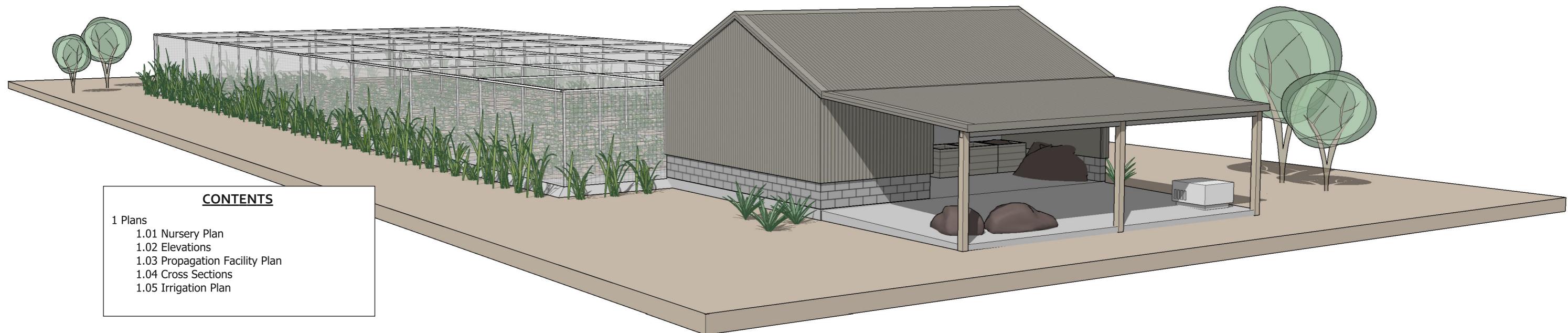
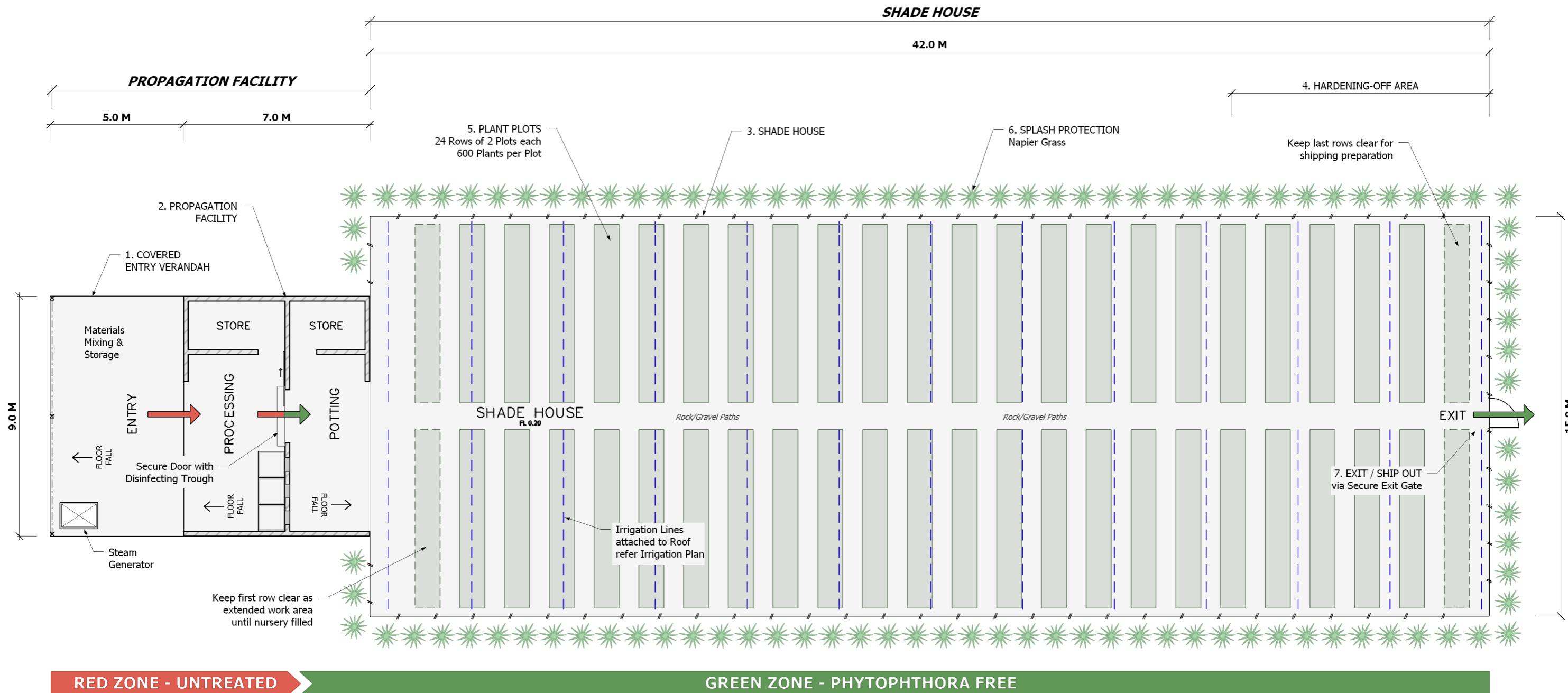


**PHYTOPHTHORA-FREE AVOCADO NURSERY**  
**KENYA AVOCADO INDUSTRY SUPPORT PROGRAMME**  
**PROPOSAL - UPDATE 5 - 13/03/2023**



ORGANISATION	PROJECT	ORGANISATION
New Zealand Institute for Plant & Food Research <a href="http://www.plantandfood.com">www.plantandfood.com</a>	Kenya Avocado Industry Support Programme	New Zealand Ministry of Foreign Affairs and Trade <a href="http://www.mfat.govt.nz">www.mfat.govt.nz</a>

## 1.01 NURSERY PLAN



NURSERY PLAN  
1:150

**FLOOR AREA**

Covered Entry	45.0 m <sup>2</sup>
Propagation Facility	63.0 m <sup>2</sup>
Shade House	630.0 m <sup>2</sup>
<b>Total Area:</b>	<b>738.0 m<sup>2</sup></b>

**1. COVERED ENTRY VERANDAH**

Covered area with Post and Beam Structure with Metal Roofing. Construction by others.

**2. PROPAGATION FACILITY**

0.6m high Stone Foundation Walls with 2.4m high Metal Framed Walls and Metal Roof Structure over. Corrugated Metal Wall and Roof Cladding. Concrete floors sloping as indicated. Construction by others.

**3. SHADE HOUSE**

Shade house constructed as 2.4m high metal framework with shade cloth cover. Construction by others.

**4. HARDENING-OFF AREA**

Roof shade cloth to be removable in hardening-off area indicated. Keep last rows clear for plants to be hardened and sprayed in preparation for shipping when possible.

**5. PLANT PLOTS**

Each plot shown holds 10 x 60 = 600 plant bags. Two plots per row each side of centre path. 24 rows x 1,200 plants = 28,800 plants capacity. Two cycles per year timed to rain season resulting in 57,600 plants annually. Total capacity depending on bag footprint (smaller bag footprint = higher production).

**6. SPLASH PROTECTION**

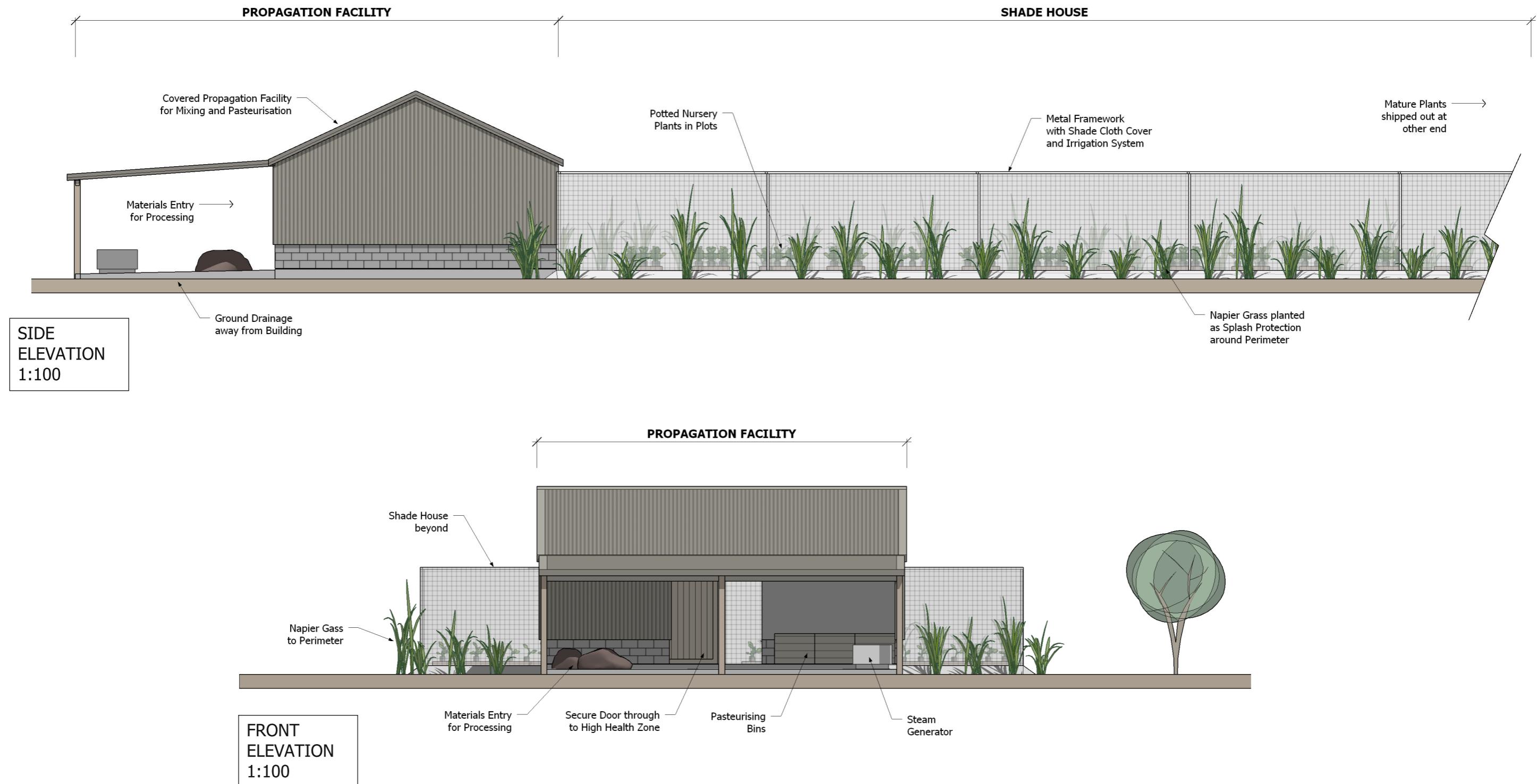
Grow Napier Grass around the perimeter of the shade house and allow to grow into a 1.5m wide strip by between 0.5m and 1.5m high. The hedge row can be harvested for stock food. The hedge row prevents contaminated soils from splashing through the shade house netting into the Green Zone.

**7. EXIT/SHIP OUT**

Plants should only be despatched via the secure exit gate. Plants should not be returned through the entire nursery when being despatched.

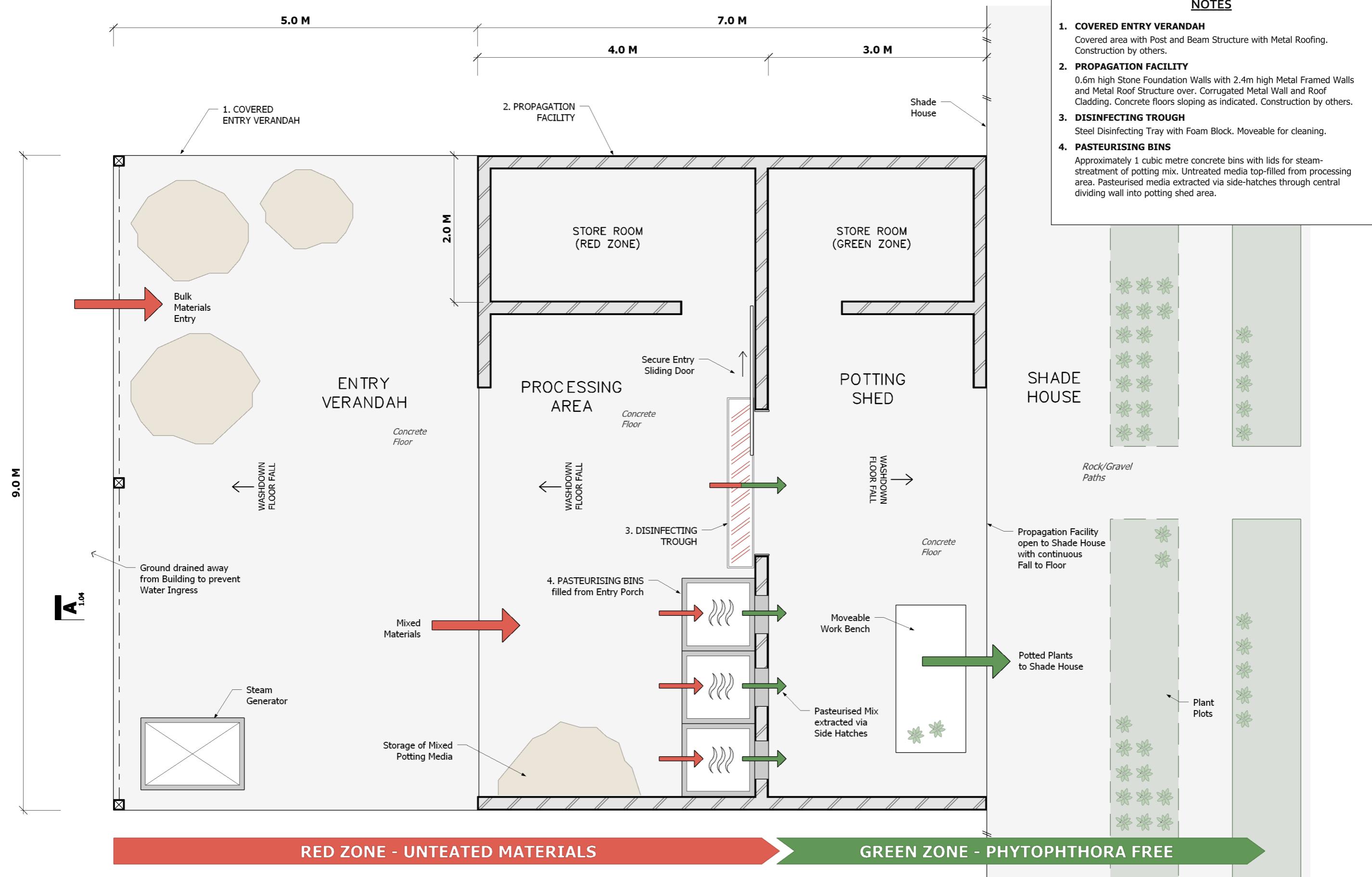
ORGANISATION	PROJECT	ORGANISATION	DRAWING TITLE	SHEET	SCALE	DATE	REVISION	DRAWINGS
New Zealand Institute for Plant & Food Research <a href="http://www.plantandfood.com">www.plantandfood.com</a>	Kenya Avocado Industry Support Programme	New Zealand Ministry of Foreign Affairs and Trade <a href="http://www.mfat.govt.nz">www.mfat.govt.nz</a>	Nursery Plan	1.01	1:150 (A3) OR AS SHOWN	13/03/2023	- - -	Draftx Design <a href="mailto:design@draftx.nz">design@draftx.nz</a>

## 1.02 ELEVATIONS



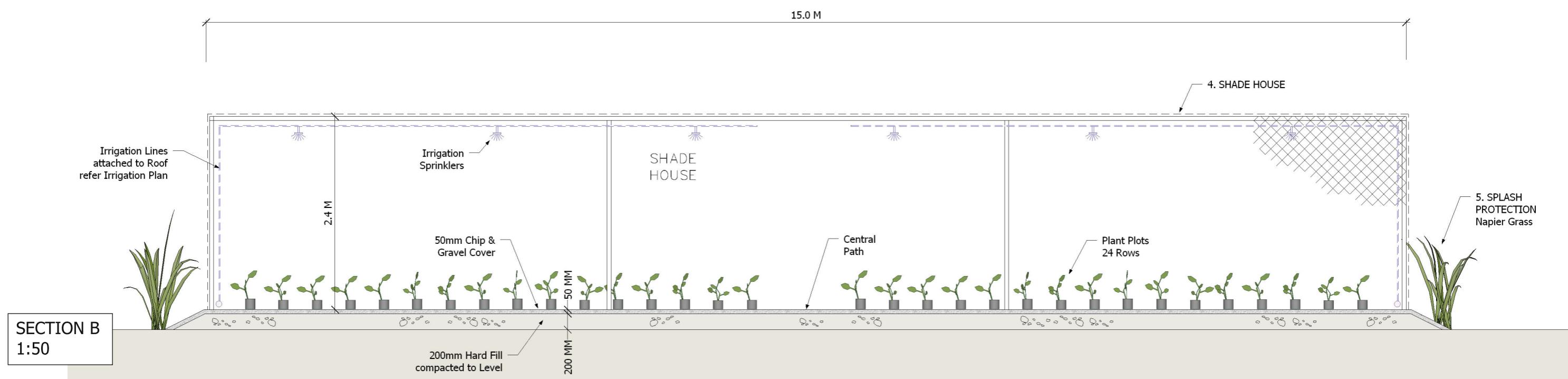
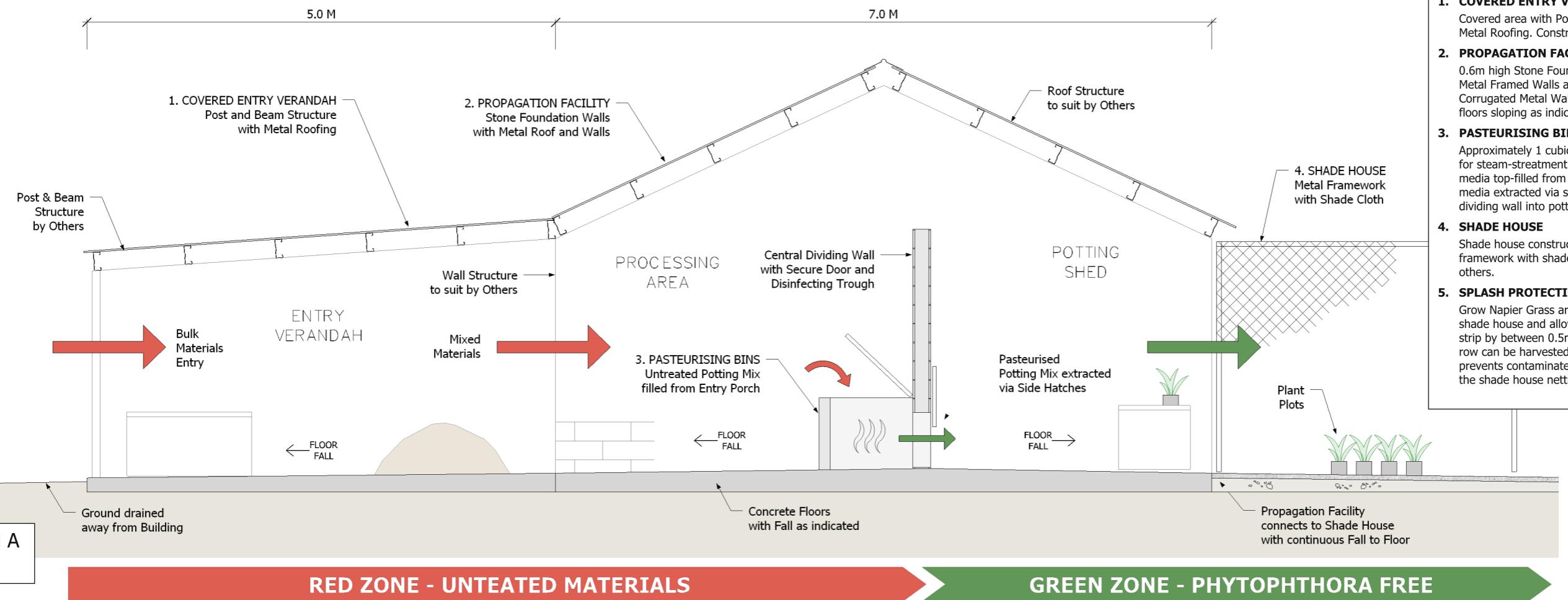
ORGANISATION	PROJECT	ORGANISATION	DRAWING TITLE	SCALE	DATE	REVISION	DRAWINGS
New Zealand Institute for Plant & Food Research <a href="http://www.plantandfood.com">www.plantandfood.com</a>	Kenya Avocado Industry Support Programme	New Zealand Ministry of Foreign Affairs and Trade <a href="http://www.mfat.govt.nz">www.mfat.govt.nz</a>	Elevations	1.02 1:100 (A3) OR AS SHOWN	13/03/2023	- - -	Draftx Design <a href="mailto:design@draftx.nz">design@draftx.nz</a>

## 1.03 PROPAGATION FACILITY PLAN



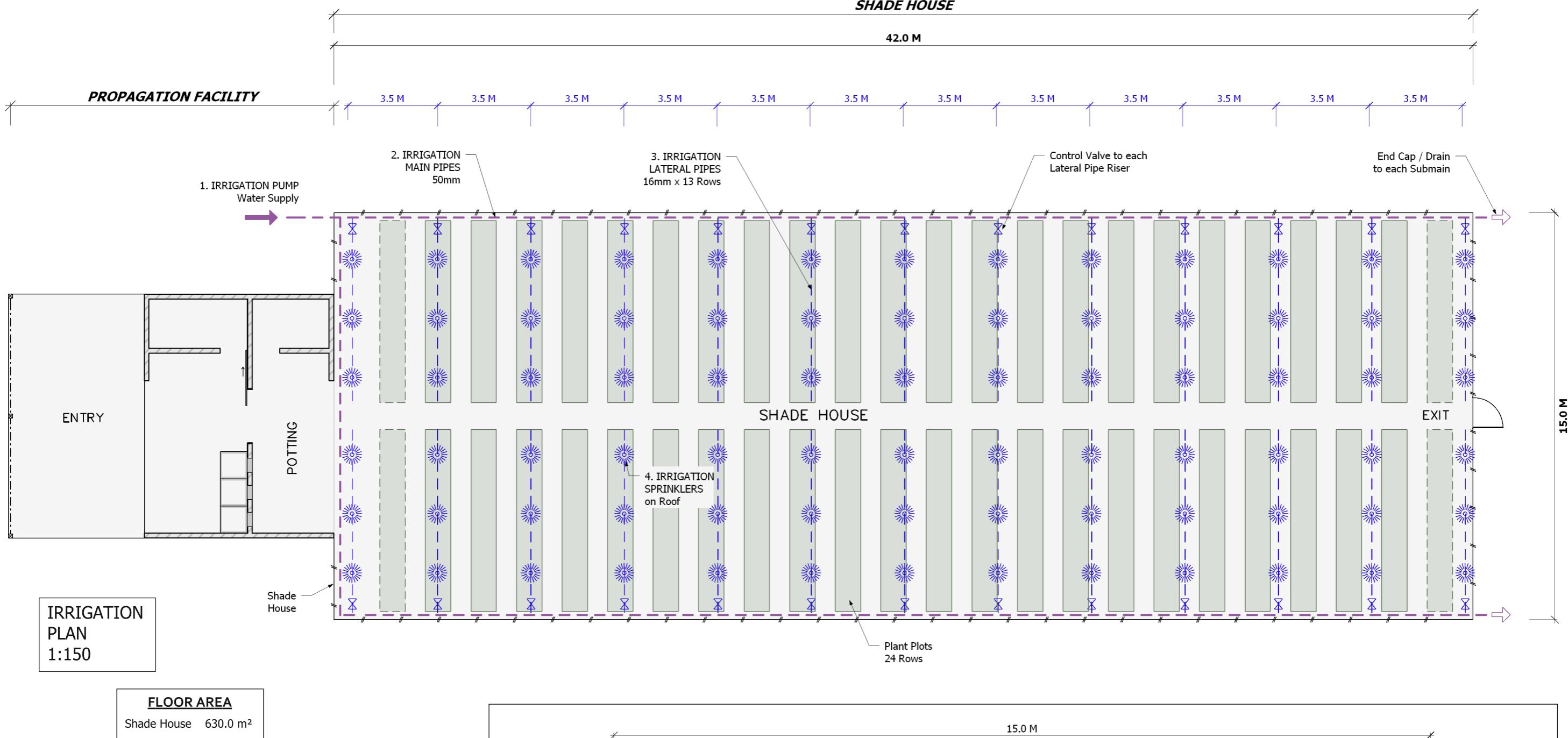
ORGANISATION	PROJECT	ORGANISATION	DRAWING TITLE	SCALE	DATE	REVISION	DRAWINGS
New Zealand Institute for Plant & Food Research <a href="http://www.plantandfood.com">www.plantandfood.com</a>	Kenya Avocado Industry Support Programme	New Zealand Ministry of Foreign Affairs and Trade <a href="http://www.mfat.govt.nz">www.mfat.govt.nz</a>	Propagation Facility Plan	1.03	1:50 (A3) OR AS SHOWN	13/03/2023	- - - <a href="mailto:Draftx Design&lt;br/&gt;design@draftx.nz">Draftx Design design@draftx.nz</a>

## 1.04 CROSS SECTIONS



ORGANISATION	PROJECT	ORGANISATION	DRAWING TITLE	SCALE	DATE	REVISION	DRAWINGS
New Zealand Institute for Plant & Food Research <a href="http://www.plantandfood.com">www.plantandfood.com</a>	Kenya Avocado Industry Support Programme	New Zealand Ministry of Foreign Affairs and Trade <a href="http://www.mfat.govt.nz">www.mfat.govt.nz</a>	Cross Sections	1.04 1:50 (A3) OR AS SHOWN	13/03/2023	- - -	Draftx Design <a href="mailto:design@draftx.nz">design@draftx.nz</a>

## 1.05 IRRIGATION PLAN



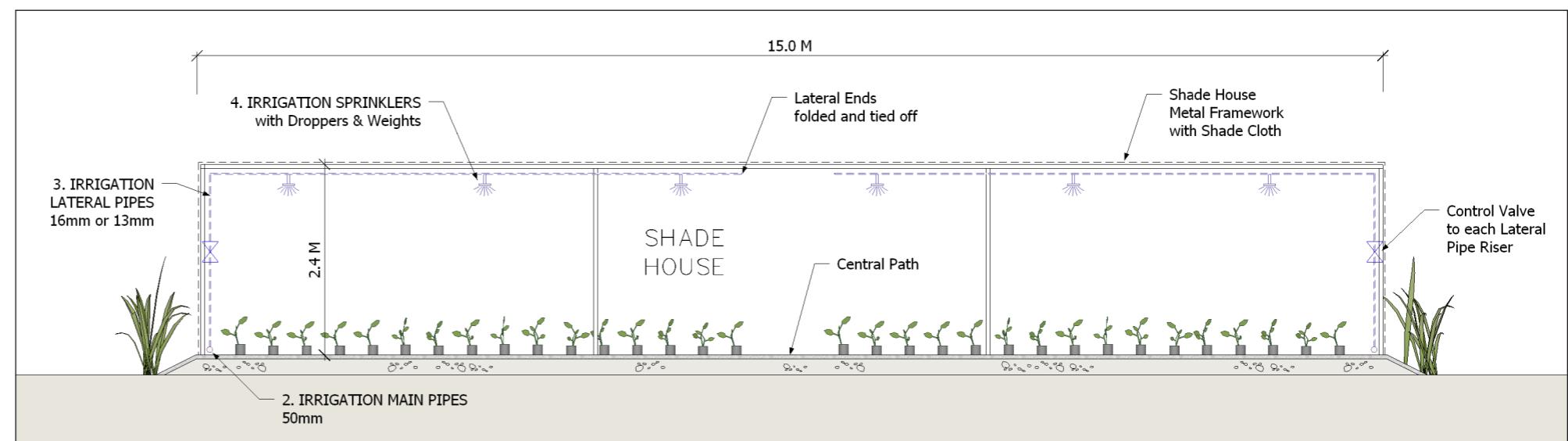
**1. IRRIGATION PUMP**  
Seek advice for appropriate pumping system to suit the application.

**2. IRRIGATION MAIN PIPES**  
Mains and submains pipes 50mm (approx 100m total).

**3. IRRIGATION LATERAL PIPES**  
Risers and overhead lateral pipes 16mm or 13mm (approx 250m total).

**4. IRRIGATION SPRINKLERS**  
Overhead sprinklers including non-drip sprinklers, droppers, weights (approx 80 total plus spares). Refer technical information brochure.

**5. IRRIGATION SUNDRY MATERIAL**  
Pipe Fittings, filters, pressure valves, control valves, drain caps to suit.



ORGANISATION	PROJECT	ORGANISATION	DRAWING TITLE	SHEET	SCALE	DATE	REVISION	DRAWINGS
New Zealand Institute for Plant & Food Research <a href="http://www.plantandfood.com">www.plantandfood.com</a>	Kenya Avocado Industry Support Programme	New Zealand Ministry of Foreign Affairs and Trade <a href="http://www.mfat.govt.nz">www.mfat.govt.nz</a>	Irrigation Plan	1.05	1:150 (A3) OR AS SHOWN	13/03/2023	- - -	Draftx Design <a href="mailto:design@draftx.nz">design@draftx.nz</a>