

GOOD MATERIALS MATTER

BUILDING CLEANING - CAN'T "SHUT DOWN"
SYSTEMS W/O CONCERN
(VENTILATION/TEMP ISSUE) FOR SAFETY/AIR
QUALITY

HIRE STUDENTS TO CONTROL BUILDING

USE APPROPRIATE CONTROLS TO START
STOP SYSTEMS SOLAR

TUNNEL SYSTEM HEATS FLOOR =
GRAB THE HEAT PUT IT WHERE
NEEDED (SCIENCE BLDG)

HEALTH/SAFETY OF IMPORTANT EMPLOYEES

USE COPPER / NOT ALUMINUM

USE SIMPLE EASILY OBTAINED FIXTURES
MAINTAINED FIXTURES

ELEVATOR GOES TO ROOF OR ANY OTHER
MECH SPACE ①

WELCOMING = ENTICING

BODY SIZE,

PRIVACY

ACCESSIBILITY

CULTURAL/FUNCTIONAL

SOLVE ACCESS TO

ESSLINGER SPACES

P.E. REC OFFICES REMOTE

REDUCT BARRIERS

SEE ACTIVITIES

W/O INTIMIDATING

INSPIRING = SEEING
PEOPLE DOING

I CAN DO IT TOO -

GOOD FIRST IMPRESSION

A PLACE THAT MAKES

YOU FEEL VALUED, SAFE
COMFORTABLE

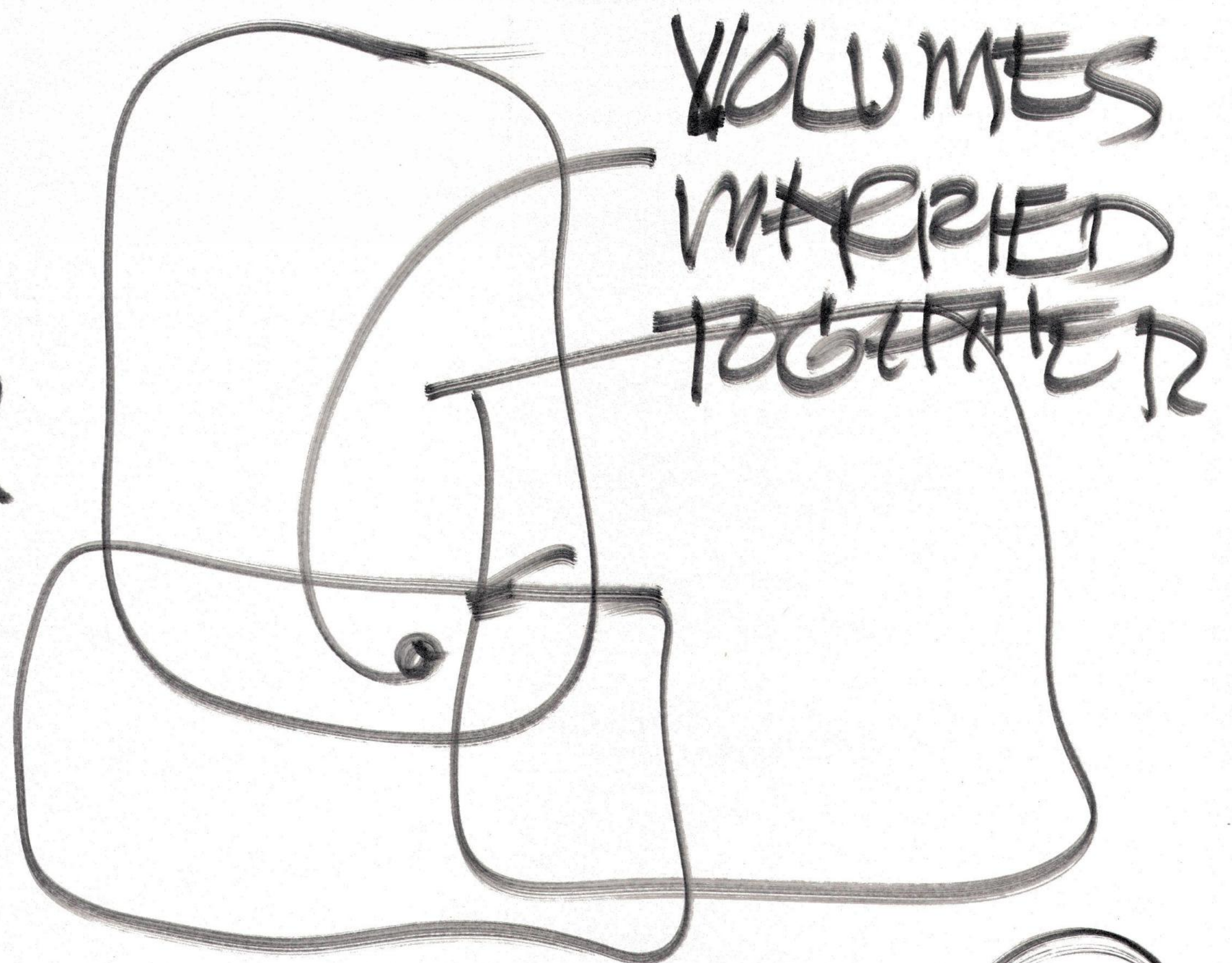
DYNAMIC BECAUSE WE ARE

MULTI-LEVEL
WILMINGTON ATRIUM

LOKEY LAB

ULLS ATRIUM

HEDCO HEARTH



3

TRANSPARENCY W/ PRIVACY 'BALANCE'

TURNSTILES NOT WELCOMING

SEEING & FINDING

= IMPROVED WAYFINDING

FIND INTENSITY & SPIRIT
OF THE SPACE

VISUAL EXCITE MENT

ZONE CONTROL OF TEMP &
ADJACENCIES HUMIDITY

CODE "FREE" ATRIUM

DAYLIGHTING - JACQUA
WILLAMETTE

④

DAYLIGHT
NEEDED

NOT HIGH NEED
GYMS / COURTS

SOCIAL SPACES
POOL

DAYLIGHT ENTRANCE / STREET

TURN OFF LIGHTS WHEN POSSIBLE
TEACHING TECHNOLOGY / AV RESOURCES
PLUG & PLAY

INTELLIGENT - NOT EXCESSIVE TECH

"MAINTAINABLE"

TECHNOLOGY NOT AN EXPERIMENT

"GET UNPLUGGED" < INTEGRATED
UNOBTRUSIVE

KEEP IT SIMPLE

CONSIDER ALL CULTURES IN DECISIONS
ABOUT TECHNOLOGY

(5)

SUSTAINABLE STRATEGIES

- THEY MAKE SENSE
- APPROPRIATE COSTS

→ VISIBLE TO USERS - DEMONSTRATION
GOOD CHOICE
• OFFSET ENERGY HOGS

• KEEP/VALUE BECAUSE IT IS SPECIAL

VALUE MAKES IT MEANINGFUL
WELL DESIGNED

• DOUBLE THE VALUE WHEN
EDUCATE $\approx$ ALUMNI CENTER
* INTEGRATED SYSTEM MONITORING

• VALUE $\begin{cases} \text{QUANTITATIVE} \\ \text{QUALITATIVE} \end{cases}$

* • SUSTAINABLE - NEED TO MAKE CHOICES
ON OPERATIONS THAT MAKE SENSE
• DESIGN SMART



DESIGN WELL - STUDENTS WILL
VALUE, TAKE CARE
PAY ATTENTION TO DETAIL

FLEXIBLE - SUSTAINABLE

100 YR BUILDING - UPDATE/REPLACE
SYSTEMS AS NEEDED

DESIGN FOR EASE OF SYSTEMS
UPDATE/REPLACEMENT

SERVICE TO STUDENTS AS IMPORTANT
AS ANYTHING ON CAMPUS

SRC BRINGS BALANCE TO CAMPUS

"LIVES" = LEARNING BALANCE
= BUILDING ON EXPERIENCE
= LIFE LONG HABITS

BALANCE = REC/PE/SOCIAL



TYPICAL REC. PEAK

4500 per day - M-H

3:00 PM - 6:00 PM ... 9:00 PM
+ NOON BUMP

TYPICAL PE PEAK

8:00 AM - 6:00 PM

M-F 6:00 AM - MIDNIGHT

S-S 10:00 AM - MIDNIGHT

BREAKS 10 AM - 8 PM - CLOSED WEEKENDS

SUMMER 6 AM - 10 PM WEEKEND HRS

10 AM - 8 PM

LAUNCH 10 AM - 10 PM

REC. PEAK - HANG OUT PARTY VIBE

PE CLASSES - MORE FORMAL INTERACTION

FACULTY STAFF - 6-8 AM
NOON
5 PM - 7 PM

⑨

SOLAR THERMAL

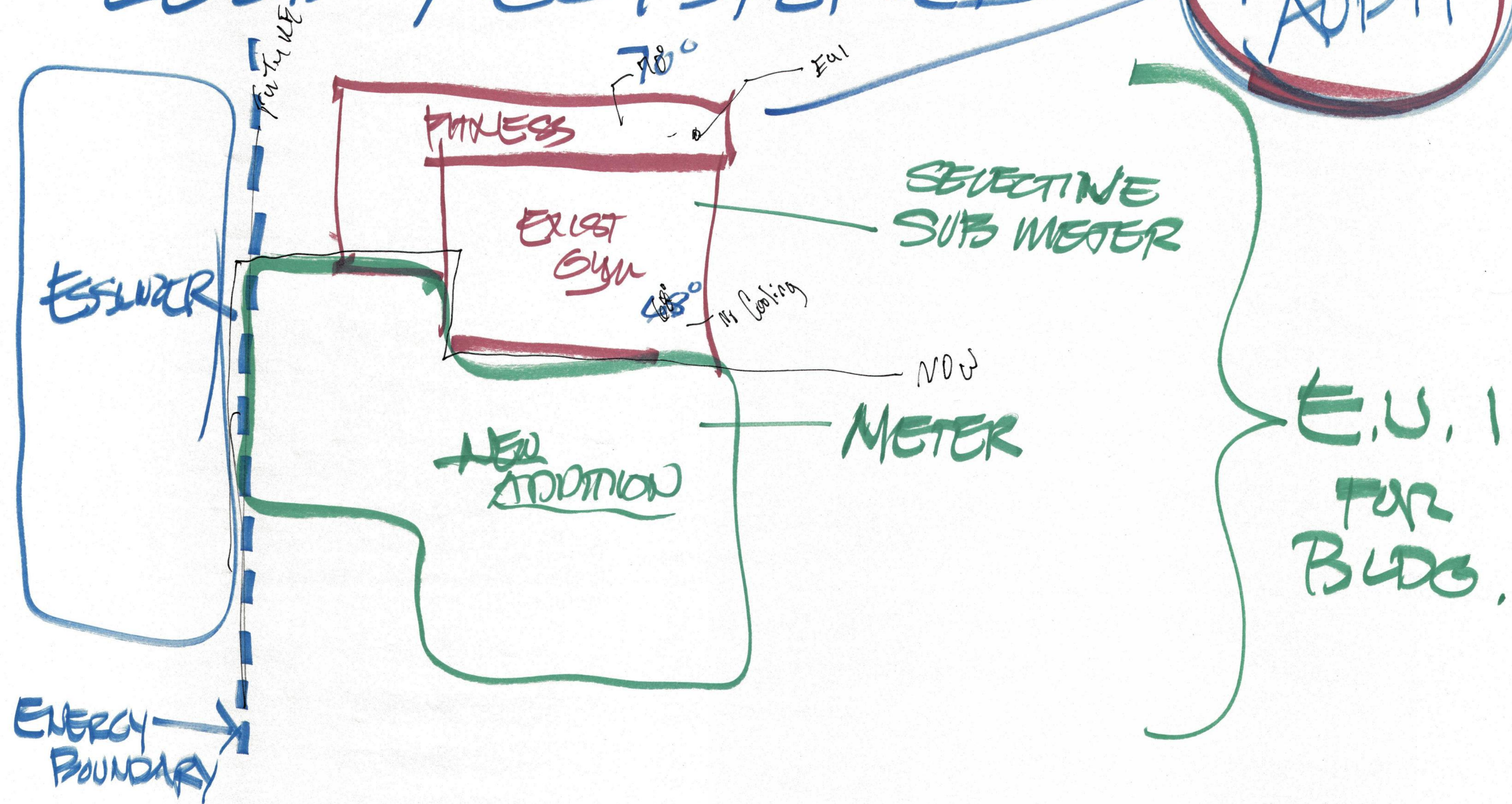
U/O HAS STEAM -

P.V. ALSO CONSIDERED

1.5%
'STATE MANDATE'
LOOPHOLE

LEED REGISTERED

NEED
AUPIT



CURRENTLY ALL ONE METER

GOAL: SEPARATE WHEN ESSENER

GOAL: SEPARATE NOW. TORN DOWN

LIGHTS IN GYM RECENTLY CHANGED

THERMAL SEPARATIONS

VS.

TRANSPARENCY

HIGH TEMP



LOW TEMP

CURRENTLY

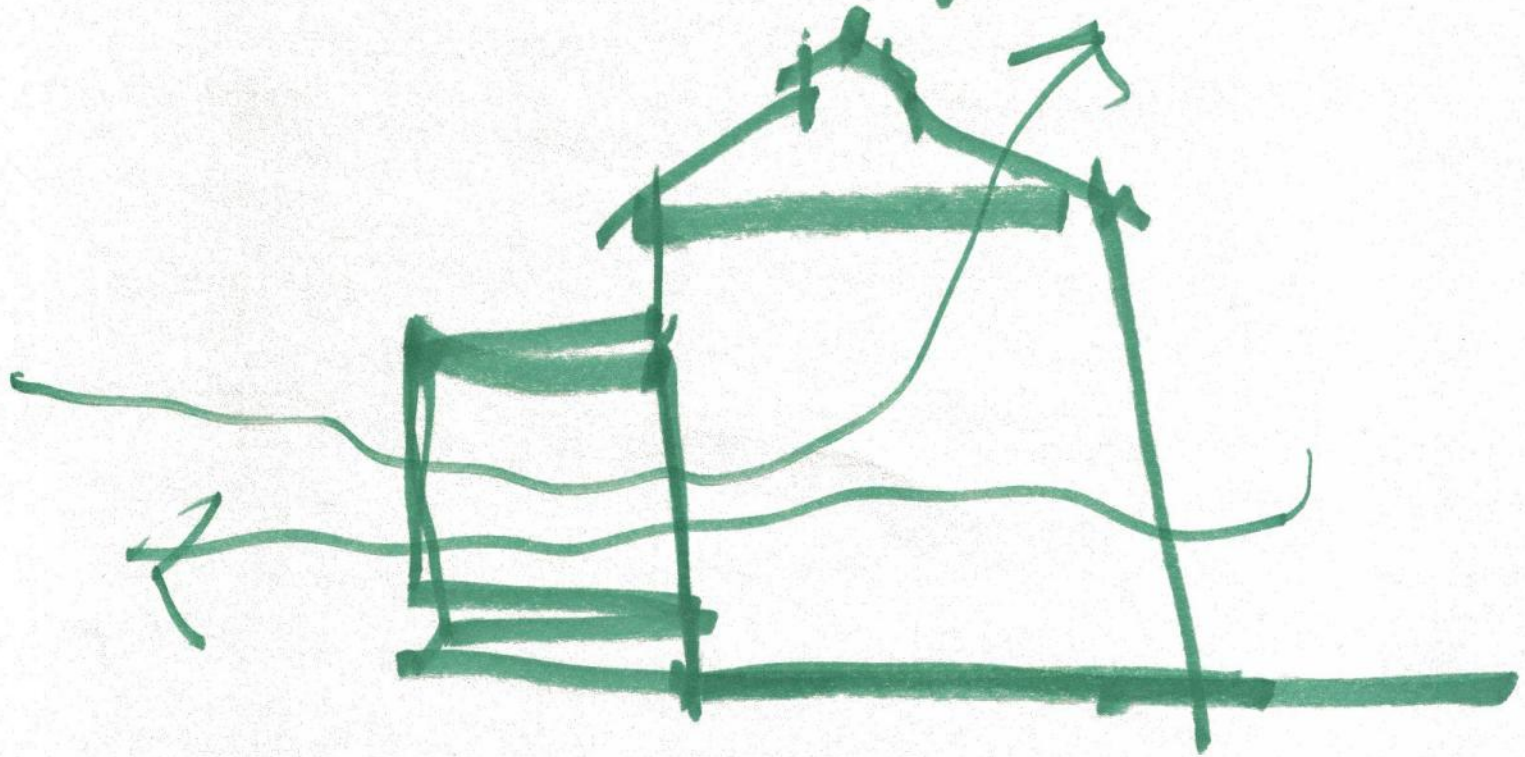
VENTILATE BASED ON CO² RETURN

ENERGY PROGRAM : GOOD OPPORTUNITIES

FANS HAVE BEEN EFFECTIVE FOR
(MORE COMMON SOLUTION) PERCEIVED COOLING

~~EFFICIENT MECH SYS. SPACES~~

NATURALLY VENTILATE?



* LIGHT ZONING
VENT. ZONING

VENTILATE ACTIVITY ZONES

IF PASSIVE / NO MECH DUPLICATION

HIRE STUDENTS - SAVE ON CONTROLS

★ MEASURE CURRENT TEMP RANGES

★ DO HUMIDITY TESTING

OPPORTUNITY FOR EVAPORATE COOLING

SPACES W/ LOWEST AMBIENT LIGHT NEED
ARE EASIEST TO DAYLIGHT

★ STRONG RECOMMENDATION FOR
RADIANT FLOOR HEATING

VERTICAL RADIANT MAY BE EFFECTIVE ALSO

> ISOLATE MECH SYSTEMS ≠ VENTILATION

> SUB DIVISIONS IN NATATORIUM

□ 80-81°

▭ 80-81°

⌋ 86°

① 104°

POOL BUNKETS REQUIRE

- GOOD DESIGN

- CONSISTENT USE

- STAGING



TEACH:

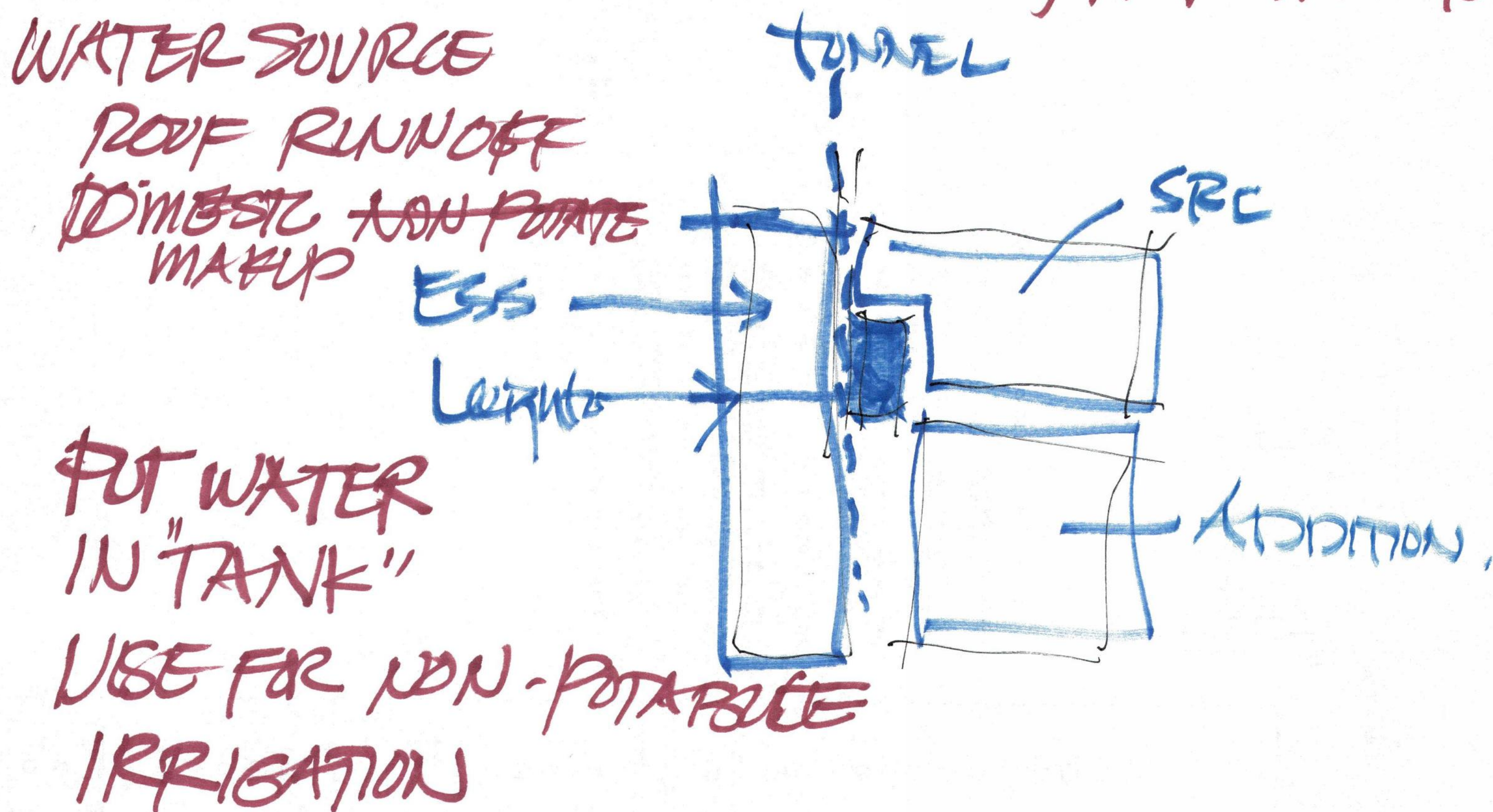
- ABOUT SUSTAINABILITY
- ABOUT HOW TO USE THE BUILDING
- SPACE BY SPACE SUSTAINABILITY
FEATURES NOTED
- ? • HOW REACH OUT / INCREASE
AWARENESS
- METER WORKOUT INTENSITY
- RE REVENUE BEING BUILT INTO EQUIP.
- NEED TO PERSONALIZE TO GET
PEOPLE TO BUY INTO SUSTAINABILITY
- ARTISTIC / MORE NOTICEABLE
FEATURES
- REDUCE LOAD BY STRETCHING
PEAK TIME
- COMFORT CONTROLS.
- SYSTEMS THAT CAN BE
CONTROLLED BY STAFF ARE O.K.
- BUILDING AS DEMONSTRATION
- DEMONSTRATE WHAT IS IN TEXTBOOK

RADIANT FLOORS IN LOCKER RMS.

BUILDING MASS = STORAGE
POOL WATER IS HEAT SINK

SOLAR THERMAL WATER ISSUES

- POOL USE
- WATER WEIGHT ON ROOF
- DOMESTIC WATER
- USE LIGHTEN POOL TANK AS THERMAL BATTERY



SUMMER RADIANT COOLING FROM WATER SOURCE

* 1% FOR ART - USE FOR
SUSTAINABLE EDUCATION.

STRUCTURAL ELEVATIONS

- STEEL VS. CONC.
- , CONC. FOR THERMAL MASS 6 inch OK
- , SEISMIC/LATERAL LOADS

RADIANT HEATING = FLOOR VS WALL PANEL

NEED ENERGY MODELER (PASSIVE AS WELL AS ACTIVE SYSTEM)

NEED CFD. MODELING + COMFORT ANALYSIS
+ CO² CONCENTRATION

GENE: RFP FOR ENERGY MODELING
" " COMMISSIONING
LEED

DESIGN ELEVATIONS

DAYLIGHT EVALUATIONS BY END OF SD

* TOP LIGHT BIG SPACES

* GET MASSING & ENVELOPE RIGHT

* FIRE ACCESS - CHECK OUT W/CITY

CISTERN OVERFLOW

UTILITY RELOCATION.

AVAILABILITY OF DRAWING INFORMATION.

- SITE CONCEPTS FOR NEXT MTG.
- BUILDING CONCEPTS / BIKE PARKING.
- STORM - WORK W/ KPER

X • VEHICLE PARKING.

• SITE AGENDA.

WANT, NEED, PRIORITIZE

* POTENTIAL FOR NEW PARKING REQUIREMENT

LEED GOLD

~~MEV.~~ MODELING?
MEV.

35% SAVING OF O.E.C.

WATER CONSERV.

LEED D.E.S. REQUIREMENT