SW3A design journal

"a commonty of conservation"

Edward Christie



"A lifelong learning retreat"

land with multiple uses

the building is an urban commonty - communal, loose fit, a lynchpin in a wider system of repair, conservation and sociality. Embracing locals and encouraging tourists to develop a deeper understanding and respect for the rural landscape. Becoming a space for mutual use and participation

lochaber------3

fort william ~~~ 11

abandoned structures------

design-26

output-41

technologies------

references------



COMMONTY - communally held rural











Okm 1km 5km

10km

Loch Linnhe Natural Geography



1:100,000 on A3

Rail to Mallaig A830 to Mallaig and THE ISLES



Ardnamurchan

1:100,000 on A3

86 to Kingussie Rail to Perth and THE SOUTH



-

1:25000 on A3



1. Lochaber Council 2. Camusnagaul Ferry 3. West Highland Museum 4. Highland Cinema 5. Anglican Church 6. CoS Church



0m 10m 25m

100m

Location Plan -1:1250 on A3

Fort William

SITE

Mairi Macintyre and Ossians Hotel

from High Street (on foot)

from Middle Street (by car)

an existing building

from A82 (just passing through)

Footfall and traffic around site on 10/10/2024 from 10.45am to 11.15am 1:200 on A3

Abandoned Structures

▲ Derelict Farm Structures

Typologies

Abandoned Township Cottage

Cleared Blackhouse

Time Period: Early 19th Century and earlier Primary Locations: Remote areas of Lochaber, especially Ardnamurchan and Morvern Primary Materials: Granitic undressed rock, occasional reclaimed timber, turf

Abandoned Township Cottage

Time Period: Mid 19th Century - 1930's Primary Locations: Scattered around modern settlements with whole villages across Lochaber Primary Materials: Lightly dressed stone, slate tiles, timber Time Period Primary loc Lochaber Primary Ma

Tin Shed

Time Period: Early 20th Century - Current Day **Primary locations:** Villages and farmland across

Primary Materials: Corrugated iron, Timber boarding and posts, Fittings

Precedent Closed for Maintenance, Faroe Islands

Closed for Maintenance is an annual project in which international tourists volunteer to carry out maintenance and repair of landscapes, wayfinding, and paths across the Faroe Islands. The project spans a long weekend, in which most attractions on the islands are closed. Faroese experts spend several months before assessing conditions across the archipelago and choosing the sites that would have the most impact.

The project socialises tourism by taking the strain off of locals for a weekend and actively working to conserve not only the tourist attractions, but the landscape itself. "Voluntourists" gain a connection to place and landscape that they otherwise would not have, and are empowered by having a positive rather than detrimental impact on the islands. It builds a positive connection between locals and tourists that respects culture, people and landscape.

What to avoid

Against lourism The Jacobito Express is a shortbeead tin for a Grandma a Smillute scene in a 80 year old movie a Stop and Go quick fix of torban culture on your way elsewhere The Jacobile Express is not public transport for locals in need an opportunity for learning about the actual Jacobite Period a way to see antentes the actual rural Scotland a tourism based on respect and curiosity

A potential solution

Lycles fronthelical to the workshop local experts/ Constructors skillse local, asuable materials kyouldge workshop Conservation, cleaning, improved access materials 绩 local (ura suilt environment Workshop as all ecology of Cepair and Communit

Open space direct the work! heavy tooling Space - Color Can it

Workshop Requirements

heavy Ba materials road access comfort - it's the only space for for eduction deep induction inclusive space Mtelligent 1 interlink between whop and 111149 soundproofing

Process

Scouting

The search for material sources begins by consulting historic maps, community knowledge and with the West Highland Museum to ascertain any historic importance, before going into the field

to visit and find out if conservation is necessary, and what form it should take.

Extraction

Extraction is community and resident led, requiring lots of manpower from visitors and local stakeholders to remove mass quantities of varied material by hand to transportation. Material will need to be carefully surveyed and labelled to allow for preservation and reconstructive practices.

Transportation

Material is tranported by electric vans suitable for sub-50 mile journeys over occasionally rugged terrain. The van is recieved by a team at the workshop to catalogue and organise materials.

> Fort Williom

Processing

The material is varied in typology, use, and origin, and so the workshop has a broad set of tools and equipment to process materials. Local craftspeople, workers in the construction industry, and tutors in construction and fabrication from UHI Fort William are all consulted for their expertise when necessary. Material is repaired, refinished or cleaned to suit the needs of each site.

Usage

Materials are returned to site and re-assembled. Site work involves cleaning and repairing the immediate surrounds to return it to it's natural form. The workshop's flexibility also allows for smaller projects and tasks brought to it from the community to be completed, making the space a place of positive and constructive interaction between residents and tourists.

Design

3

Ommonty The interior is an urban commonly.

Commonity - Communally held rural land with multiple pastoral uses. One of the backbones of old flightland rural life

Rural into the town Simple Materials in Complex forms Kistoric programme VS. hi-tech jucades Spatial Desyin is not contrashing

Leading Ideas

interior commonty (open and shared)

bringing the rural into the town

show the programme -

- TRANSPARENCY - MATERIALITY - SYMBOLISM

The Building's programme is Complex - USE TRANSPARENCY MATERIALITY SYMBOLISM to make the programme legible

materiali transparence

going to the rural for inspiration

photos from Lismore, island off Lochaber

ROOFTOP STRUCTURE corrugated iron sheeting 45mm timber battens waterproof membrane 5mm OSB sheathing

(partially embedded in insulatio Omm plasterboard (between exp

102mm reclaimed brick (workshop floors only) 30mm compacted levelling sand (workshop floors only) floors only) EXISTING CONCRETE SLAB vapour barrier 10mm OSB boarding (pinned through to existing slab) 0-100mm air gap lasterboard (pinned through OSB)

GROUND FLOOR WALLS

whitewash paint ~200mm rough ashlar sandsto 20mm plasterboard (between exposed pillars)

after a weekend apent in rural Lochaber, I developed a basic material pallette - reclaimed corrugated iron and whitewashed stone. Corrugated iron is THE most typical material for rural Scotland, and is frequently used as a roofing material in the Highlands. It was and is used as a replacement roof to traditional thatches on old blackhouses, crofts, and farmhouses. This symbolism as a material that sits above much older structures felt appropriate to the deep retrofit project. Although reclaimed, it will be cleaned and polished - I don't want the building to look like a shoddy facsimile of a barn, but to bring images of the rural into a new context.

When paired with whitewashed roughly cut stone it creates not only a solid, strong base for a lightweight material but further connotations of layers of history, new over old over older. It advertises both structural history and internal programme.

Material

Organising the Space

first 1:50 workshop model

Organising the Space

AVE

14

WE

circulation

consider the structure from the ground and from perspective

going up

Learning from failures:

show the frame

more space for workshops

SYMBOL = Live Work

what are the symbols?

- materials
 rural form
 construction
- · Search/Survey

going up

Can the roop be a pure representation of environmental strategy? A 4th funnel? * A search tower? A lookout? >>

the underlying grid

the grid inverted into massing

Hertzberger, H. (2014) Architecture and Structuralism

going up

becoming a space

A place for

going up

roof access blocks the south, stairs take up too much space

circulation

C

1:50 circulation core model

circulation

that's on the roof

circulation

consider the structure from the ground and from perspective

inhabiting the space -Pillars as People

KAZUO SHINOHARA -House on a Curved Road

Japanese architect Kazuo Shinohara's work confronts frame and structure in many ways, and in this home in Tokyo it is presented as a unifying feature of the space, yet somehow also as an almost alien element, deliberately out of scale to the domestic functions of a home. In bedrooms and corridors it abuts and creates unusual, angular spatial configurations and symmetries, but in the three-storey high central space the pillars become monumental cruciforms that give the space form and meaning.

Treating the frame as not just a form-giver but as it's own symbolic entity allowed me to be more bold with arrangement of spaces; if the frame is already adjusting form and spatial organisation acrosss the building, one might as well be honest about it's existence and celebrate it.

show the frame

show the frame

-SECOND - overflow, divided between work and life

---- FIRST - Connected, open, where theory & research meet practice

~ GROUND - Entrance, loading Intense work

precedents:

- second Riversdale Art Centre, Glenn Murcutt et al. an artists residence and workshop, the central hall is a flexible space for meals, group work and music recitals
- first Studio Mumbai office an extremely flexible architecture office with space for research, computer work and large scale model making and prototyping
- ground Blackhorse Studios, ASSEMBLE A public workshop which handles a huge variety of both light and heavy crafts, as needed by it's public userbase

more space for workshops

more space for workshops

Outputs

1:200 massing model

1:50 workshop model

1:15 "slice" model

Bedrooms are single, compact nooks, shelters from the busy social and work spaces. Materials used are natural and comforting such as varnished CLT walls and cork ceiling panels (which also act as thermal massing). Windows offer tightly chosen views of Loch Linnhe. On the northwest facade they are sheltered by baffles to direct more natural light into the space.

The frame passes through a small void that connects to the canteen. The void allows light and some sound to penetrate, keeping the spaces linked wthout intruding on either.

The frame dangles through three floors, a pillar seemingly hanging from a cruciform suspended in the void above. No longer just a support, the old fabric inhabits the new in exciting ways.

renders of site

1:100 section facing northwest

1:200

Technologies

Sefaira analysis of workshop and bedrooms

Sefaira simulation of key spaces (workshop, north and south facing bedroom) indicate a suitable level of daylighting in work spaces and bedrooms, even those facing north due to the employment of window baffles to reflect light into the spaces.

Areas of underlighting include bathroom spaces and the fire core, which is to be expected due to their programme and the building's deep profile.

Percentage of occupied hours where illuminance is at least 28 footcandles, measured at 0.85 meters above the floor plate.

50%

0%

25%

75%

100%

solar energy collectors

Structure

rooftop refracting pool

workshop thermal mass

bedroom thermal mass

passive heating and ventilation strategies

structural analysis isometric

Existing Structure: Precast concrete grid, circa 1960's, formed of columns, beams, and hangers for facade on upper floors. Retained and clebrated where possible.

Fire Core: In situ cast concrete surrounding fire escape stairwell, rated for fire safety and stability.

Lift and Moving Floor: Steel and glass frame supporting active, moving loads and equipment at varying frequencies.

Main Stairwell: Precast concrete floor slabs supported by existing frame and steel piles, touching ground lightly.

Top Stair: Lightweight steel and concrete construction cantilevered from existing frame.

main stairwell to concrete frame

isometric of connection

The western corner of the building is the most exposed to wind and rain. New planting shields the lower floors, allowing for large windows on the moving floor. The upper floors are exposed and so have few or no windows, shielding the site from permeation. The building largely maintains its original compact form. Extensions on the roof and upper stairway are thermally isolated from the rest of the building to maintain thermal compactness, and the main stair core is triple glazed and captures as well as loses heat.

COMPA

A A A

 2TNI

-0:

site response diagram

COMMONTY - communally held rural land with multiple uses

the building is an urban commonty - communal, loose fit, a lynchpin in a wider system of repair, conservation and sociality. Embracing locals and encouraging tourists to develop a deeper understanding and respect for the rural landscape. Becoming a space for mutual use and participation

references

Closed for Maintenance project by The Faroese Government. Visit Faroe Islands. (2024) Closed for Maintenance. VisitFaroelslands.com Available at: https://visitfaroeislands.com/en/closed/what-how-where/projects/projects-2020 (Accessed: 09 January 2025

various Glenn Murcutt buildings, especially Riversdale Art Centre Fromonot, F. (2003) Glenn Murcutt buildings + projects 1962-2003. London: Thames and Hudson.

various Kazuo Shinohara homes, especially House on a Curved Road Stewart, D et al. (2011) Kazuo Shinohara Casas/Houses. Barcelona: 2G

Herman Hertzberger, Architecture and Structuralism Hertzberger, H. (2014) Architecture and Structuralism, The Ordering of Space. Rotterdam: Nai10 Pubulishers

Flores and Prats, Sala Beckett Flores, R and Prats, E. (2017) Sala Beckett - project. FloresPrats.com. Available ats: https://floresprats.com/archive/sala-beckett-project/ (Accessed: 07 January 2025).

Studio Mumbai Office Studio Mumbai. (2012) STUDIO MUMBAI: Praxis. Tokyo, TOTO Publishing

Blackhorse Studios, ASSEMBLE ASSEMBLE. (2014) Blackhorse Studios, projects. Available at: https://assemblestudio.co.uk/projects/blackhorse-workshop (Accessed: 09 January 2025).

various buildings by Itsuko Hasegawa Hasegawa, I. (1993) Itsuko Hasegawa. London, Academy Editions

