

# WALKER'S MARKET GARDEN

PLANT GROW EAT COOK BUY

CONTEMPORARY MARKET AND SOCIAL GARDEN AT THE HISTORICAL SITE OF WALKER'S OLD POTTERY IN CORBRIDGE VILLAGE

## SITE PLAN & CONTEXT



The former pottery works is located north of **Corbridge village**, being a 20-minute walk from the town centre. The site covers **half a hectare** of land. Corbridge is well-connected, with a **train station** just south across the Tyne and the **A69 motorway** just north, making the site **accessible for locals and visitors** further afield.

Due to its **historical importance**, there are many preserved structures under **scheduled monument** in a variety of conditions.

## SITE SKETCHES



The volumetric properties vary across the site, such as the **15m high bottle kilns**. The various structures are all very spread out across the site. The owner & his family currently **live on site** in their private house.

The site is very **overgrown with vegetation**, due to its inactive use over many years. However, there still lies so much history in the existing structures.

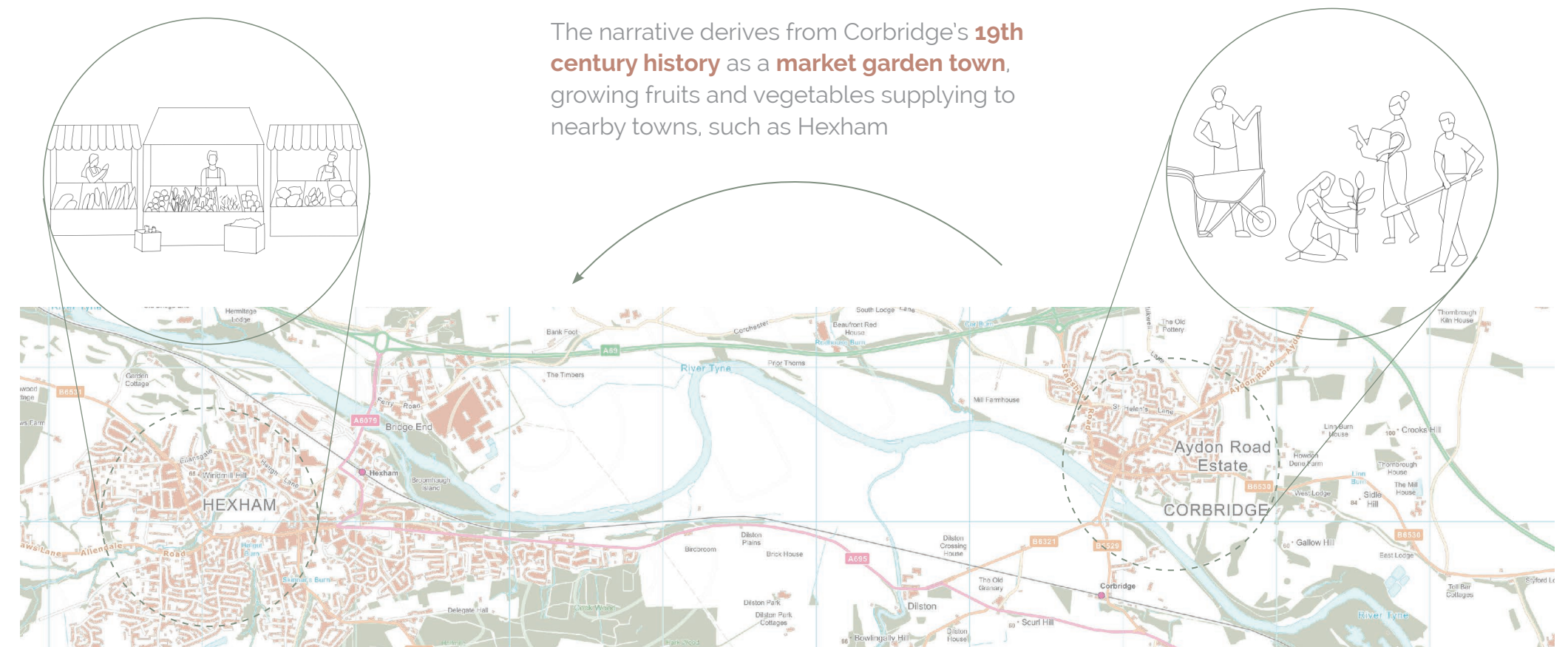


Existing site axonometric, highlighting the various volumes and structures across the site



Existing site elevation of the barn and old cottage, showing the worn down site and overgrown vegetation

## NARRATIVE CONCEPT

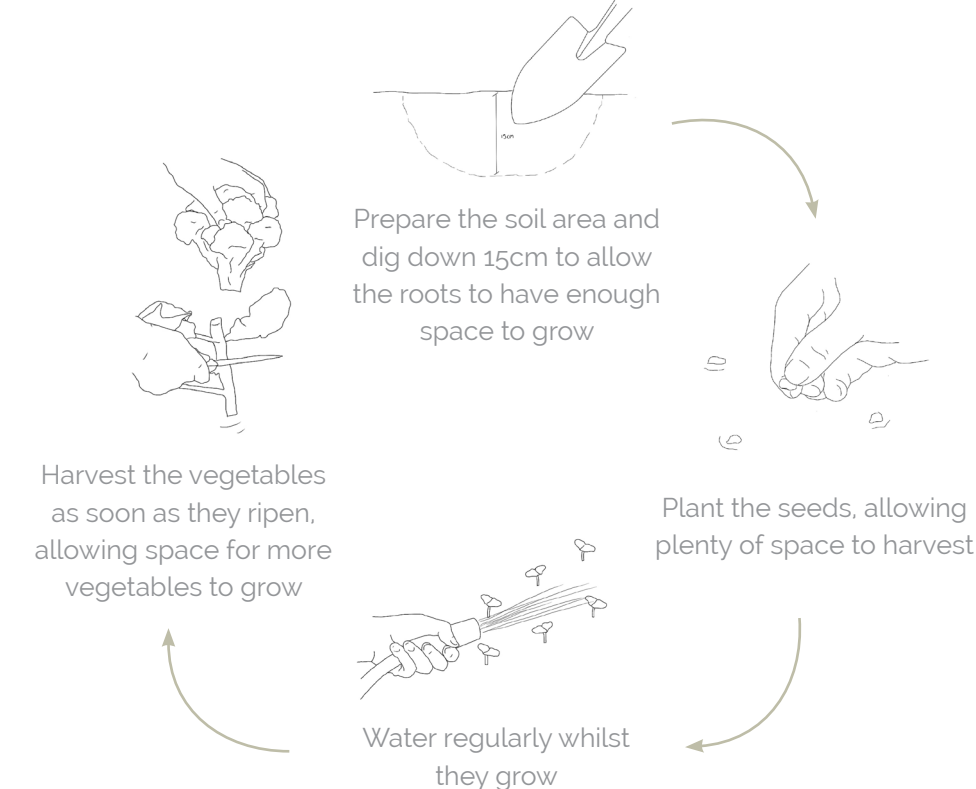


**"Locally grown food creates important economic opportunities, provides health benefits and helps to reduce environmental impact. It also helps bring the community together and gives people the opportunity to make a difference."**

### MARKET GARDEN (noun)

A market garden is the small-scale production of fruits, vegetables and flowers, frequently sold directly to consumers and restaurants.

## FUNCTIONAL ANALYSIS



To understand the needs of the scheme, I looked into how **crops are grown** and the **different conditions** they need to grow in. This helped me to understand essential needs for the scheme to function.

## MARKET GARDEN RESEARCH

### HISTORICALLY IN CORBRIDGE

Corbridge's **industries in the 19th century** were shoemaking, lime burning and **market gardening**. Orchards were planted around the town, whilst Hexham grew into a medieval market town. The produce grown in Corbridge was sold in the markets in Hexham.

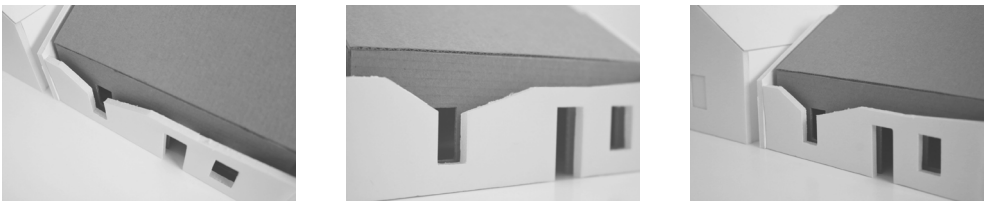
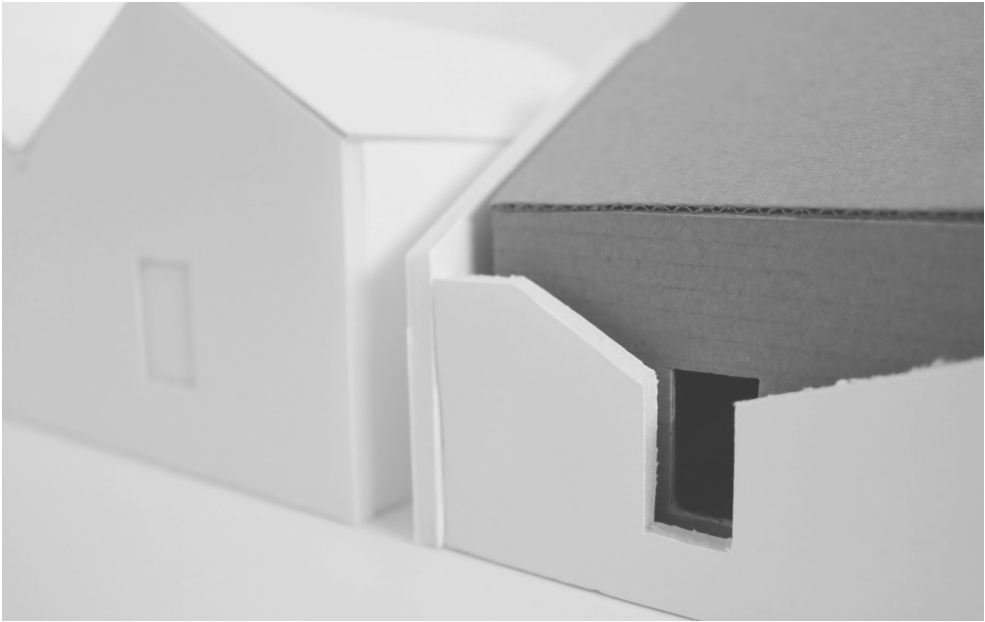
### MARKET GARDENS TODAY

For generations, market gardens have been a **key feature of UK production**, supplying fresh produce to the local area, creating jobs and contributing to regional food culture. Historically, market gardens were passed down through families, with **strong connection to local communities**. Recently, interest in starting up similar to traditional market gardens, has arisen. The effects of **Brexit** means there is a focus on **increasing UK food production**.

The 2020-2021 **Coronavirus pandemic** highlights the **need to support local businesses** due to the financial difficulties many small businesses were faced with. Supporting smaller, family run businesses with thinner financial cushions meant they could **stay in business** instead of having to close down due to loss of finances and funds.

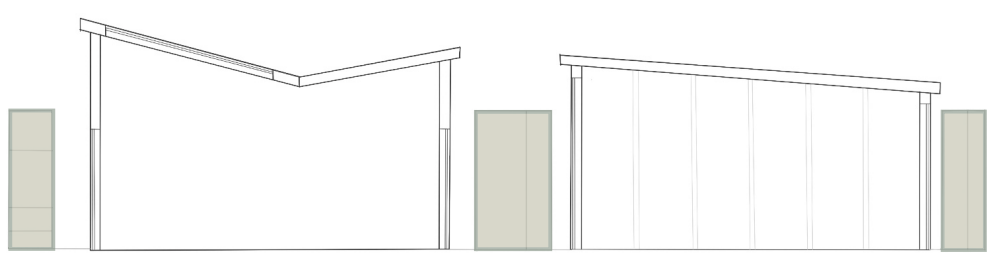


ADAPTIVE POTENTIAL

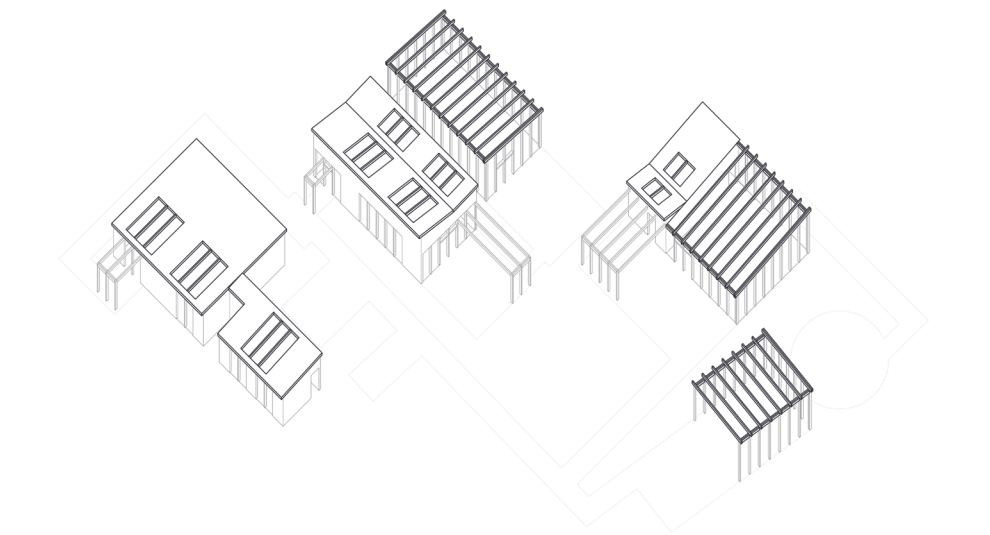


Testing the method of **insertions** within the existing old cottage walls, and how this sits next to the existing barn. This helped test **proportions and architectural style**, before bringing pen to paper and starting to draw.

ARCHITECTURAL CONCEPT



The **greenhouse architecture** gives the practicality of growing produce on site. The structures slot within the site through **insertions**; respecting the existing site proportions



The **obscure roof forms** represent the obscure forms within the bottle kilns. The forms change angles across the site, such as multi-angular sections, flat and slanted roofs.

WHY NOT LARGE SCALE PRODUCTION?

- HUMAN SCALE PRODUCTION**..... Small-scale market gardeners know their land and crops directly. Market garden owners also value close working relationships with employees, volunteers and the community.
- COMMUNITY CONNECTIONS**..... The rise of interest in small gardens is from the success of the local food movement. Growers want to supply locally and to have a connection to their customers and local community.
- TIGHT FEEDBACK LOOPS**..... Small producers get communication and feedback from local buyers and community consumers, helping to validate efforts and increase connectivity.
- VARIETY AND COMPLEXITY OF WORK**..... Having a wide range of crops brings complexity - getting the balance between keeping things interesting and being able to effectively and efficiently manage that range of crops.

THE EXISTING AND THE NEW



Diagramming a site plan **to add clarity to the complex site**, helping to understanding what is the inserted proposal and what is the existing site

THE SOCIAL AND THE EDUCATIONAL



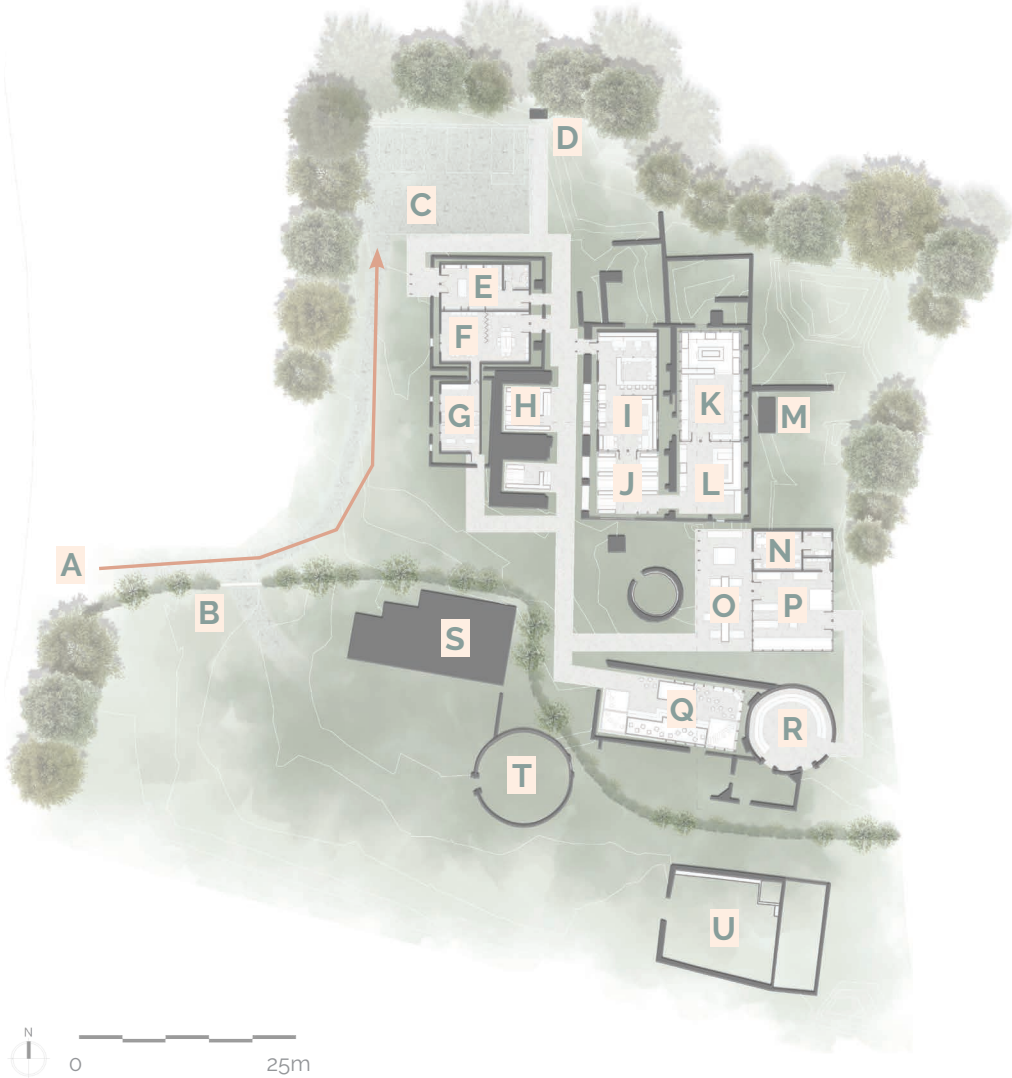
Diagramming a site plan **to highlight the social and educational spaces** which is a large part of the concept, creating an informative yet social hub for locals

TESTING THE CIRCULAR PROCESS OF THE SCHEME



The scheme allows the site to become a **fun, sociable and engaging** attraction, whilst also being **informative and educational**, both about **gardening, planting and healthy lifestyles**, and the **site's history**. Due to the scheme bringing back Corbridge's history as a market garden town in a contemporary way, it is important visitors and locals know the **heritage** involved in the scheme and its **wider context**. The educational spaces are designed to be **flexible**, so they can double up as social spaces when not in educational use.

PROPOSAL SITE PLAN



- A public foot & vehicular entrance
- B private house's gated driveway
- C public car park
- D compost heap collection
- E shop
- F indoor learning centre
- G cookery school
- H plant your own area
- I indoor cafe & seating
- J outdoor cafe seating
- K indoor sensory garden
- L outdoor sensory garden
- M rainwater collection tank
- N community social area & kitchen
- O outdoor community garden
- P indoor community garden
- Q outdoor learning centre
- R social kiln seating
- S public/private planter boundary
- T site owner's private home
- U kiln left for site owner
- V site owner's walled garden

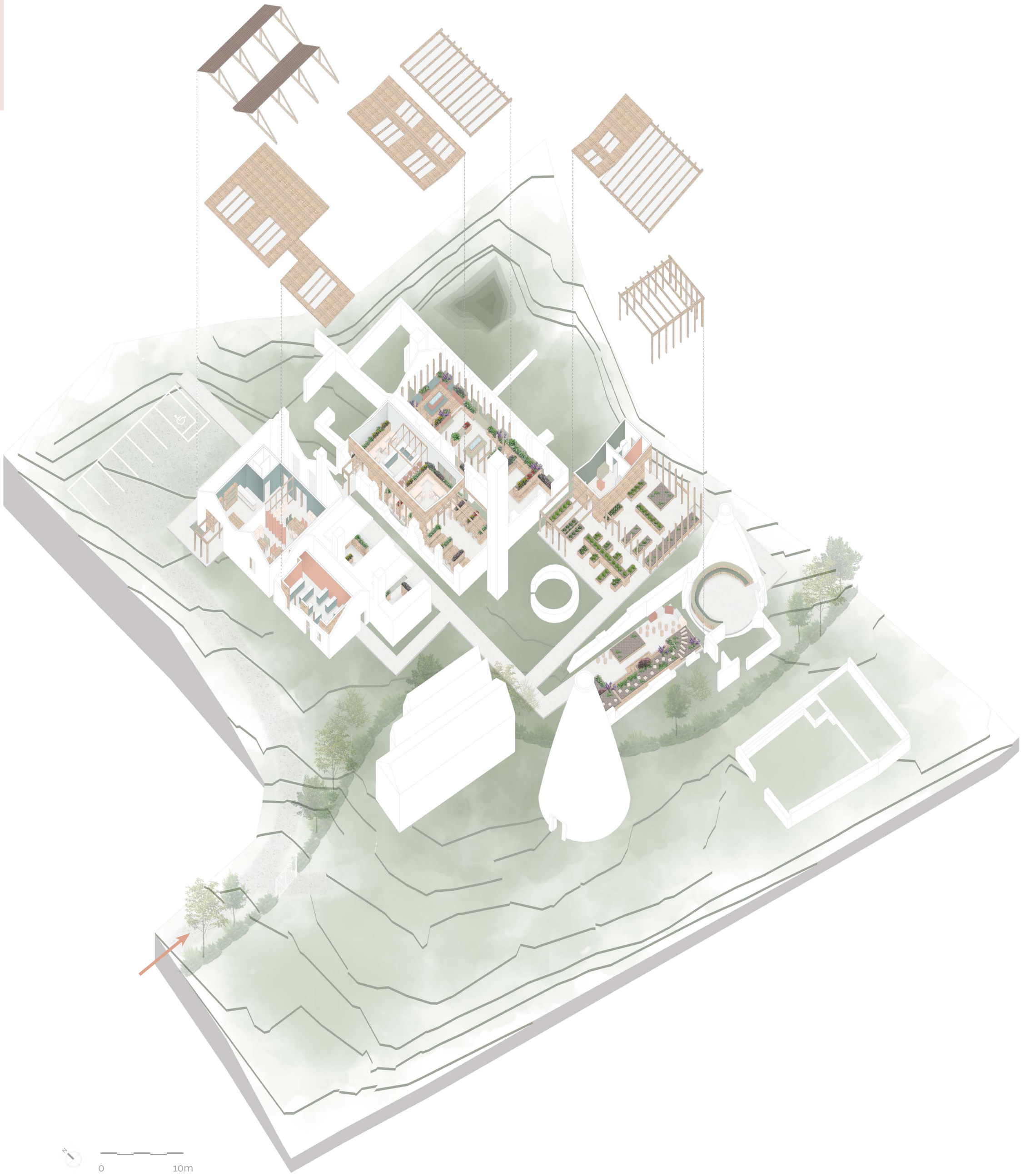


The shop **sells produce grown on site** and of **local businesses** that support the site. The indoor education centre facilities **educate** visitors and the community about **gardening and healthy lifestyles**. Information is also available about **the site and Corbridge's history** and how this fits within the context of the **new scheme**. The cookery school hosts **cookery classes** for visitors and locals to take part in. A 'plant your own' scheme allows visitors and the community to **plant seeds to take home** and grow themselves. The cafe **uses crops grown on site** in light dishes. The sensory garden is a quiet place for people to **dwell amongst nature**. The community centre allows locals who live in Corbridge **to feel at home**, with a social area, kitchen and garden, giving them the opportunity to contribute to the site. The outdoor education centre allows children to **learn amongst nature**. The bottle kiln is left for visitors **appreciate the existing site**.

FLOOR PLANS



AXONOMETRIC



No render to the existing site walls to highlight and focus on the proposal insertions.



THE PROCESS OF THE PRODUCE THROUGH THE SITE



G  
in  
the  
gardens



E  
in  
the  
cafe



C  
in  
the  
cookery school



B  
in  
the  
shop

Vegetables, herbs and fruit are **grown on site** in the **community and sensory gardens**. Visitors can **browse** the produce in the gardens, whilst the **community and staff** help **watering, planting and feeding** the crops. Vegetables, fruit and herbs grown on site are **cooked with** in **light dishes** in the cafe, for both visitors, the community and staff to enjoy. Weekend **cooking classes** are available for **visitors and the community** to sign up for, **using the produce grown on site** to create a **variety of dishes**, whilst **culinary skills** are also taught. In the day time, this area is closed off, unless there is a school trip or event booked in. The vegetables, fruit and herbs grown on site are **sold** in the **shop** for visitors and the community to purchase. **Local produce used in the cafe** is also sold here, such as the coffee beans, honey and milk. The shop also **displays information** on **events** taking place at the site.

SERIAL VISION

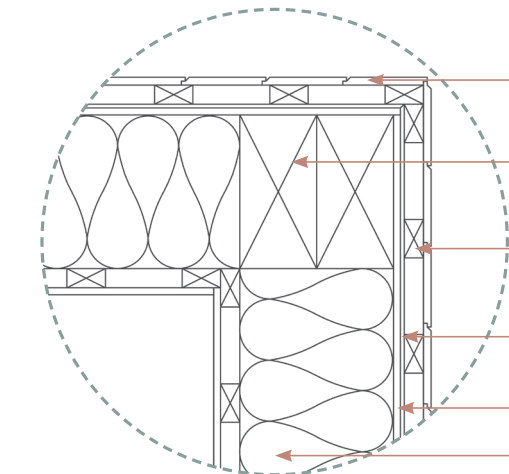
<https://youtu.be/U-JnAKRlkQE> Explore the visitor journey through this short stop motion film

TECHNICAL SECTION Cc & DETAILS



0 500 1m 1.5m 2m 2.5m

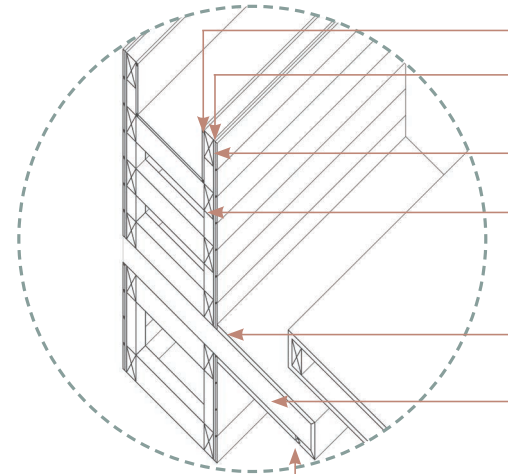
C



- 50mm British Larch Shiplap Horizontal Cladding
- 100mmx200mm British Larch Structural Beam Doubled Up
- 25mmx50mm Softwood Horizontal & Vertical Studs
- 5mm Vapour Control Layer Membrane
- 9mm Plywood Board
- 200mm Natural Wool Insulation

0 500

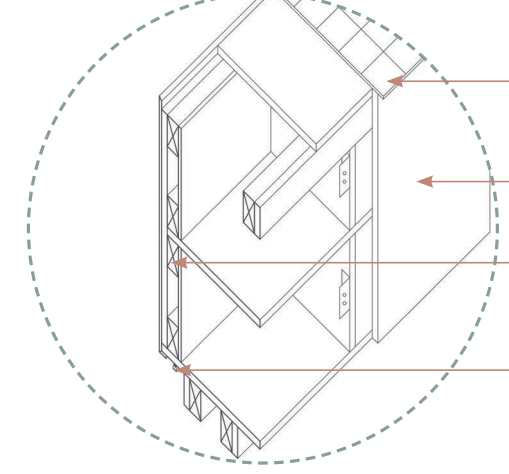
B



- 10mm Waterproof Liner
- 9mm Plywood Board
- 50mm British Larch Shiplap Horizontal Cladding
- 100mmx50mm Softwood Timber Frame
- 25mm Light Pink Laminated Plywood, Chamfered
- 100mmx50mm British Larch Cantilevered Seat
- LED Strip Under-lighting

0 500 1m

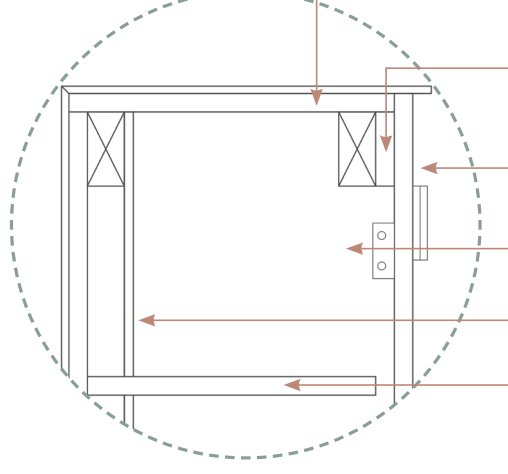
A



- 10mm White Ceramic Glazed Tiles Adhered with Mortar, Chamfered
- 20mm Terrazzo Tiles
- 100mmx50mm Softwood Timber Frame
- LED Strip Under-lighting

0 500 1m

A



- 25mm MDF Board Covering Timber Frame
- 15mm Plywood Spanner
- 25mm Navy Blue Laminated Plywood Door & Handle
- Steel Hinge Bracket
- 15mm Laminated Plywood Back
- 25mm Navy Blue Laminated Plywood Shelf

0 500



ENVIRONMENTAL STRATEGY

SUN PATH



The sun's path projects **shadows from the bottle kilns** onto the scheme. Taking full advantage of the **large area of direct sun** the site receives to **heat** the internal structures, such as the greenhouses, to provide the **function of growing** the produce on site. Other internal structure are **well ventilated** to **regulate** this solar gain.

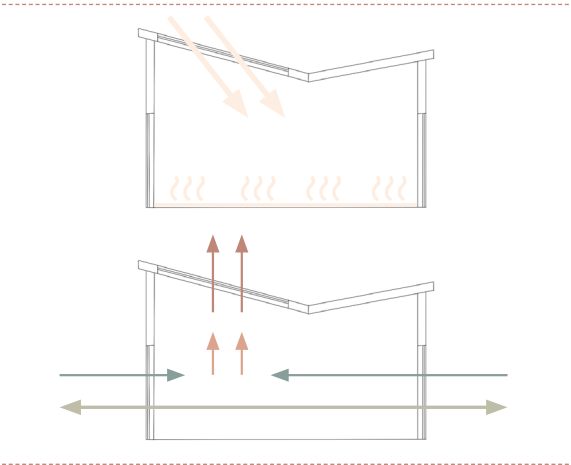
SUSTAINABILITY

Recycled crops to form **compost** to use to grow crops. **Rainwater collection tanks** to **irrigate the gardens** keeps the site low maintenance and **sustainable**



HEATING & VENTILATION

**Solar gain** through apertures to **heat up** the internal structures. **Glazed southern facades** ensure the structures receive direct sunlight. **Natural and cross ventilation** through openings keeps the spaces cool



Materials used in the scheme include **British larch ship-lap cladding** on the structures across the site, with a **concrete pathway** connecting all the proposed areas. A **neutral colour scheme** has been used to respect the vibrant colours of the existing site walls, whilst bringing in the rustic, garden colours. The **same materials and colours** are used **consistently** across the site to ensure a **seamless design and connection** between the various spaces.

SHORT SECTION Aa



PLACING WITHIN THE EXISTING SITE WALLS



**CAFE** The cafe insertion within the existing western pug mill ruins



**SENSORY GARDEN** The sensory garden insertion within the existing eastern pug mill ruins

LONG SECTION Bb

