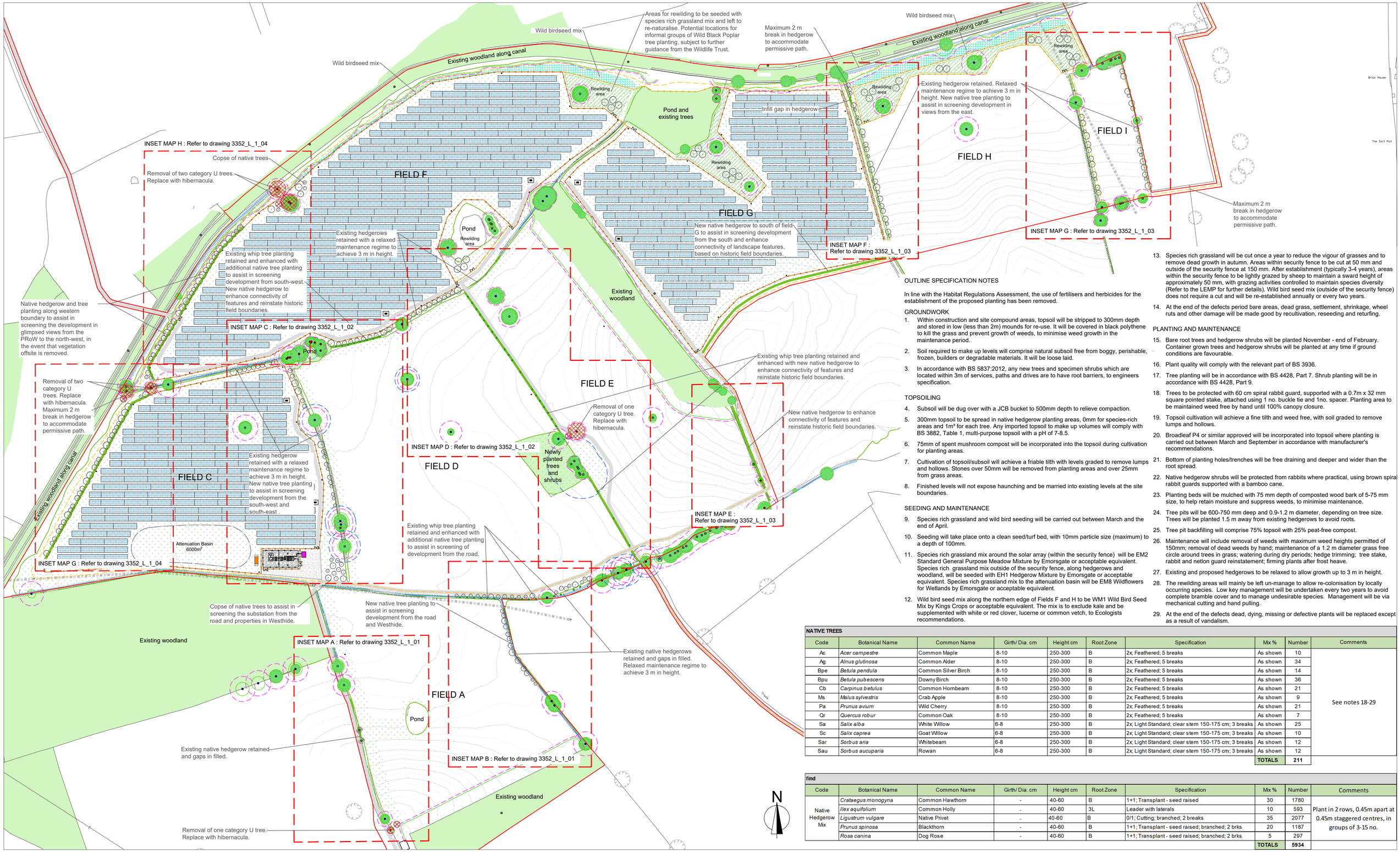




Environmental Planning EIA Landscape Architecture Ecology

GENERAL NOTES:

1. ALL DIMENSIONS AND LEVELS SHALL BE CHECKED ON SITE PRIOR TO CONSTRUCTION WORK COMMENCING.
2. ALL LANDSCAPE DRAWINGS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEER'S AND ARCHITECT'S DRAWINGS AND SPECIFICATIONS.
3. ALL DRAWINGS TO BE READ IN CONJUNCTION WITH THE LANDSCAPE SPECIFICATION.
4. ANY DISCREPANCY CONCERNING THE DRAWINGS SHOULD BE REFERRED TO THE CA IMMEDIATELY.
5. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
6. ALL LEVELS IN METRES.
7. DO NOT SCALE OFF THIS DRAWING.
8. EXISTING SERVICE ALIGNMENTS SHALL BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION WORK COMMENCING.

KEY:

- Site boundary
- Permissive footpath
- Existing overhead utility/electricity lines
- Proposed solar panels 2.5m high *refer to drawing 3352_P_DT_3_01*
- Proposed solar panels 3m high *refer to drawing 3352_P_DT_3_01*
- Proposed DNO switch housing
- Proposed customer substation
- Proposed inverter transformer unit

Softworks

- Existing woodland
- Existing tree (surveyed) *refer to arboricultural survey by Hillside Trees*
- Existing tree (not surveyed) *for context*
- Existing tree to be removed - Catagory U *refer to arboricultural survey by Hillside Trees*
- Buffer zone for ancient and veteran trees
- Existing whip tree planting *Based on topographical survey and field survey*
- Existing hedgerow *Based on topographical survey*
- Proposed species-rich hedgerow planting *refer to plant schedule*
- Proposed tree planting - shown at approximate 25 year canopy spread. *refer to plant schedule*
- Proposed species-rich grassland *refer to note 11*
- Proposed wild bird seed mix grassland (0.5 ha total) *refer to note 12*
- Hibernacula

Hardworks

- Proposed access track *refer to drawing 3352_P_DT_3_04*
- Proposed 3 m high CCTV camera *refer to drawing 3352_P_DT_3_03*
- Proposed 2.5 m high post and wire security fencing *refer to drawing 3352_P_DT_3_02*
- 1.2 m high timber post and rail fencing *(to rewilding areas)*
- Proposed steel palisade security fencing - 2.4 m high *(around DNO customer substation)* Finish: Powder coated, matt finish, Colour: Green RAL 6005 Moss Green
- Proposed substation hardstanding *to engineers specification*

DRAWING NOTES:

To be read in conjunction with:

3352_L_GA_0_01 Masterplan
3352_L_GA_1_01 Landscape Mitigation and Enhancement Plan Inset 1 of 3
3352_L_GA_1_02 Landscape Mitigation and Enhancement Plan Inset 2 of 3
3352_L_GA_1_03 Landscape Mitigation and Enhancement Plan Inset 3 of 3
3352_L_GA_1_04 Landscape Mitigation and Enhancement Plan Inset 4 of 4
3352_P_DT_3_01 PV Mounting System Detail
3352_P_DT_3_02 Fence and Gate Detail
3352_P_DT_3_03 CCTV Detail
3352_P_DT_3_04 Access Tracks Detail
3352_P_DT_3_05 Transformer Substation Detail
3352_P_DT_3_06 Inverter Detail
3352_P_DT_3_07 Spares Container Detail
3352_LEMP Landscape and Ecological Management Plan

OUTLINE SPECIFICATION NOTES

In line with the Habitat Regulations Assessment, the use of fertilisers and herbicides for the establishment of the proposed planting has been removed.

GROUNDWORK

1. Within construction and site compound areas, topsoil will be stripped to 300mm depth and stored in low (less than 2m) mounds for re-use. It will be covered in black polythene to kill the grass and prevent growth of weeds, to minimise weed growth in the maintenance period.
2. Soil required to make up levels will comprise natural subsoil free from boggy, perishable, frozen, builders or degradable materials. It will be loose laid.
3. In accordance with BS 5837:2012, any new trees and specimen shrubs which are located within 3m of services, paths and drives are to have root barriers, to engineers specification.

TOPSOILING

4. Subsoil will be dug over with a JCB bucket to 500mm depth to relieve compaction.
5. 300mm topsoil to be spread in native hedgerow planting areas, 0mm for species-rich areas and 1m² for each tree. Any imported topsoil to make up volumes will comply with BS 3882, Table 1, multi-purpose topsoil with a pH of 7-8.5.
6. 75mm of spent mushroom compost will be incorporated into the topsoil during cultivation for planting areas.
7. Cultivation of topsoil/subsoil will achieve a friable tilth with levels graded to remove lumps and hollows. Stones over 50mm will be removed from planting areas and over 25mm from grass areas.
8. Finished levels will not expose haunching and be married into existing levels at the site boundaries.

SEEDING AND MAINTENANCE

9. Species rich grassland and wild bird seeding will be carried out between March and the end of April.
10. Seeding will take place onto a clean seed/turf bed, with 10mm particle size (maximum) to a depth of 100mm.
11. Species rich grassland mix around the solar array (within the security fence) will be EM2 Standard General Purpose Meadow Mixture by Emorsgate or acceptable equivalent. Species rich grassland mix outside of the security fence, along hedgerows and woodland, will be seeded with EH1 Hedgerow Mixture by Emorsgate or acceptable equivalent. Species rich grassland mix to the attenuation basin will be EM8 Wildflowers for Wetlands by Emorsgate or acceptable equivalent.
12. Wild bird seed mix along the northern edge of Fields F and H to be WM1 Wild Bird Seed Mix by Kings Crops or acceptable equivalent. The mix is to exclude kale and be supplemented with white or red clover, lucerne or common vetch, to Ecologists recommendations.
13. Species rich grassland will be cut once a year to reduce the vigour of grasses and to remove dead growth in autumn. Areas within security fence to be cut at 50 mm and outside of the security fence at 150 mm. After establishment (typically 3-4 years), areas within the security fence to be lightly grazed by sheep to maintain a sward height of approximately 50 mm, with grazing activities controlled to maintain species diversity (Refer to the LEMP for further details). Wild bird seed mix (outside of the security fence) does not require a cut and will be re-established annually or every two years.
14. At the end of the defects period bare areas, dead grass, settlement, shrinkage, wheel ruts and other damage will be made good by recultivation, reseeding and returfing.

PLANTING AND MAINTENANCE

15. Bare root trees and hedgerow shrubs will be planted November - end of February. Container grown trees and hedgerow shrubs will be planted at any time if ground conditions are favourable.
16. Plant quality will comply with the relevant part of BS 3936.
17. Tree planting will be in accordance with BS 4428, Part 7. Shrub planting will be in accordance with BS 4428, Part 9.
18. Trees to be protected with 60 cm spiral rabbit guard, supported with a 0.7m x 32 mm square pointed stake, attached using 1 no. buckle tie and 1no. spacer. Planting area to be maintained weed free by hand until 100% canopy closure.
19. Topsoil cultivation will achieve a fine tilth and weed free, with soil graded to remove lumps and hollows.
20. Broadleaf P4 or similar approved will be incorporated into topsoil where planting is carried out between March and September in accordance with manufacturer's recommendations.
21. Bottom of planting holes/trenches will be free draining and deeper and wider than the root spread.
22. Native hedgerow shrubs will be protected from rabbits where practical, using brown spiral rabbit guards supported with a bamboo cane.
23. Planting beds will be mulched with 75 mm depth of composted wood bark of 5-75 mm size, to help retain moisture and suppress weeds, to minimise maintenance.
24. Tree pits will be 600-750 mm deep and 0.9-1.2 m diameter, depending on tree size. Trees will be planted 1.5 m away from existing hedgerows to avoid roots.
25. Tree pit backfilling will comprise 75% topsoil with 25% peat-free compost.
26. Maintenance will include removal of weeds with maximum weed heights permitted of 150mm; removal of dead weeds by hand; maintenance of a 1.2 m diameter grass free circle around trees in grass; watering during dry periods; hedge trimming; tree stake, rabbit and netlon guard reinstatement; firming plants after frost heave.
27. Existing and proposed hedgerows to be relaxed to allow growth up to 3 m in height.
28. The rewilding areas will mainly be left un-manage to allow re-colonisation by locally occurring species. Low key management will be undertaken every two years to avoid complete bramble cover and to manage undesirable species. Management will be via mechanical cutting and hand pulling.
29. At the end of the defects dead, dying, missing or defective plants will be replaced except as a result of vandalism.

**NATIVE TREES**

| Code | Botanical Name | Common Name | Girth/ Dia. cm | Height cm | Root Zone | Specification | Mix % | Number | Comments |
|---|---|---|---|---|---|---|---|---|---|
| Ac | *Acer campestre* | Common Maple | 8-10 | 250-300 | B | 2x; Feathered; 5 breaks | As shown | 10 | See notes 18-29 |
| Ag | *Alnus glutinosa* | Common Alder | 8-10 | 250-300 | B | 2x; Feathered; 5 breaks | As shown | 34 | |
| Bpe | *Betula pendula* | Common Silver Birch | 8-10 | 250-300 | B | 2x; Feathered; 5 breaks | As shown | 14 | |
| Bpu | *Betula pubescens* | Downy Birch | 8-10 | 250-300 | B | 2x; Feathered; 5 breaks | As shown | 36 | |
| Cb | *Carpinus betulus* | Common Hornbeam | 8-10 | 250-300 | B | 2x; Feathered; 5 breaks | As shown | 21 | |
| Ms | *Malus sylvestris* | Crab Apple | 8-10 | 250-300 | B | 2x; Feathered; 5 breaks | As shown | 9 | |
| Pa | *Prunus avium* | Wild Cherry | 8-10 | 250-300 | B | 2x; Feathered; 5 breaks | As shown | 21 | |
| Qr | *Quercus robur* | Common Oak | 8-10 | 250-300 | B | 2x; Feathered; 5 breaks | As shown | 7 | |
| Sa | *Salix alba* | White Willow | 6-8 | 250-300 | B | 2x; Light Standard; clear stem 150-175 cm; 3 breaks | As shown | 25 | |
| Sc | *Salix caprea* | Goat Willow | 6-8 | 250-300 | B | 2x; Light Standard; clear stem 150-175 cm; 3 breaks | As shown | 10 | |
| Sar | *Sorbus aria* | Whitebeam | 6-8 | 250-300 | B | 2x; Light Standard; clear stem 150-175 cm; 3 breaks | As shown | 12 | |
| Sau | *Sorbus aucuparia* | Rowan | 6-8 | 250-300 | B | 2x; Light Standard; clear stem 150-175 cm; 3 breaks | As shown | 12 | |
| | | | | | | | **TOTALS** | **211** | |

**find**

| Code | Botanical Name | Common Name | Girth/ Dia. cm | Height cm | Root Zone | Specification | Mix % | Number | Comments |
|---|---|---|---|---|---|---|---|---|---|
| Native Hedgerow Mix | *Crataegus monogyna* | Common Hawthorn | - | 40-60 | B | 1+1; Transplant - seed raised | 30 | 1780 | Plant in 2 rows, 0.45m apart at 0.45m staggered centres, in groups of 3-15 no. |
| | *Ilex aquifolium* | Common Holly | - | 40-60 | 3L | Leader with laterals | 10 | 593 | |
| | *Ligustrum vulgare* | Native Privet | - | 40-60 | B | 0/1; Cutting; branched; 2 breaks | 35 | 2077 | |
| | *Prunus spinosa* | Blackthorn | - | 40-60 | B | 1+1; Transplant - seed raised; branched; 2 brks | 20 | 1187 | |
| | *Rosa canina* | Dog Rose | - | 40-60 | B | 1+1; Transplant - seed raised; branched; 2 brks | 5 | 297 | |
| | | | | | | | **TOTALS** | **5934** | |

| Rev: | Date: | Description: | Drawn | Ch'd |
|---|---|---|---|---|
| A | 09/12/2021 | Minor amendments | JH | AS |
| B | 16/12/2021 | Updated drawing notes | JH | AS |
| C | 17/06/2022 | Updated proposals to respond to comments from the local authority | JH | AS |
| D | 23/06/2022 | Updated specification notes - removal of fertilisers and herbicides | JH | AS |
| E | 20/10/2022 | Removal of panels in Fields A, D, E, H and I. Mitigation revised to suit | JH | AS |

THE Landmark PRACTICE
1 Theynes Court
Long Ashton Business Park
Yanley Lane
Bristol BS41 9LB
United Kingdom
Tel: +44 (0)117 923 0455
enquiries@thelandmarkpractice.com
www.thelandmarkpractice.com

CLIENT: ERSUN (WESTHIDE SPV) LTD
PROJECT: WESTHIDE SOLAR
TITLE: LANDSCAPE MITIGATION AND ENHANCEMENT PLAN

| Status: | Drawn: | Checked: |
|---|---|---|
| PLANNING | JH | LF |
| Scale: | Date: | Approved: |
| 1:2000@A1 | 03.12.2021 | AS |
| Drawing Number: | | Rev: |
| 3352_L_GA_0_02 | | E |

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