

Construction Drawing Set and Material Specification

1. General Overview

- **Structure Type:** Octagonal round-house hut
- **Base Size:** 6.53 meters across
- **Total Height:** 5 meters
- **Wall Height:** 1.5 meters
- **Roof Pitch:** 45°
- **Roof Overhang:** 600 mm

2. Structural Components

- Base Frame
- **Timber Joists:** 4x2 (100x50 mm)
 - **Floor Decking:** 18 mm OSB board
 - **Foundation:** Hollow concrete blocks (cut 35)

Wall Construction

- **Studs:** 4x2 timber framing
- **Insulation:** 50 mm Celotex or equivalent rigid insulation
- **Interior Sheathing:** OSB board
- **Exterior Cladding:** Horizontal shiplap timber
- **Shutters:** Hinged timber shutters on each wall panel, covering upper half
- **Doors:** Double timber doors with glazed upper panels and black iron hardware

Roof Construction

- **Joists:** 6x2 (150x50 mm) timber rafters
- **Sheathing:** 11 mm OSB board

- **Insulation:** 70 mm Celotex
- **Covering:** Green felt shingles
- **Ventilation:** Central vent or cupola

3. Interior Layout

Seating and Tables

- **Benches:** timber benches along perimeter
- **Tables:** Drop-down flaps mounted between window panels

Kitchen Core

- **Central Unit:** Timber-framed island housing:
 - Gas bottles
 - Cookers
 - Kitchen equipment storage

4. Material List

Timber

- 4x2 joists (floor): cut to base grid
- 6x2 joists (roof): cut to rafter lengths A/B/C
- 42x50 mm studs: cut 15
- Shiplap cladding: cut to perimeter coverage
- Fascias: timber cut 5

Panels

- OSB board (floor, walls, roof): cut to fit
- Celotex insulation: 50 mm (walls), 70 mm (roof)

Fixtures

- Hinges and latches for shutters
- Black iron handles and hinges for doors
- Screws, nails, brackets, and sealants

Roofing

- Green felt shingles
- Ridge vent or cupola

Foundation

- Hollow concrete blocks: cut 35
- Gravel base layer (optional)

5. Constructional Drawings

5.1 Base Frame Plan

- Octagonal base frame layout with 4x2 timber joists spaced evenly.
- Dimensions: 6.53 meters across.
- Floor decking: 18 mm OSB board fixed on joists.
- Foundation: Hollow concrete blocks arranged under joists, cut 35 units.

5.2 Wall Elevations

- Eight wall panels, each framed with 4x2 studs spaced at regular intervals.
- Wall height: 1.5 meters.
- Exterior cladding: Horizontal shiplap timber.
- Interior sheathing: OSB board.
- Insulation: 50 mm Celotex rigid insulation within stud cavities.
- Hinged timber shutters covering upper half of each wall panel.

- Double timber doors with glazed upper panels and black iron hardware on one panel.

5.3 Roof Framing Plan

- Roof rafters: 6x2 timber joists arranged radially at 45° pitch.
- Roof overhang: 600 mm beyond wall edges.
- Roof sheathing: 11 mm OSB board fixed to rafters.
- Insulation: 70 mm Celotex under roof sheathing.
- Roof covering: Green felt shingles.
- Central ventilation vent or cupola at apex.

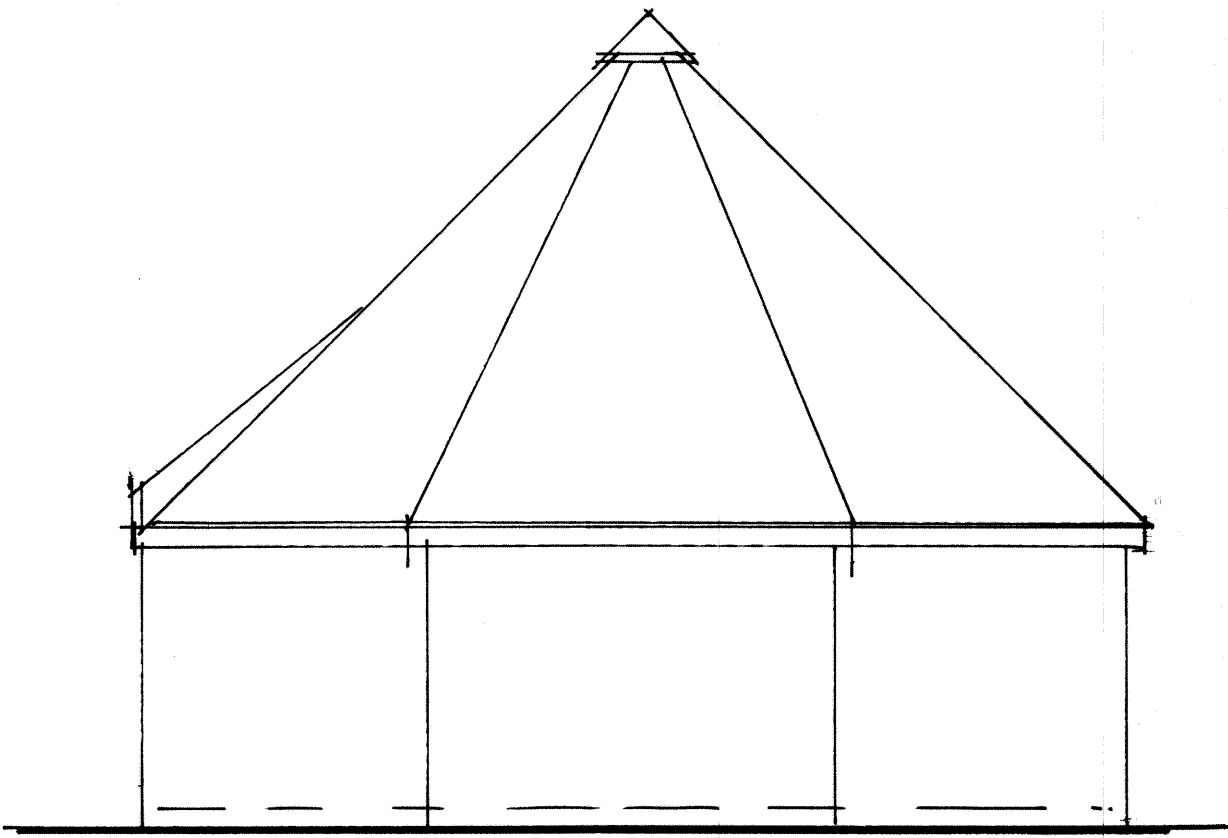
5.4 Interior Layout Plan

- Perimeter timber benches fixed along walls.
- Drop-down tables mounted between window panels.
- Central kitchen island framed in timber housing gas bottles, cookers, and storage.

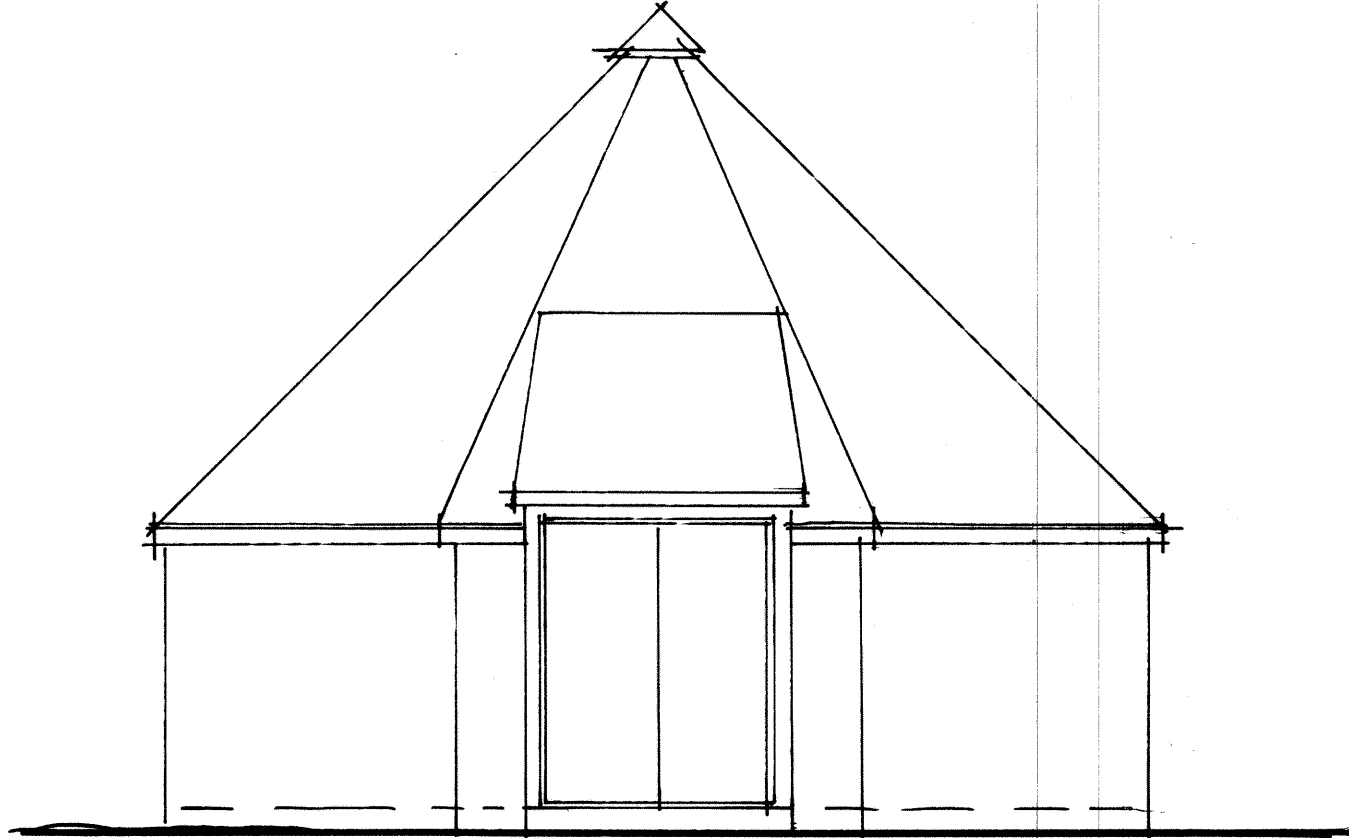
5.5 Material Specification Summary

- Timber sizes and quantities as per section 4.
- Panel materials and insulation thicknesses.
- Hardware and fixtures details.
- Foundation block layout and specifications.

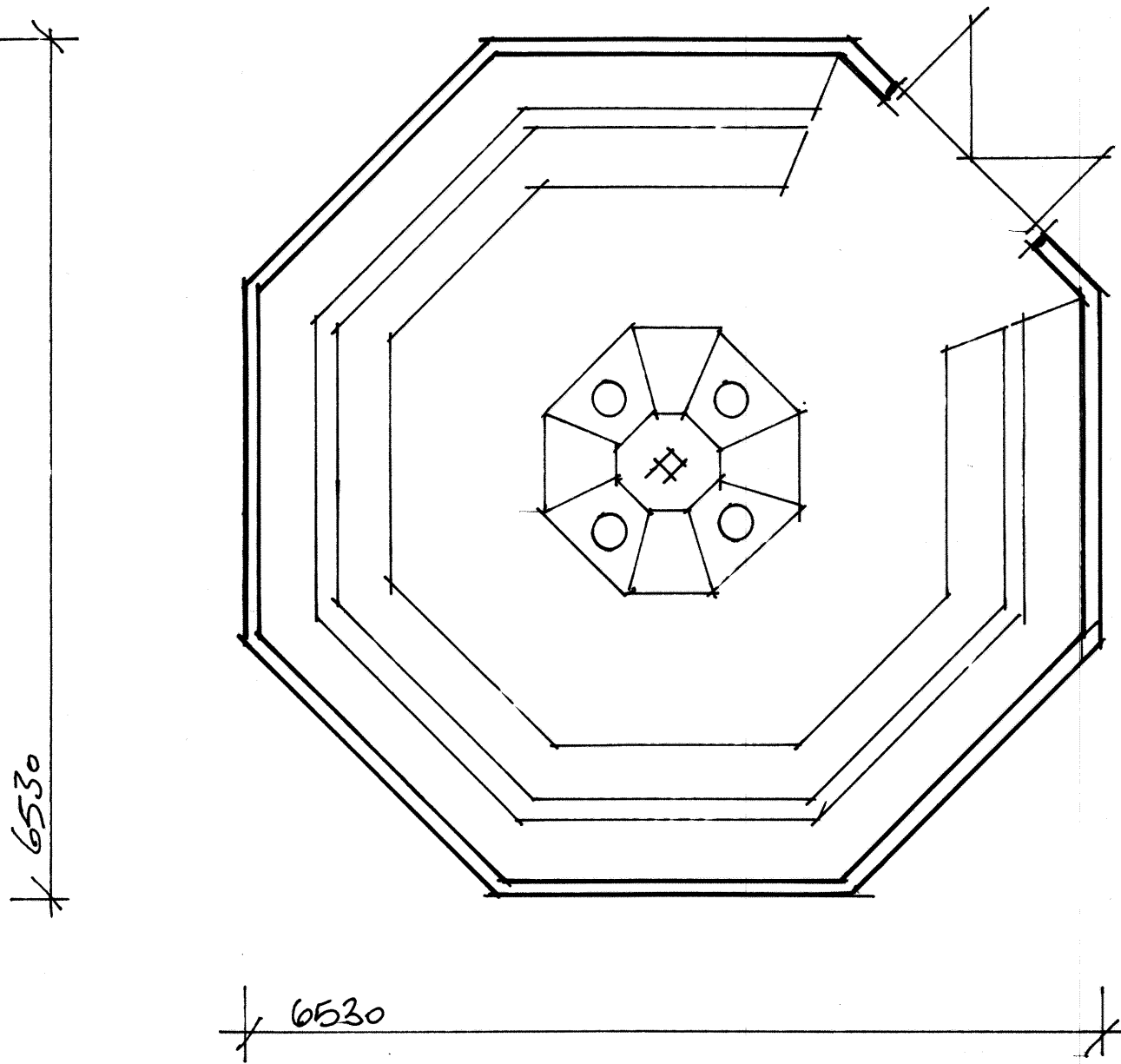
These drawings provide a clear guide for construction, detailing framing, cladding, roofing, and interior elements for the octagonal round-house hut.



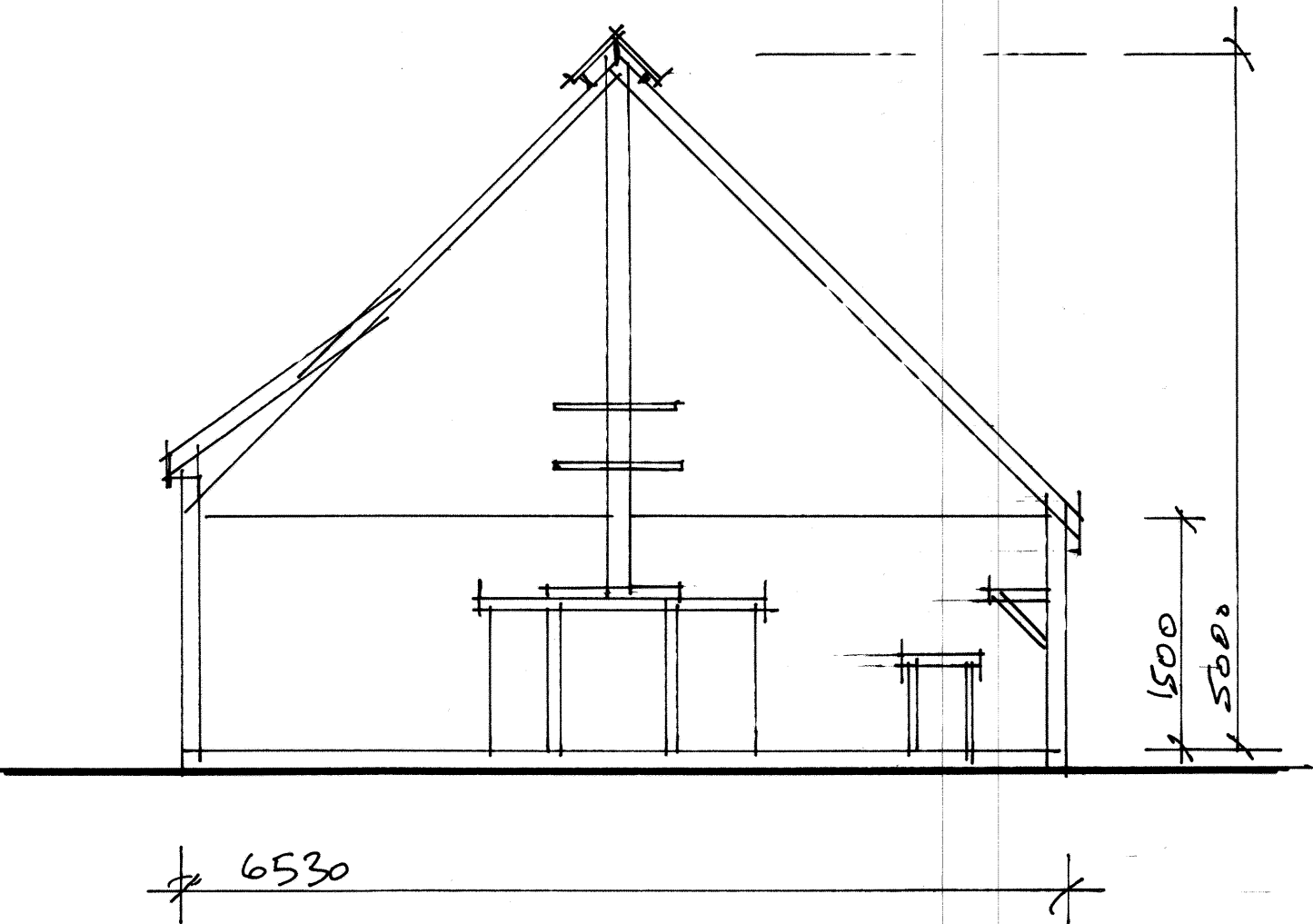
GENERAL SIDE ELEVATION



ENT DOOR ELEVATION



FLOOR LAYOUT



TYPICAL SECTION

Roundhouse

Outside notes:

Your updated round-house hut now features open shutter spaces with no window frames — giving it a breezy, open-air feel while maintaining the rustic charm. This setup is ideal for summer use or well-ventilated communal cooking. If you'd like to explore seasonal adaptations or add removable screens for insect control, I can design that next.

Indoor notes:

Your fully specified round-house hut is now visualized — complete with structural detailing, insulation layers, interior benches, drop-down tables, and the central kitchen unit. If you'd like to develop construction drawings or a materials breakdown next, I can build that out for you.

Octagonal Round House Hut.

Number 1 No
Capacity per 24 people

Round House Hut Dimensions (each)

Width 6.53 metres
Length 6.53 metres
Height 5.00 metres

Octagonal Round House Features

Timber-clad insulated structures
Kitchen and seating areas
Minimal low energy LED lighting
Natural ventilation
Raised on pad foundations to protect ground and allow drainage

Siting Considerations

Located within walking distance of main facilities and car park
No impact on tree root zones or protected habitats
Orientation to reduce wind exposure and visual impact
The design and access statement supports a planning proposal for the installation of 1 No Octagonal Round House Hut at Ashworth Valley Campsite.
The Development is designed to complement existing facilities and infrastructure, expand overnight facility, enhance inclusivity and year-round usability.

Wheelchair accessible including:

Wide entrance doors
Ramp accessed
Purpose built seating area arrangement
Turning space inside
Proximity to accessible toilets and main hall
Clear signage and contrast markings where required
Site staff trained in supporting guests with additional needs

Materials:

FSC-Certified timber, eco-insulation, weatherproof non-toxic finishes

Foundations:

Minimal raised Pod's base avoids excavation and root damage

Energy:

Solar-powered internal lighting or connection to low-voltage site system

Water:

Round House uses existing toilet/shower facilities, no new plumbing or waste systems required, all waste water and material to be disposed at the toilet block or dedicated waste recycling bins.

Biodiversity:

Tree lines, habitats and drainage patterns remain undisturbed

Lighting:

Low-glare, motion-activated, downward-facing lights to reduce light pollution

The Round House is designed to be an asset for the long-term future of Ashworth Valley, enhancing its ability to host a diverse range of users year-round.

PROJECT

PROPOSED 4 No PODS
AND OCTAGONAL
ROUND HOUSE HUT.

DRAWING TITLE

PROPOSED OCTAGONAL
ROUND HOUSE HUT.

CLIENT

ASHWORTH VALLEY CAMPSITE.

ADDRESS

ASHWORTH ROAD,
ROCHDALE. OL11 5UP.

SCALE

SCALE 1:50@A1

DATE

FEB 2026.

DRAWING No

CL 02265953/14.

