BUILDING, LANDSCAPE AND SECTION

by Daniel B. Johnson

Bachelor of Fine Arts St. Lawrence University June 1977

Submitted to the Department of Architecture in partial fulfillment of the requirement of the degree Master of Architecture at the Massachusetts Institute of Technology

February 1992

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Department Committee for Graduate Students

LIBRAHIES

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DEDICATION

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Dedicated to my teachers:

Doc Holladay and Tom Chastain who sat tight in the saddle and let loose on the reins;

Fernando Domeyko for his commando ZOK ZOK criticism;

Richard Tremaglio and Chris Risher for their commitment to subvert the anticipatory and discipline of process and transformation;

Maurice Smith for his rigor of formal inquiry, and his devotion to teaching real architecture.

Thank you all for your truely critical approach, your ever so slight encouragement, and for leading me to a method of continuing of my education.

ACKNOWLEDGEMENTS

I acknowledge:

My Parents, who were my first teachers;

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Kairos for photography of the work documented here;

Mark Hans Daley, and Sue for their semester long help and criticism of the notebook (Mark) and final book (Mark and Sue), most especially for their long hours of help in the final production;

Also to my office mates (Julia for her continual criticism) and Al Cynie and Julia for the commitment to our health,happiness and productivity;

And lastly to Chris for his insightful late night chats and for keeping my non-academic life from exploding.

Thanks to all of you, in whom I had the utmost confidence and who's influence can be seen throughout a productive semester of which I am very proud.

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Submitted to the Department of Architecture on January 17,1992 in partial fulfillment of the requirement of the degree Master of Architecture at the Massachusetts Institute of Technology

ABSTRACT

All buildings have in their section a relationship to the landscape on which they are sited. Therefore we as inhabitants of these buildings may or may not have a relationship with the landscape. It is the supposition of this thesis that the relationship is important, understandable, and assimilable. Selected buildings and their landscapes were examined to reveal some of these relationships. A notebook where observations, processes, thoughts and works were recorded, was used as a method of inquiry. Finally a design which draws on the assimilated knowledge of the building/landscape relationship is put forward.

Thesis Advisor: Thomas Chastain

Assistant Professor of Architecture

Thesis Readers: Fernando Domeyko

Lecturer

Richard Tremaglio Adjunct Professor



JACK WELPOT, PAINTED TRUCK, 1979.

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INTRODUCTION

This thesis is set up with a methodology to generate the design of a building and a body of understanding. This is not a self-indulgent process; one has a responsibility to make the method/process clear to oneself and to others. It was planned that the synthesis of this understanding and it's manifestations in a design become observable to me and to the reader.

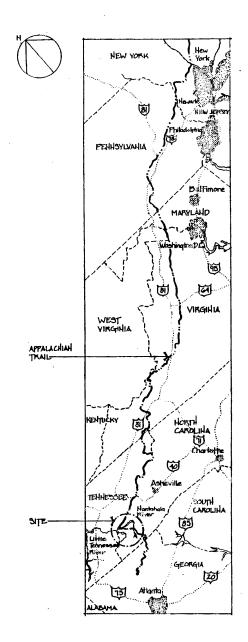
The manner of making this clear was to keep a notebook in which observations, analysis, and integration were recorded. The process was set up so that initial observations, (drawings, writing, photos), and analysis, (drawings, writing, photos, diagrams), culminated in design, and documentation. Layout of the notebook was coordinated with the requirements of the final product therefore in most instances it was possible to copy the notebook directly for the final book. The assumption was that the directness allowed a clarity and simplicity that would make better observations and interpretations, of architecture as well as observations and interpretations of this working method. The intent was for the design process to be integral with the notebook, therefore in the final thesis (notebook), assimilation, design, and process all become evident. It is a way to look critically at a process, to gain understanding of how one works, and to begin a more disciplined approach to the observation, understanding, and integration of architecture which we deem exemplary.

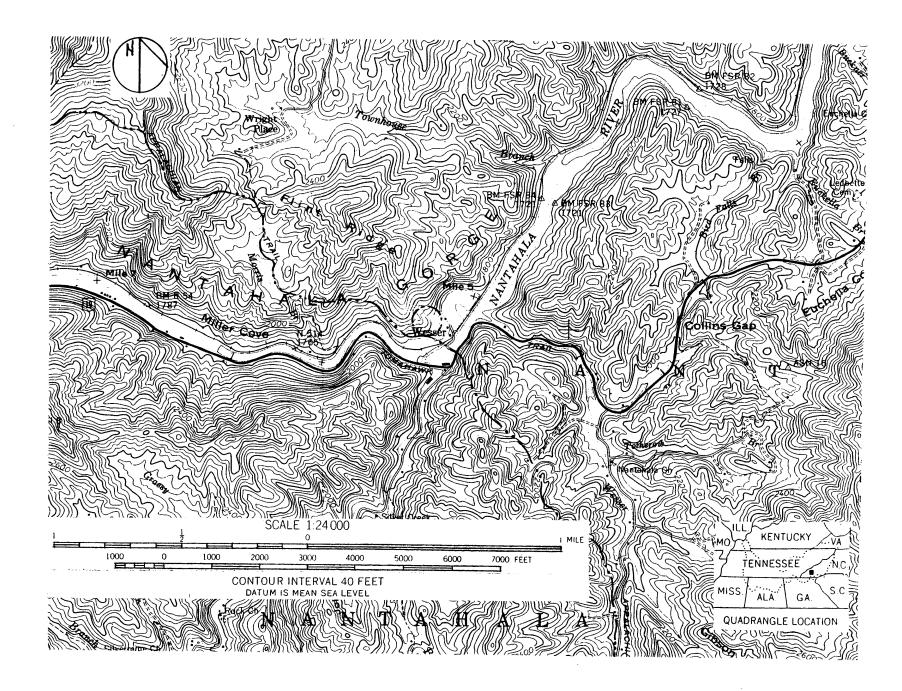
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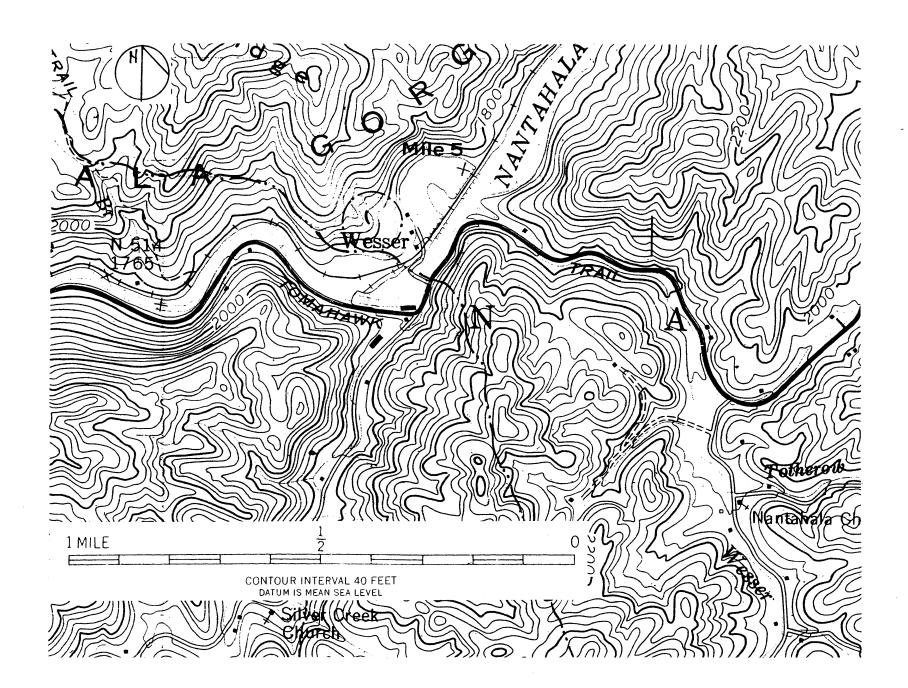
A familiar premise is that man in addition to his spiritual identity, is part of nature. He is a biological organism, subject like all other creatures to the laws of nature, This implies that he is constantly affected by his physical environment . Each of us is dependent on it, not only for the material necessities of life but for health and for the balanced functioning of our senses, and ultimately for emotional well-being, The subjective relationship to the environment, how it affects our senses is the one we know the least about; but we are beginning to study it and recognize its importance, We know that sounds and lights and forms and colors and movement and the other living organisms in our environment influence, for better or worse, our psychological and physical condition; this is merely another aspect of our participation in nature.

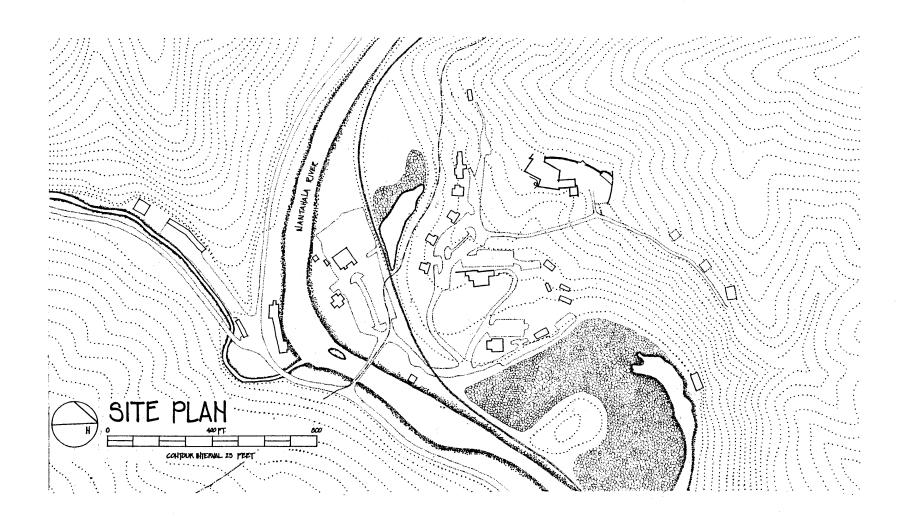
SITE

The site is in very western North Carolina in the Great Smoky Mountains. The client is Nantahala Outdoor Center which is an outdoor recreation and educational community. The terrain is very steep, so steep in fact that the Native Americans named the region Nantahala, or "land of the noonday sun". There will be two sites: one where the site is carved to allow the building to sit in the land, and one where the land is not carved and the building is set on the land.





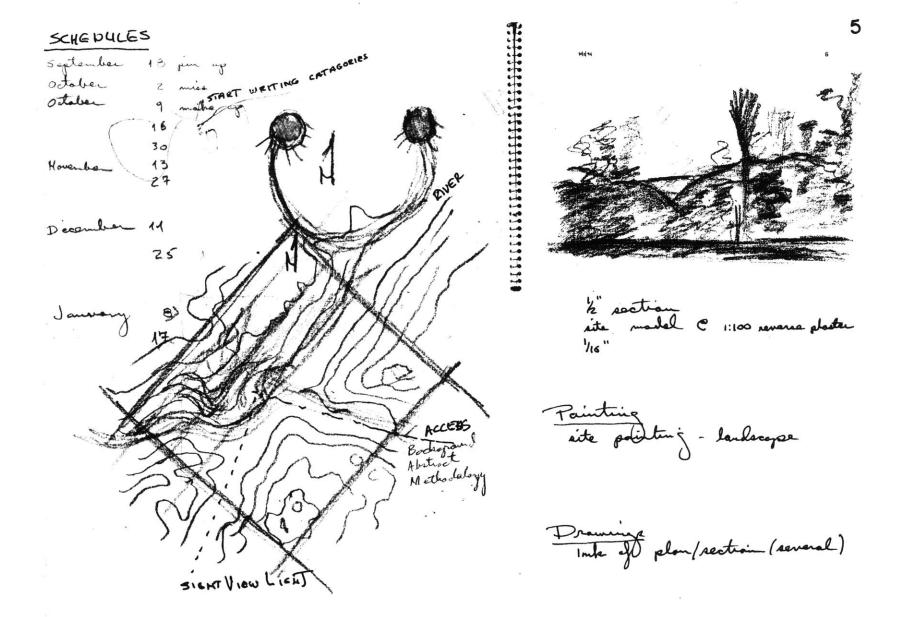




Stein Gertrude: Lectures in America, "Plays" (Boston: Beacon Press, 1957, after Random House, 1935),p.125

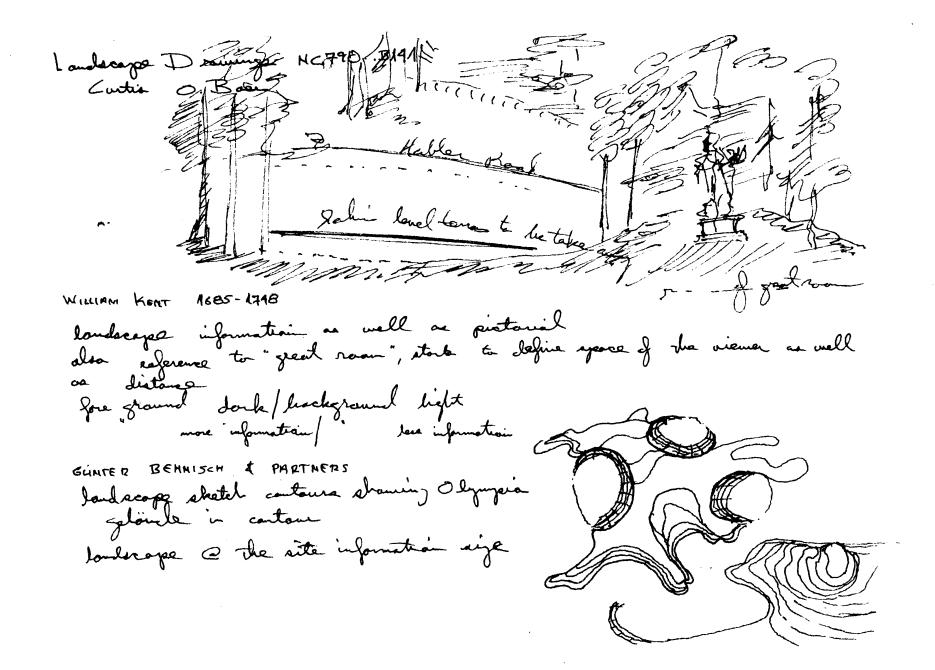
"The landscape has its formation and as after all a play has to have formation and be in relation one thing to the other thing and as the story is not the thing as any one is always telling something then the landscape not moving but being always in relation, the trees to the hills the hills to the fields the trees to each other any piece of it to any sky and then any detail to any other detail, the story is only of importance if you like to tell or like to hear a story but the relation is there anyway..."





METHODOLOGY

An intent of this thesis was to develop and employ a method or system to the way I examine the world. Constable says in The Art of Nature "... system can by no means be thrown aside. Without system the field of nature would be a pathless wilderness; but system should be subservient to, not the main object of, our pursuit." The method or system was to maintain a "sketch" book where entries were made of observations and thoughts, copies and originals, designs and transformations. There was to be a regular process that focused on the steady digestion of form and it's generation. The idea being that the sketch book becomes a way of thinking. It is a many layered text of images and words richer than either standing alone. The sketch book is integral to the design process and to interpretation of the world. Using this method of sketching, drawing, writing we are able to move beyond what we see into a different realm from the real that is observed. "Drawing is of such excellence that it has an independent life, being capable of creating for itself natural objects better than nature itself." This quote from Leonardo aptly discribes the transformation which can take place through the cognitive and physical filters of the sketch book.



The method of using a sketch book was chosen because the openness of its process allows many things to happen simultaneously. It allows for the development of drawing as well as the investigation of form. It allows for writing as well the use of color, the generation of new ideas as well as copying from others. Analysis and synthesis can co-exist. The sketch book allows us, to use the phrase of poet Paul Valery: "Trouve avant de chercher" (to find before looking).

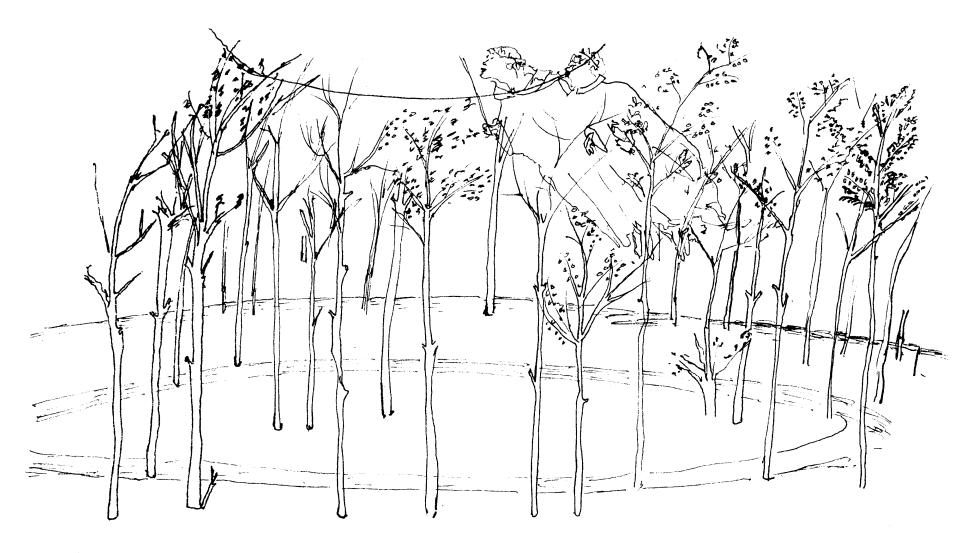
It is important to realize that it is not what we draw; rather it is what we see. However through drawing what we see returns to the world of the physical. Drawing what we see becomes not only part of our visual memory but also part of our motor memory. Along with drawing comes an understanding that is not only cognitive but physical. In producing; our work is filtered through this cognitive and motor memory. Drawing and sketching, information becomes (as Katsuhiko says in his introduction to the sketchbooks of Halprin) part of our creative memory. Images and information become imbedded in such a way that recall brings layers of higher intellectual and physical understanding in association. The sketch book is the start of a life long process of establishing creative memory and progressing towards this higher understanding.



i. Alexander Cozens: Number 7 of The Various Species of Composition of Landscape, in Nature (No. 61).

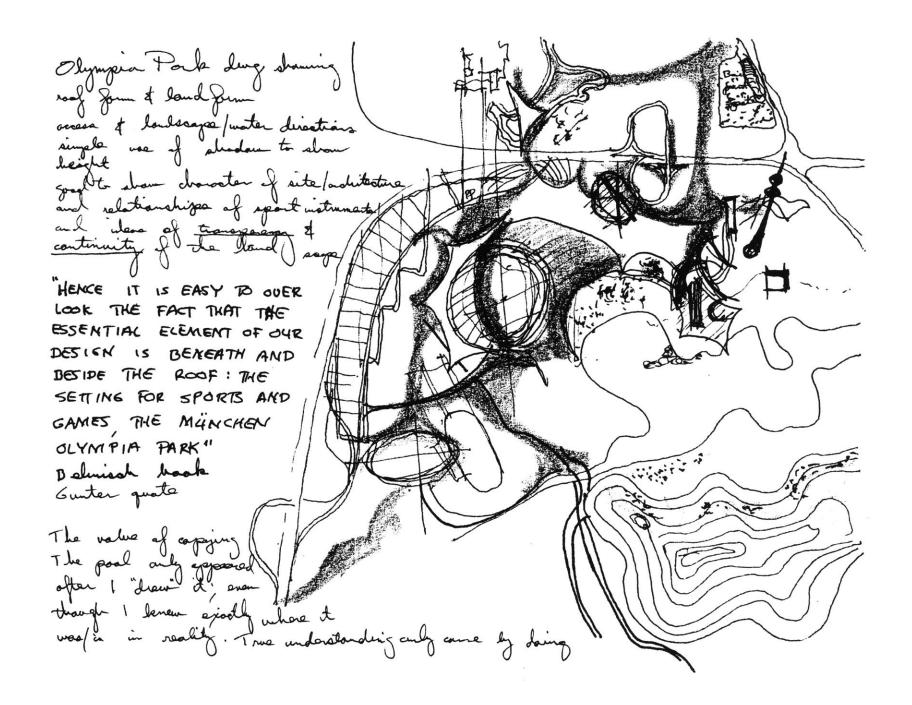


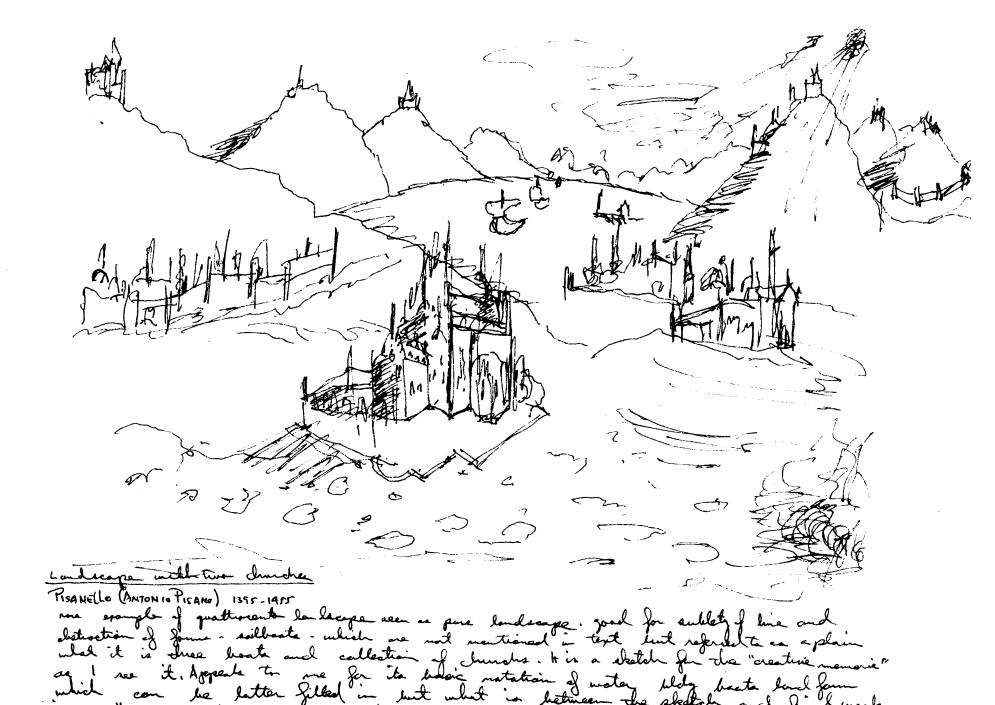
ii. Constable's copy of the above (No. 62).



SANDRO BOTTICECCI
1440 - 1510
DANTE & BEMTRICE RISE TOWARD HEAVEN

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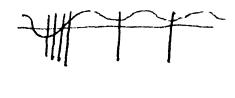
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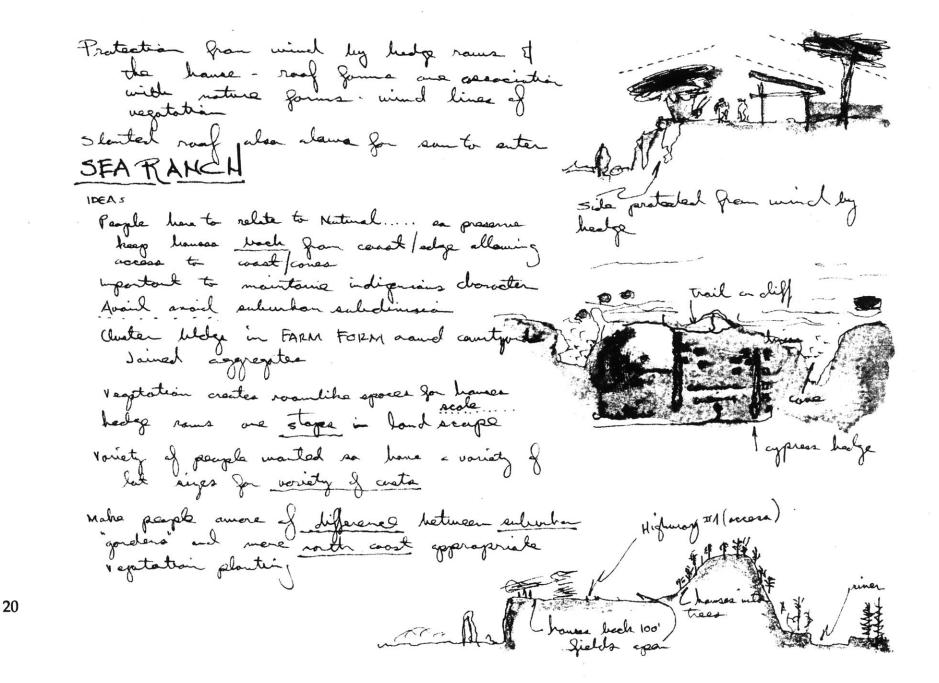
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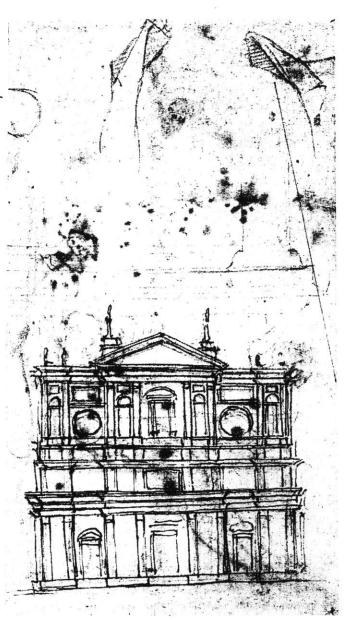
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THEY CAN BEGIN WITH ANY I DEA. THEY CAN BEGIN & AFOUND ODJECT THEY CAN BEGIN & NO ODJECT, THEY CAN BEGIN & NO ODJECT, THEY CAN BEGIN SOMETIMES EVEN WHEN I'M SWEEPING THE FLOOR AND I STUMBLE AND MICH A FEW PARTS THAT HAPPEN TO THROW INTO ACUBAN ANENT THAT SETS ME OFF IN THINKING AND SETS OFF A VISION OF HOW IT WOULD FINISH IF IT ACC HAD THAT KIND OF ACCIDENTAL BEAUTY TO IT."

PAULO SMITH

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PAINTING

AAlto 1898-1976 pg. 26

Just as it takes tame for a speck of fish spawn to develop into a fully-grown fish, so, too, we need time for everything that develops and crystallizes in the world of ideas. Architecture demands more of this time than other creative work. A minor example that I can mention from my own experience is that what may seem to be just playing with form may unexpectedly, over a long period, lead to the emergence of an actual architectural form.

Le Corbusier

Corbusier referred to his artistic method as "a marriage of contours" By allowing objects to share profiles or by interweaving the outlines of two figures, formal rhymes and spatial rhythms were orchestrated to create harmony. From this arises a third figure of metaphor or harmony.



PREDERIC E. CHURCH, ICEBERGS AT MIPHIGHT, LABRADOR 1059.

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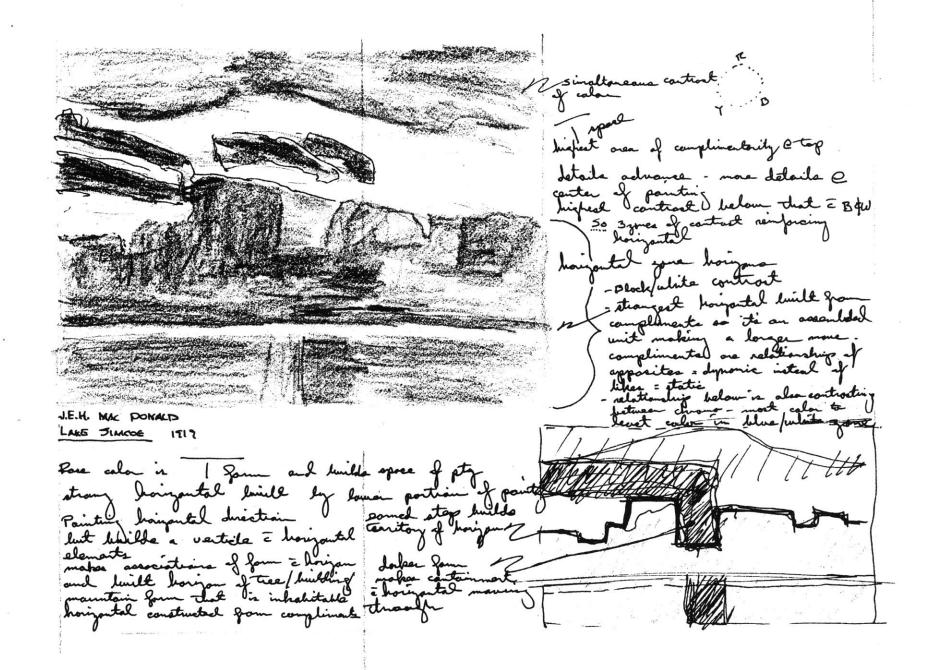
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ORANGE VLOLET
YELLOW + RED + BLUE

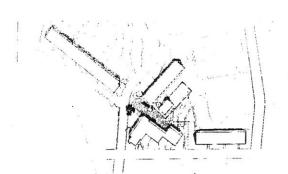
where as blue on right side of painting has addition of white which makes it coal and contrast to arouge/worm but is light so some in value. It is much lighter in Value is other blues/violet so advances giving spose to common and produces a torque on pull an plane of picture SPACE/torritory

DE KOONING 1757





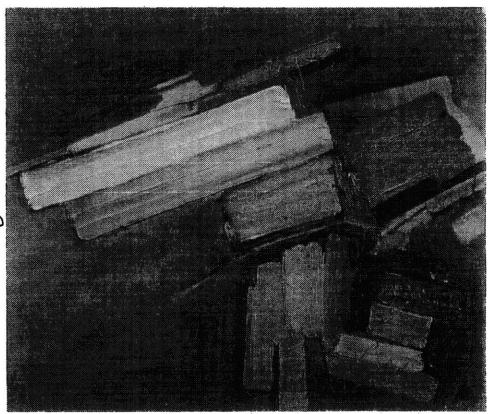
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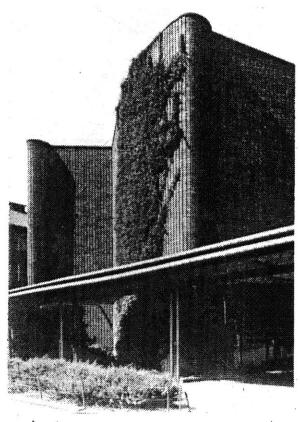
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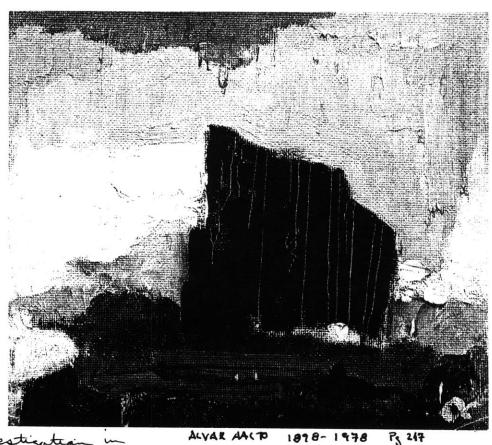
"My wife gladly asked Le Corbusier if he would eat with us. The table setting started out in a symmetrical fashion, and the various changes of the objects during lunch became the subject of an aesthetic analyses. The common objects of everyday life-plates, spoons, forks, bottles, and glasses-seen through his eyes lost their trivial utilitarian connections to reveal their real identity as plastic forms; the unique form of each object. This is what Le Corbusier meant when he said it was necessary to pull the string; to find the "gate of miracles" where the chaotic appearances of the forms and colors are reconciled and harmonized. His challenge was to learn " the rules of the game, the most beautiful game man has ever invented, the game of art". Seeing is not a gift of God but a discipline to be learned. The dinner table served as a model for visual analysis; it's components were like vocabulary and grammar of a visual language.

p 5 from luncheon with the Nivola's and Corbu



ALVAR AALTO 1898 - 1978p61
Two AALTS pointring which are investigations of abstract form. One "could" marine them to the abstract plane ar alevations. Taken with his quate am page 26 it is easy to see Jal his was a continual exploration which provided information that his sure was largered into creative memory whether it reappeared in his surdings in his paintings is of not that much importance.

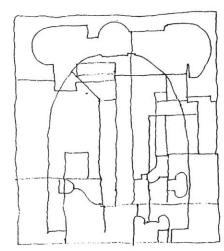




what is important is the investigation in another medium. This allows for transformations and interpretations which might not have boppened on a normal design path.

Not to mention experimentation that is an going in texture and color.

We percieve buildings in many many paper distance, color, perspective, time.



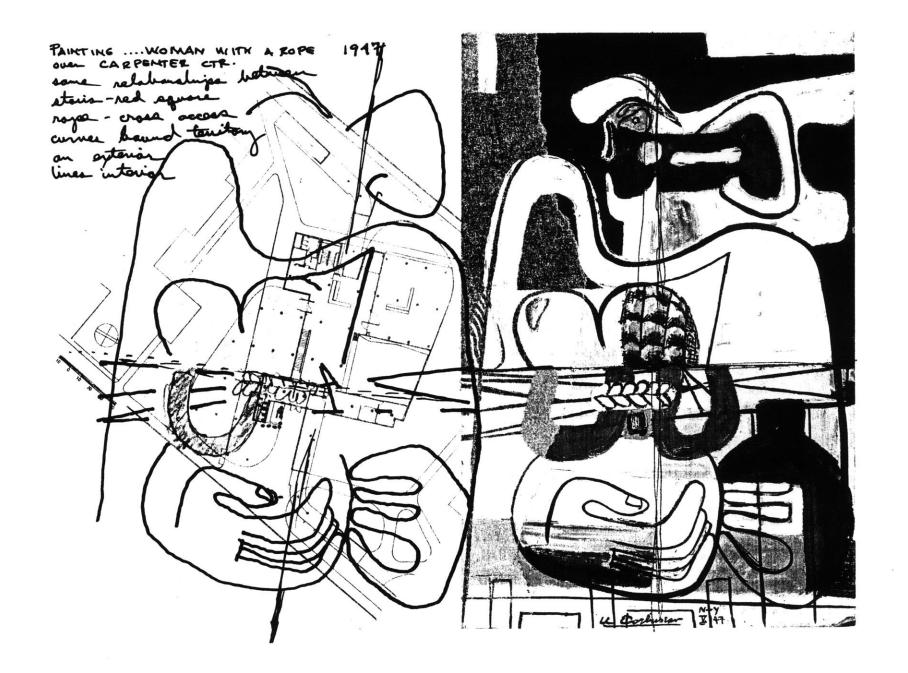
Kapas - Every Jum is a record of the origin"

Continuous. "Drawing is a language,

bone: Corlar plans from Vila Savaye all 3 levels superimposed on one another, looking much like his dismings on paintings, while his vight ourses not sat much as corpenter conta which has curred another and pilatis which were in line code male - ongle/P latis . Spreadle

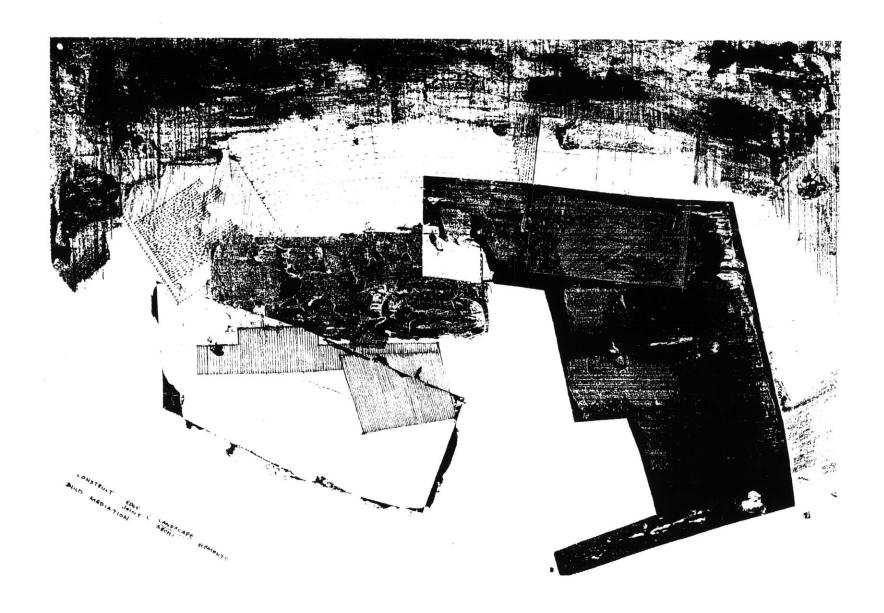
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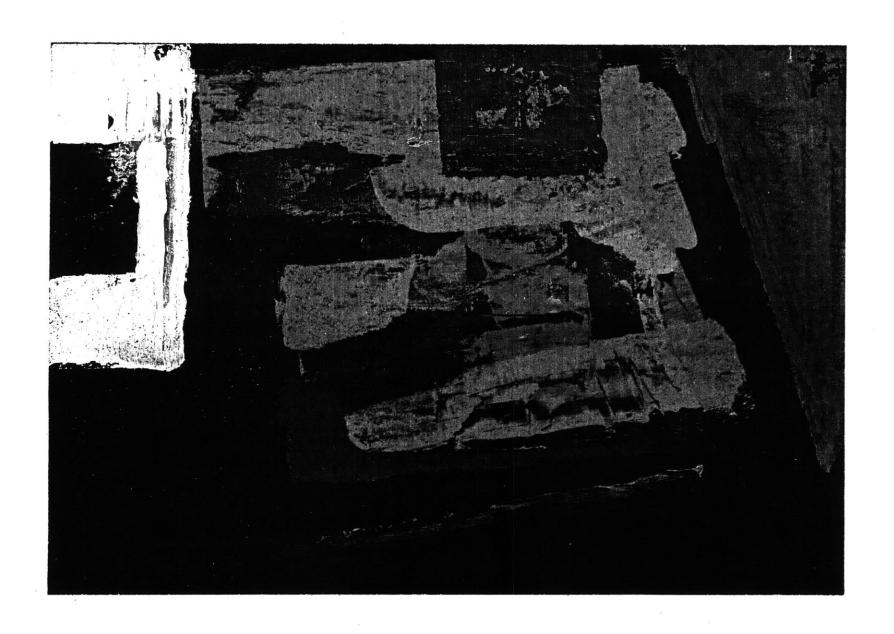
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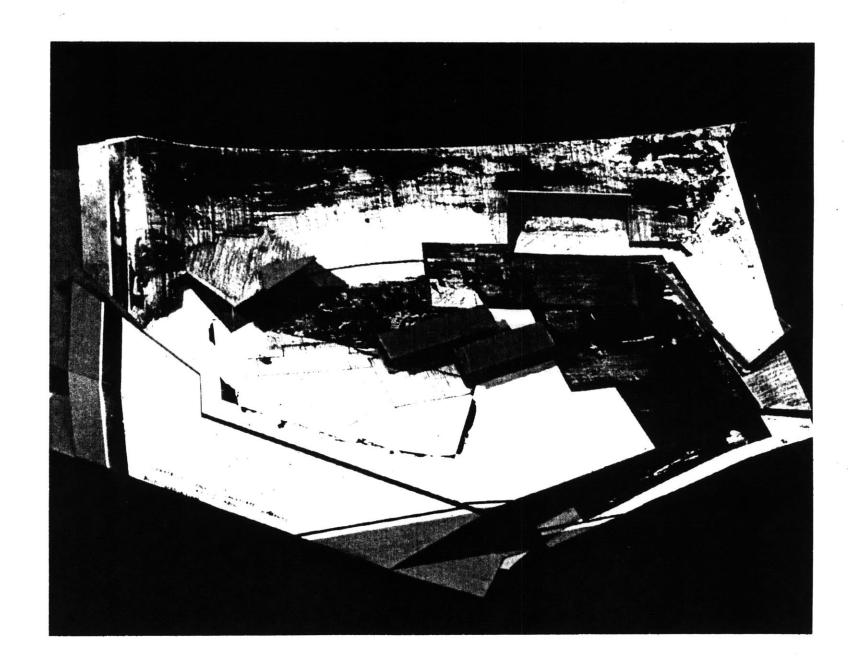




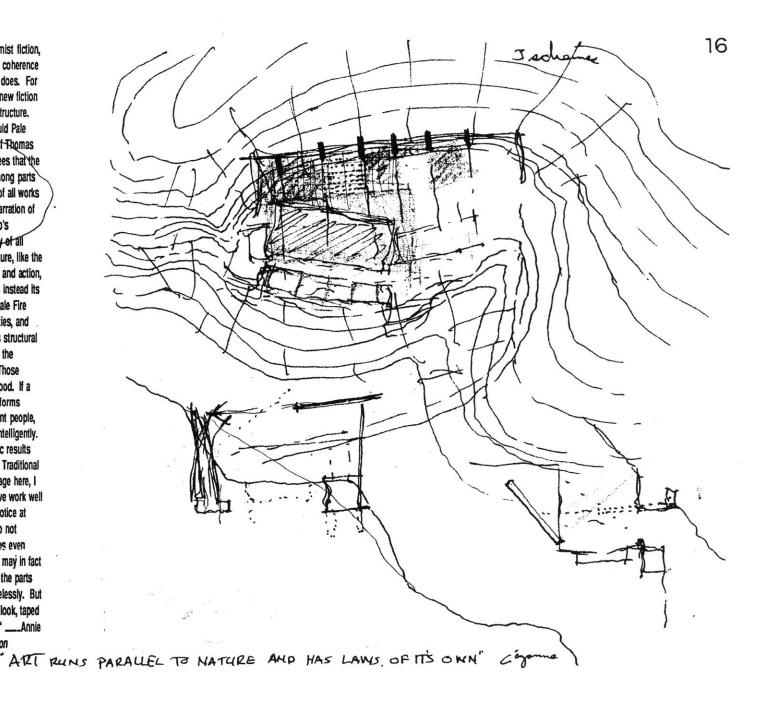


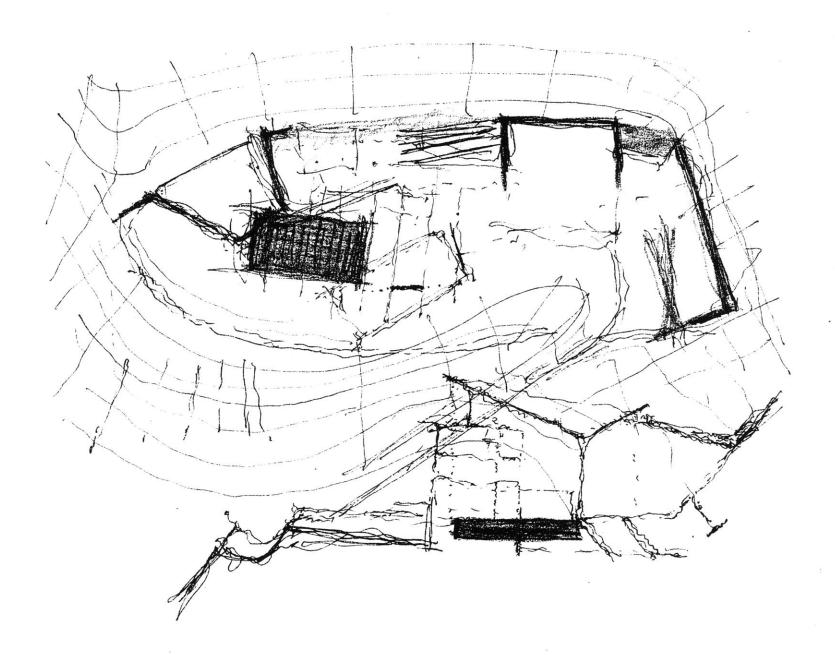


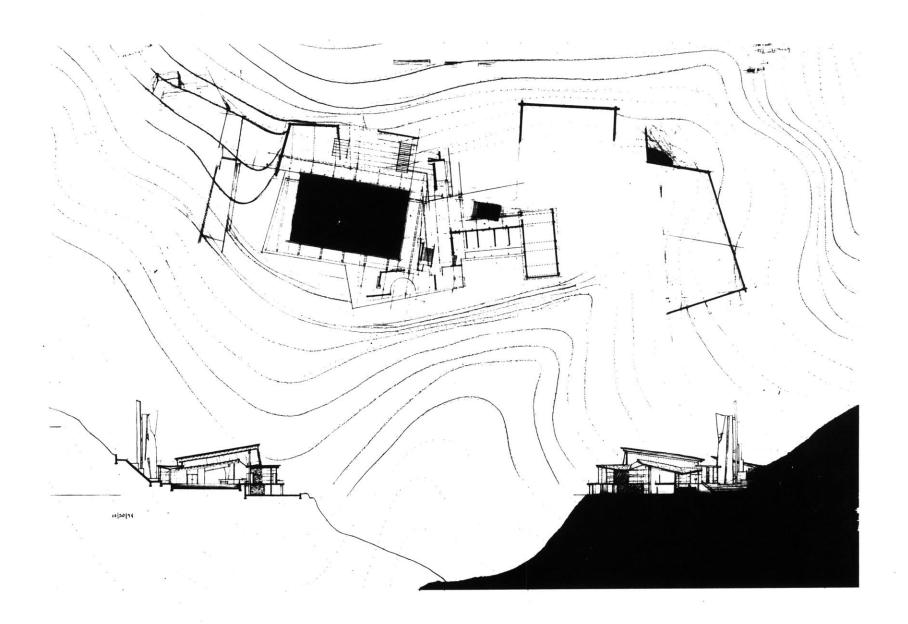


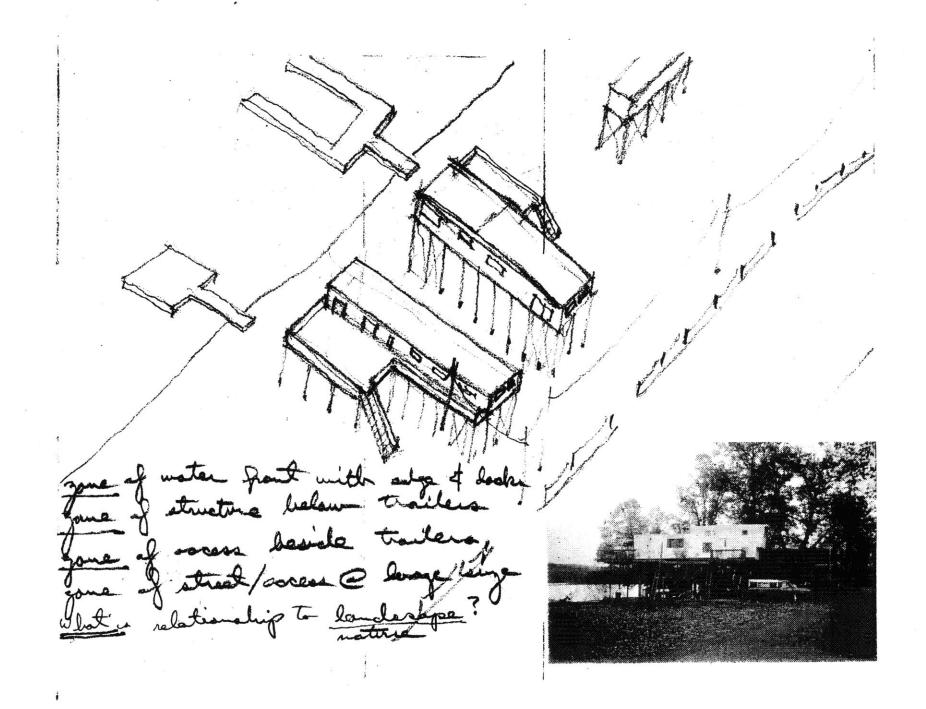


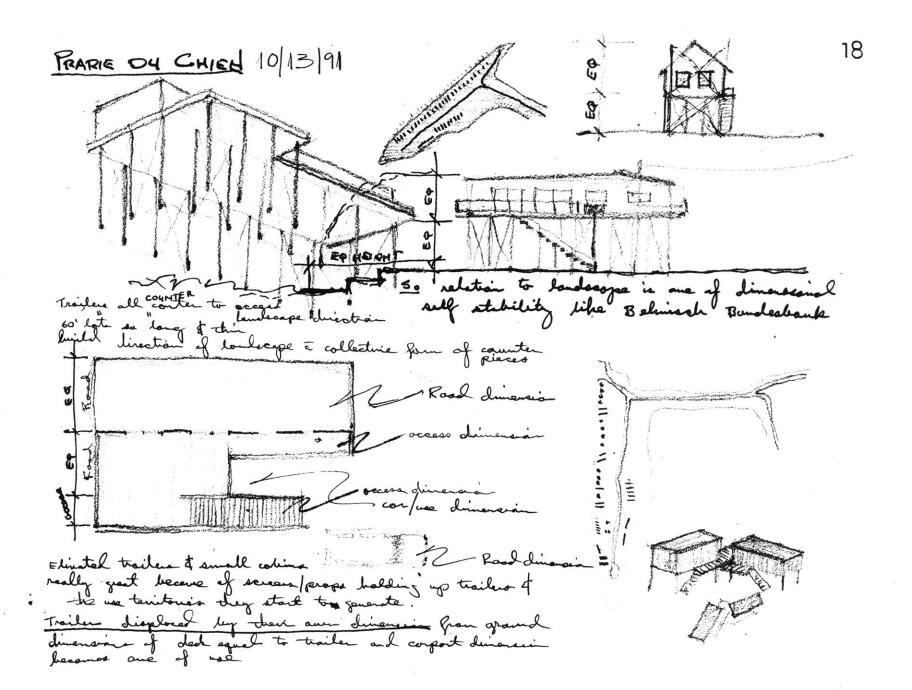
"Contemporary modernist fiction, in fact, requires more coherence than traditional fiction does. For one of the things this new fiction does is bare its own structure. (How long a novel would Pale Fire be in the hands of Thomas Mann?) This fiction sees that the formal relationship among parts is the essential value of all works of art, so it strip the narration of inessentials: like Hugo's excursions into history of all aspects of human culture, like the unities of time, space, and action, like emotion., It bares instead its structural bones, as Pale Fire does, and Invisible Cities, and Ficciones; it bares its structural bones, brings them to the surface, and retires. Those bones had better be good. If a writer is going to use forms developed by intelligent people, he should use them intelligently. It does not do to mimic results without due process. Traditional fiction has the advantage here, I think. In a conservative work well fleshed, we may not notice at once that the joints do not articulate, nor the limbs even meet the torso. There may in fact be so much flesh that the parts cohere as it were bonelessly. But it is easy to see, if we look, taped joints on a skeleton. "Annie Dillard, Living By Fiction

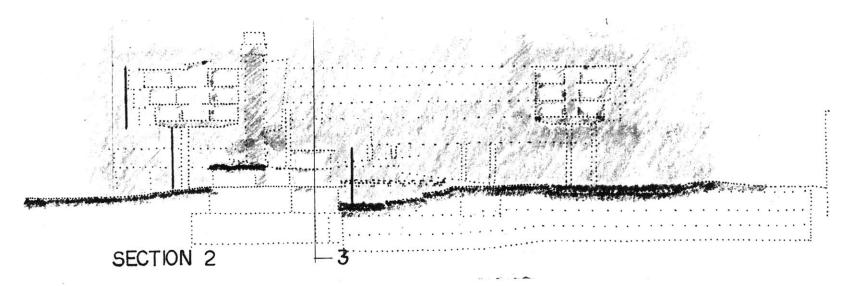






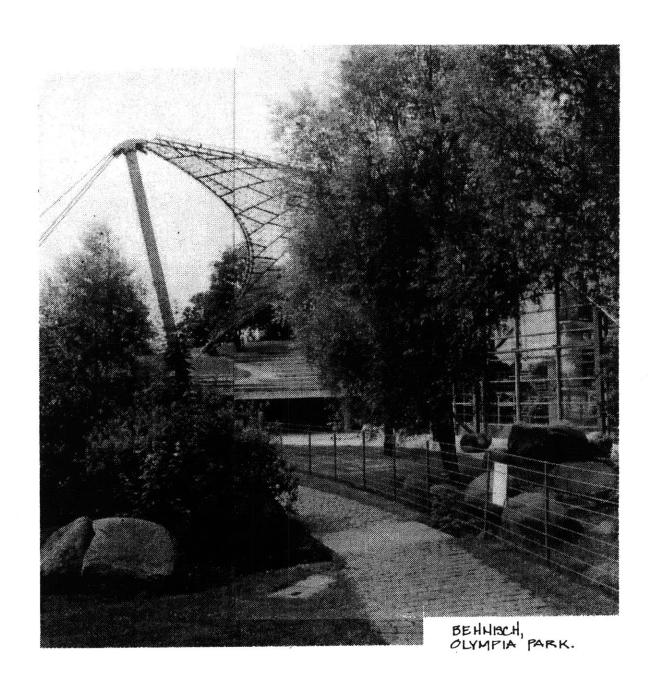


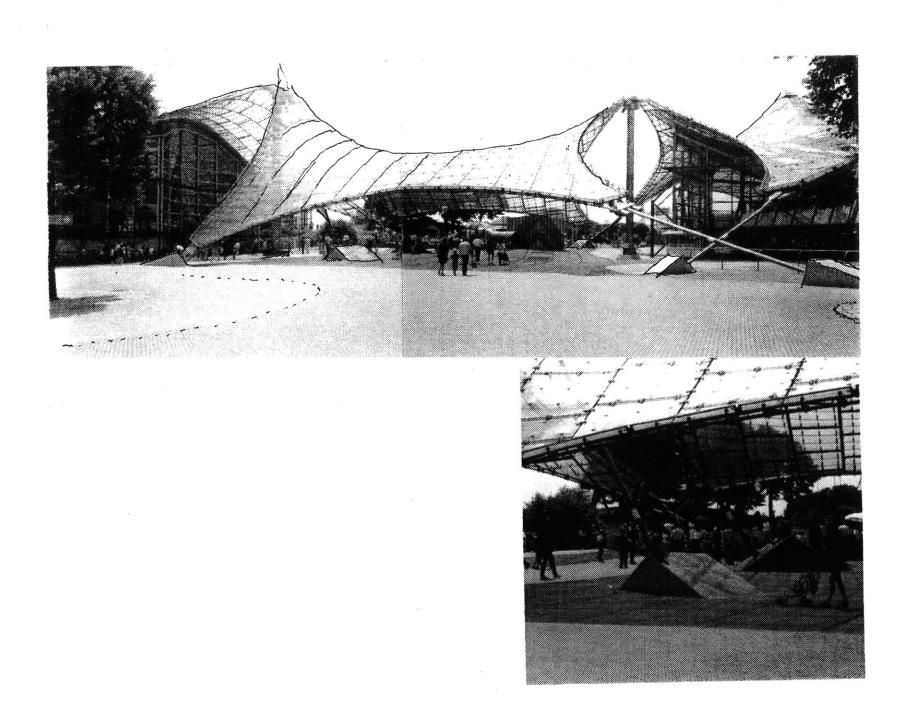




BEHNISCH, OLYMPIA PARK.

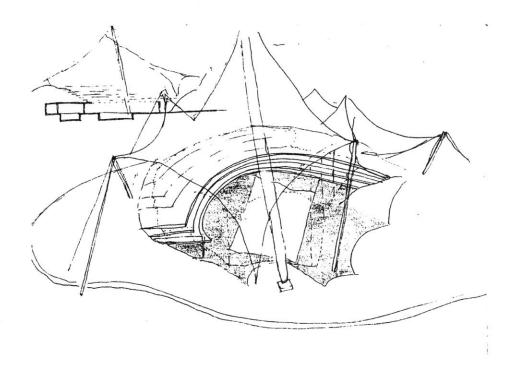
Dimensions - or in Solling water and the trailors here are dimensions measured off the landscape that report and build relationships. These are after self stabile as bonnested on page 56 in Mr. Smiths studies. Here the "ring" of the Dahmisch. Dundesbank in the auth dimension from the ground and that some dimension is the height of the building section that is let into the ground. This dimension is one of the first you experience as you cross the bridge form right to left as you spen the dip and enter building





OLYMPIC PARK

Whether one approaches the "Olympia Gelanda" (Olympic Landscape) from the train, by car, or on foot the first experience is with the landscape. All modes eventually lead one to multiple foot-ways traversing the landscape in the direction of the complex. The first association with architecture on the site is large and singular steel columns sticking up trunk-like above the trees. The trees begin at the station in alley fashion and loose their linear ordering as they are more distant from the station. Being a tensile structure hung from these columns, there is at first no sign of building or closure. As the angle of perspective widens around the park, more of the hanging roof structure appears above the trees. Below the trees, rolling grass mounds enfold the traveler along the granite edged asphalt foot ways. Side paths join the footways like tributaries guiding people to swimming, concerts, sunbathing, picnicking, walking and enjoying the park. The sectional experience expands beyond the height of the trees as the roofs of the stadium/swim-hall blossom like inverted lilies in a tropic response to the earth. The enormity of the project becomes tangible as the hills of the background provide comparison, for both size and form. The limits of habitable section are revealed as cables strike through the air and amorphous transparent roofs grid an amorphous collection of low hills. Underfoot the asphalt is broken into the texture of fist-size granite cobbles molded to the rolling paths that lead to the concentrations of structure ahead. The granite cobbles form in rings, truncating the spanning cables; as do the watery rings at a ships anchor chain.



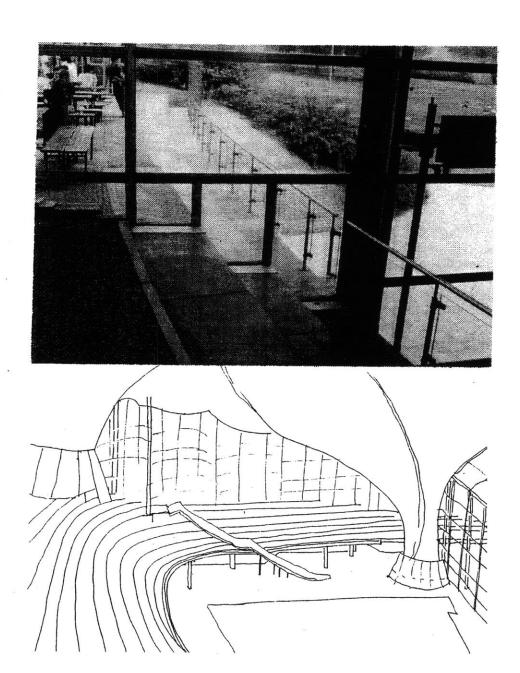


The cobbled ground plane moves one confidently into the tenuous section of bicep-sized cables and trunk-sized columns. Human size belies the vast catinary distances traversed. Roofs spring pointedly from cables to form the outreaches of shelter. Spidery spans gather the crowds as they move between buildings. Underfoot, the asphalt has turned to cobbles and carries, unbroken into/through the closure of the sport-halls. The topography carries also unbroken into the halls. Moving up the hill and into the swim stadium one is surprised to be on top of the hill. One is not on a podium or scalped plane, one is standing on the knoll of the gentle hill rising with the site/section.

Overhead the roof slopes down; suspending you in the space of the section, somewhere out over the pool. Looking out over the stadium, the plane of the pool glides underfoot. The exchange between the plane of the valley (pool, floor, earth) and the hill (stadium, roof) all takes place in the surrounding architecture/section. This exchange becomes spatially more tangible when one moves from the public/stadium into the private/changing areas.

Reversing back onto the path of entry, the steps lead down through the plane of the landscape. The feeling is of moving through the thin edge of hammered metal; cobbles beaten into the thinness of molecules. Molecules of the landscape run unbroken into the building. One descends to the locker rooms in the manner of Brownian motion, hovering in a zone between landscape and building.

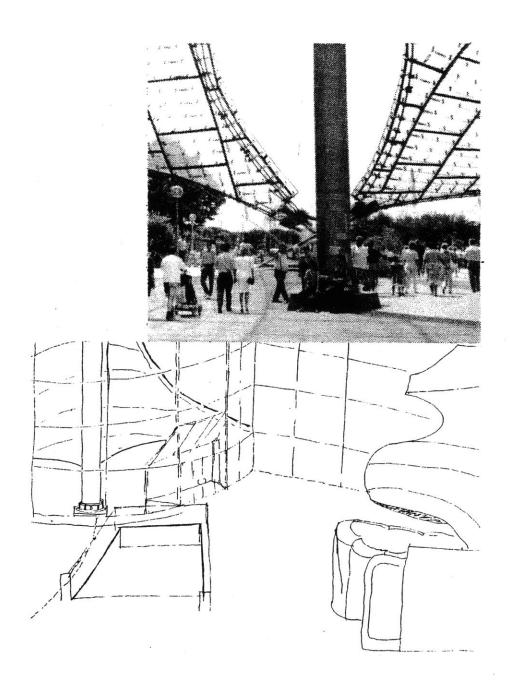
The thinness is further revealed by the ease with which a large tent column pierces the landscape, holding it for view, like a giant dragon-fly under



glass in a specimen drawer. Upon reversing the entry direction, the column is viewed very clearly in front as one descends through the cobbles. Offcenter of the stairs, it is quite clear that the column is not anchored in solid ground but merely pierces the landscape on the way to it's footing below. As one had associations with the column above the landscape, one also moves past it and associates with it below the landscape. The movement around the column has been in plan and section. The treatment of the ground plane is too tactile, too tangible for one to be unaware that one is moving about on/through it, creating the section.

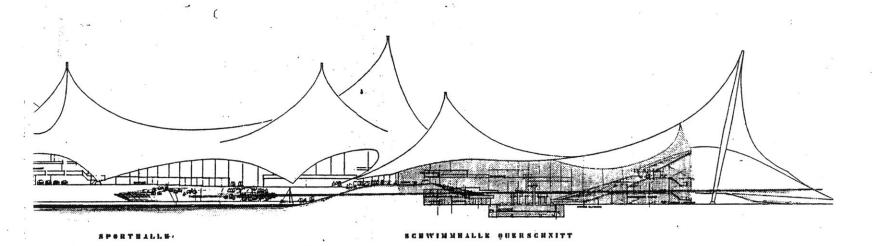
Once down on the tile surface of the locker room area, the direction is again reversed and one is headed in the direction the of entry. Before one, through the open risers of the stairs, and to either side, the tiled surface of the pool-deck runs unbroken through the facade and onto the plane of the valley landscape. The plane of the hill/stadium floats overhead. Similar to surfing; the rider remains suspended between the two surfaces; hanging ten in the tube of the section. The pool runs out before, like the waters on a gently sloping beach. In the background the green hills rise again; the last wave of the Bavarian Alps.

At the size of the landscape, the planes are quite evident. On the hilltop level, cobbles cover the gentle mound which changes to the stadium seats. The curve on the seats originates like an arm from the shoulder of earth that rises from the belly plane of the pool. The valley/terrace/pool plane slides under the hill/stadium/seat plane; the exchange is in the section of the stadium. Always the movement on the plane is uninterrupted by the movement of a higher or lower plane, and the



exchange/overlap occurs in the space of activity; the space of the spectator. The space is active because an exchange of two planes has been built in it. On the plane of the hill, one is aware of the ground /valley plane sliding under; on the plane of the valley, the hill/stadium curls above. In between the space/the viewer becomes a participant in the exchange, and landscape becomes part of the section, rather than a tabula on which sits a pedestal on which is placed a building.



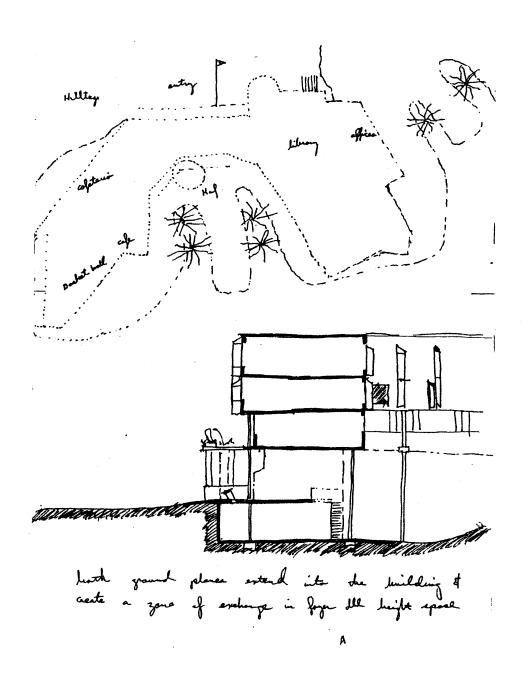


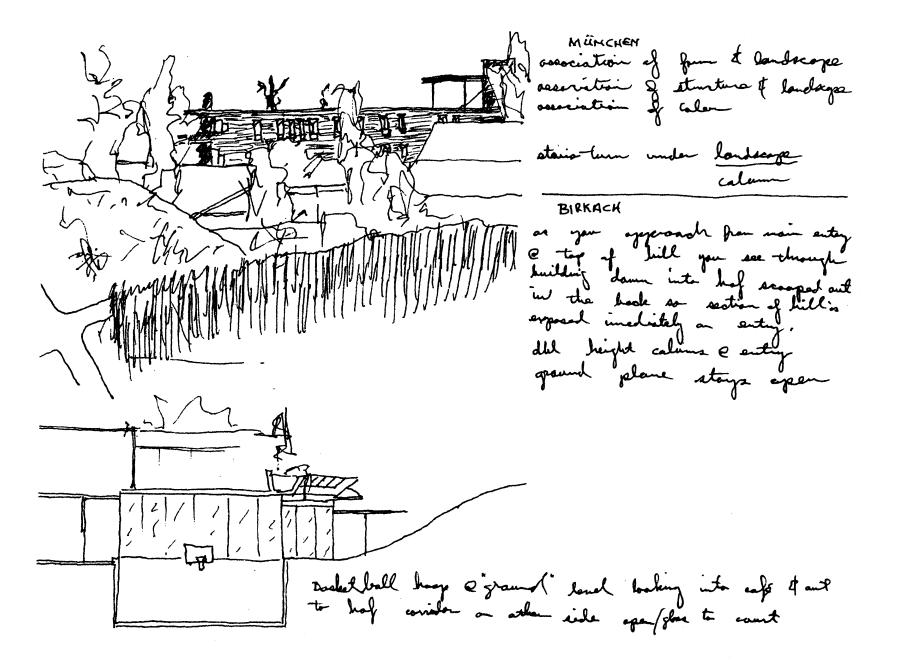
BIRKACH

The cobbled walk rises gently toward the protective overhang above the entry of Birkach Lutheran Study Center. Shortly before the door, a large matted grill bridges the junction of the cobbled outside and the polished travertine inside. The fuzzed texture of the grill occupies a place in the span between the rough granite and the polished travertine; making dull a place in the shine of polished stone. Light floods in through a large double-height glass facade that drops below the rail before one. Standing at the rail, the polished surface runs to the left and right, leading into wings that enfold the courtyard in front and below.

The experience of approach from below is a duplicate. The plane of the ground slopes gently (now down) to the facade. The juncture of the cobbles is again bridged by the fuzz of the grill and the travertine shines ahead. The rail marks the edge of the floor above, which has been held back from the facade by several meters, creating a double-height space. At the back wall, under the entry floor, light beams down through a large, short concrete tube that pierces through from the cobbled entry above.

In both entry sequences the movement is on a slope toward the building, the entry is covered by an overhang and underfoot are cobbles. The building is narrow enough so that light pulls the gaze through into the space beyond. As in the Olympia Swim Hall, the exchange between the two planes is in the section. In both cases the two planes, valley and hilltop, slide unobstructed over/under each other to build an exchange in the section. At the





Lutheran Study Center it is in the space of the foyer above and the lounge below. The two pieces of landscape exchange in the space of the section.

The lower landscape which is the court is in actuality the bottom of a space that is scooped from the top of the hill. If one extends the curvature of the upper entry plane, it clearly completes the arc across the court to the swelling landscape on the opposite side. This carries the visual association of the upper entry plane even further into the space of the section. The landscape/court is in the territory of the section. Also similar to the Olympia Park, the thinness of the plane is demonstrated by its easy penetration (in this case by the light tube). Though the movement around this penetration is not so dramatic as in the swim-hall, it is still viewed directly on the stair descent through the sectional space of the foyer lounge. The approach is not one of reversal but one of a quartering tact. Again the landscape is made tangible.

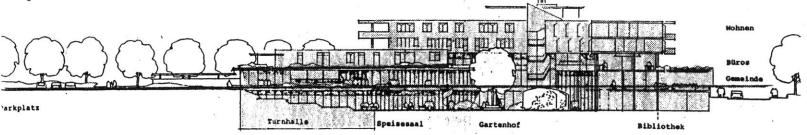
Sectional experiences also occur at other entries to the building. Transparent bridges span deep vegetation-covered landscape cuts that allow light into the lower levels of the building. The cuts allow one to see the full section of the building and the bridges allow one to enter into the middle instead of the bottom of the section. The cuts allow light to penetrate from one side of the building to the other. Looking into the building the gaze is often out the other side, trapped by the landscape. The most dramatic situation is the gymnasium area. Looking from the terrace or the cafeteria into the building, the view is across the space of the playing floor. (The gym is below the grade of the courtyard and cafeteria level). The view continues through the access and the offices out to the sloping

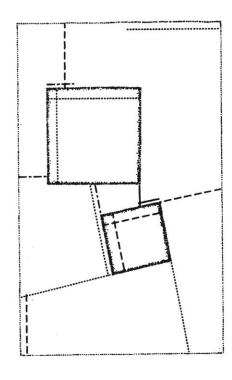


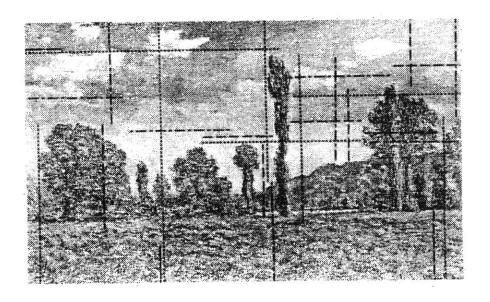
cut of the land near the building edge. This is a visual relation with the landscape and not a built one, however, it reinforces the ones that are built. The vision is always one of the land moving in section; either up or down from the position of view.

In the same section of the building is a strange built relationship with the landscape. The gym floor is let down into the land and in the area of high risk damage (the area at the level of the playing surface) the walls are all block or cast. At the upper levels though (the level of the landscape) the walls are glass; looking either to the garden or into the cafeteria. Either by coincidence or design the basket ball hoop is at the horizon; which means that one is always shooting to the level of the garden and thus always making contact with the light and garden/landscape. The pun is haut kitsch: score with the landscape!

Looking at the landscape size, the top of the hill was scooped out, and the building was placed within. The building was not placed so as to completely fill the space. It was built in such a way that it binds the landscape and section together. Through devices such as reference levels, roof-top gardens, the exchange of the two planes in the building, and dimensional relationships, the success of the tie between architecture and landscape is assured.







Claude Monet: Poppies near Giverny, 1890

"Double-directionself-stabilities and displacements demark major definitions-tallest poplar bothby its own height from right-hand boundary, and by "frame's" height from left edge, etc... The (picture) "frame" remains a participant in the "landscape" field."

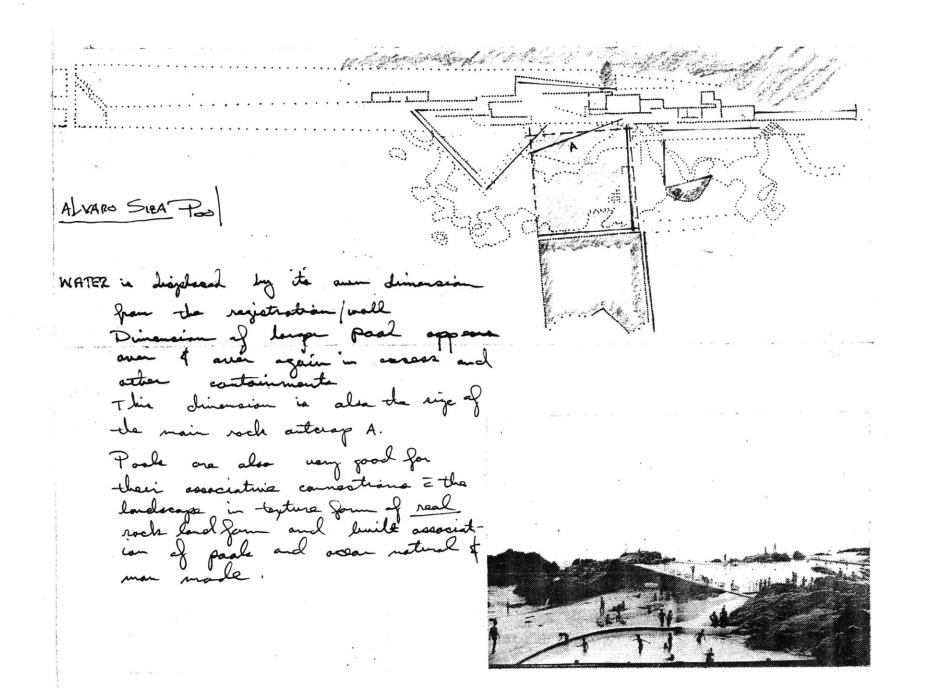
Similar structural relationships/displacements are observable in almost evdery work illustrated in Albert Skira's 1949 History of Modern Paintilng!

Kasimir Malevich

Caree Rouge et Caree Noir, 1915

"Each square is finitely boundary-positioned as shown-by its own dimension, the other's and / or the displacement (length) in extension of left-hand side of (small) rotating RED square which bisects lower side of (large) orthographic BLACK square Even "passings" from BLACK to within RED (full tape) are self-stable/equal and the whole is "solidly"/completely constructed".

Dimensional Self-Stability and Displacement in Field-Ordered Directional Alternations Maurice K. Smith Places Volume 5, Number 2 Page 72 MIT Press 1988 Cambridge, Ma

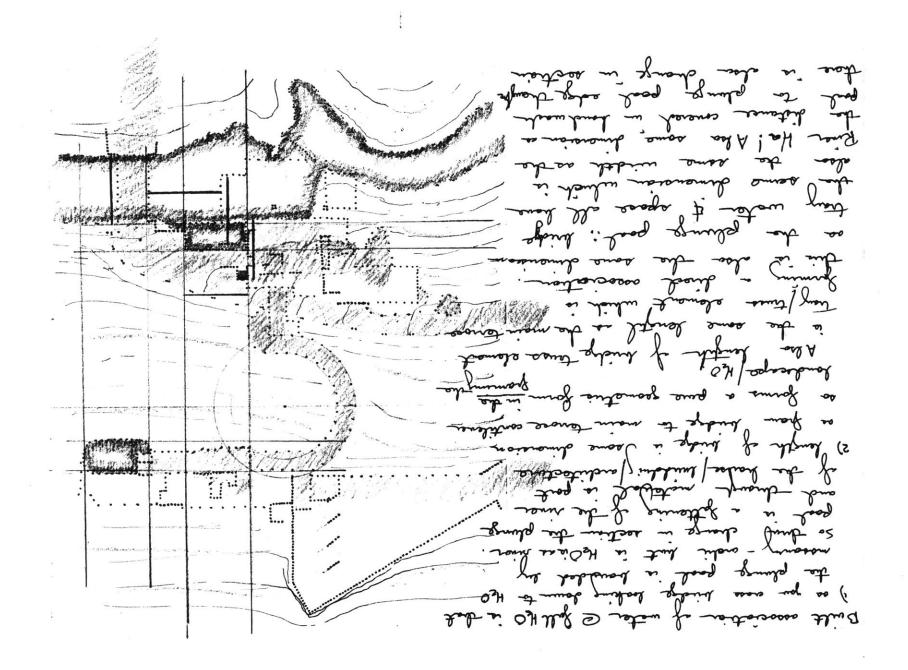




DOROTHER LANGE, TRACTORED OUT (CHILDRESS COUNTY, TEXAS), 1938.

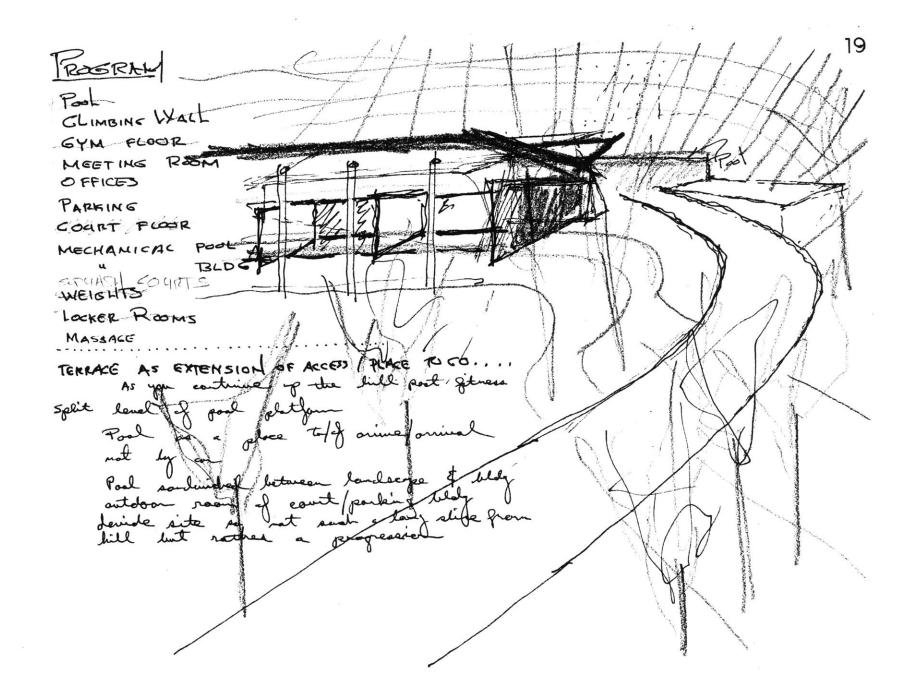
Falling Water dimension study shawing repetition of dimension from water/landscape to longest tray, Repeated in meaning mass and "house" sign from real "ground,

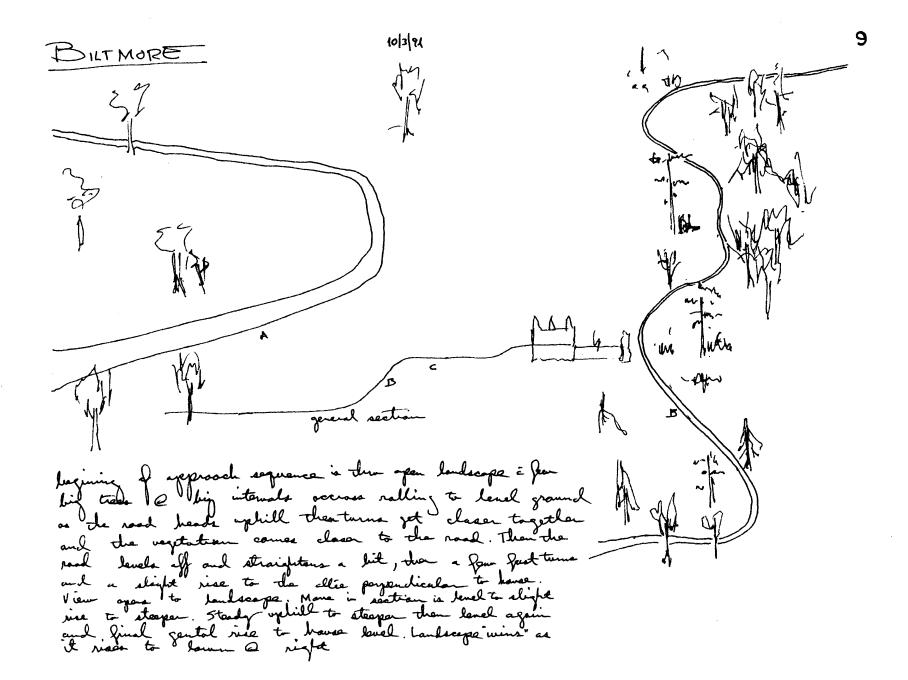
Dimension and pure seamety squae @ entrance bridge agral to dimensia river which makes frot trang. This is also river transformed town Suilding. Sa space is constructed with a landscape dimension, building the valume hetween bridge and have . one of the gird things you experience as your approach the house.



PROGRAM

The program for this thesis is an athletic training center which has canoe/sport as it's main activity. This means that one of the requirements is an enclosed swimming pool. Indeed the pool already exists and the idea will be to take the existing cut in the land and examine the slope, landscape, and the behavior of the section. The program will also contain such ancillary facilities as locker rooms, a small gym, and perhaps a class room or two. I'm sure there will also be a need for boat storage and mechanical rooms but much of this will be determined in interviews with the client this summer





SECTION OF HOUSE LANDSCAPE

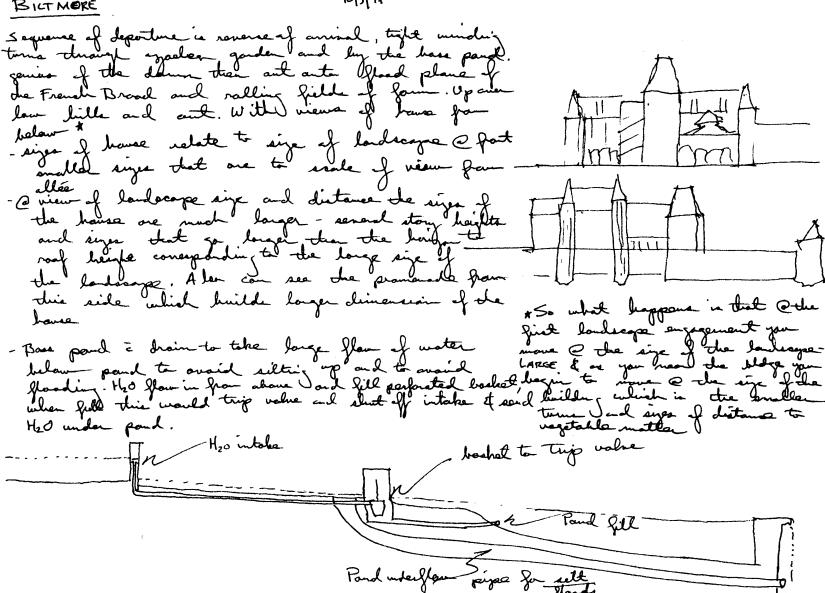
object in Jandage

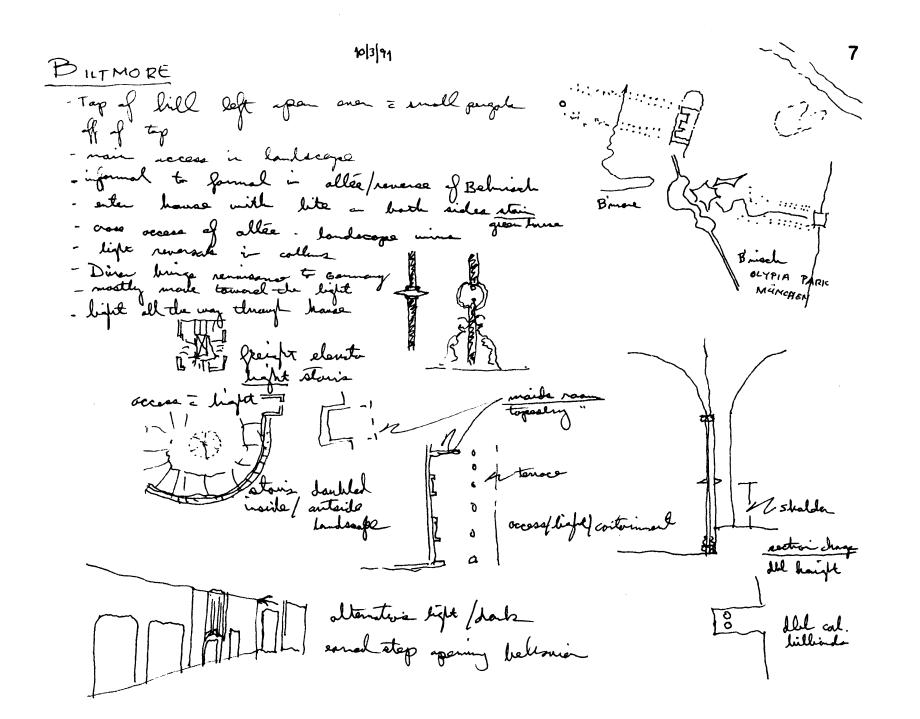
creater "spect" of making
that is "in" the landage
ly creating sings in
plan and restrain shad are
understandable sings

Dilture Jose not though luid any relationships in section Q the huilded, size. It courtes a place in the landscape but in the huilding itself it does not much (nothing) to make the huilding sectionally understandable. Sure it has the stories Q entired of backelon that have long northeld liminarially it is experienced really andy by using the stories. It is not really an understandable direction except in the exterior sizes it generates.

EIMMERMAN!

Section / containment
window planter section
Section beam
landeage sizes/let
materials
paties 4x4 black condition
view
mor multions/ and cailing
colon/after image

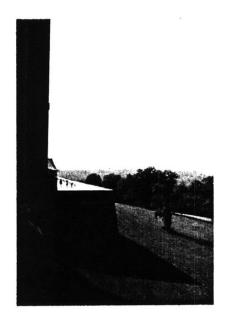


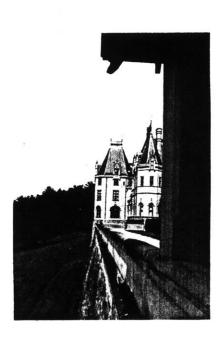


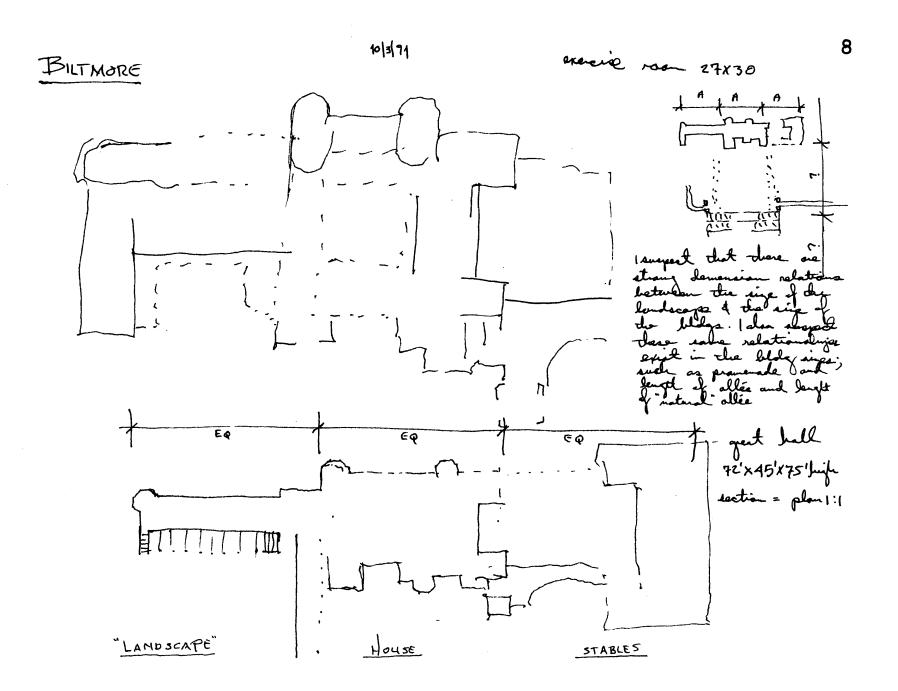


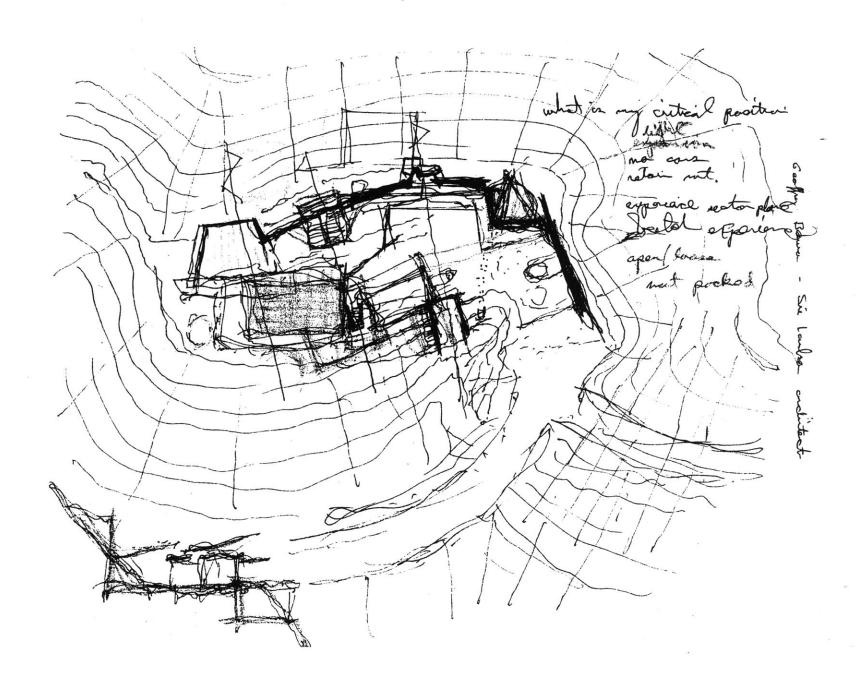


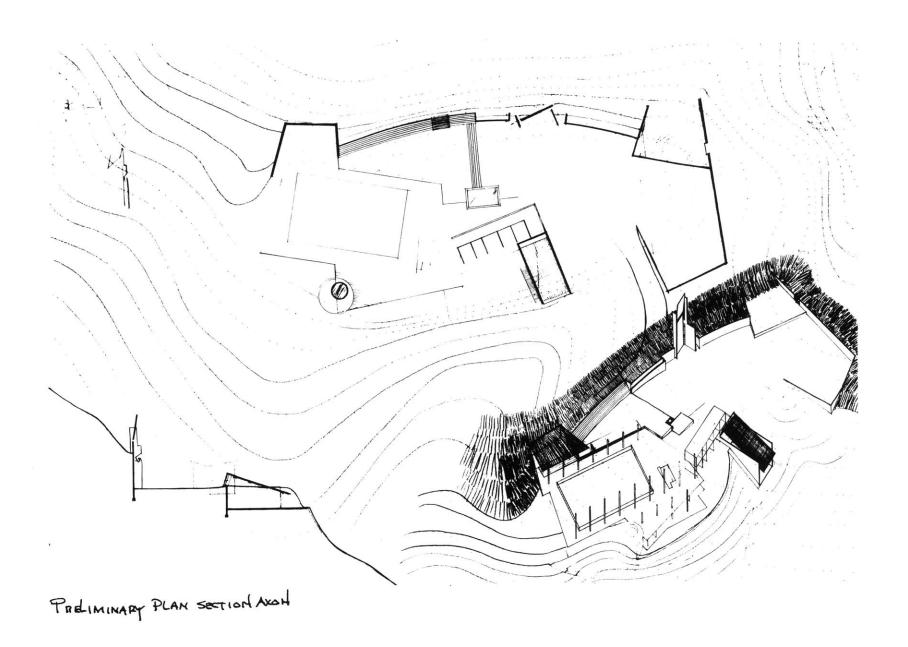




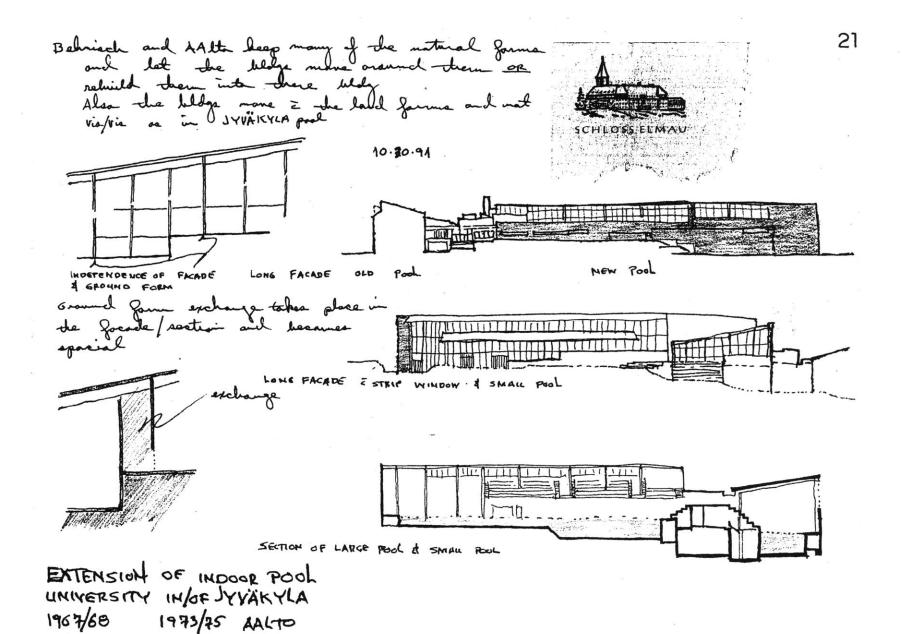




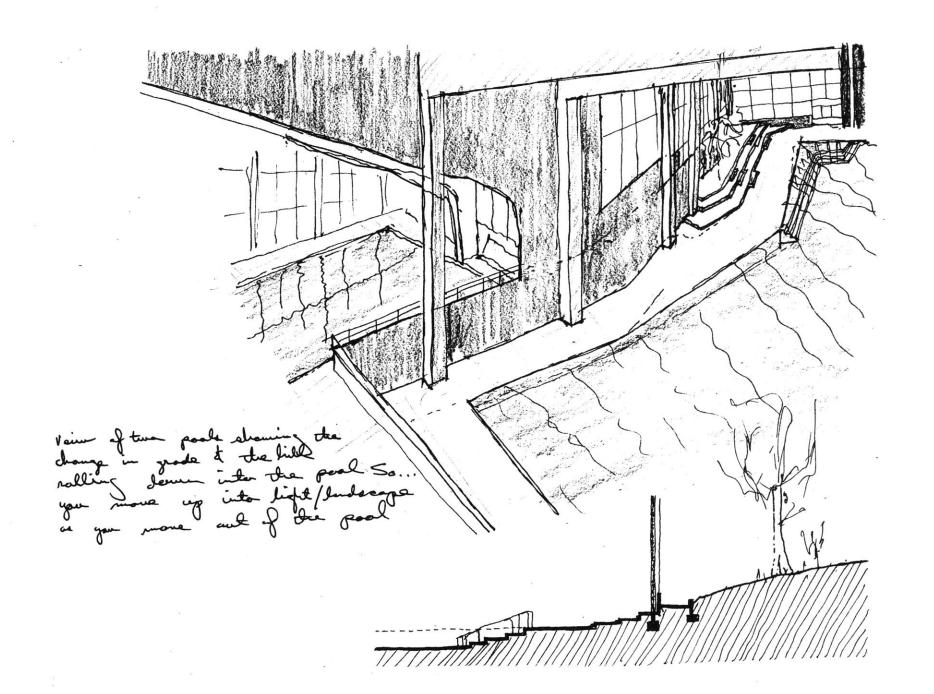


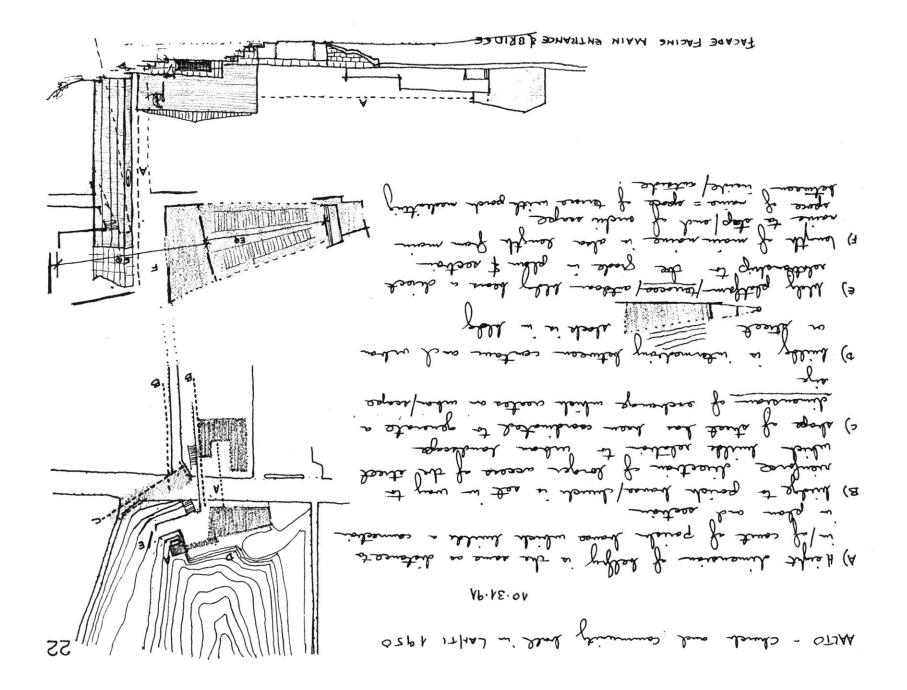


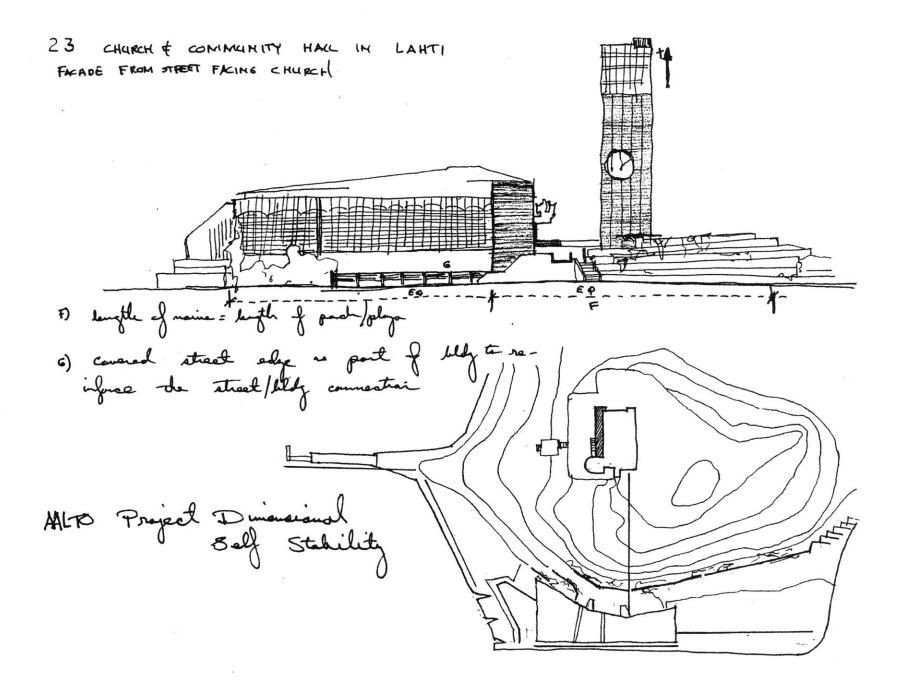
AAKTO Pode @ JYVÄKYLA also repeated from edge of small point of small greade. The condition is perhaps tenvara but as in all of these it is as as Earstoble says done should be a system but to af many layers of systems.





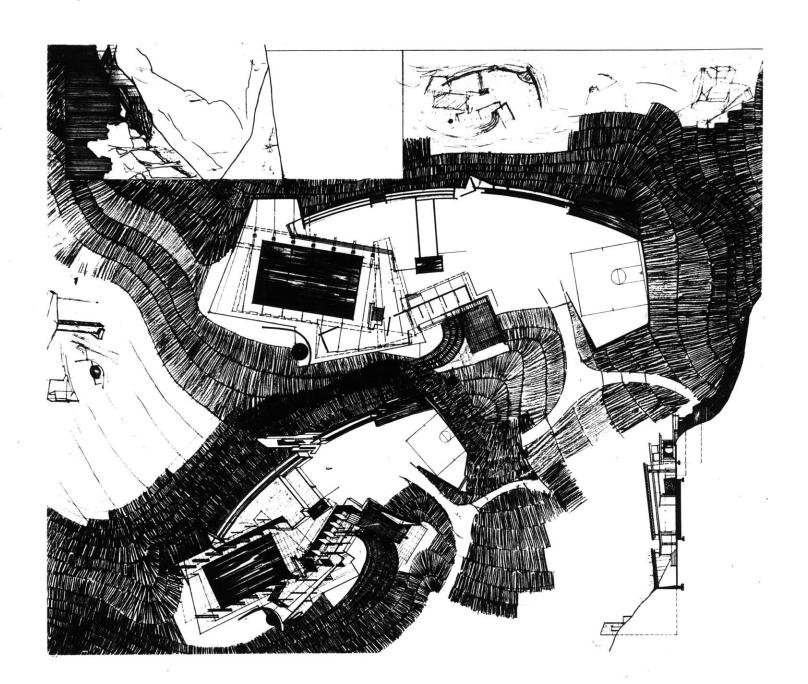


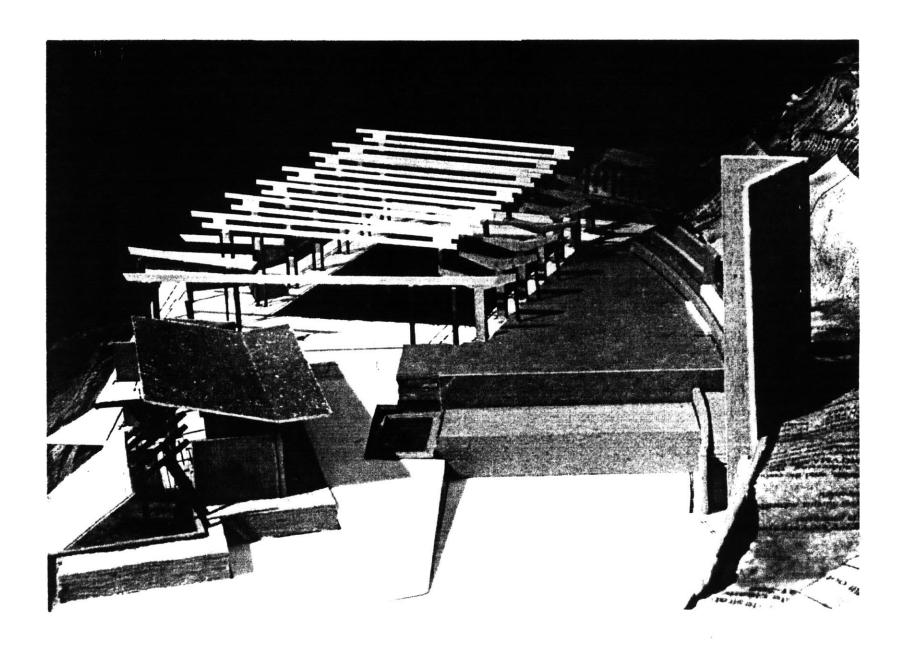


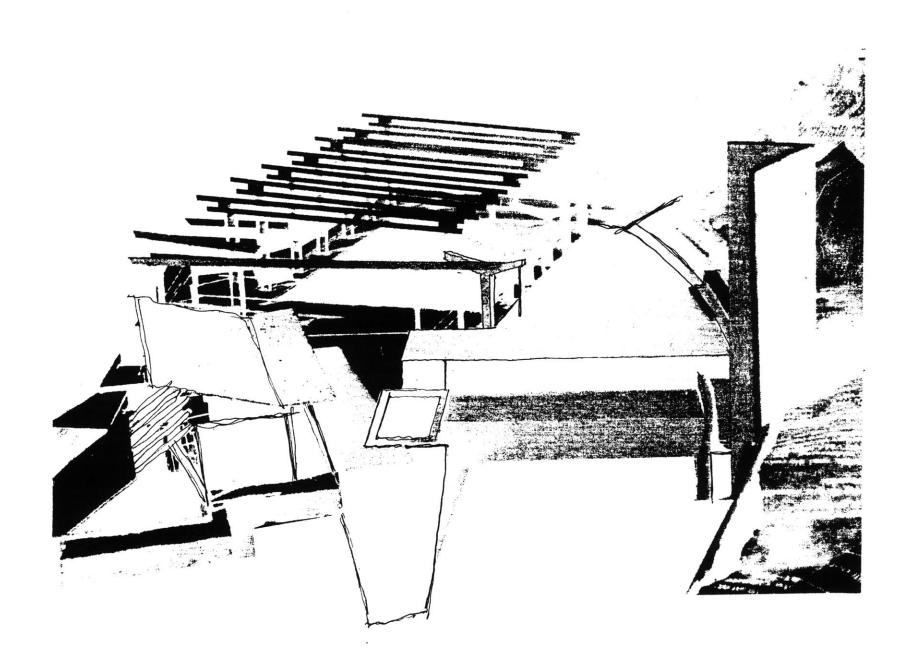


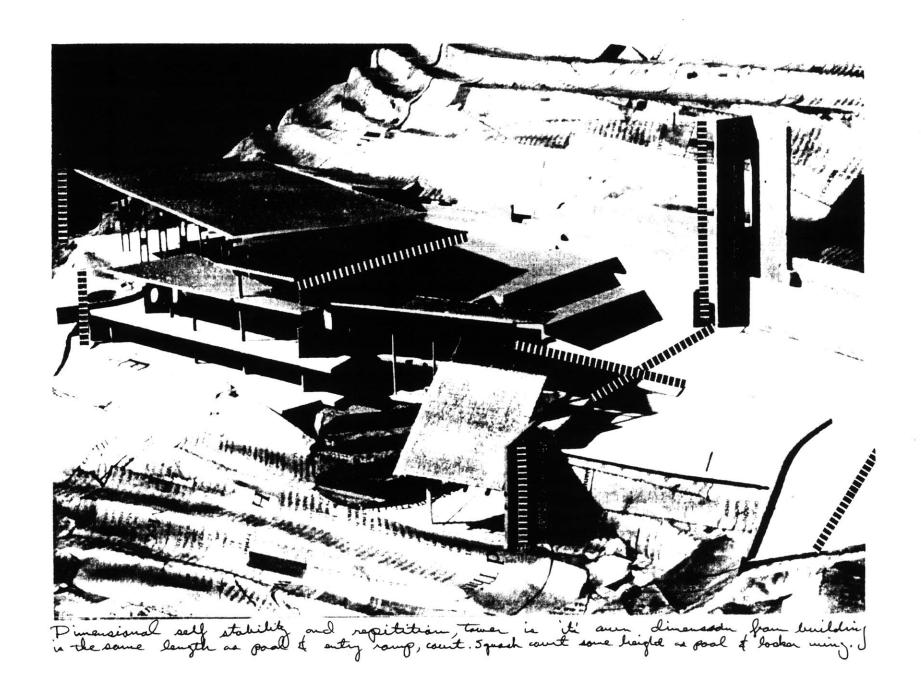
DESIGN

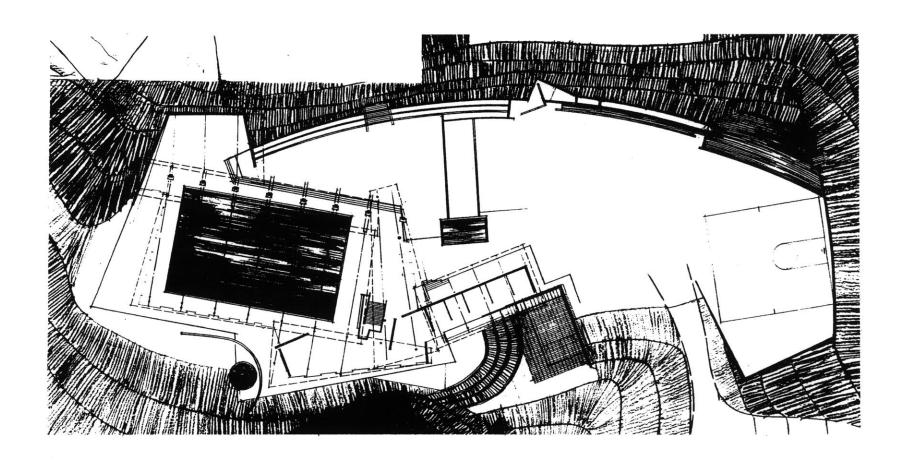




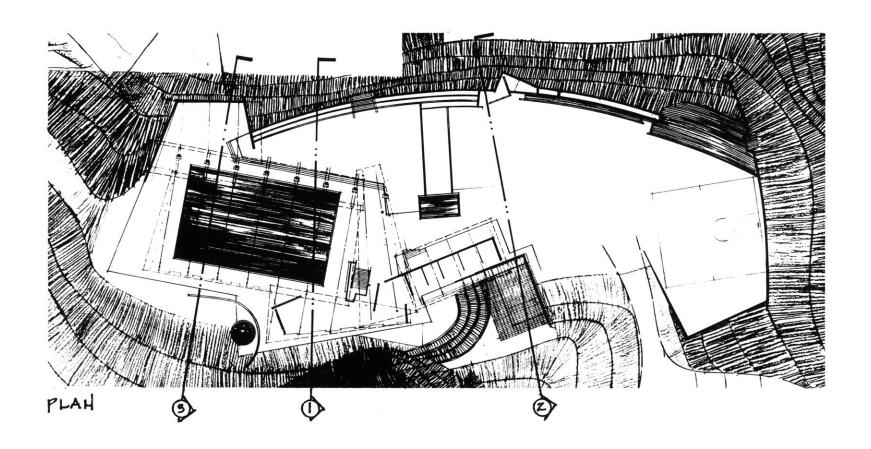


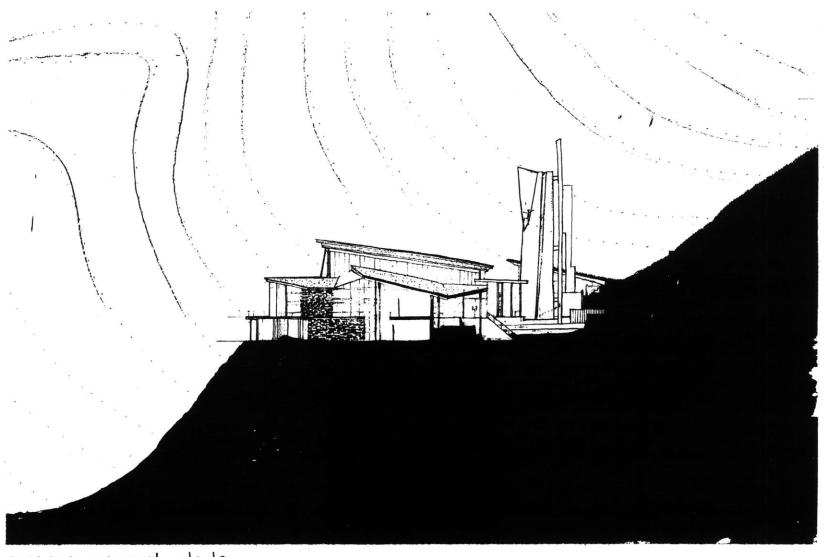






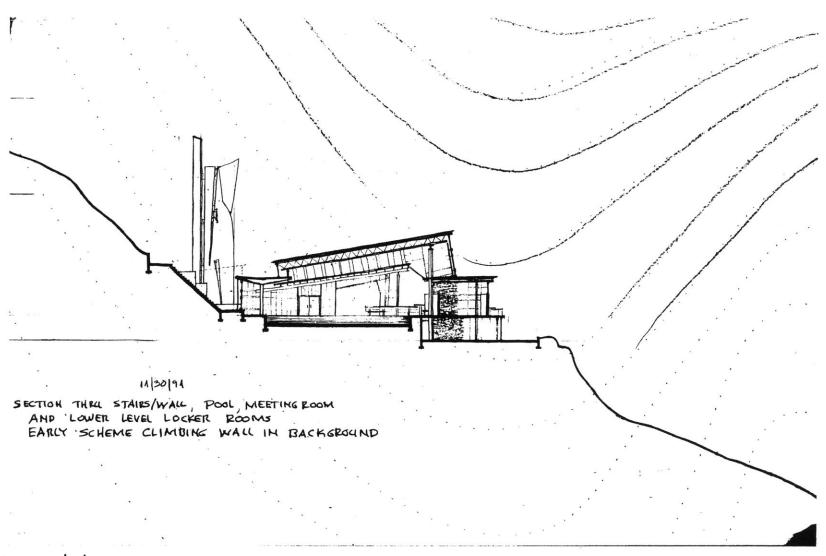




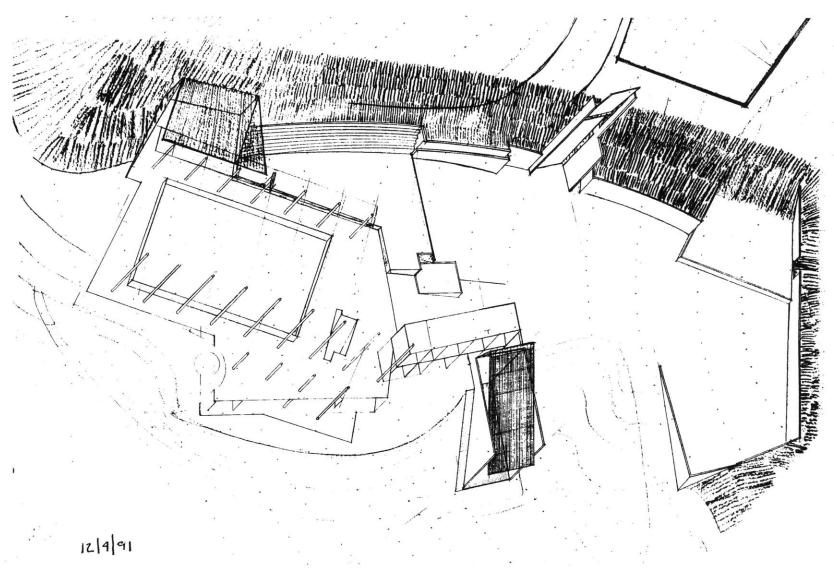


PROCESS SECTION 11/30/91

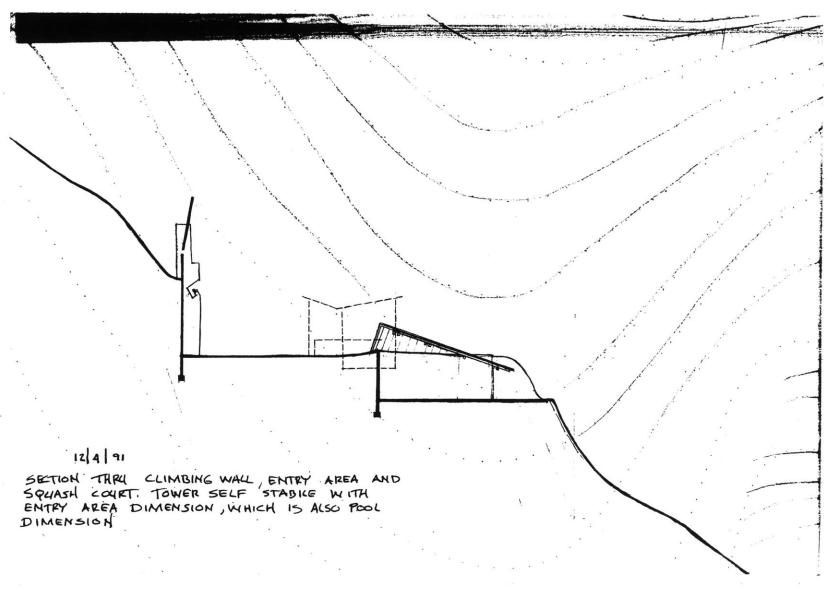
CUT THRY OFFICE SECTION AND BOAT STORAGE PORCH AND ENTRY RAMP SCHEMATICS OF CLIMBING WALL



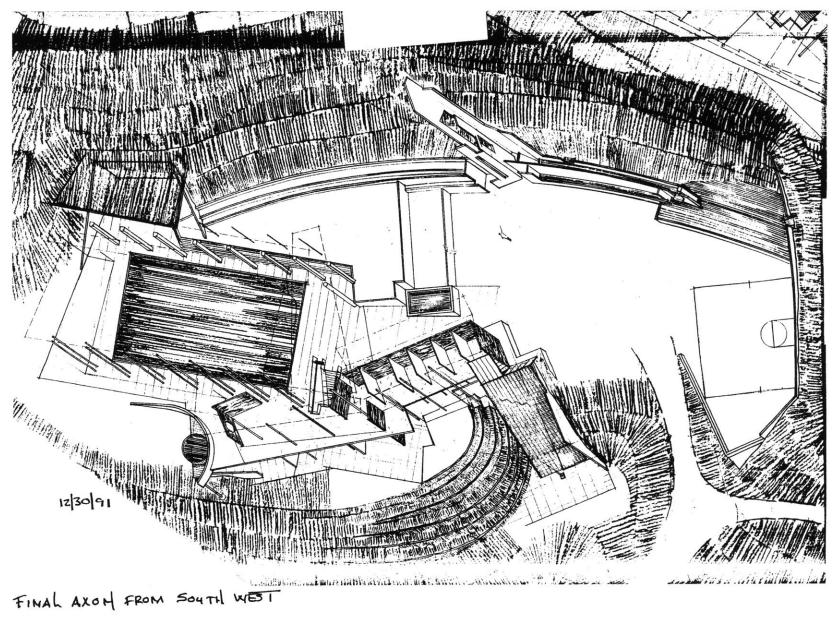
SECTION #1

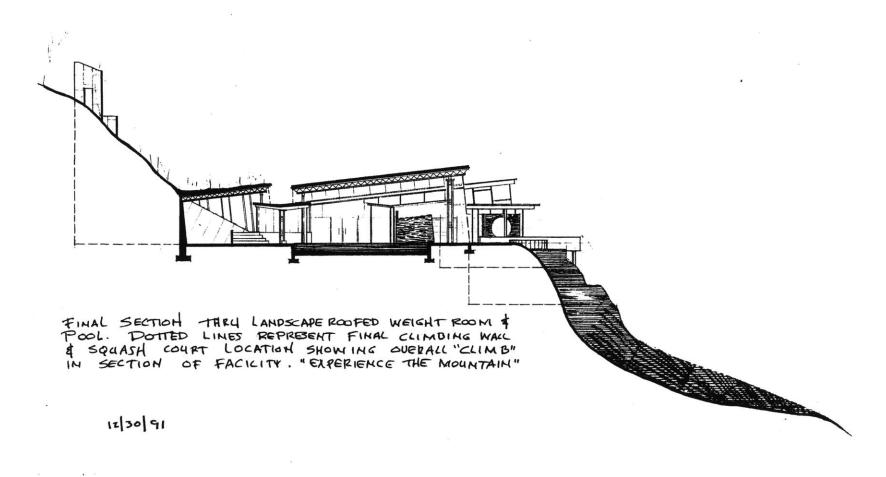


SHEMATIC AXON FROM SOUTH WEST



SECTION #Z

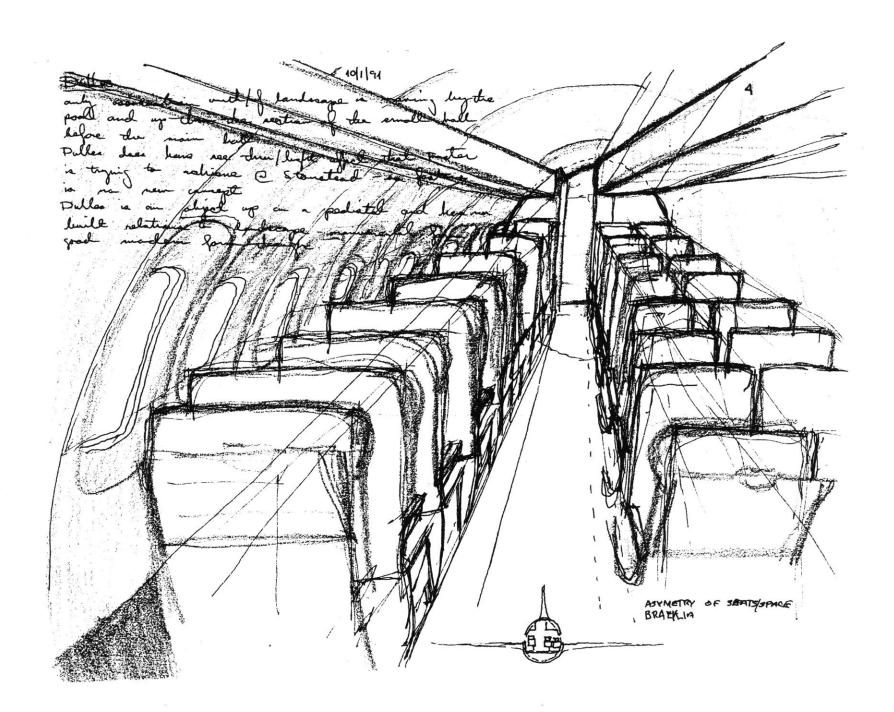






WYHH BULLOCK, "CHILD IH WOODS", 1951.

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WALKER EVAHS, HITCHHIKERS, 1956.

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