

21/00195/FUL

Land South Of, Astwood Lane, Feckenham,
Redditch, Worcestershire, B96 6HP

Construction of a Greener Grid Park comprising
energy storage and grid balancing equipment,
along with associated infrastructure,
landscaping and access.

Recommendation: Grant subject to conditions


Site Location Plan



Local Plan Allocation Map



Key

 Green Belt
(Policy 8 Green Belt)

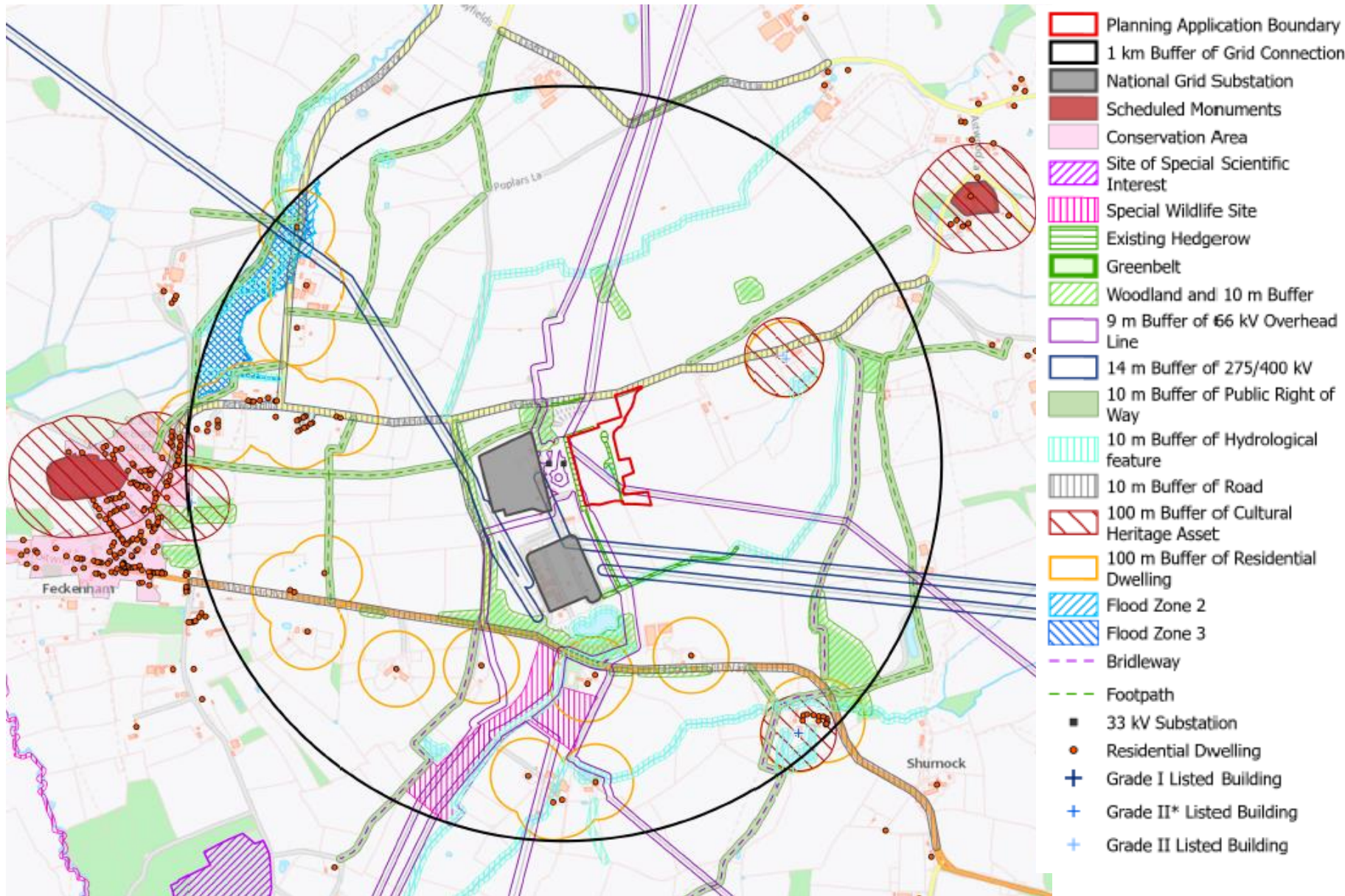
Satellite View



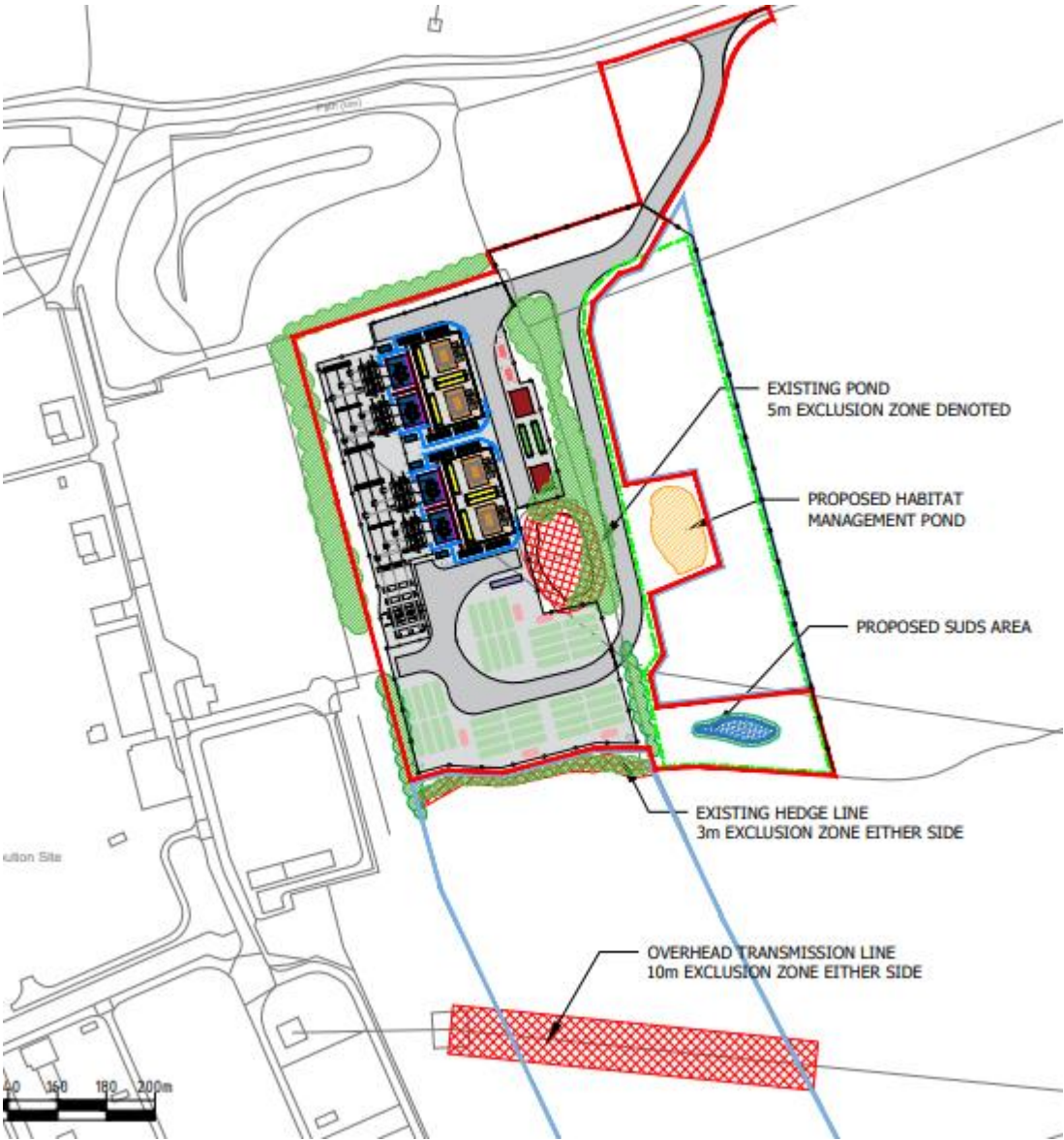
Application Site Context



Constraints Plan



Proposed Site Layout



— 3.4m HIGH PALISADE FENCE

— 1.6 m STOCK PROOF FENCE

■ BATTERY (12.9m x 2.44m x 2.59m)

■ INVERTER (6.1m x 2.44m x 2.59m)

■ TRANSFORMERS WITH 7.0M HIGH CONNECTING BUS BARS

■ LV SWITCH HOUSE (7.5m x 9.1m x 3.5m)

■ FIRE WALL (0.5m x 10.0m)

— BUILDING (20.7m x 36.7m x 10.0m TO ROOF PITCH)

■ E-HOUSE (ENCLOSED IN BUILDING 20.7m x 36.7m x 10.0m TO ROOF PITCH)

■ ENERGY MANAGEMENT SYSTEM (ENCLOSED IN BUILDING 20.7m x 36.7m x 10.0m TO ROOF PITCH)

■ COOLER (9.6m x 2.4m x 2.5m)

— PROPOSED ROADS

■ EMERGENCY BACK UP DIESEL GENERATOR (6.1m x 3.6m x 2.9m)

■ COMMS HOUSE (12.19m x 2.44m x 2.59m)

● 6m SECURITY COLUMN

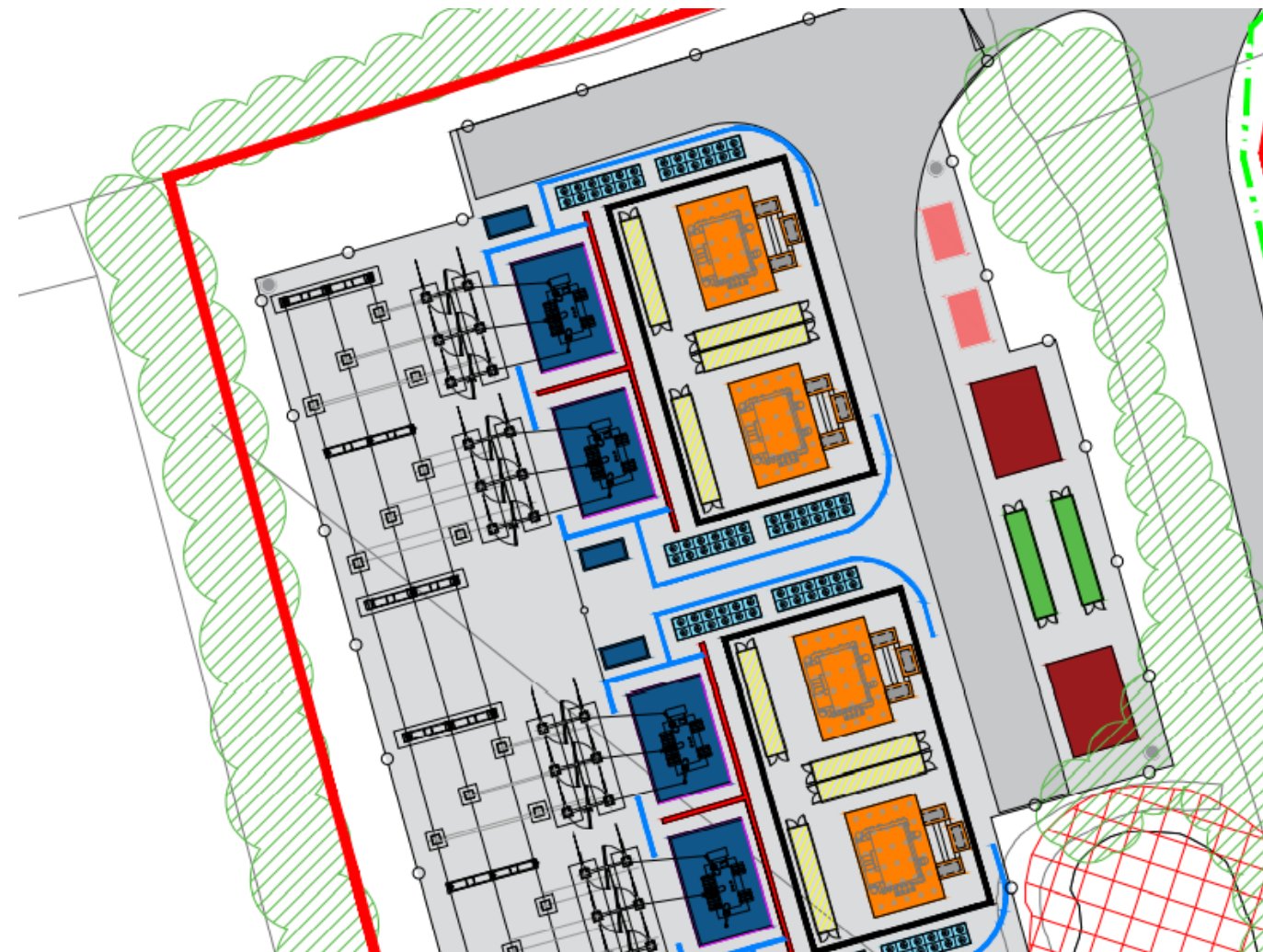
— 4m HIGH WALL

— HABITAT MANAGEMENT AREA

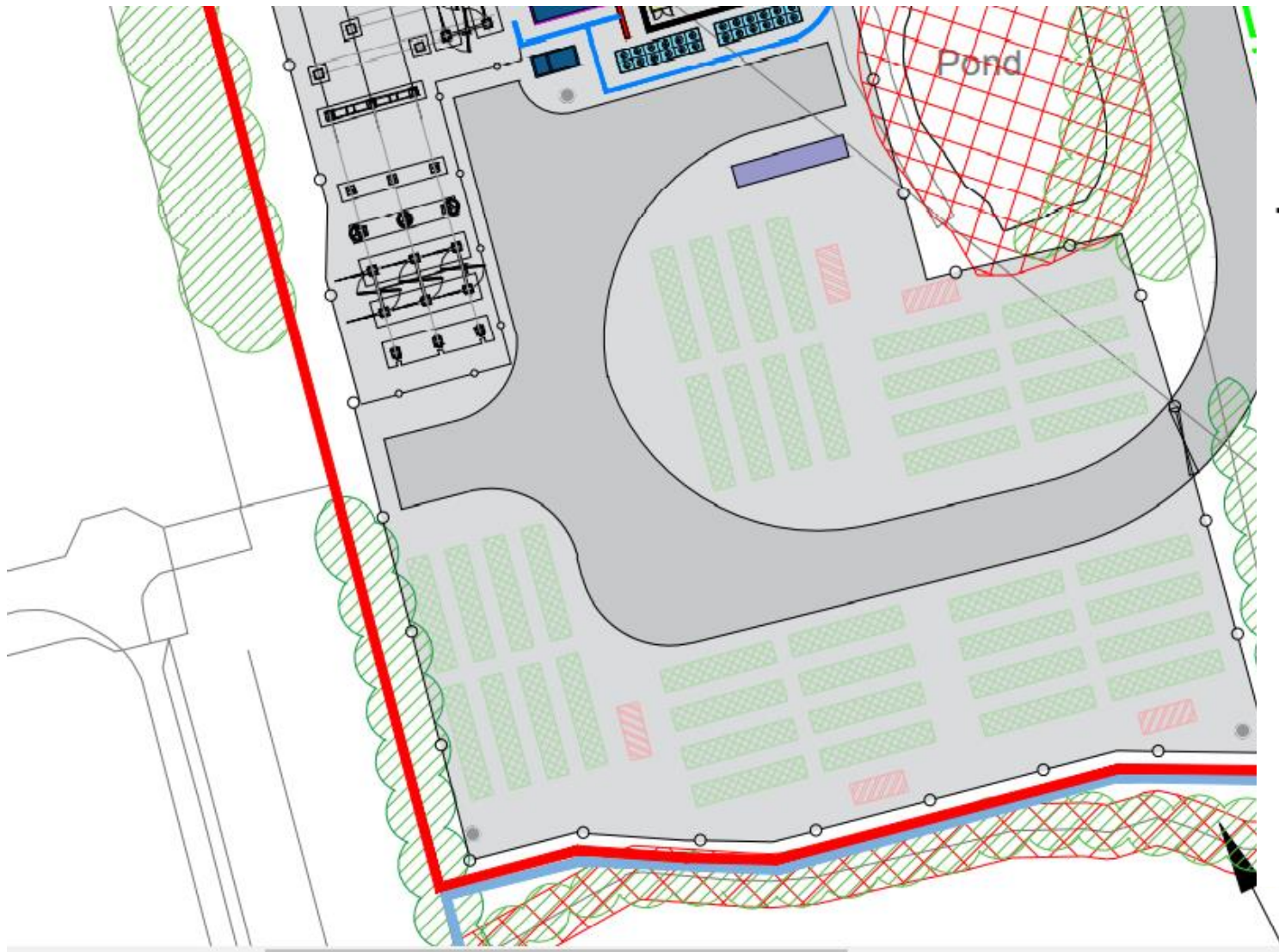
■ WELFARE FACILITIES (12.9m x 2.44m x 2.59m)

■ CRUSHED AGGREGATE

■ INDICATIVE EXISTING VEGETATION



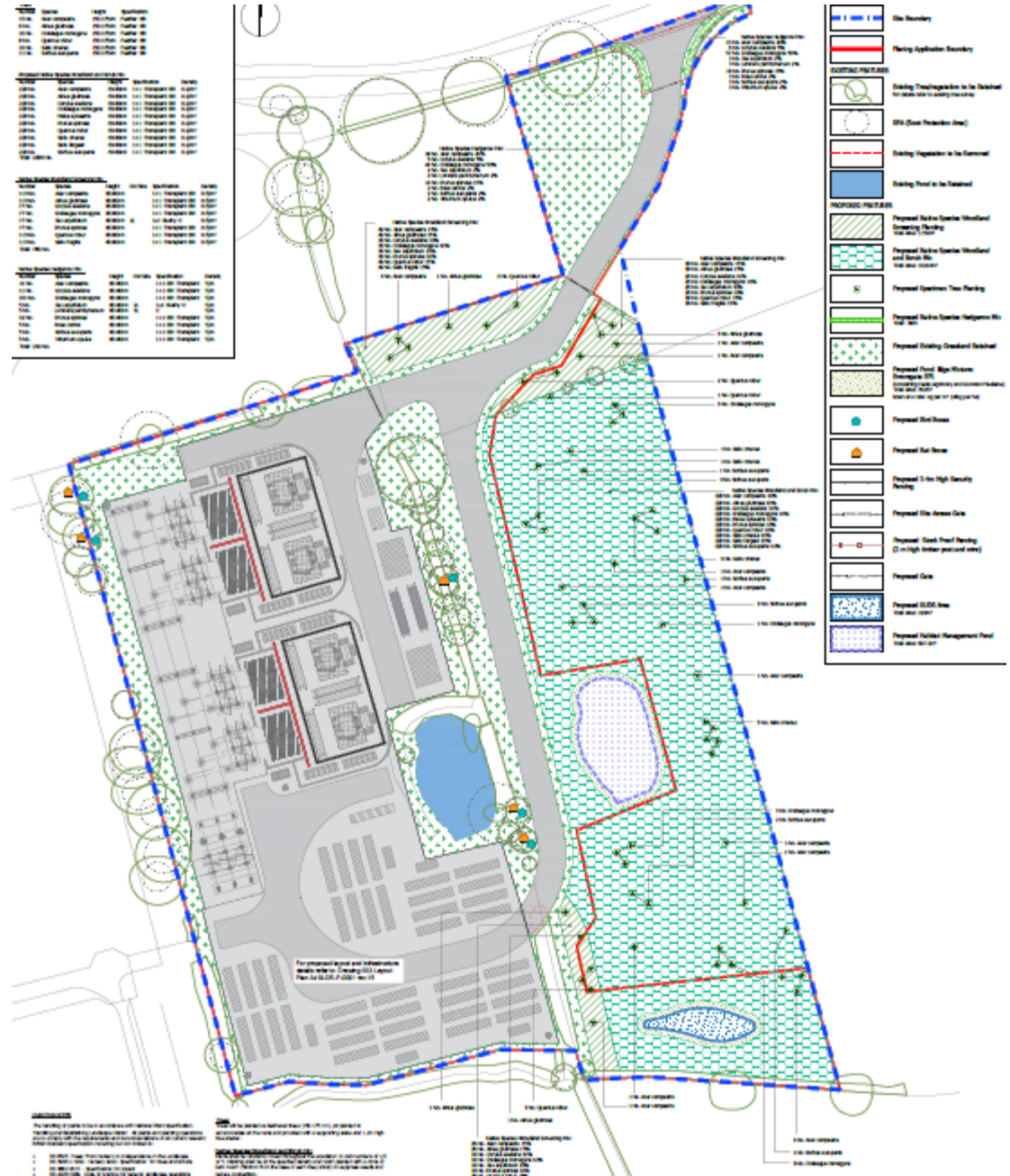
- 3.4m HIGH PALISADE FENCE
- 1.6 m STOCK PROOF FENCE
- BATTERY (12.9m x 2.44m x 2.59m)
- INVERTER (6.1m x 2.44m x 2.59m)
- TRANSFORMERS WITH 7.0M HIGH CONNECTING BUS BARS
- LV SWITCH HOUSE (7.5m x 9.1m x 3.5m)
- FIRE WALL (0.5m x 10.0m)
- BUILDING (20.7m x 36.7m x 10.0m TO ROOF PITCH)
- E-HOUSE (ENCLOSED IN BUILDING 20.7m x 36.7m x 10.0m TO ROOF PITCH)
- ENERGY MANAGEMENT SYSTEM (ENCLOSED IN BUILDING 20.7m x 36.7m x 10.0m TO ROOF PITCH)
- COOLER (9.6m x 2.4m x 2.5m)
- PROPOSED ROADS
- EMERGENCY BACK UP DIESEL GENERATOR (6.1m x 3.6m x 2.9m)
- COMMS HOUSE (12.19m x 2.44m x 2.59m)
- 6m SECURITY COLUMN
- 4m HIGH WALL
- HABITAT MANAGEMENT AREA
- WELFARE FACILITIES (12.9m x 2.44m x 2.59m)
- CRUSHED AGGREGATE
- INDICATIVE EXISTING VEGETATION



Proposed Access Junction



Landscape and Biodiversity Mitigation Plan



Salix cinerea	150-175cm	Feather	SR
Sorbus aucuparia	150-175cm	Feather	SR

Native Species Woodland and Scrub Mix

Species	Height	Plant Spec	Specification	Density
Acer campestre	60-80cm	1+1	Transplant :SR	0.2/m ²
Alnus glutinosa	60-80cm	1+1	Transplant :SR	0.2/m ²
Corylus avellana	60-80cm	1+1	Transplant :SR	0.2/m ²
Crataegus monogyna	60-80cm	1+1	Transplant :SR	0.2/m ²
Malus sylvestris	60-80cm	1+1	Transplant :SR	0.2/m ²
Prunus spinosa	60-80cm	1+1	Transplant :SR	0.2/m ²
Quercus robur	60-80cm	1+1	Transplant :SR	0.2/m ²
Salix cinerea	60-80cm	1+1	Transplant :SR	0.2/m ²
Salix fragilis	60-80cm	1+1	Transplant :SR	0.2/m ²
Sorbus aucuparia	60-80cm	1+1	Transplant :SR	0.2/m ²

282 No.

Native Species Woodland Screening Mix

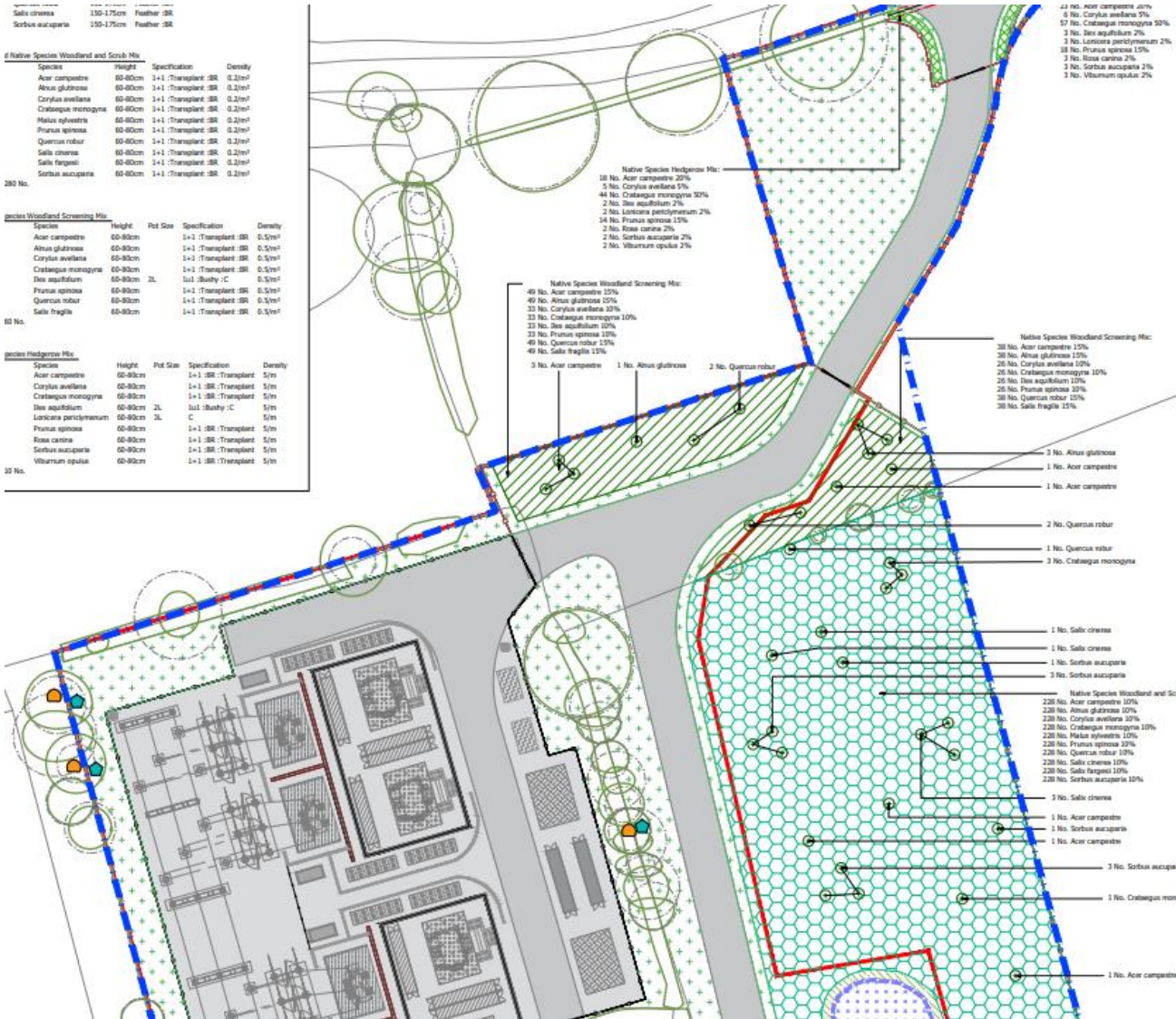
Species	Height	Plant Spec	Specification	Density
Acer campestre	60-80cm	1+1	Transplant :SR	0.5/m ²
Alnus glutinosa	60-80cm	1+1	Transplant :SR	0.5/m ²
Corylus avellana	60-80cm	1+1	Transplant :SR	0.5/m ²
Crataegus monogyna	60-80cm	1+1	Transplant :SR	0.5/m ²
Ilex aquifolium	60-80cm	2L	3x1 :Shady :C	0.5/m ²
Prunus spinosa	60-80cm	1+1	Transplant :SR	0.5/m ²
Quercus robur	60-80cm	1+1	Transplant :SR	0.5/m ²
Salix fragilis	60-80cm	1+1	Transplant :SR	0.5/m ²

60 No.

Native Hedgerow Mix

Species	Height	Plant Spec	Specification	Density
Acer campestre	60-80cm	1+1	SR :Transplant	5/m
Corylus avellana	60-80cm	1+1	SR :Transplant	5/m
Crataegus monogyna	60-80cm	1+1	SR :Transplant	5/m
Ilex aquifolium	60-80cm	2L	3x1 :Shady :C	5/m
Lonicera periclymenum	60-80cm	2L	C	5/m
Prunus spinosa	60-80cm	1+1	SR :Transplant	5/m
Rosa canina	60-80cm	1+1	SR :Transplant	5/m
Sorbus aucuparia	60-80cm	1+1	SR :Transplant	5/m
Viburnum opulus	60-80cm	1+1	SR :Transplant	5/m

30 No.



Native Species Hedgerow Mix:

- 18 No. Acer campestre 20%
- 5 No. Corylus avellana 5%
- 44 No. Crataegus monogyna 50%
- 2 No. Ilex aquifolium 2%
- 2 No. Lonicera periclymenum 2%
- 14 No. Prunus spinosa 15%
- 2 No. Rosa canina 2%
- 2 No. Sorbus aucuparia 2%
- 2 No. Viburnum opulus 2%

Native Species Woodland Screening Mix:

- 49 No. Acer campestre 15%
- 49 No. Alnus glutinosa 15%
- 33 No. Corylus avellana 30%
- 33 No. Crataegus monogyna 10%
- 33 No. Ilex aquifolium 30%
- 33 No. Prunus spinosa 15%
- 49 No. Quercus robur 15%
- 49 No. Salix fragilis 15%

Native Species Woodland Screening Mix:

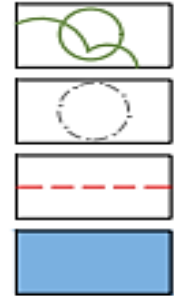
- 38 No. Acer campestre 15%
- 38 No. Alnus glutinosa 15%
- 26 No. Corylus avellana 10%
- 26 No. Crataegus monogyna 10%
- 26 No. Ilex aquifolium 10%
- 26 No. Prunus spinosa 10%
- 38 No. Quercus robur 15%
- 38 No. Salix fragilis 15%

- 3 No. Alnus glutinosa
- 1 No. Acer campestre
- 1 No. Acer campestre
- 2 No. Quercus robur
- 1 No. Quercus robur
- 3 No. Crataegus monogyna

- 1 No. Salix cinerea
- 1 No. Salix cinerea
- 1 No. Sorbus aucuparia
- 3 No. Sorbus aucuparia

- 3 No. Salix cinerea
- 1 No. Acer campestre
- 1 No. Sorbus aucuparia
- 1 No. Acer campestre
- 3 No. Sorbus aucuparia
- 1 No. Crataegus mont
- 1 No. Acer campestre

EXISTING FEATURES

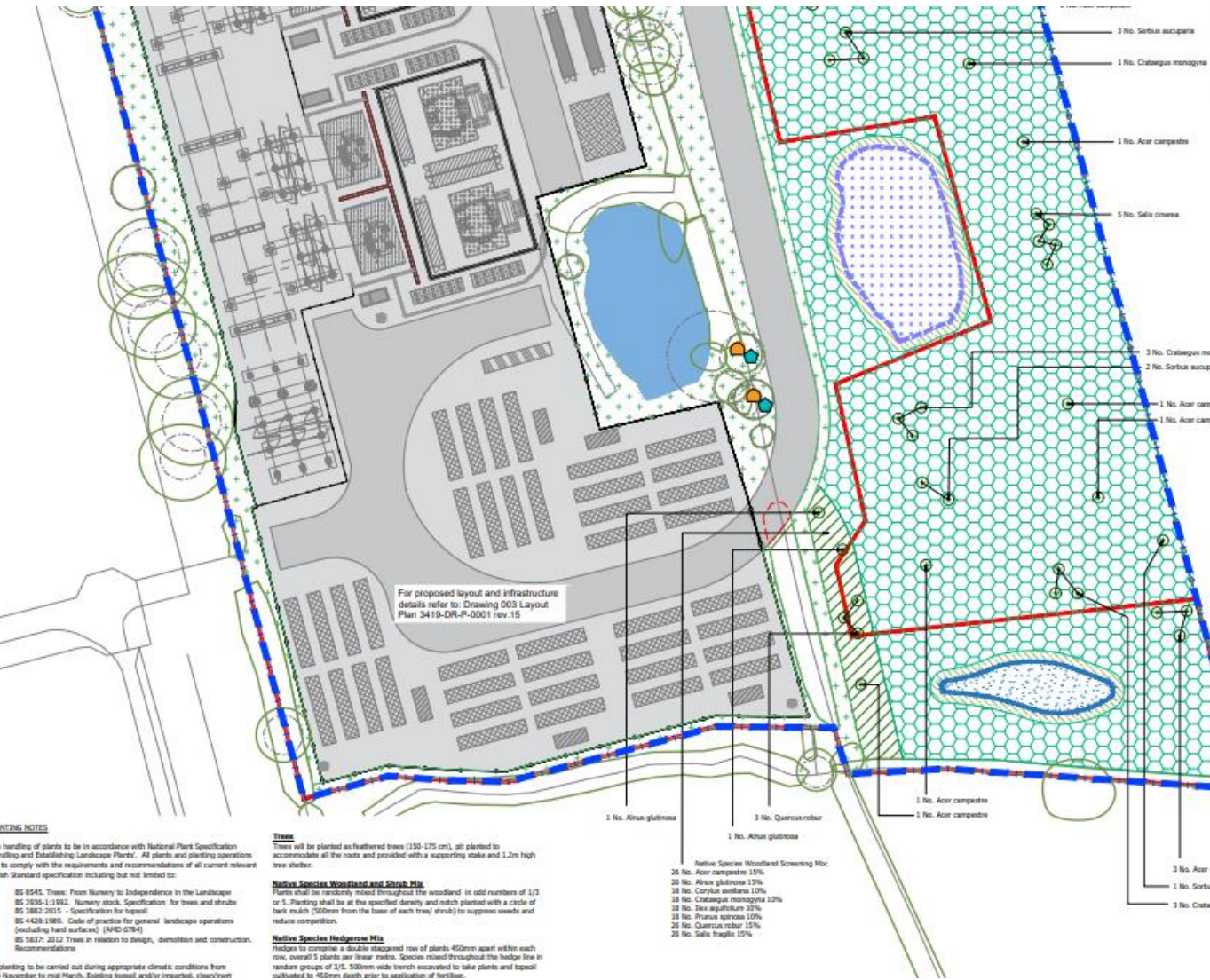


- Existing Tree/vegetation to be Retained**
For details refer to existing tree survey
- RPA (Root Protection Area)**
- Existing Vegetation to be Removed**
- Existing Pond to be Retained**



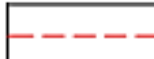

PROPOSED FEATURES






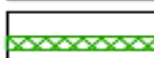
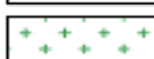

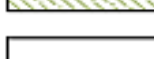





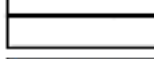

- Proposed Native Species Woodland Screening Planting**
Total Area: 1152m²
- Proposed Native Species Woodland and Scrub Mix**
Total Area: 1024m²
- Proposed Specimen Tree Planting**
- Proposed Native Species Hedgerow Mix**
Total: 39m
- Proposed Existing Grassland Retained**
- Proposed Pond Edge Mixture: Emorsgate EP1**
(Containing Hemp Agrimony and Common Fleabane)
Total Area: 352m²
Sown at a rate: 4g per m² (40kg per ha)
- Proposed Bird Boxes**
- Proposed Bat Boxes**
- Proposed 3.4m High Security Fencing**
- Proposed Site Access Gate**
- Proposed Stock Proof Fencing (2 m high timber post and wire)**
- Proposed Gate**
- Proposed SUDS Area**
Total Area: 190m²
- Proposed Habitat Management Pond**
Total Area: 607.2m²



EXISTING FEATURES

-  Existing Tree/vegetation to be Retained
For details refer to existing tree survey
-  RPA (Root Protection Area)
-  Existing Vegetation to be Removed
-  Existing Pond to be Retained

PROPOSED FEATURES

-  Proposed Native Species Woodland Screening Planting
Total Area: 1153m²
-  Proposed Native Species Woodland and Scrub Mix
Total Area: 1024m²
-  Proposed Specimen Tree Planting
-  Proposed Native Species Hedgerow Mix
Total: 39m
-  Proposed Existing Grassland Retained
-  Proposed Pond Edge Mixture: Emorsgate EP1 (Containing Hemp Agrimony and Common Fleabane)
Total Area: 352m²
Sown at a rate: 4g per m² (40kg per ha)
-  Proposed Bird Boxes
-  Proposed Bat Boxes
-  Proposed 3.4m High Security Fencing
-  Proposed Site Access Gate
-  Proposed Stock Proof Fencing (2 m high timber post and wire)
-  Proposed Gate
-  Proposed SUDS Area
Total Area: 190m²
-  Proposed Habitat Management Pond
Total Area: 607.2m²

PLANTING NOTES

Handling of plants to be in accordance with National Plant Specification and Establishing Landscape Plants. All plants and planting operations to comply with the requirements and recommendations of all current relevant standard specification including but not limited to:

- BS 6545: Trees: From Nursery to Independence in the Landscape
- BS 2835-1:2002: Nursery stock: Specification for trees and shrubs
- BS 2882:2015 - Specification for special
- BS 4428:1985: Code of practice for general landscape operations (excluding hard surfaces) (APD:07/14)
- BS 5537: 2012: Trees in relation to design, demolition and construction. Recommendations

Planting to be carried out during appropriate climatic conditions from November to mid-March. Examine basal and/or inserted, clean/vent

Trees
Trees will be planted as feathered trees (150-175 cm), girt planted to accommodate all the roots and provided with a supporting stake and 1.2m high tree shelter.

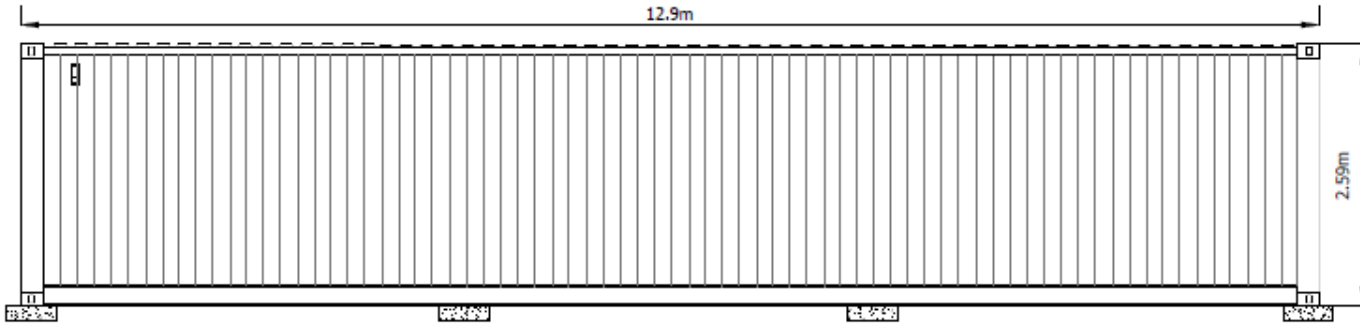
Native Species Woodland and Scrub Mix
Plants shall be randomly mixed throughout the woodland in odd numbers of 1/3 or 5. Planting shall be at the specified density and notch planted with a circle of bark each 200mm from the base of each tree (shrub) to suppress weeds and reduce competition.

Native Species Hedgerow Mix
Hedges to comprise a double staggered row of plants 450mm apart within each row, overall 3 plants per linear metre. Species mixed throughout the hedge line in random groups of 2/5. 500mm wide trench excavated to take plants and spool cultivated to 450mm depth prior to application of fertilizer.

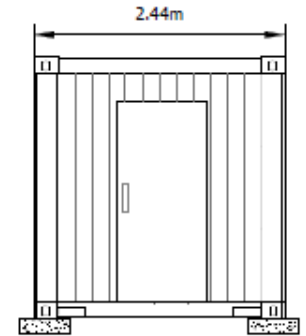
- 1 No. Alnus glutinosa
- 2 No. Quercus robur
- 1 No. Alnus glutinosa
- 26 No. Acer campestre 15%
- 26 No. Alnus glutinosa 15%
- 38 No. Corylus avellana 10%
- 38 No. Cotoneaster monogyna 10%
- 38 No. Ilex aquifolium 10%
- 38 No. Prunus spinosa 10%
- 26 No. Quercus robur 15%
- 26 No. Salix fragilis 15%

- 3 No. Sorbus aucuparia
- 1 No. Cotoneaster monogyna
- 1 No. Acer campestre
- 5 No. Salix cinerea
- 3 No. Cotoneaster mon
- 2 No. Sorbus aucup
- 1 No. Acer cam
- 1 No. Acer cam
- 3 No. Acer o
- 1 No. Sorbus
- 3 No. Cotone

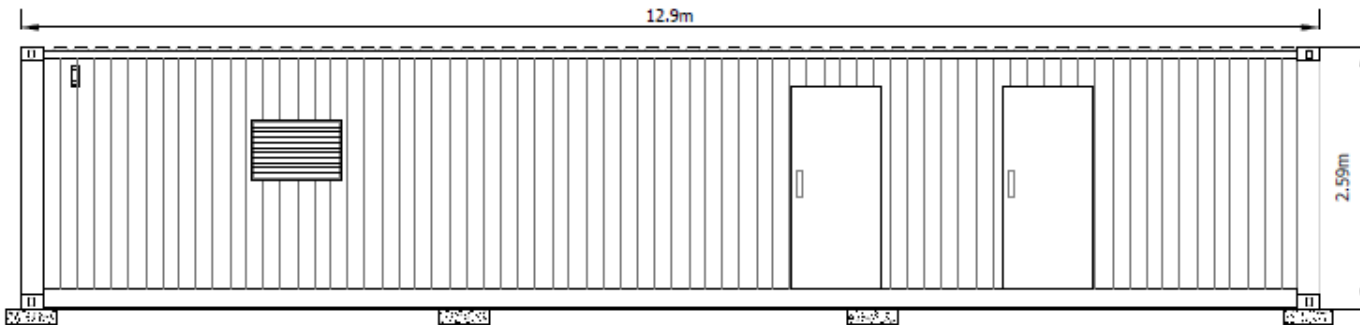
Battery Container



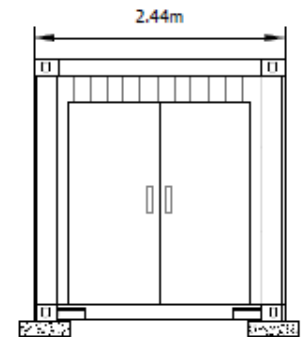
FRONT ELEVATION



END ELEVATION

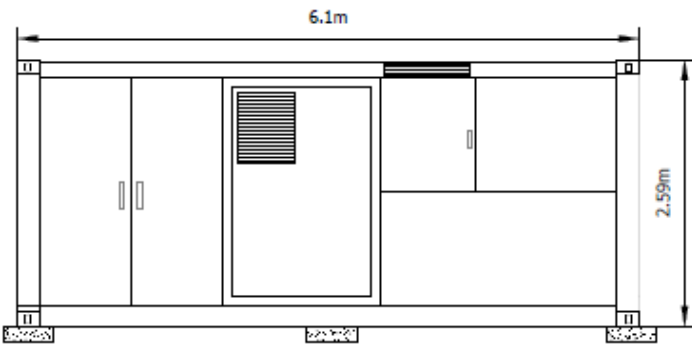


REAR ELEVATION

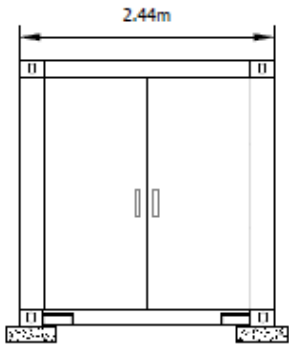


END ELEVATION

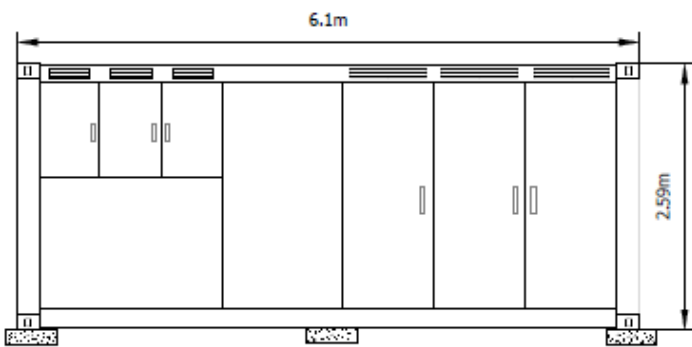
Inverter Units



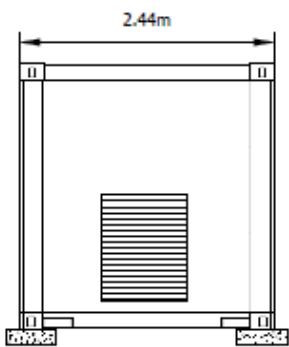
FRONT ELEVATION



END ELEVATION

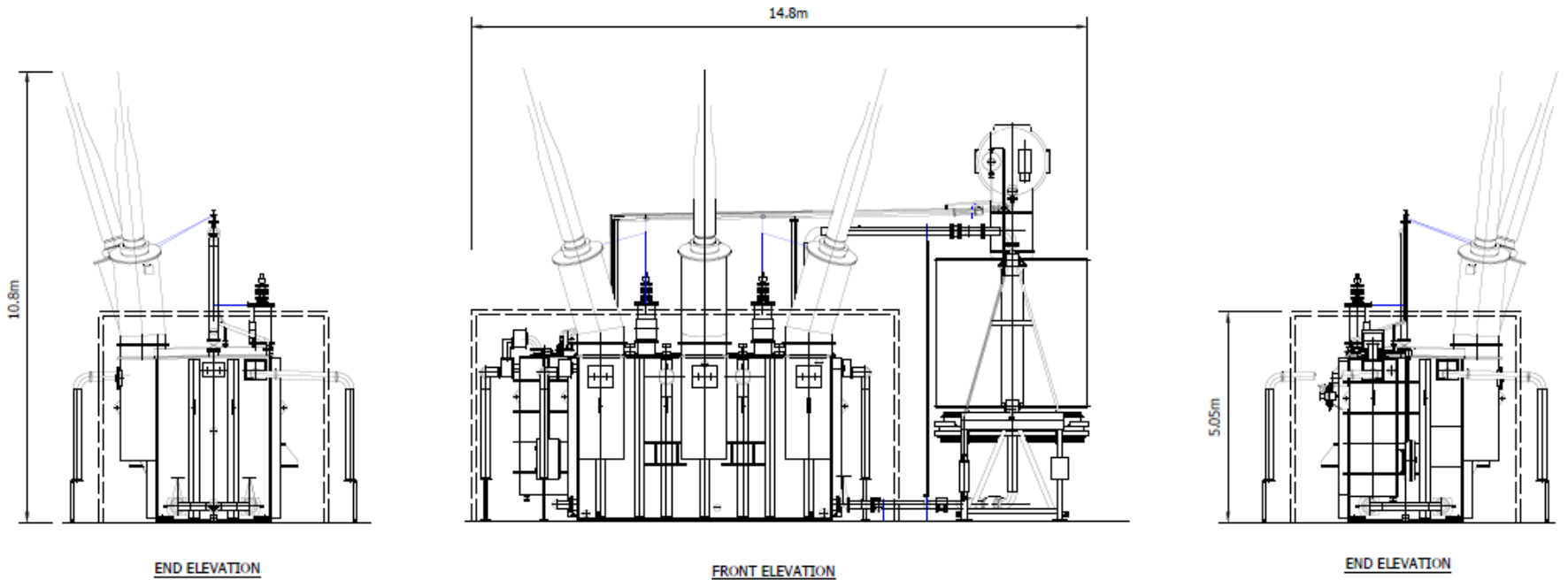


REAR ELEVATION



END ELEVATION

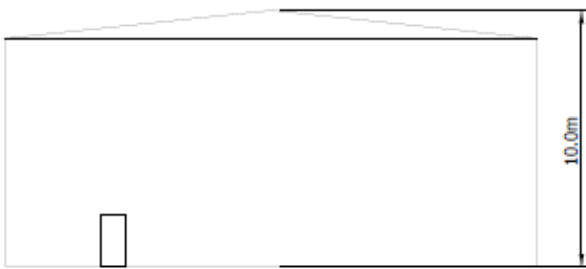
Transformers



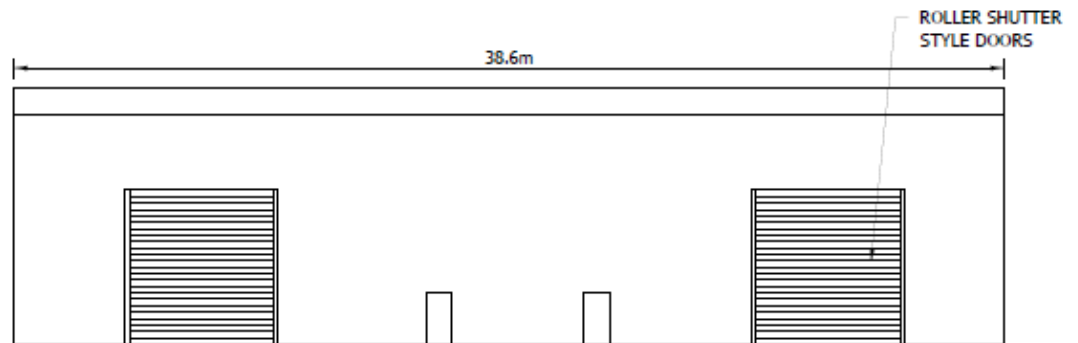
Energy Management Building



PLAN



END ELEVATION

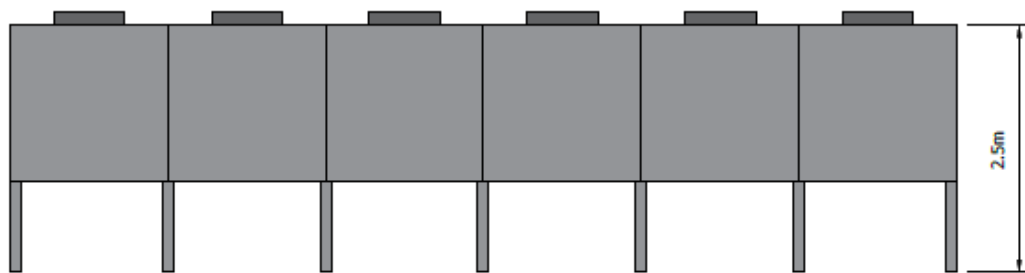


ELEVATION

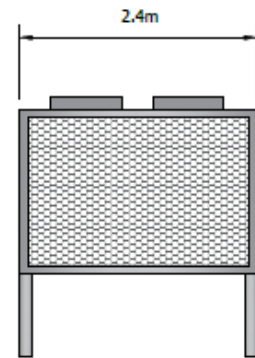
Coolers



PLAN

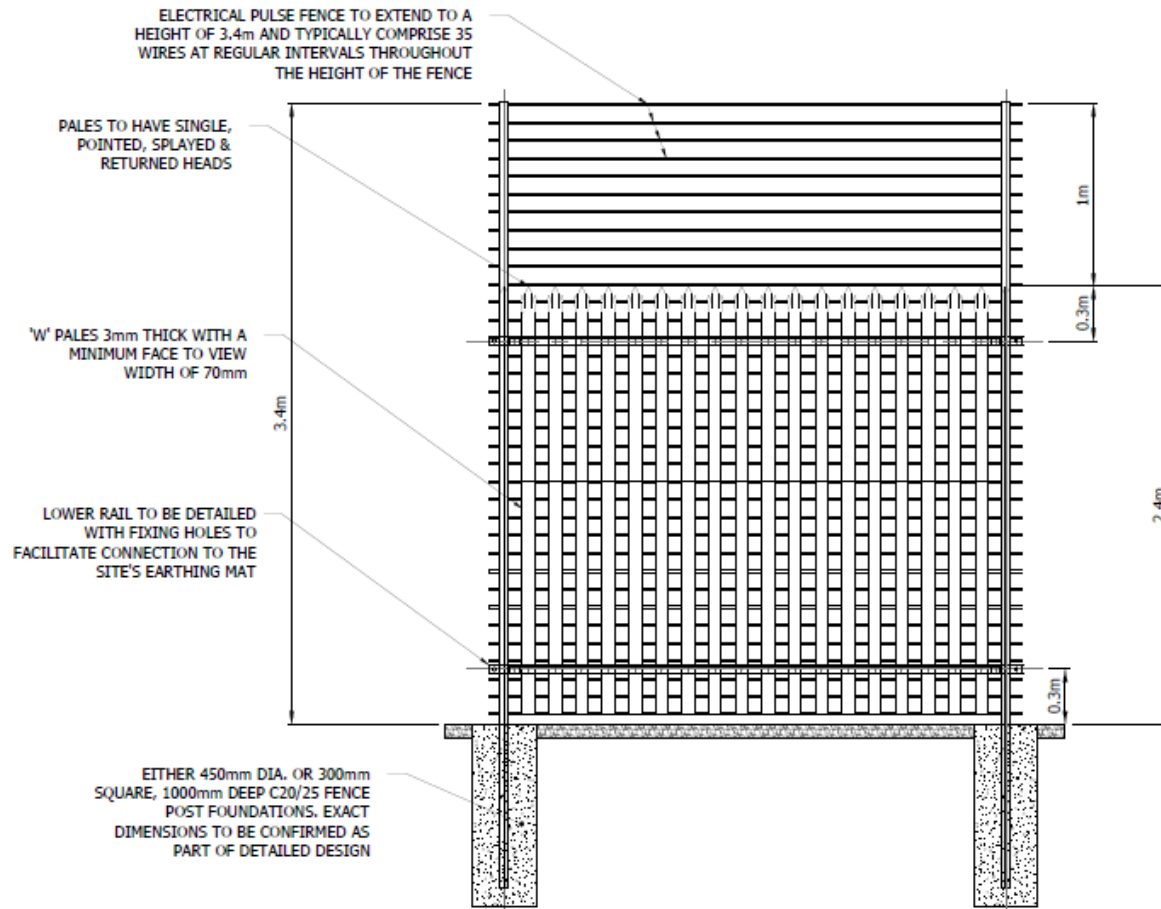


ELEVATION

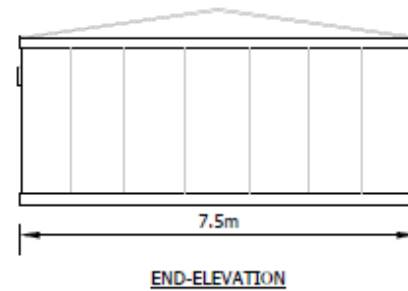
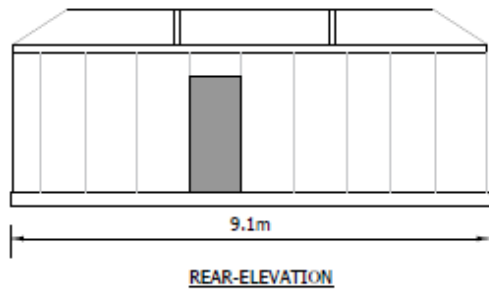
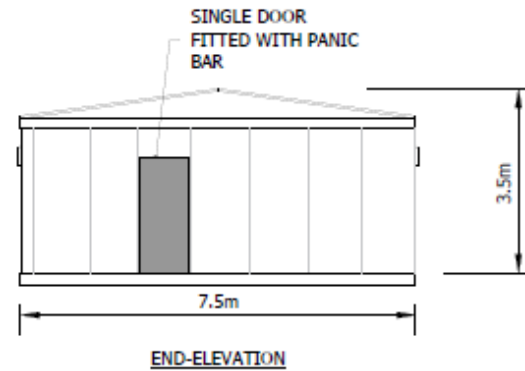
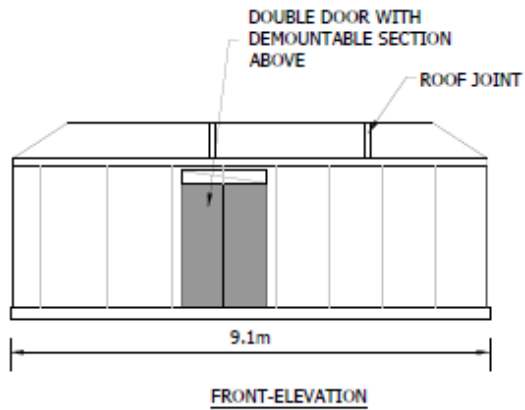


END ELEVATION

Fencing



Switch Houses



Viewpoint 1: Bridleway RD-786, Looking West



Viewpoint 2: Bridleway RD-786, Looking Northwest



Photomontage Showing Proposed Development - No mitigation



Photomontage Showing Proposed Development - Mitigation Year 15

Viewpoint 3: Bridleway RD-787, near Shurnock Court, Looking North-West



Viewpoint 4: Astwood Lane and permissive footpath, Looking South

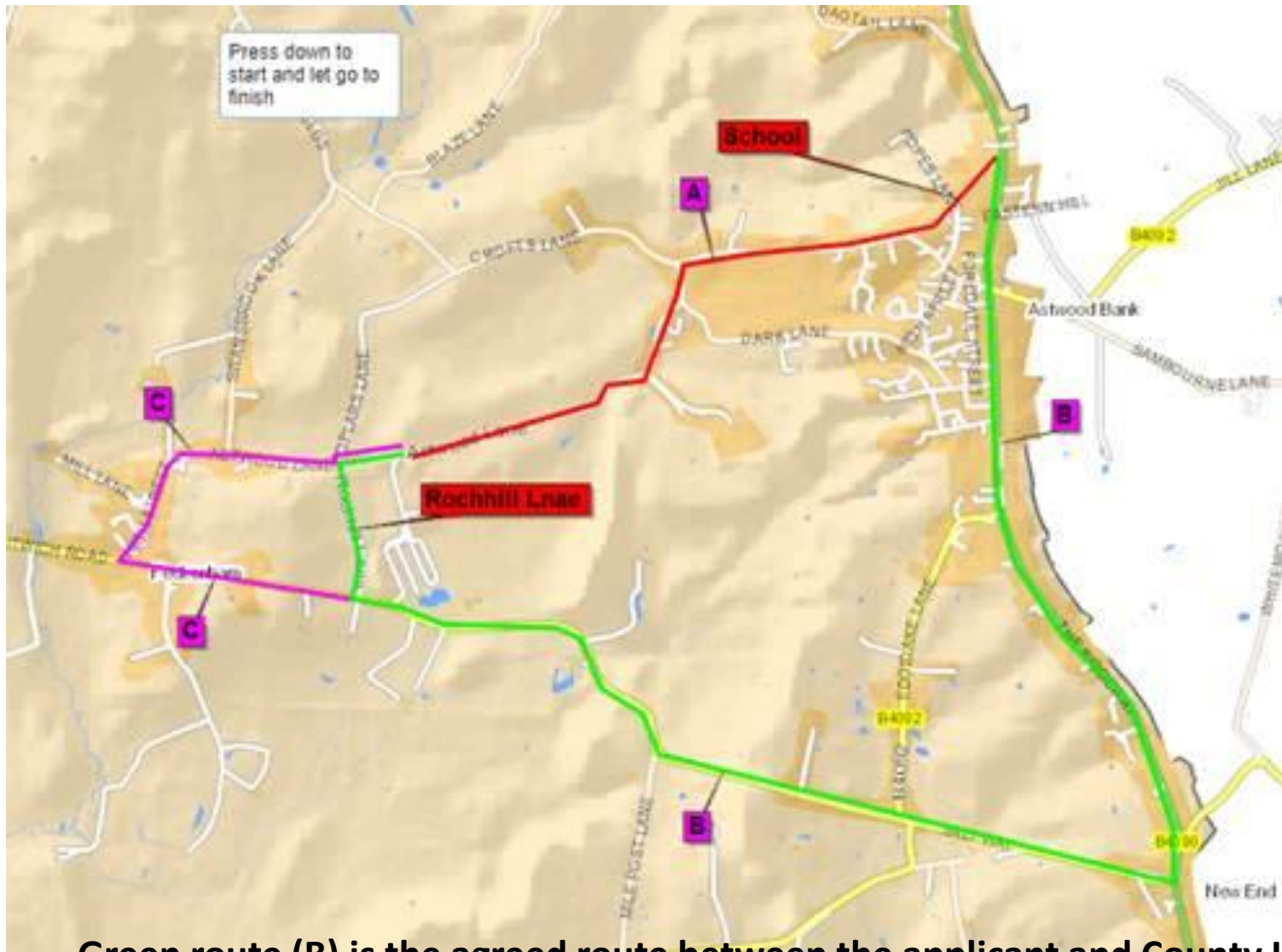


Photomontage Showing Proposed Development - No mitigation



Photomontage Showing Proposed Development - Mitigation Year 15

Proposed HGV Routing Plan



Green route (B) is the agreed route between the applicant and County Highways Plan produced by County Highways