

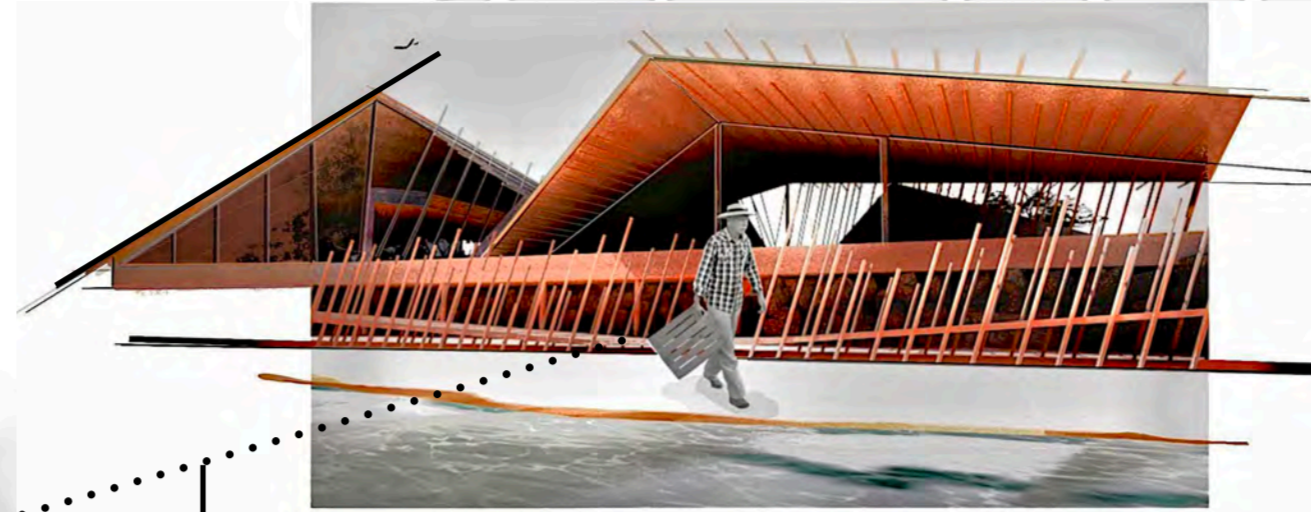
# SEA-KEEPER CENTRE

The SEA-KEEPER CENTRE, The proposal for a coastal community pavilion workshop located on Carnoustie beach, Angus to improve the environment, promote recycling initiatives and support the wider community.

## THE PURPOSE OF THE SEA-KEEPER

THE DESIGN OF THE BUILDING WILL CREATE AN ENVIRONMENT WHICH WILL PROMOTE SOCIAL INTERACTION FOR A WIDE RANGE OF USER GROUPS AND PROVIDE AN OPPORTUNITY TO EXERCISE PRACTICAL SKILLS, KNOWLEDGE AND EDUCATION. AT THE SAME TIME THE FACILITY WILL ENHANCE THE WELL-BEING AND INVOLVEMENT OF THE LOCAL COMMUNITY THROUGH HELPING TO CREATE A NEW EXPERIENCE WHICH WILL ENHANCE THE BEACH ENVIRONMENT AND REDUCE BEACH POLLUTION.

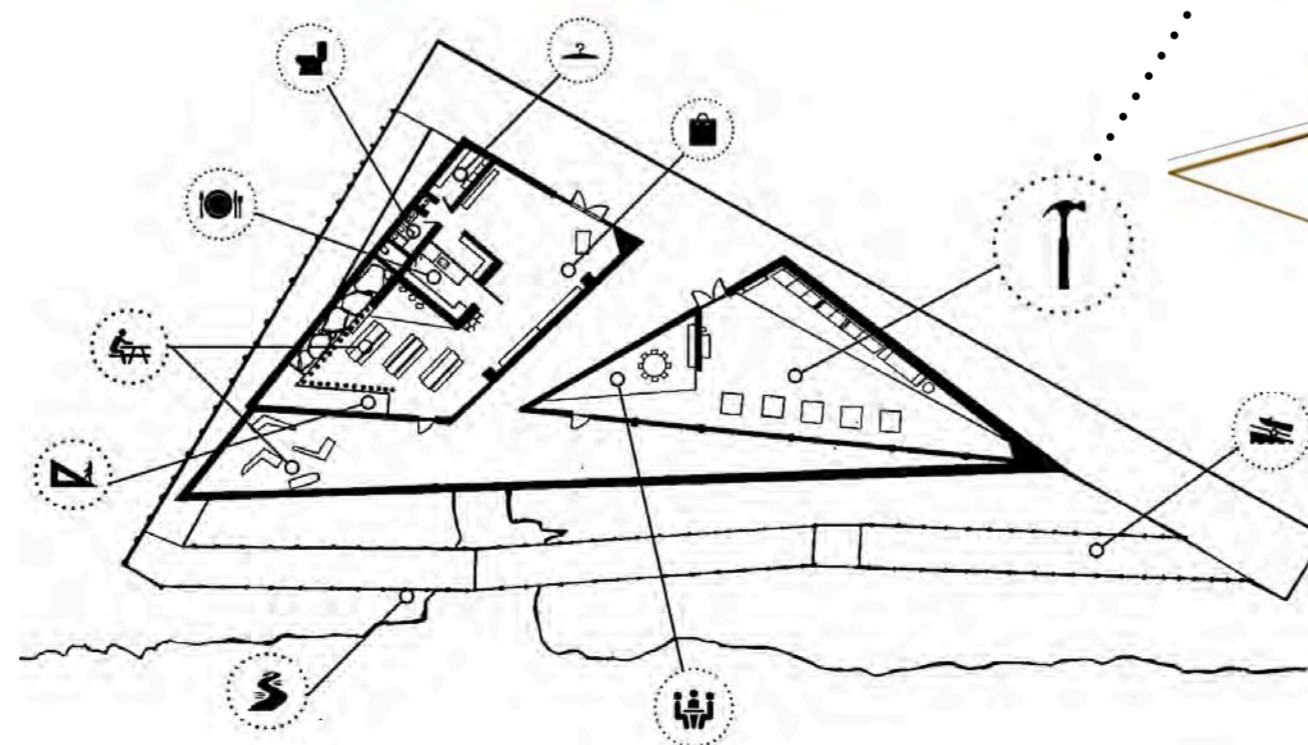
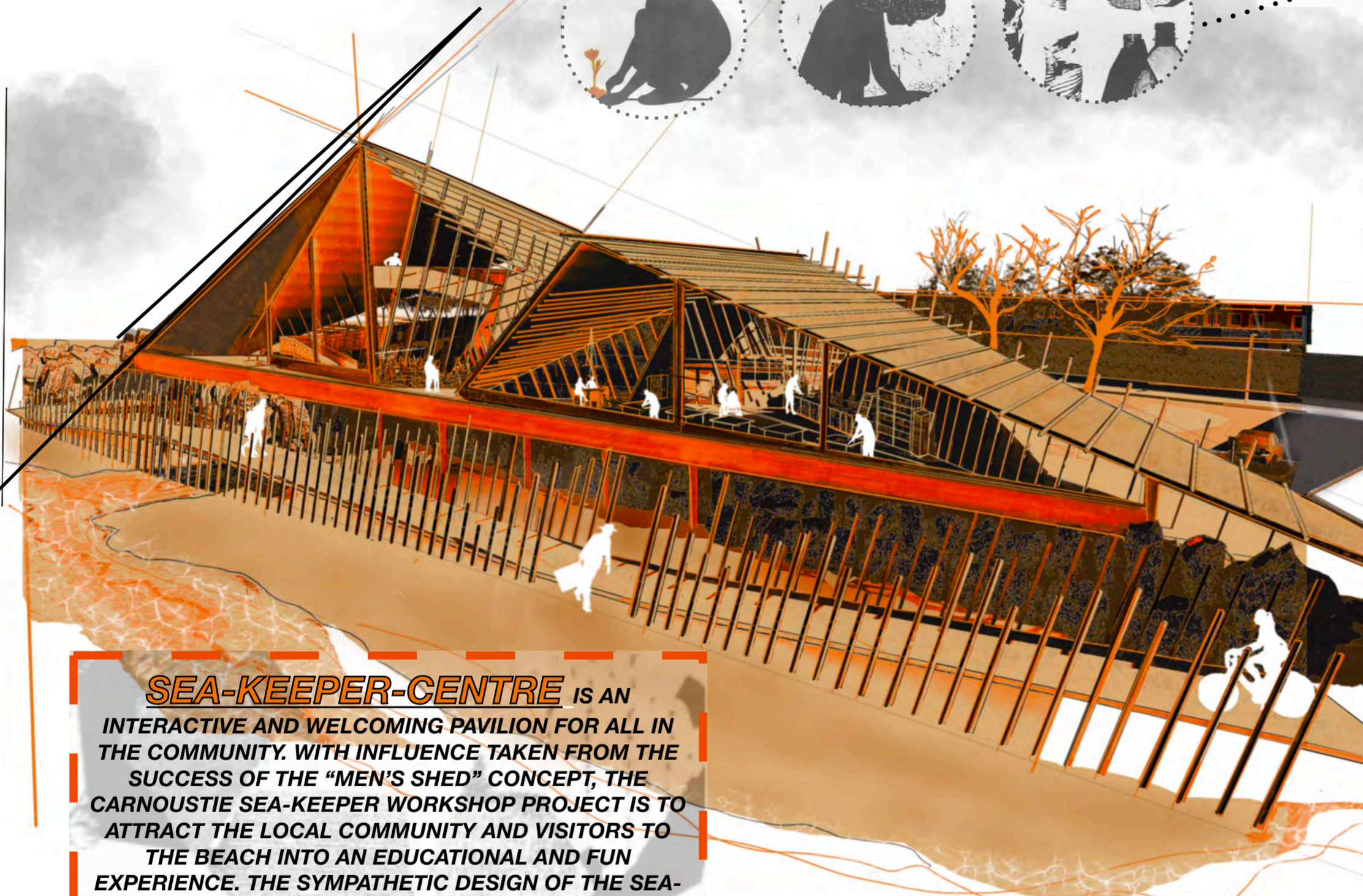
- PURPOSE:
- THE PURPOSE OF THE DESIGN IS TO PROVIDE A RECREATIONAL AND EDUCATIONAL FACILITY.
  - IMPROVE THE INVOLVEMENT, HEALTH AND WELL-BEING OF THE CARNOUSTIE COMMUNITY.
  - PROVIDE OPPORTUNITIES FOR THE CARNOUSTIE COMMUNITY AREA TO MEET AND UNDERTAKE CREATIVE AND RECREATIONAL ACTIVITIES WHICH WILL ENHANCE THE BEACH AREA.
  - PROVIDE A NEW, EXCITING AND FUN COMMUNITY HUB AND MEETING PLACE.
  - INCREASE AWARENESS AND EDUCATE THE LOCAL AND WIDER PUBLIC OF THE ENVIRONMENTAL STRESSES AND POLLUTION AFFECTING THEIR COMMUNITY AND MOST IMPORTANTLY THEIR BEACH AMENITY.
  - PROVIDE AN EFFECTIVE NEW WORKSHOP AND SOCIAL FACILITY IN THE CARNOUSTIE COMMUNITY TO SHARE KNOWLEDGE, IDEAS AND SKILLS WITH LIKEMINDED OTHERS IN THE COMMUNITY.



## COMMUNITY BEACH WORK-SHOP

**SEA-KEEPER-CENTRE** IS AN INTERACTIVE AND WELCOMING PAVILION FOR ALL IN THE COMMUNITY. WITH INFLUENCE TAKEN FROM THE SUCCESS OF THE "MEN'S SHED" CONCEPT, THE CARNOUSTIE SEA-KEEPER WORKSHOP PROJECT IS TO ATTRACT THE LOCAL COMMUNITY AND VISITORS TO THE BEACH INTO AN EDUCATIONAL AND FUN EXPERIENCE. THE SYMPATHETIC DESIGN OF THE SEA-KEEPER CENTRE IS AT THE HEART OF THE BEACH WATERFRONT AT CARNOUSTIE, ENHANCING THIS PHYSICAL AND CULTURE AMENITY OF THE BEACH WHILE AT THE SAME TIME EDUCATING THE PUBLIC ON THE ENVIRONMENTAL ISSUES AND NATURAL CHALLENGES FACING OUR BEACHES, SEAS AND COASTLINES THROUGH AN INTERACTIVE AND IMMERSIVE BEACH EXPERIENCE.

PRIOR TO THE INSTALLATION OF EROSION PREVENTATIVE MEASURES AT CARNOUSTIE BEACH AROUND 20 YEARS AGO, BEACH GOERS ENJOYED FULL AND UNHINDERED ACCESS FROM THE GRASSED WATERFRONT AREA ON TO THE BEACH THROUGH NATURAL SAND DUNES. SADLY, THE EROSION PREVENTION MEASURES HAVE CREATED A BARRIER AND WITH LIMITED ACCESS TO THE BEACHFRONT AND SHORELINE. BY WAY OF CREATING A DESIGN THAT INCORPORATES EASY ACCESS TO THE BEACH, A KEY AIM OF THE SEA-KEEPER PROJECT IS TO RECONNECT THE WATERFRONT AREA TO THE BEACH ITSELF.



- WORK-SHOP
- KITCHEN
- MEETING AREA
- TOILETS
- SHOP
- SITTING AREA
- CHANGING ROOMS
- RAMP
- WATER STREAM



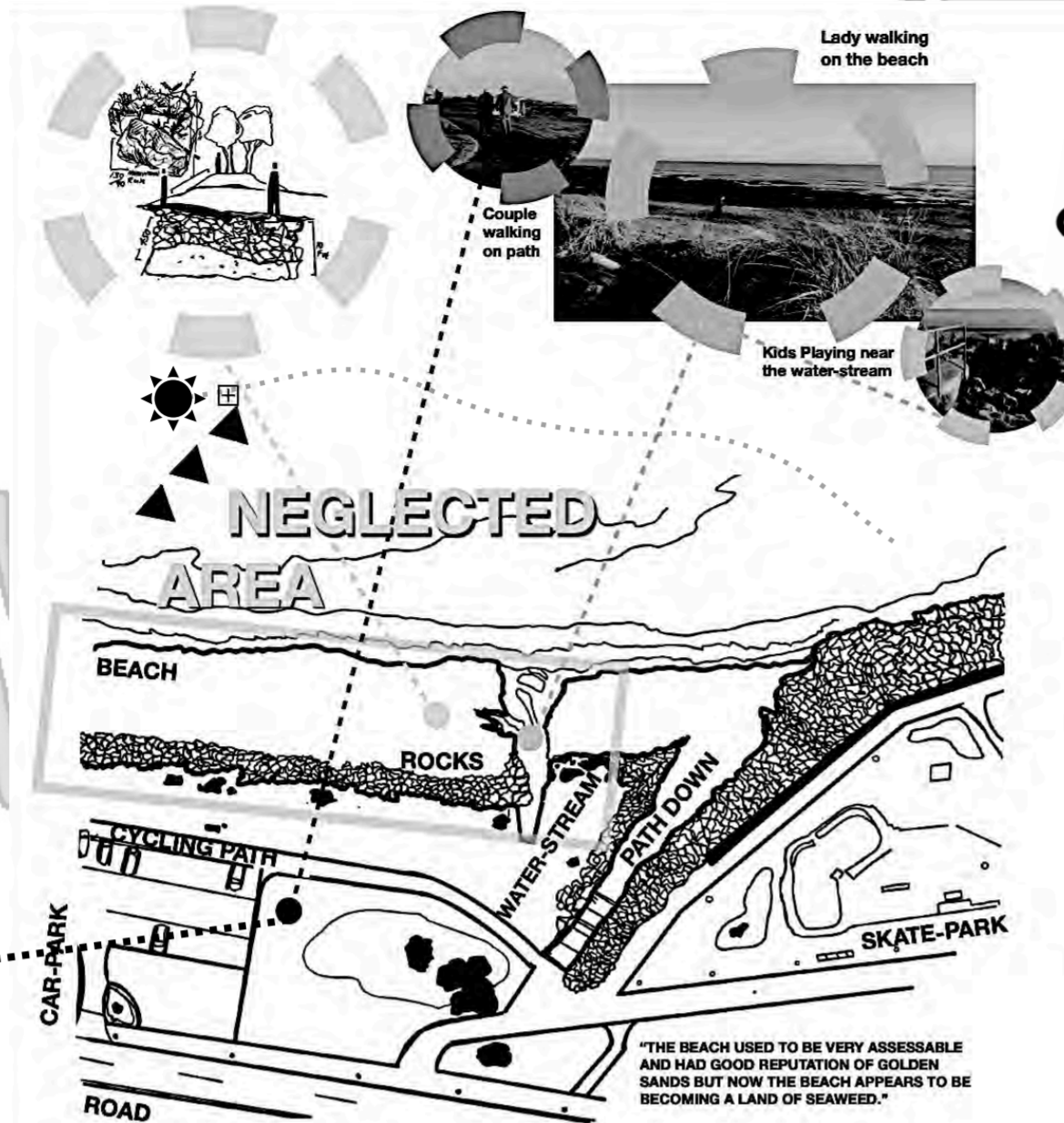
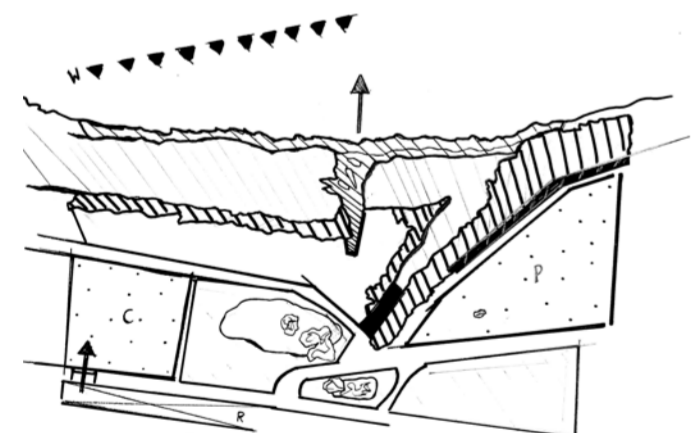
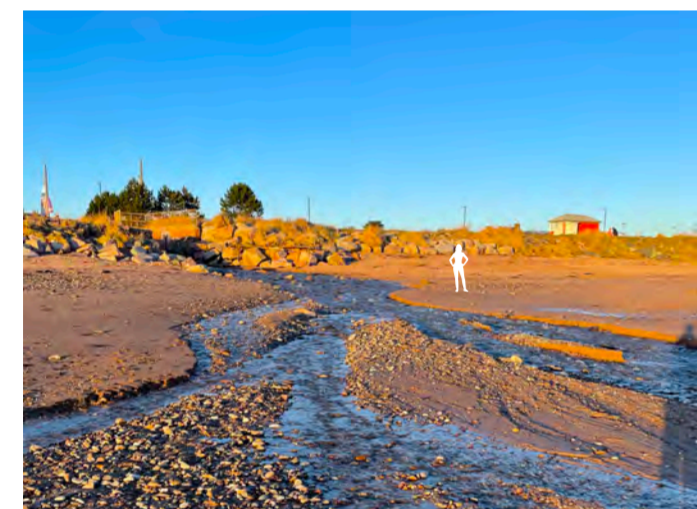
# LOCATION OF THE SITE / CARNOUSTIE ANGUS BEACH

## SITE ANALYSIS / BEACH

Through my research, I studied the current activity at the beach, how the beach was accessed, what parts of the beach are more popular and identified challenges of access, hazards from rocks / seaweed and how specifically one area of the beach was harder to access.

From observations and surveying the beach I created a 1:200 model of the proposed site and has identified issues. I also took numerous pictures, recordings and created sketches which I incorporated into a collage. This helped to support the visualisation of the site and how my Sea-keeper project could fit into it.

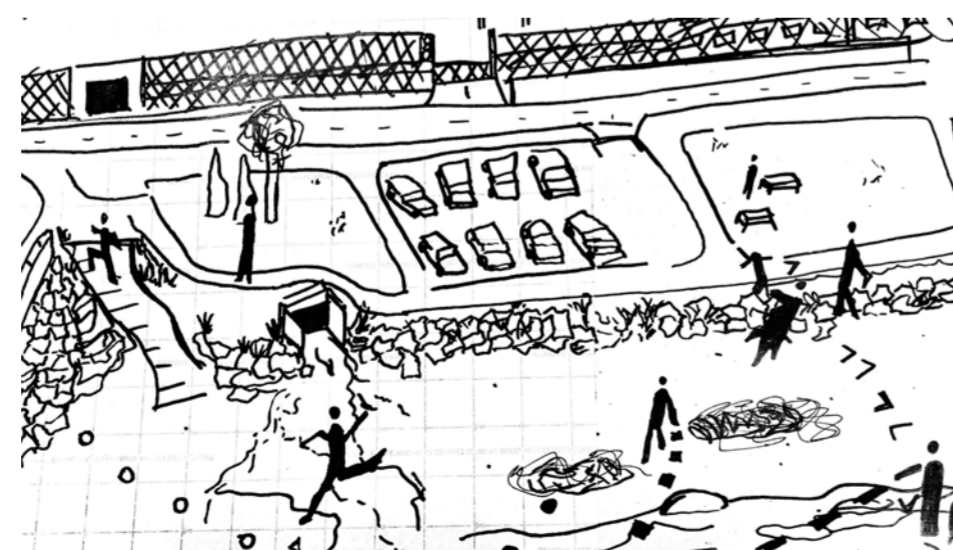
There is an area where a stream cuts off access to the beach, surrounded by large rocks between 8 -10 feet in height. An abundance of seaweed also makes access to the area more challenging. By observing people struggle to access this part of the beach I developed my vision and design to improve beach access using a contemporary design.



## THE CARNOUSTIE / ANGUS BEACH

The town of Carnoustie is situated on the East Coast between Dundee and Arbroath and famous for its best known worldwide for its championship and challenging "Links" golf courses. The proposed site of the Sea-keeper project is at the heart of the Carnoustie waterfront/beach area, a popular spot where the rocks and a water stream are in an area where with there's difficulty accessing the sandy beach.

The waterfront / beach easily accessible from the town centre and a short walk from the train station. It is a popular public amenity for beach goers of all ages and a traditional beach. The sandy beach coastline at Carnoustie is around 3 miles long and stretches south from the town towards Firth of Tay. Carnoustie and the surrounding area has a population of around 15,000, but has traditionally attracted day trippers to its sandy beaches and links golf courses from Dundee and other towns of inland Angus. The beach which is situated a few minutes walking from the train station. Is a popular area used by not just beach goers but the general public. The beach coast is approx 3 miles long in a rectangular shape.



SITE SKETCH OF LANDSCAPE



## PRIMARY/SECONDLY RESEARCH / BEACH FINDINGS

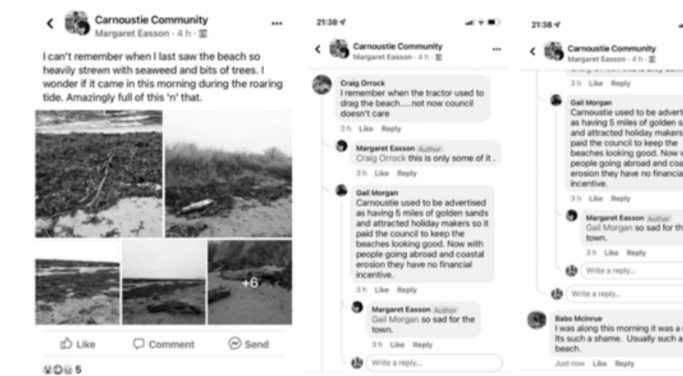
### BEACH FINDINGS / FROM DATA

From observational research and walking along the beach I noted that the beach suffers from the familiar pollution and flotsam carried onto the beach by wind and tide. Sadly, there was also much evidence of general litter left by the public. Searching through data from the Carnoustie Angus Trust survey, I discovered that an estimated 714.72 kgs of litter was removed over a particular weekend in September 2020.

A survey by the Carnoustie Angus Trust has identified that single use items such as plastic bottles, plastic containers, face masks etc. is a growing concern on the east side of the Carnoustie beach. (Link [http://bit.ly/FMSurvey\\_EGCP2020](http://bit.ly/FMSurvey_EGCP2020))

In September 2020 the "Great Angus Beach Clean Up" initiative took place involving volunteers from local schools, community groups, community councils, members of the public and Angus Council supported the event. The research also says an initiative was introduced to help keep the beach clean - "Take 4 for the Shore" launched at Great ABC 2020 where people are encouraged to pick up 4 pieces of litter.

I also observed that the beach has an extreme amount of seaweed washing up on the high tide line as a result of the storms in recent months. This issue is also highlighted on the Carnoustie Facebook page, with some comments even suggesting the beach is unsafe to walk along.



## BEACH FINDINGS / SITE VISIT

Sandra Philbin of Angus Council provided me with information regarding Carnoustie beach and how it is being looked after by an independent organisation team called the "Men's Shed".

At the present time the beach appears rather untidy, but this is compounded by the stormy weather associated with the winter months. The Men's Shed help organise and maintain the beach with the help of the community. The local council previously help with the seaweed removal but this stopped in the last 2 years due to Covid lockdown.

My findings found that litter gathering initiatives, organised by community volunteers and the Men's Shed are well supported and frequently remove litter, tidal flotsam and polluting plastics from Carnoustie beach.

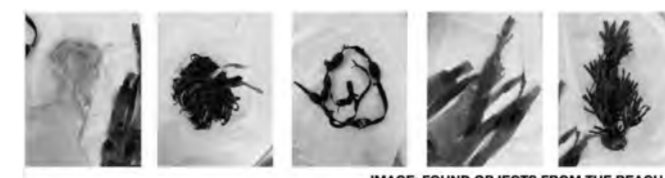


IMAGE: FOUND OBJECTS FROM THE BEACH



# CHLOE ROBERTSON



## HELLO // MEET THE DESIGNER

I am Chloe Robertson, an interior and Environmental design graduate from the University of Dundee, Duncan of Jordanstone Collage of Art, and Design. I began my studies in the design field in 2018.

Through my studies at Duncan of Jordanstone, I have developed a keen interest in Environmental Design and a wider knowledge of technical information in this field. My fascination and love for the environment has enabled me to develop projects of a more complex and harmonious creative design nature. I started looking at how I could not only evolve and improve my design, but also interpret the briefs at a more personal level, while tackling social, cultural, and environmental issues.

I passionately believe that I have the ability to affect the quality of life of all people involved in my designs and how they can shape and influences the way we live. While working and developing my project's, I try to engage with the public and other stakeholders to make my ideas more relevant. Through research interviews and workshops, I endeavour to gain a deeper and broader understanding of the context of my design projects.

Throughout my projects I not only enjoy only developing ideas in a digital format but also through sketching my ideas, creating physical models and design prototypes, I develop my skills and understanding of working with wood, metal and other materials as my designs progress. I also love to learn new techniques, and explore the limits of design and the creative use of different materials through different platforms from Adobe Suite and (photoshop, Illustrator, InDesign, Premiere, procreate) to Auto CAD, 3DsMax, Sketch-up.

As part of my thesis project, I organised a workshop to gain insight and understanding of the public to make my ideas more relevant. This project is about creating a experience at the heart of the waterfront at the beach.

My project aims are to enhance the physical and cultural asset of the natural beach environment and most importantly my aim, is to attract people to the site by creating a new experience in the form of a workshop. Thus, I hope to welcome new users to the beach and involve the wider community.

"Data report showed 714.72 kgs of litter was removed from Carnoustie Beach in September 2021"

The members of Men's Shed frequently look after the Carnoustie beach.

# RESEARCH / MENS-SHED WORK-SHOP



## ABOUT

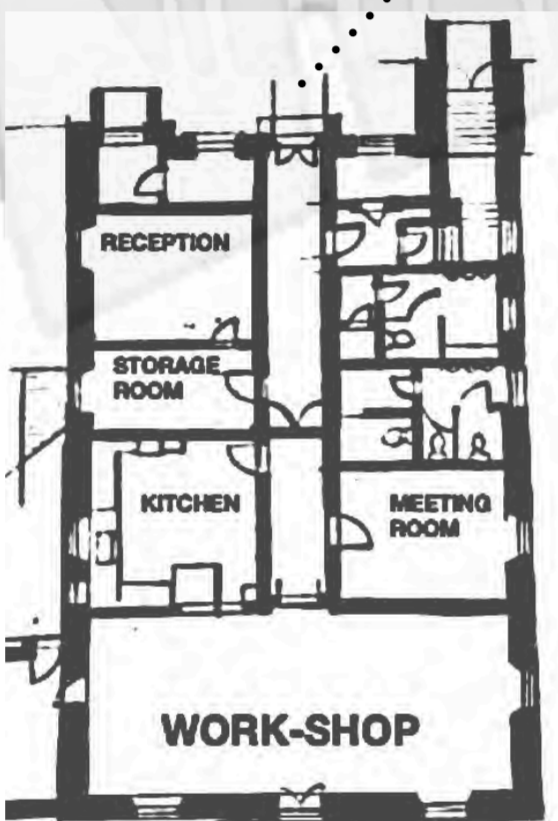
Non-profit making community group for adults 18+ to use existing skills and learn new ones undertaking projects to benefit residents and groups.

The Carnoustie Men's Shed initiative started was set up in 2015 from a small garage adjacent to the Panmure Centre. Within two years, the popularity of the group had increased, and in 2017 they moved to larger premises at Invertay House where they remain. However, they are self-funded and the current lease of premises is only temporary. It is hoped that going forward the Carnoustie Man Shed initiative can find new premises which would allow them to expand work on even greater community projects.

Men's Sheds began in Australia and experienced growing popularity elsewhere. There are now 131 Men's Sheds in Scotland, with 55 more in development. With the inauguration of the Scottish Men's Sheds Association, an important national resource has been provided. A substantial account of the Men's Shed Movement has recently been published under the editorship of Barry Golding.

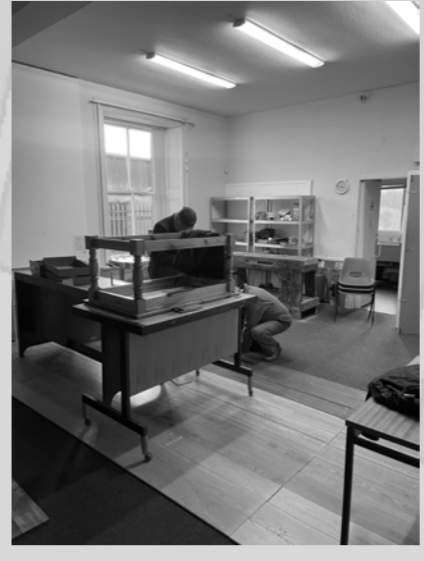
Men's Sheds were born from a recognition that men can find it more challenging to find social activities to participate in. The Men's Shed initiative has given men (and now woman) the ability to come together and create a purpose in life which directly supports the local community. Involvement in a Men's Shed is not just about practical activities. They give many men a sense of belonging to a club and have been highly successful at improving mental health and general well-being. The Men's Shed movement has had particular success and wide recognition for enriching the lives of the older male population who in retirement are seeking meaningful activity and rewarding social engagement.

IMAGE; MEN'S SHED BUILDING

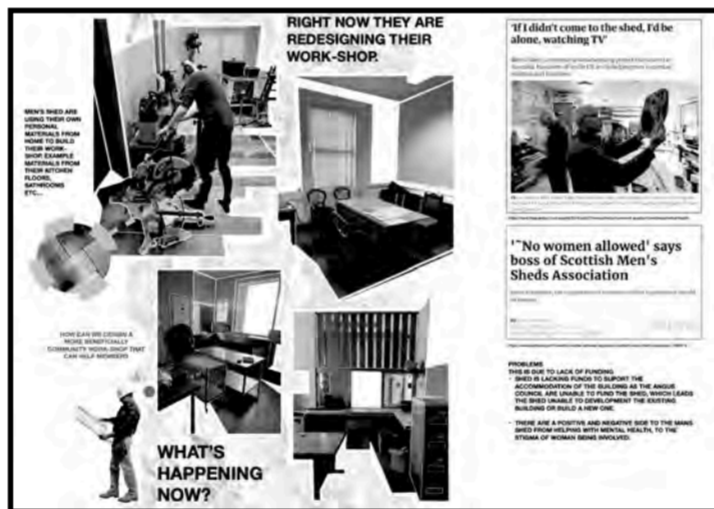
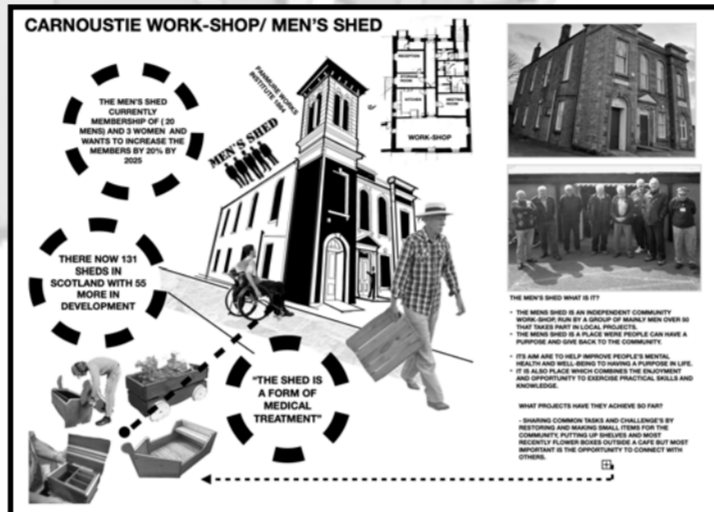


IMAGE; MEN'S SHED BUILDING PLAN

IMAGE; MEN'S SHED INTERIOR



## MENS-SHED / PRIMARY RESEARCH



## COMMUNITY SUPPORT AND INVOLVEMENT

This is a two-way active project in which the Men's Shed is supported by individuals and other community groups, and can participate with projects that directly benefit the community. The Men's Shed works with other community based groups such as Colourful Carnoustie and Free Food for Carnoustie with an aim to bring the whole of the community together. It is a non-profit initiative with all earnings fed back into the community.

## PRIORITIES

The ethos of the Men's Shed is to operate as a non-profit community organisation while maintaining a balance between members' own projects and work for the community. The Men's Shed hope to expand and diversify their range of activities available and to provide a social space for developing old and new skills such as computing, digital fabrication and other creative, artistic, and recreational projects.

## EQUIPMENT

The generosity of the community has helped the Men's Shed by donating tools and equipment to help them in making and repairing items for the local community. Due to the wider awareness and endeavours of the Carnoustie Men's Shed they have even extended their equipment to a laser cutter.

## ACTIVITIES

As previously mentioned, the aim and priority of the Men's Shed was to achieve a balance between work for individuals, wider groups in the community and local projects. During 2017-2020 they fulfilled a number of requests from people in Carnoustie. For example, mud kitchens, planters and picnic benches have been made for schools and other organisations and individuals. These projects have a major impact on those involved in that they have provide purpose and a sense of comradeship and friendship, while "giving back to the community". A major priority stated in the previous plan was to produce items that generate income to offset the running costs of the Shed.

## MEMBERSHIP

Following an exploratory meeting the Men's Shed was formed in February 2015 and several of the original membership remain as core members to this day. Membership in November 2019 stood at 28 and are drawn from across the area and ages range from mid-40s to mid-80s of these 3 are women.

## 16 FIVE YEAR FINANCIAL PLAN 2020-2025

The Men's Shed looks towards to the future in sustaining the funding costs and the ability to acquire a new building.



## RESEARCH / INTERVIEWS



IMAGE; MEN'S SHED MEMBERS



From interviews with members of the Men's Shed, the vision identified is that a purpose-built building would give the community the ability to serve the town even better. They believe a purpose built building would also allow the initiative to thrive by encouraging new members and would significantly help with mental health and well-being within the group and wider community.

The Sea-Keeper design project would add presence and focus to this part of the beach as well as encouraging community spirit and initiatives to improve the beach and the local environment while creating a focal point for educating the wider public. It would present itself as a unique and practical demonstration of how recycling products can be used in a positive and greener way to enhance and support the wider community.



### Transcript of interview one;

From my interview with the members of The Mens-Shed - Their answers were open and honest about what this project meant for them, how they want to move forward to encourage more members especially woman. The important aim of the project is firstly to be community based to involve all and to diversify mental health and well being, which is an important aspect in a ageing world.

Retirement and ageing does have a stigma of being finished where this group has shown that there is a lot more that they could give. The equal status clearly stated that no specific skills and talents are needed as stated "we learn from each other"



### Transcript of interview Two;

All members were happy to give their thoughts and views and were happy to nominate a member to answer some basic questions , where they gave an insight on how they would like to have a more purposeful building, how they enjoyed making items that were displayed around the town, taking great pride in this . The matter of funding is a concern not just for tools and maintenance of them but keeping the project " A float ". They all agreed that the Mans Shed should be available for all any age or sex. The Mans Shed independently contribute to the community they, also help with Angus council to maintain the beach by assisting in beach cleans but have plans to take this further.

# DESIGN/ PROPOSAL



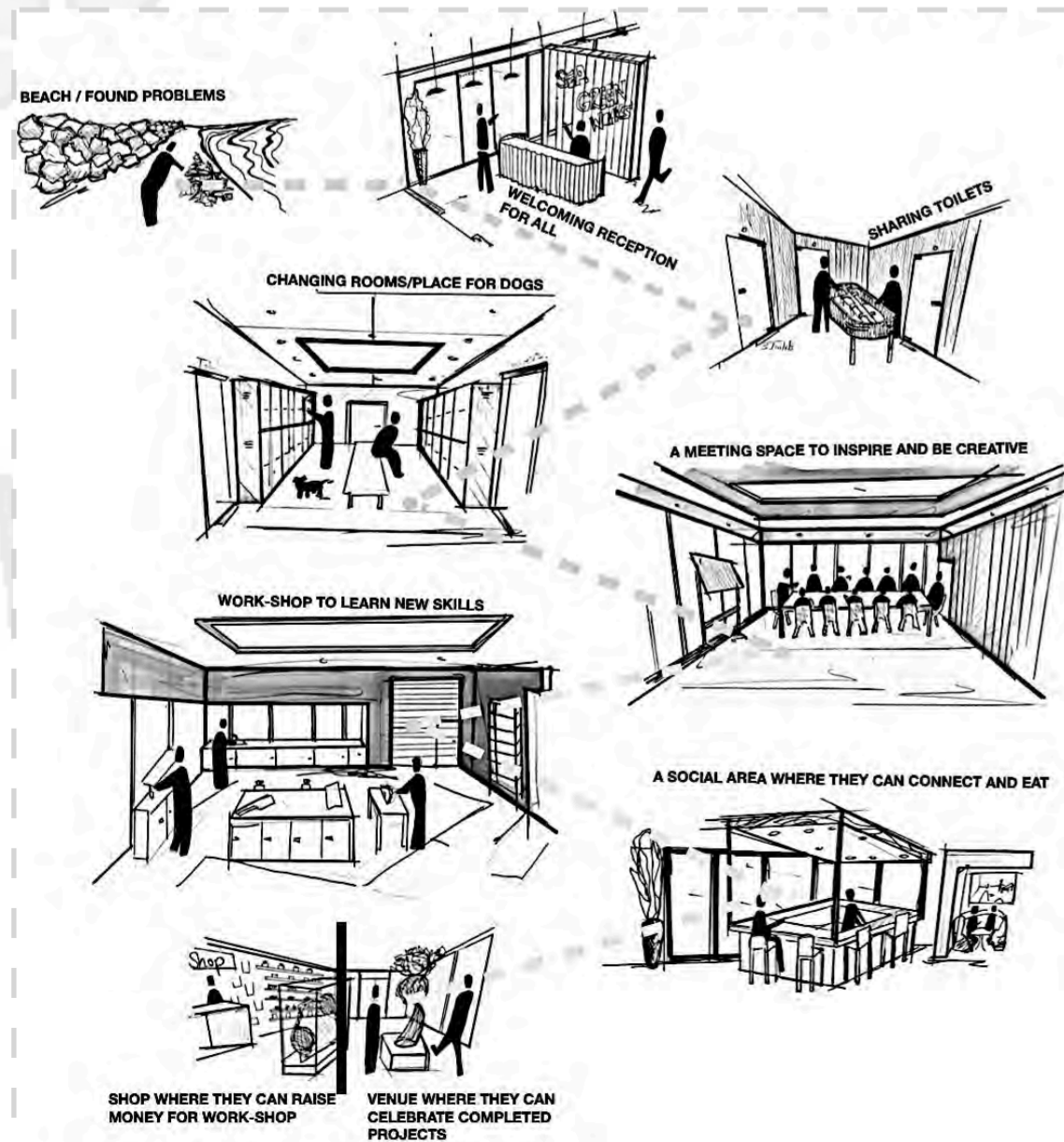
In taking forward this proposal using the idea of a workshop to help people maintain their mental health and well being, providing them with a building that could be used to bring community together in sharing skills and experience for all women and men.

The vision will look at the beach and how the environment can be maintain and items recycled to improve the local area, ie plastic and seaweed. Finished products can be sold or shown as an expedition.

From the research the proposal is to highlight an area on the beach which is a popular area which is hard to access and turn this into an area where it will be beneficial and serve a purpose.

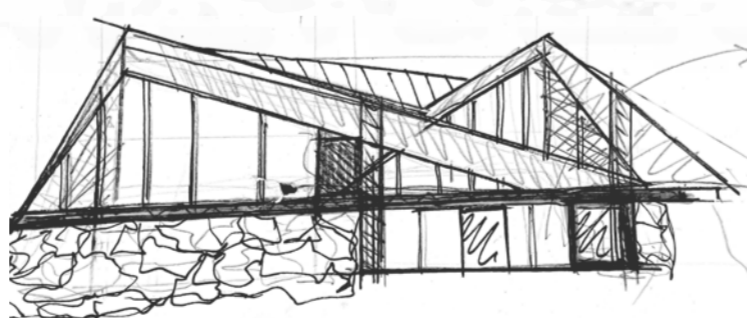
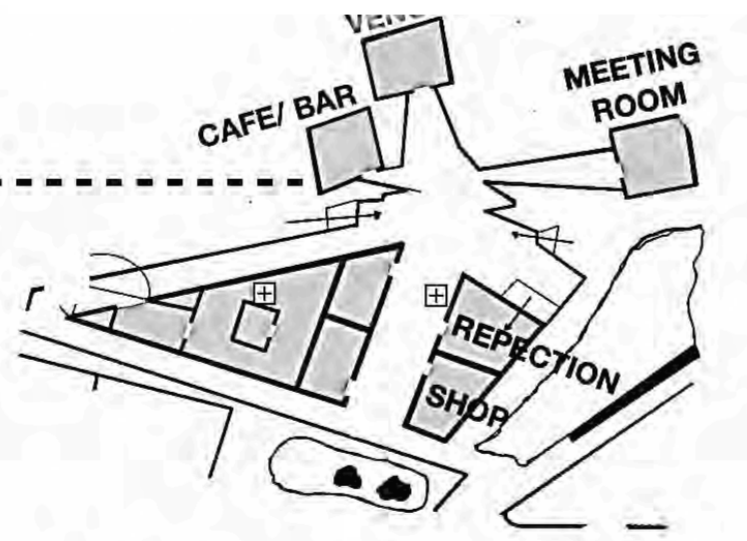
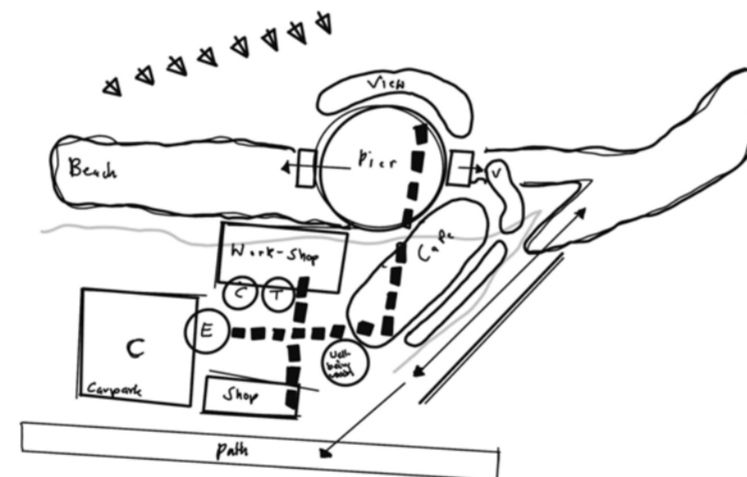
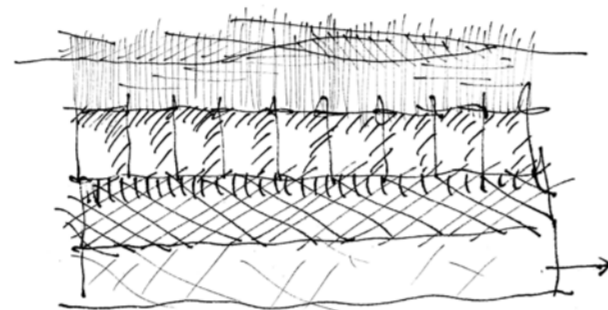
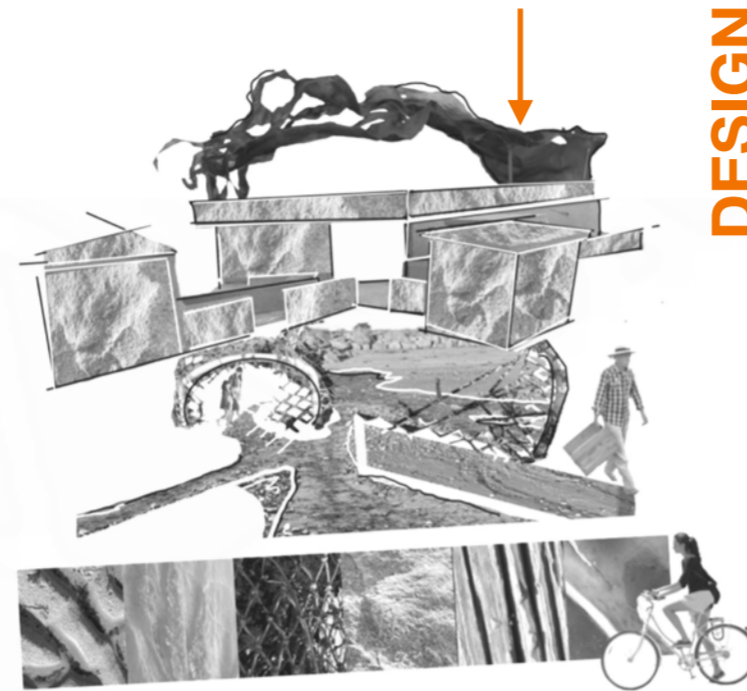
A building which will house various sections and connect the beach for all age groups to visit and participate in its beauty and clean environment. By adding a pier to connect and access the beach safely.

## STORY BOARD - EXPERIENCE JOURNEY IN THE BUILDING



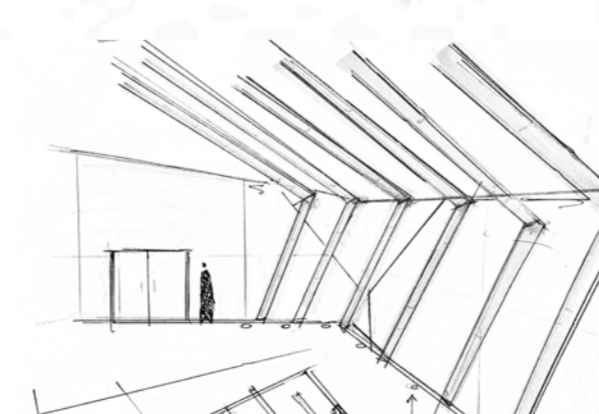
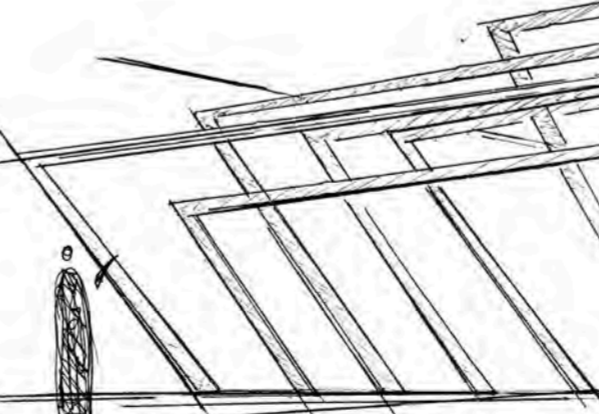
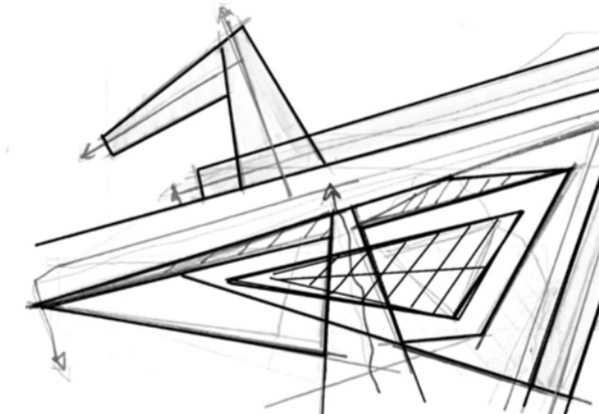
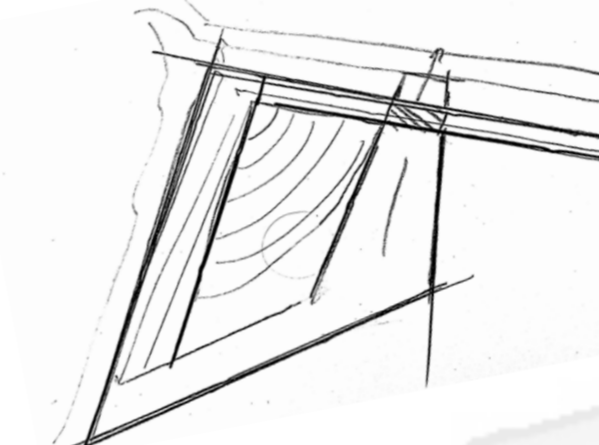
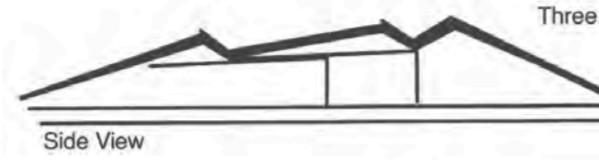
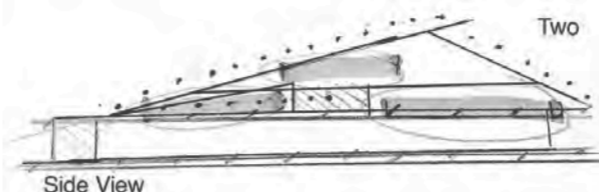
## DESIGN/ INFLUENCE

The design began by looking at the natural elements of the beach, the organic shapes of the rocks, the wide spectrum of colours and the challenges to access such as the stream and the abundance of seaweed.



## DESIGN DRAWING

## DESIGN/ SKETCHES DEVELOPMENT



## DESIGN REFERENCE



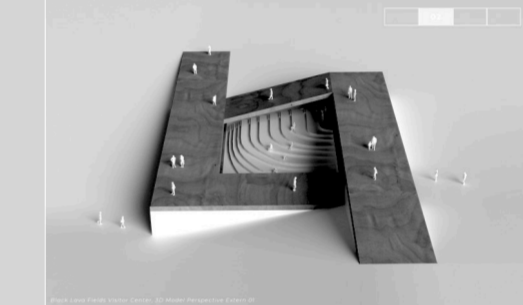
PROJECT NAME - COMMUNITY CENTER VALPOI, INDIA

Taking forward the use of seaweed, folded allows the triangle shape to be used to enlighten and create a sharp feature to the inspirational design.



PROJECT NAME - DORTE MANDRUP COMPLETES VISITOR CENTRE IN GREENLAND

Taking forward the building will blend and fit in with the waterfront environment on the beach in a contemporary style that attaches the eye and blends in with its natural surroundings.



PROJECT NAME - Black Lava Fields Visitor Center

Taking forward this design will show how a walk way can be extended into a small area using different formations.



PROJECT NAME - VADEGGIO-CASSARATE GALLERY / CINO ZUCCHI ARCHITETTI

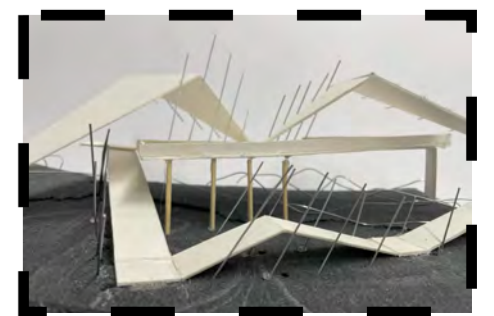
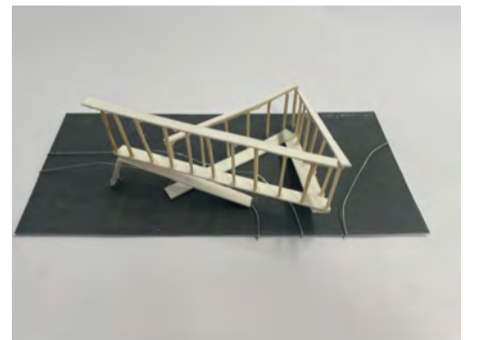
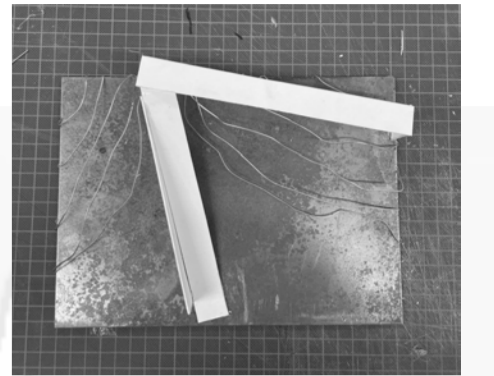
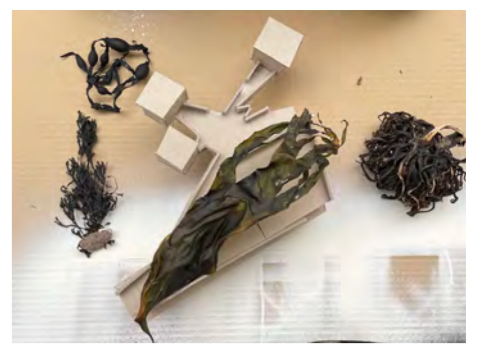
Taking forward this design the angular beams are positioned to create an illusion of movement and repetition and shadows.



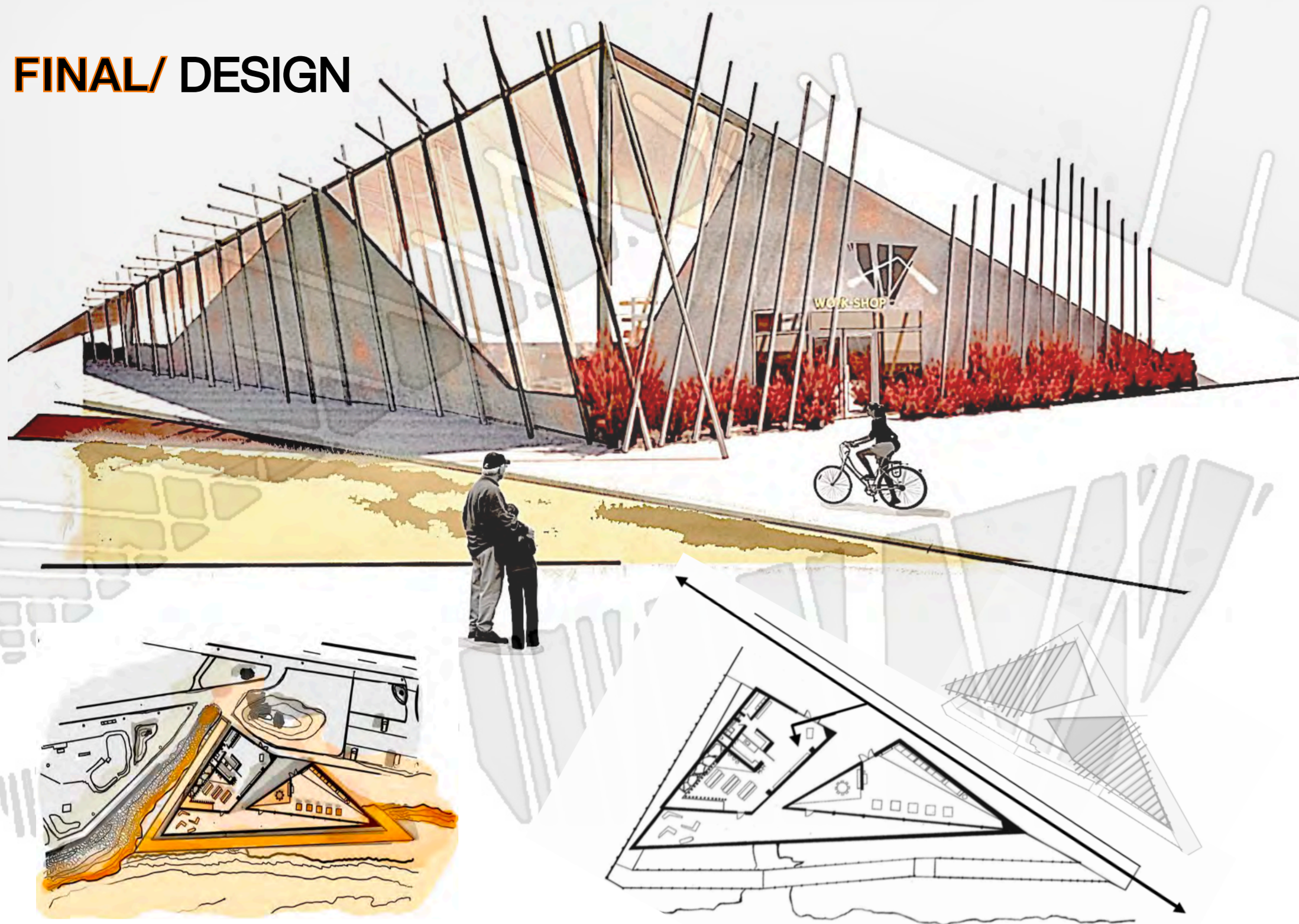
WRAP HOUSE / APOLLO ARCHITECTS & ASSOCIATES

Taking forward with this design to bring the reputation of the beams at slanted angle into the interior of the meeting space, to form a shape in the room to create a dimensional space within a space in the workshop.

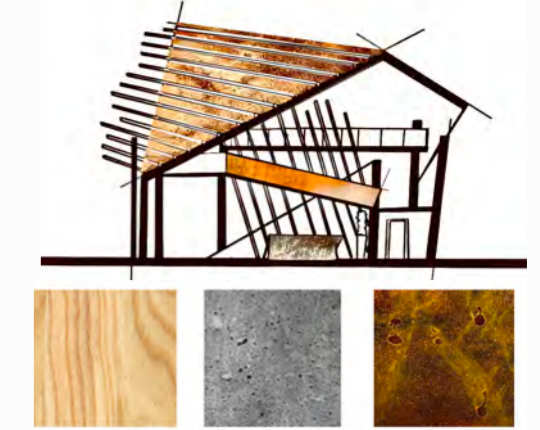
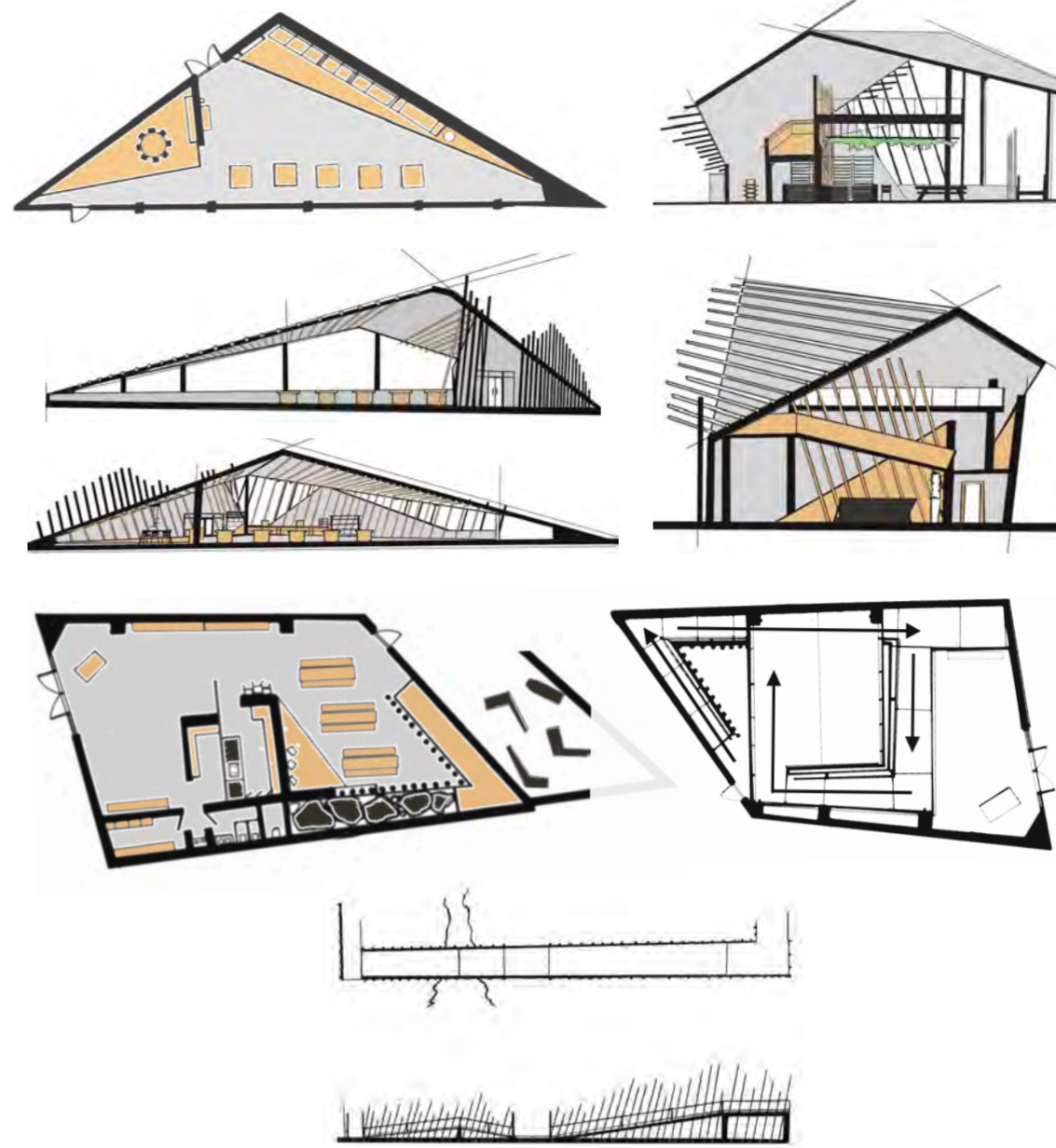
## DESIGN AND MAKING



# FINAL/ DESIGN



## FINAL DESIGN / TECHNICAL DRAWINGS



### EXTERIOR/ MATERIALS THEME

The materials selected all work with minimal maintenance in marine environments. The structure has been set up with the high wind loads associated with coastal areas in mind.

### BUILDING/ STRUCTURAL DESIGN

Loads are transferred from the roofing system into Glulam beams or oak into the main structural frame that consists of Corten steel members and reinforced concrete columns. Loads are then transferred into the ground through reinforced concrete foundations.



### INTERIOR/ MATERIALS THEMEM

The design theme was influenced by the dry materials found on the beach, which were rocks / dry straw and beech wood. These elements help create an environment where its calm / peaceful but scenic and welcoming to its visitors. It has a feminism touch and which is now trending in this current moment.



### RECEPTION/ SHOP

The reception/ area and shop are the focus on arrival to give awareness of the activities within the building connecting the public to support members and to be inspired.

This area consists of the small shop and reception area, so when shopping, the customer can see the process and support the project's and its members.

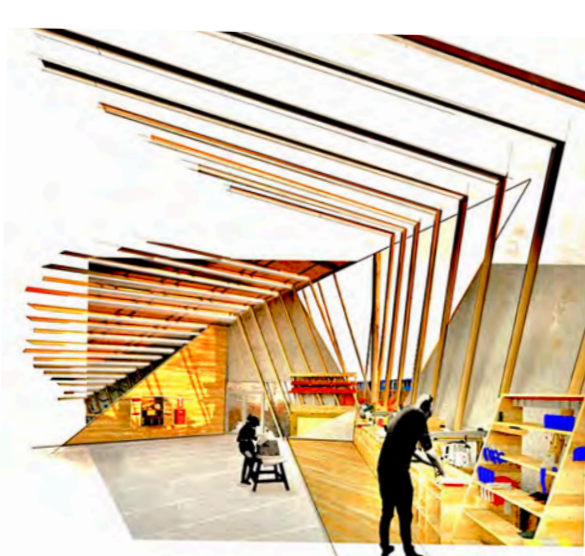
The area provides sharing toilets and changing rooms which have disabled access.



### WORK-SHOP/ MEETING AREA

The work-shop offers space for the use of local people, easy access to tools accessed by all ages, and an open space for projects, and a meeting Area to share ideas and thoughts on community projects.

The use of wooden beams and double glazing window and soft materials allows for a pleasant work environment. The work-shop aims to provide a place to have a purpose for people to take recycle products ie plastic and turn it into something productive and creative within the work-shop.



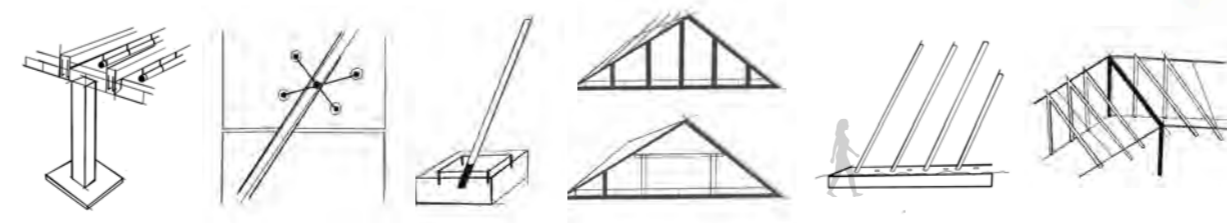
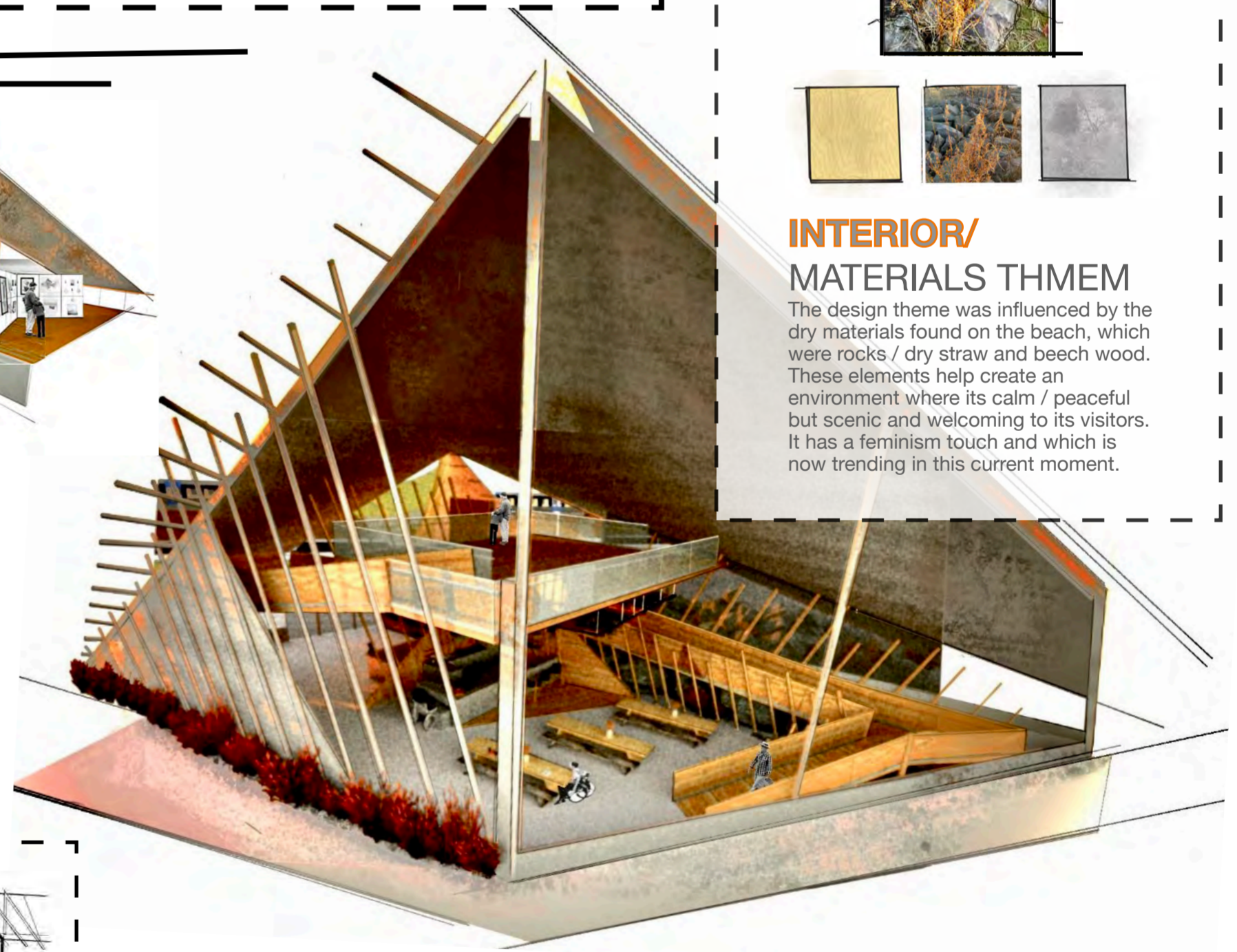
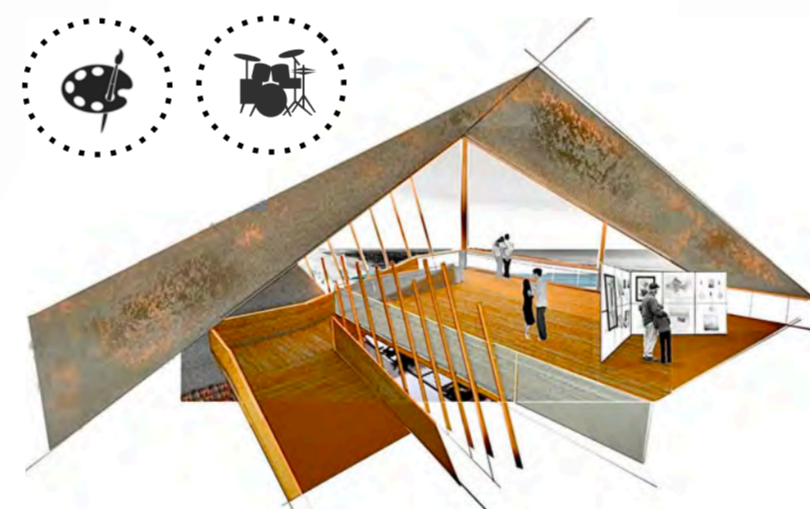
### SOCIAL-AREA

The Social-Area is what brings the mind to a stop, the design is a place where you can connect with people and beach again. A space where that can promote calmness, scenic views and give ability to support each other and bond over the simple pastime of biscuits and coffee.



### EVENT/ EXHIBITION SPACE.

The exhibition space of the building introduces a flexible area that could adjust to a variety of activities from exhibitions, gallery space and event space. The exhibition space is where people can come and celebrate their completed projects in a pleasant environment, admiring the surrounding view of the beach. The ramp is designed not just for easy mobility but to allow products to be transported more easily around.



### ENGINEERING/ DRAWING

LINK TO VIDEO WALK THROUGH ; [HTTPS://VIMEO.COM/](https://vimeo.com/)