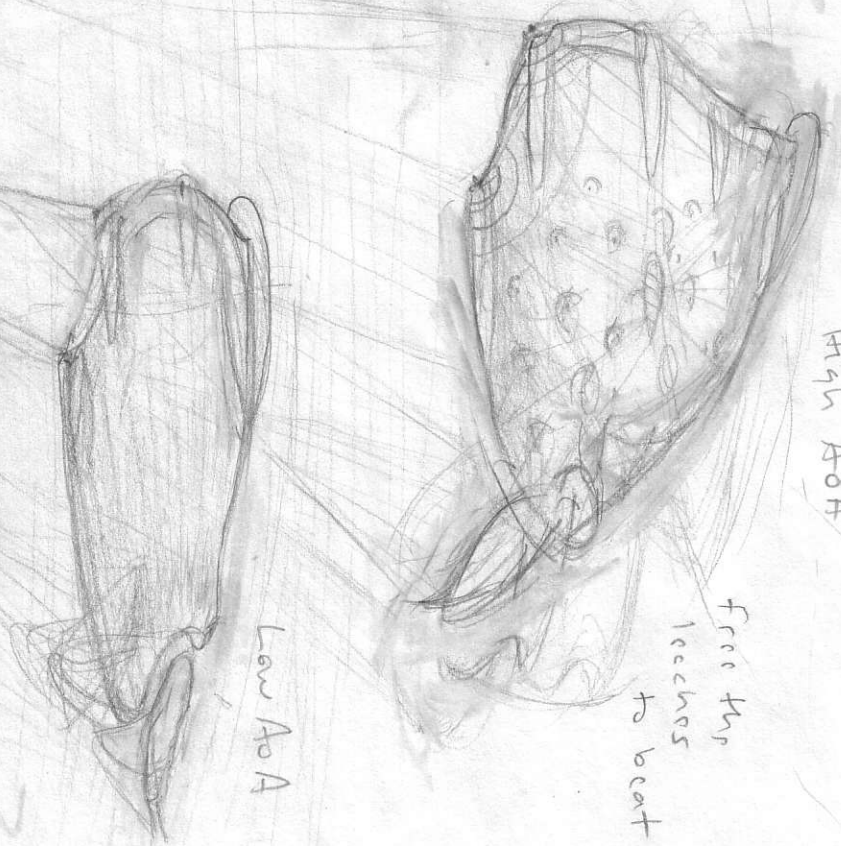
Low AoA

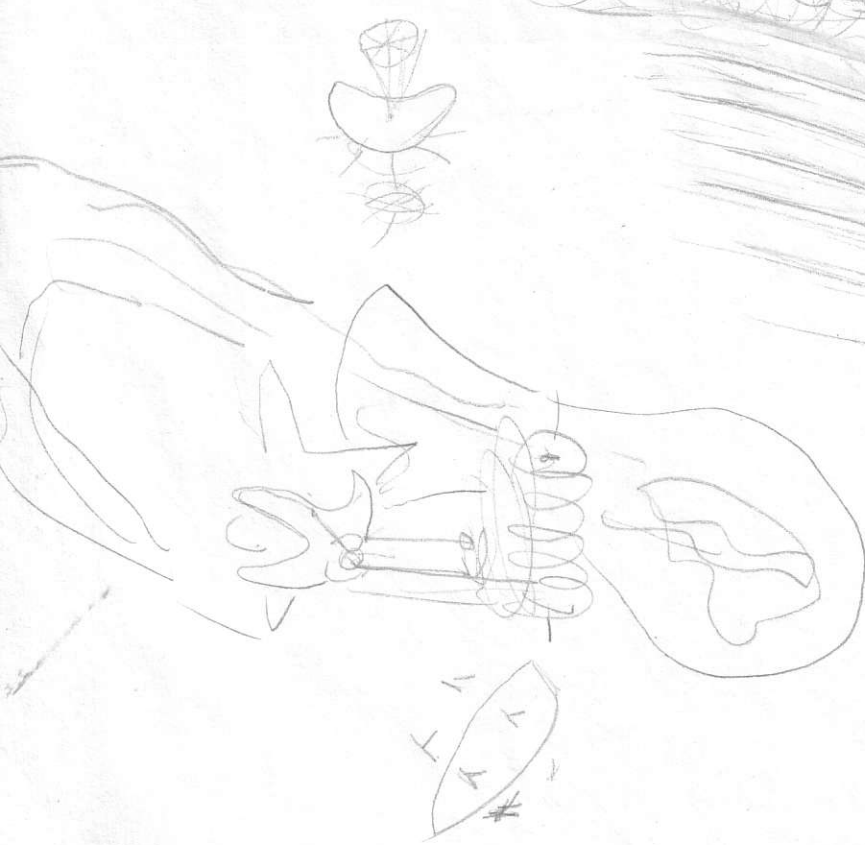


High AoA

free tip
leeches
to beat

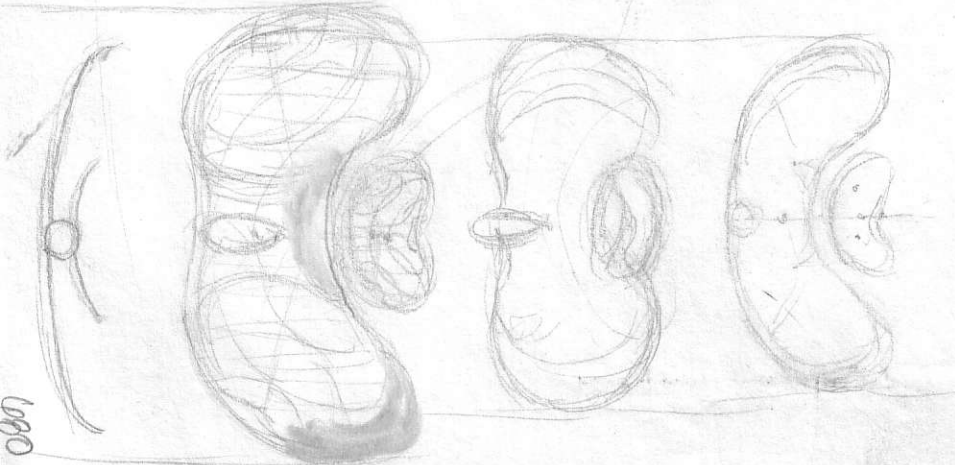
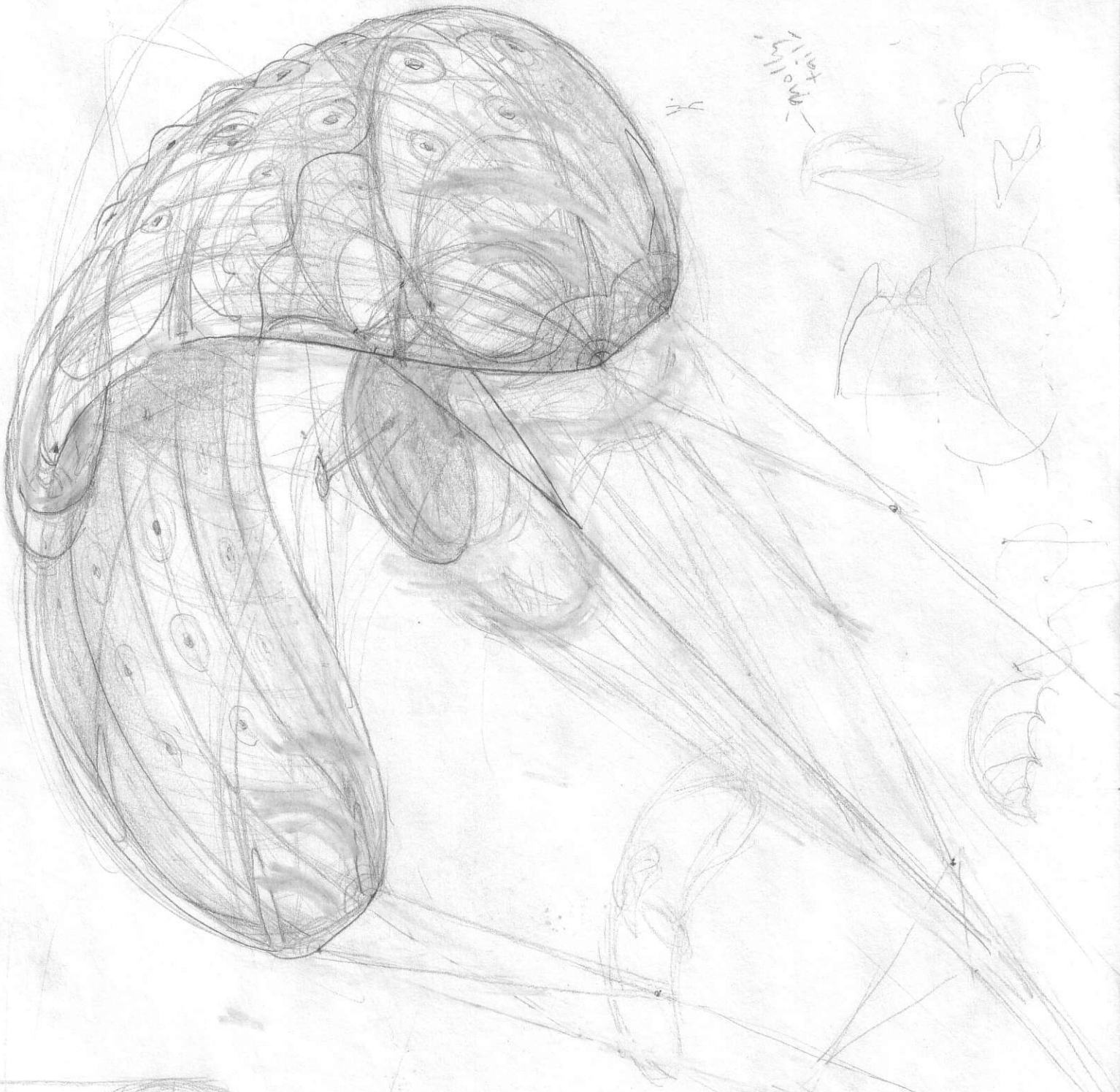
Low AoA

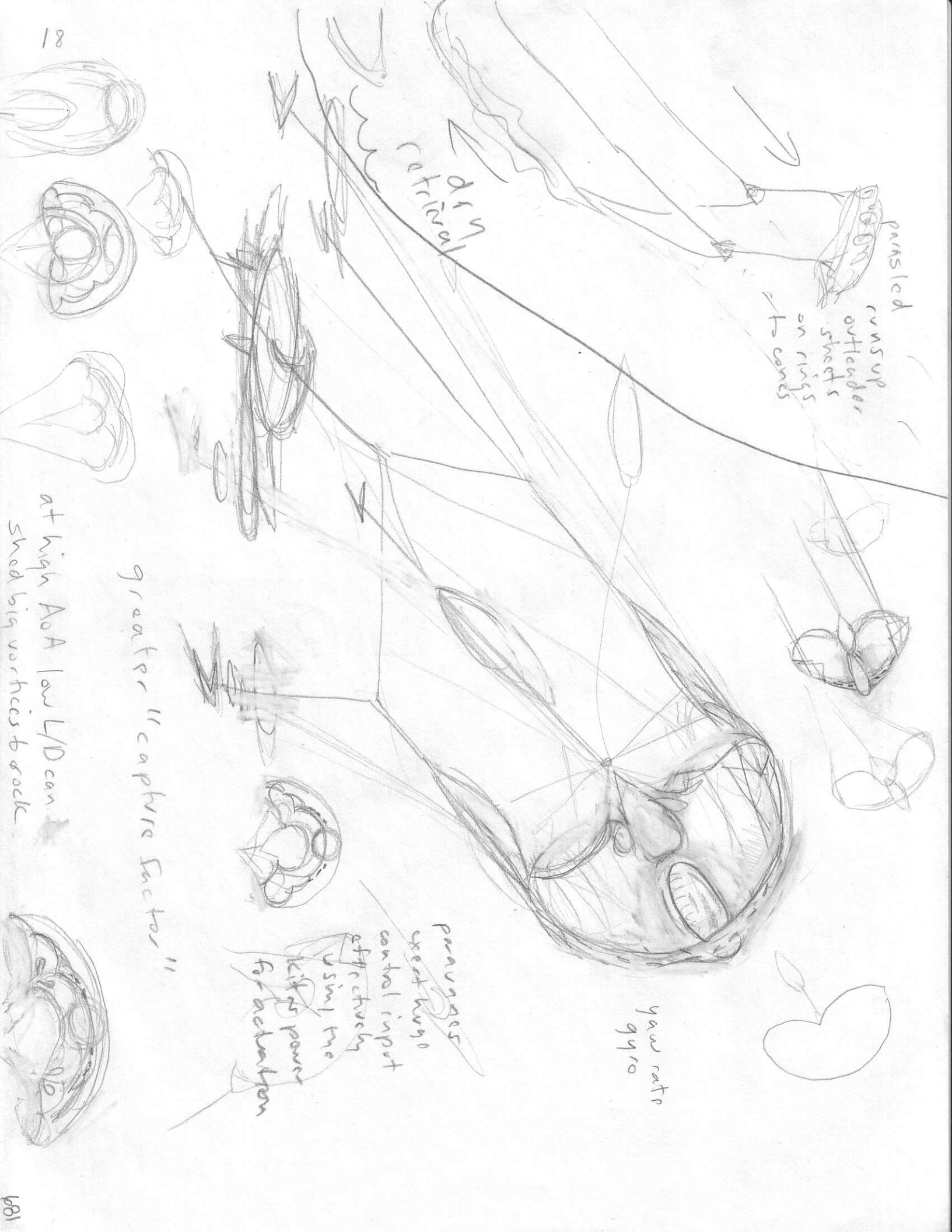




synchronize with boat roll freq.
 waterwavers & wind turbulence
 tend to dampen each other
 until they randomly combine
 the dedicated kite boat
 that actively flies the
 kite is the critical path
 reliable
 to adjust in that
 general shipping
 to locates ~~many boats~~

roll dampening by playing
 kite surge





pinned
runs up
outboard
sheets
on rings
of cords

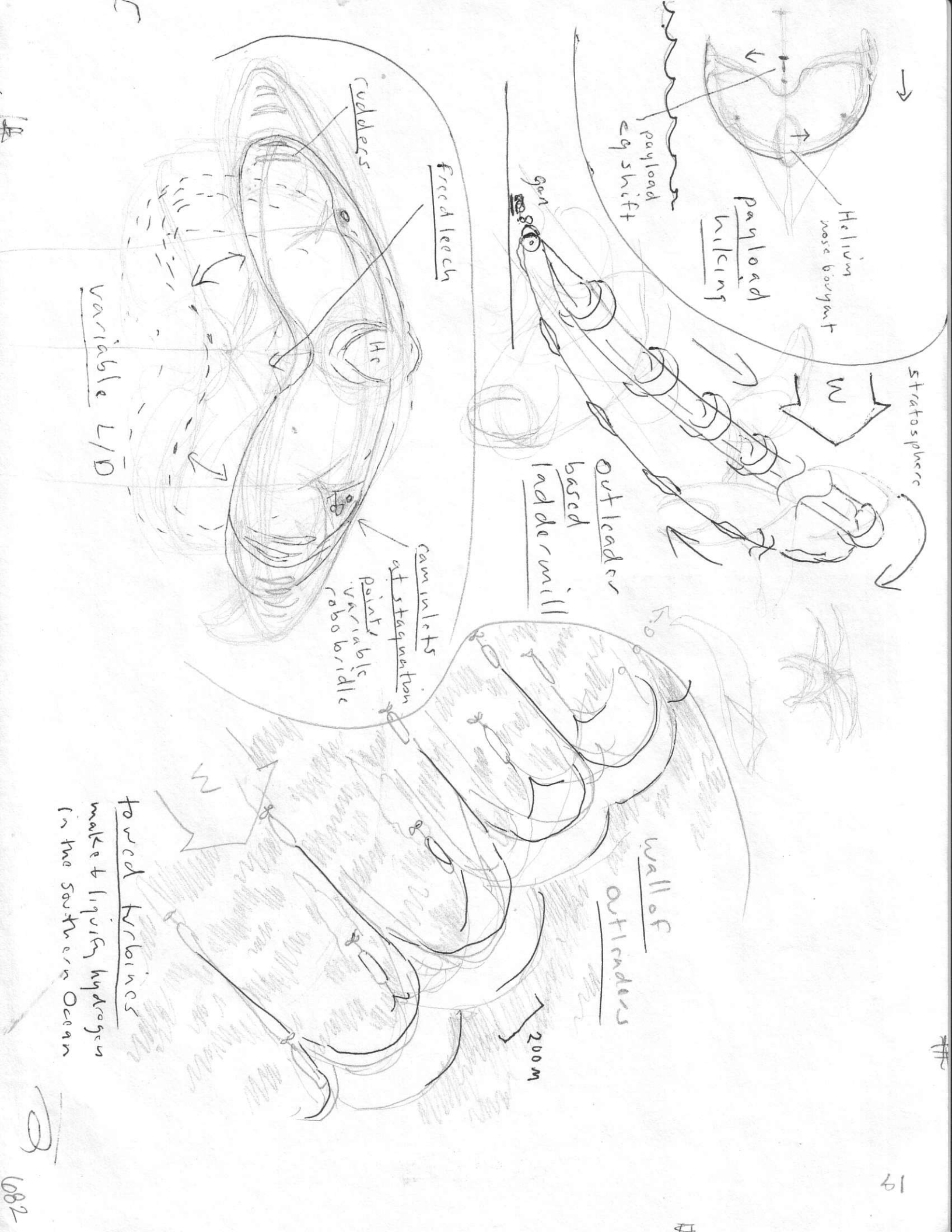
differential

greater "capture factor"

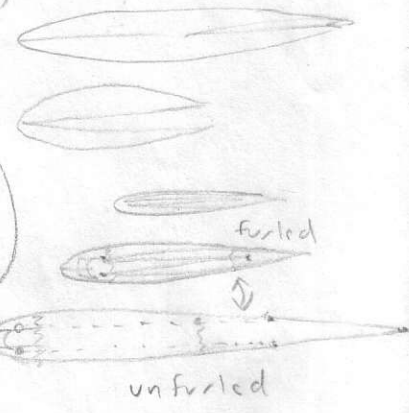
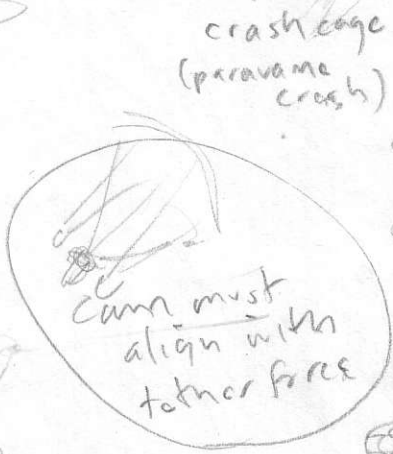
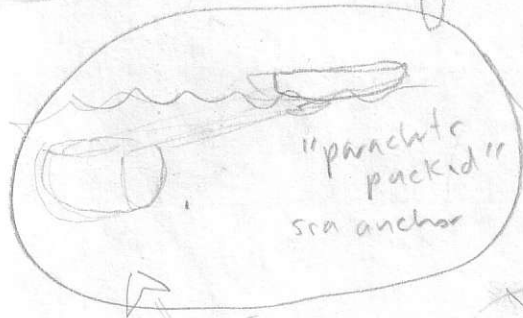
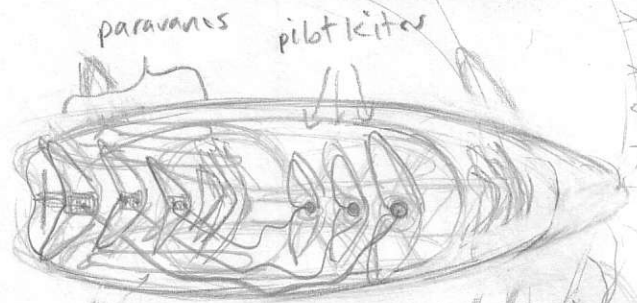
yaw rate
gyro

pneumatically
operated
control input
using the
kinetic power
for activation

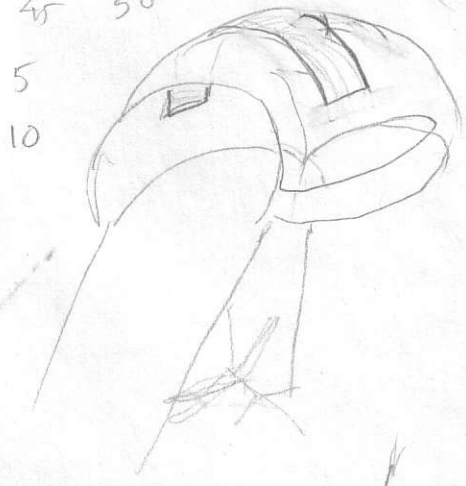
at high AoA low L/D can
shed big vortices & stall



study printer ribbons
ribbon handling
ribbon wing
ribbon kite



$AZ = Speed$
 $LA = AZ \times Speed$
45 50



'death dive' zone.



less risk for kite is more 'plumb'