

Barkham Solar Farm

Drainage & SuDS Strategy

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Revision: P02

Issue Date: 30 September 2024

Land to north and south of Barkham Ride, RG40 4PL

Rev	Description	Issued by	Checked	Date
P01	Draft Issue	CRR	MS	27/09/24
P02	Updated to suit Equans Comments	CRR	MM	30/09/24

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1 Introduction

1.1 Project Overview

Curtins have been appointed by Equans to produce this Drainage Strategy Document to assist with the discharge of Planning conditions for the proposed Solar Farm development at Barkham Ride. The specific condition is Condition 20 and is included below.

'Prior to the commencement of the development hereby permitted, a detailed Drainage Strategy shall be submitted to and approved in writing by the Local Planning Authority. The Strategy shall be supported by evidence of ground conditions and modelling of the scheme to demonstrate it is technically feasible and will protect existing assets at St James Church and retain existing water flows and levels within the moat around Church Cottages, Where applicable, it should demonstrate that it adheres to the NPPF, Non-statutory technical Standards for Sustainable Drainage, Building Regulation H and local policy. The drainage scheme shall be carried out in accordance with the approved details. Where surface water requires disposal offsite the applicant must provide evidence of consent to discharge/connect through 3rd party land or to their network/system/ watercourse.'

Proposals contained or forming part of this report represent the design intent and may be subject to alteration or adjustment in completing the detailed design for this project. Where such adjustments are undertaken as part of the detailed design and are deemed a material derivation from the intent contained in this document, prior approval shall be obtained from the relevant authority in advance of commencing such works.

1.2 Site Location

The site is located within existing grassland to the north and south of Barkham Ride. The site is approximately 1km south of Barkham Town Centre with the grid reference X-478398, Y-166070.



Figure 1-1: Site Location Plan

1.3 Site Description

The site currently consists of open fields/grassland separated by a series of treelines and drainage ditches. The site has an area of approximately 52ha and can be accessed via the Barkham Ride highway which crosses through the centre of the site.

A topographical survey has been carried out, included in **Appendix A**, and shows the site to generally fall from south to north and from east to west. With a high point of 64.54mAOD in the southeast section of the site and a low point of 50.17mAOD in the northwest corner of the site.

1.4 Project Proposal

The project proposal is for the construction of a new solar farm with associated substations/inverter compounds. The proposed works also include the installation of two new access junctions for the site off of Barkham Ride and a network of new haul roads to allow vehicular access to the different areas of the site.

It is assumed there will be no demolition works, there may be minor changes to site levels to suit the new haul road design. The haul road design can be seen in **Appendix B**, on the site as part of the proposed works. It has also been assumed that there will be no change in the impermeable areas of the site as part of the proposed works.

The proposed site layout can be found in **Appendix C**.

2 Planning and Policy Considerations

2.1 National Planning Policy Requirements

2.1.1 National Planning Policy Framework (NPPF) and Planning Practice Guidance (PPG)

In recent years, the Government and local Councils have placed increased priority on the need for developers to take full account of the risks of their development at all stages of the planning process. The National Planning Policy Framework (NPPF) and Planning Practice Guidance (PPG) identify how the issue of flooding is dealt with through the planning process and with the creation of a site-specific Flood Risk Assessment (FRA) for sites over 1ha in area or in Flood Zones 2 & 3.

2.1.2 DEFRA – Sustainable Drainage Systems

The Department for Environment, Food and Rural Affairs (DEFRA) national standards for sustainable drainage systems provide technical guidance on the design, construction and maintenance of Sustainable Drainage Systems (SuDS).

2.2 Local Planning Policy Requirements

2.2.1 Wokingham Adopted Core Strategy Development Plan (January 2010)

The Council has produced the Core Strategy to set out where development will occur within the borough to 2026, taking account of the health, well-being and quality of life of our residents. The Core Strategy includes policies about everything from homes, shops, offices and factories to libraries, schools and health & leisure facilities.

2.2.2 Wokingham Borough Level 1 Strategic Flood Risk Assessment (May 2023)

This report provides a comprehensive and robust evidence base on flood risk issues to support the review and update of the Wokingham Borough Council's planning policies. The review process is known as the Local Plan Update (LPU). This report uses the best available information, including input from key stakeholders. This Level 1 Strategic Flood Risk Assessment (SFRA) for Wokingham Borough Council (WBC) was prepared to replace and update the previous Level 1 SFRA produced by WSP and published in 2020. The SFRA assesses additional land promoted to WBC for potential development, changes to the proposed development sites within the borough, and changes in national planning policy and guidance, including the update to the National Planning Policy Framework (NPPF) in July 2021, the update to the Planning Practice Guidance (PPG) in August 2022, and the updates to the EA climate change guidance in July 2021 and May 2022.

2.2.3 Flood Risk Management Strategy (April 2015)

The Strategy focuses on local flood risk sources and explains how Wokingham Borough Council will ensure flood risk is managed in an integrated and effective way. The Strategy provides a single consistent reference point for flood risk management in the Borough.

3 Flood Risk Summary

A detailed site-specific Flood Risk Assessment (FRA) has been written for this site by WSP (Wokingham-WKH-2021-BARKHAM SOLAR FARM). The FRA outlines the existing flood risk posed to the site, as well as evaluating how the proposed development will affect these risks. The FRA is included in **Appendix D**.

4 Existing Drainage

4.1 Public Sewerage

Due to the existing nature of the site being undeveloped, it is assumed no existing surface or foul water sewerage serves the development site. Survey works carried out on the site also did not identify any sewerage. No publicly adopted drainage runs are shown on Thames Water asset plans either.

4.2 Private Drainage

Due to the existing nature of the site being undeveloped, no existing surface or foul water sewers are serving the development site.

There are several drainage ditches on the site in which flows are to be retained as per existing during and following the development of the site. These ditches flow from west to east across the site. One of the ditches, noted as a drainage moat on the Topographical Survey feeds into a drainage moat that continues around the nearby Church buildings located to the east of the site. It is important that the flows through the moat are maintained to continue to support the downstream drainage from the site.

5 Proposed Drainage Strategy

5.1 General

The proposed drainage strategy does not look to change the drainage regime of the site. As there are currently no areas of hardstanding, water landing on the site will infiltrate to the ground and be picked up partially by the drainage ditches across the site.

As the majority of the site is occupied by PV panels that are installed on soft landscaping, rainfall landing on these will still be allowed to infiltrate either in or near the existing location. The proposed access roads and footways around the site are proposed to be installed with a permeable build-up, allowing water to drain as before.

There will be five small substations installed in different locations on the site. These will each provide a very small increase in impermeable area. It is proposed to drain these areas via individual new piped surface water networks which will discharge into the existing drainage ditches on the site.

The proposed drainage strategy general arrangement drawings are included in **Appendix E** of this report.

5.2 Surface Water

In line with the Drainage Hierarchy, surface water runoff from a site should endeavour to be controlled as close to the source as possible. Discharge from the site should be via one of the methods detailed in **Table 1**, in descending priority;

Table 1: Discharge Opportunities

London Sustainable Drainage Hierarchy	Site Specific Application
Store rainwater for later use	Rainwater harvesting is not suitable for this type of development. There are limited impermeable areas and no proposed planting/development for the stored rainwater to serve.
Use infiltration techniques, such as porous surfaces in non-clay areas	It is proposed for the site to drain via infiltration as per existing.
Attenuate rainwater in ponds or open water features for gradual release	Due to the very minimal increase in impermeable areas (from the substations only) attenuation via the use of a pond or open water features is not deemed suitable for this development.
Attenuate rainwater by storing it in tanks or sealed water features for gradual release	Due to the very minimal increase in impermeable areas (from the substations only), attenuation tanks are not deemed suitable or necessary for this development.
Discharge rainwater directly to a watercourse	It is proposed that the existing drainage ditches running through the site be maintained and reused as part of the development.

London Sustainable Drainage Hierarchy	Site Specific Application
	This will require the installation of culverts in places to ensure flow is maintained through the proposed road networks. Runoff from the substations is to be discharged via gravity directly into the existing drainage ditches on site. Due to the very minimal new impermeable areas from the substations and the very low risk of contamination arising from these areas, this has been deemed the most suitable and efficient way of draining the site.
Discharge rainwater to a surface water sewer/drain	It is proposed to discharge via infiltration and existing drainage ditches, hence discharging to a surface water sewer or drain has not been considered further in this report.
Discharge rainwater to a combined sewer	It is proposed to discharge via infiltration and existing drainage ditches, hence discharging to a combined water sewer or drain has not been considered further in this report.

5.2.1 Proposed Site Discharge

It is proposed for the site to discharge as per existing following the completion of the solar farm. This is mainly via infiltration with excess surface water being collected via drainage ditches within the site.

The very minimal increase in impermeable areas from the proposed substation units is to be discharged via new piped networks directly into the drainage ditches.

Based on the proposed roof area of the substations being 58m². A simple hydraulic network has shown that the maximum flow rate during a 1 in 100 year + 40% Climate Change event would be 3.7l/s.

Based on the large site area of 52ha it would not be expected for these additional flows to increase flood risk or the ditches on or downstream of the proposed development site.

5.2.2 Attenuation

It is not proposed to install any forms of attenuation in the proposed drainage design.

5.2.3 Sustainable Drainage Systems

Developments should utilise sustainable drainage systems (SuDS) unless there are practical reasons for not doing so. As mentioned previously, the design should aim to reduce run-off rates and ensure that run-off is managed as close to its source as possible as per the drainage hierarchy (see Table 1).

The SuDS Hierarchy sets out the preferred method of discharging and managing water from a development site and aims to highlight why each item has been utilised or discounted.

Table 2 analyses the SuDS hierarchy and the appropriate techniques with a specific focus on this project.

Table 2: SuDS Opportunities

SuDS Technique	Site Specific Analysis
Rainwater Harvesting	Due to the limited impermeable/roof area as part of the proposed development, and the limited need for the re-use of rainwater on-site, rainwater harvesting has not been deemed suitable for this development.
Living or Roofs/Areas	There are no suitable roof areas for living roofs to be utilized in this development.
Basins and Ponds	Due to the lack of attenuation requirements in the proposed drainage design, basins or ponds have not been deemed suitable for this development.
Filter Strips and Swales	Filter strips and swales have not been deemed suitable for this development. The risk of contamination for the development is very low and there are no attenuation requirements.
Infiltration Devices	It is proposed for the new roads serving the development to be permeable construction and drain directly to the ground. The areas serving the PV panels will infiltrate as per existing.
Permeable Surfaces	The proposed roads will consist of permeable surfaces.
Tanked Systems	No tanked systems are being proposed in the drainage design.

5.2.4 Flood Exceedance

In the event the proposed drainage is exceeded there would likely be localised flooding around the substation units. Flood water would flow overground from here towards the drainage ditches and away from the site.

Based on the topographical survey levels generally fall towards the northwest corner of the site. Beyond this point is further grassland separating the site from nearby infrastructure. The FRA explains that the site has very low to high risk of flooding from surface water due to a major overland flow route crossing the site, in the event of exceedance flood water would be expected to follow the route of the nearby watercourses and would flow to the north and west away from the site and nearby properties.

5.3 Foul Water

There are no foul drainage requirements as part of the proposed development.

6 General Maintenance

It is assumed that all drainage within the site will be maintained as a private network. A suitable maintenance strategy will be included within handover documentation by the contractor once final details and suppliers have been chosen for the individual drainage elements. This strategy should be adopted to ensure the drainage network is cleaned regularly and the routine maintenance and cleansing regime should be documented.

An Operation and Maintenance Manual of the proposed drainage features is included in **Appendix F** of this report.

7 Conclusions and Recommendations

This report is intended to provide further details on the design of the drainage systems for the proposed redevelopment of Barkham Solar Farm and to act as additional information in support of the planning application. The conclusions to be drawn from this report are as follows:

- A detailed FRA has been carried out for the site by WSP. The report shows the majority of the site lies within Flood Zone 1 with a small area to the north of the site located within Flood Zone 2.
- It is proposed for the majority of the site to drain via infiltration as existing.
- The new roads being installed to allow vehicular access to the site will be fully permeable and are to infiltrate directly to the ground.
- The site is served by existing drainage ditches. As the site is to mostly drain as per existing with minimal increase in impermeable areas it is expected the flow into and through the existing drainage ditches will remain unchanged by the proposed works.
- There are several substations and containers to be located in various locations throughout the site. It is proposed for these to be drained via new piped networks and discharged to the existing drainage ditches on site.
- There are no foul drainage requirements as part of the proposed development.
- There is no risk of contamination due to the minimal increase in impermeable areas.

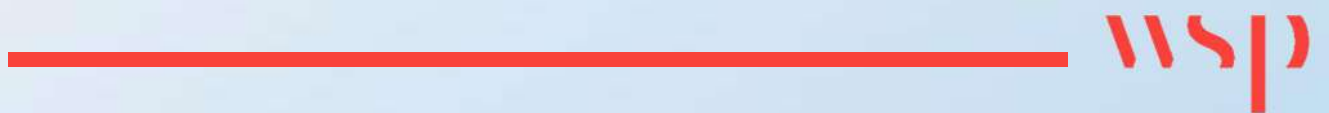
8 Appendices

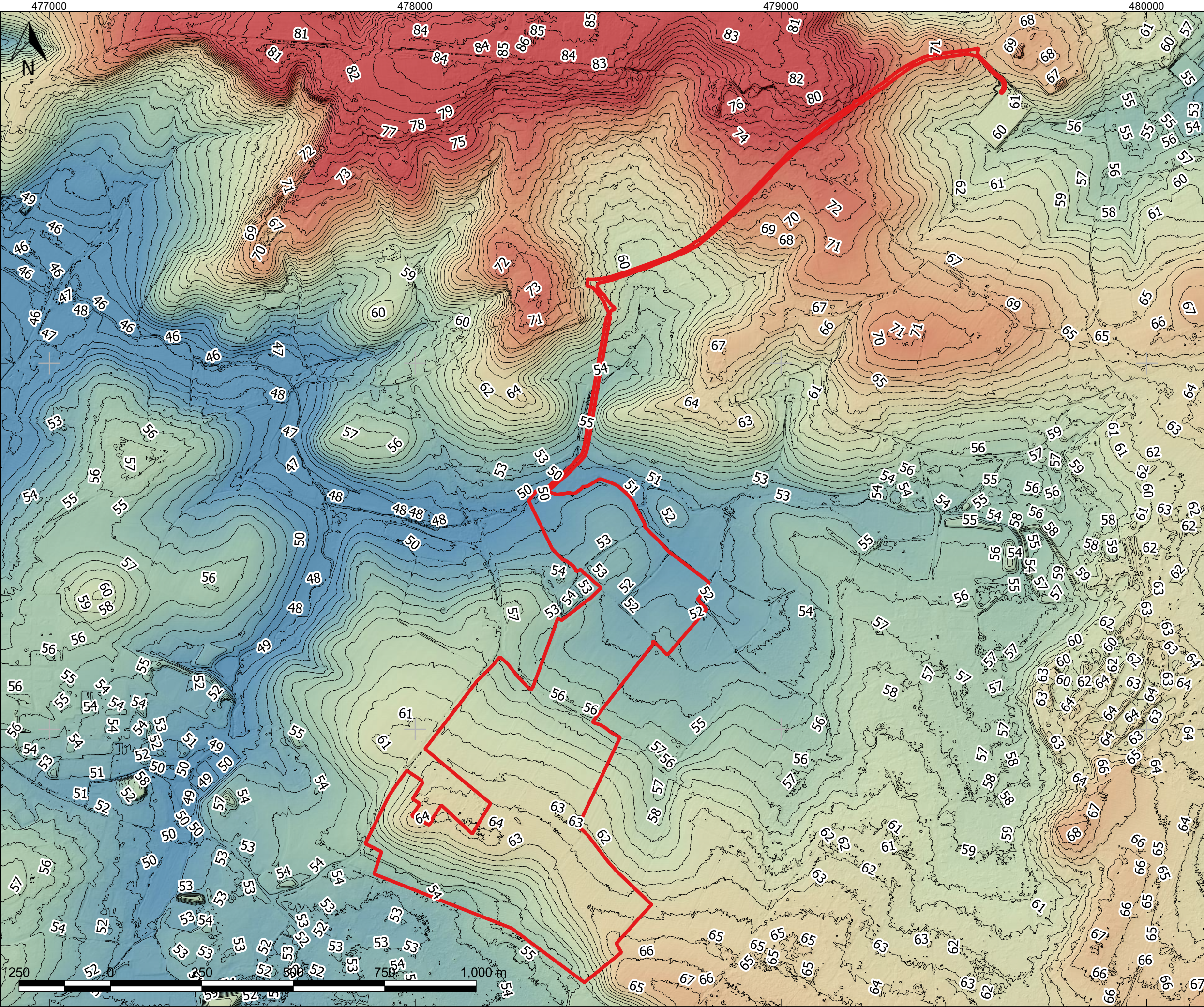
- 8.1 A – Topographical Survey
- 8.2 B – Haul Road Design
- 8.3 C – Proposed Site Layout
- 8.4 D – WSP Flood Risk Assessment
- 8.5 E – Proposed Drainage General Arrangement Drawings
- 8.6 F – Operations and Maintenance Manual

A – Topographical Survey

Appendix B

TOPOGRAPHIC PLAN AND SURVEY





KEY:

Site Boundary

Existing Ground Levels (mAOD)

- ≤ 50
- 50-55
- 55-60
- 60-65
- 65-70
- ≥ 70

A	09/03/21	JD	FIRST ISSUE	JG	GH
REV	DATE	DRW	DESCRIPTION	CHK	APP

STATUS:

FOR INFORMATION ONLY

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WOKINGHAM BOROUGH COUNCIL

ARCHITECT:

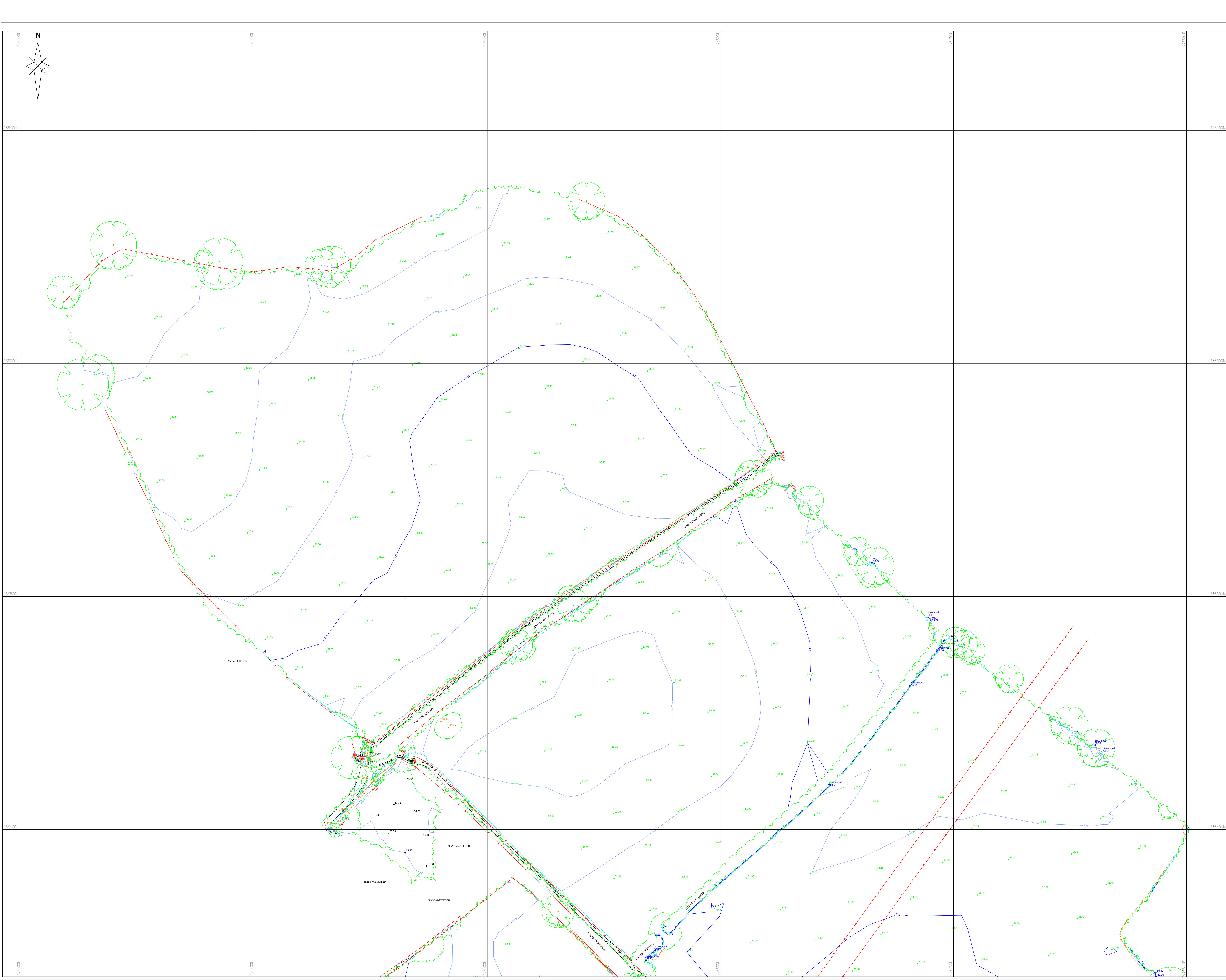
PROJECT:

BARKHAM FARMS

TITLE:

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PROJECT No: 70074897	DRAWING No: 4897-TOP-001	REV: A

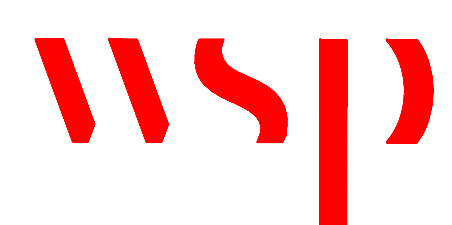


NOTES
Grid: Local Grid orientated to OS Grid (OSTN15)
Datum: Ordnance Survey Datum (OSGM415)
Site centred about station RH01
Site Centred Local Scale Factor: 1.0000000
Surveyed using Trimble GNSS and Total Station equipment

SURVEY LEGEND	
Box	Buildings
---	Box (Outline)
---	Edge of Concrete (Bottom)
---	Edge of Concrete (Top)
---	Batter (Bottom)
---	Edge of Concrete
---	Electricity Trans Line
---	Edge of Metal
---	Edge of Path
---	TEXT
---	Batter (Top)
---	Fence (Unspecified)
---	Fence (Close Boarded)
---	Fence (Concrete)
---	Fence (Solid Metal)
---	Fence (Post and Wire)
---	Fence (Rail)
---	Fence (Wooden Rail)
---	Edge of Grass
---	Hedge/line Left
---	Levels (Streambed)
---	Edge of Stream
---	Shrubline Right
---	Tank
---	Treeline
---	Treeline (Trunks Right)
---	Cover Outline (General)
---	Cover Outline (Gully)
---	Wall
---	Pylon
---	Gate
---	Pipe (Top)
---	Spot Level (Concrete)
---	Spot Level (Earth)
---	Spot Level (Grass)
---	Trees
---	Electricity Pole
---	Post
---	Road Sign (Point)
---	Stay
---	Telephone (Poles)

REV.	DETAILS	DRN	CHKD	DATE

SURVEY STATIONS			
Name	Easting	Northing	Height
PH01	478486.79	166640.23	61.467
PH02	478328.28	166577.61	61.561
PH03	47832.87	166577.36	61.545
PH04	478207.21	166558.40	61.720
PH05	478213.04	166555.00	61.641
PH06	478113.32	166551.62	61.748
PH07	478113.32	166551.62	61.748
PH08	478208.12	166558.28	61.694
PH09	478213.04	166555.00	61.641
PH10	478213.04	166555.00	61.641
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PH18	478213.04	166555.00	61.641
PH19	478213.04	166555.00	61.641
PH20	478213.04	166555.00	61.641



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Project / Drawing Title

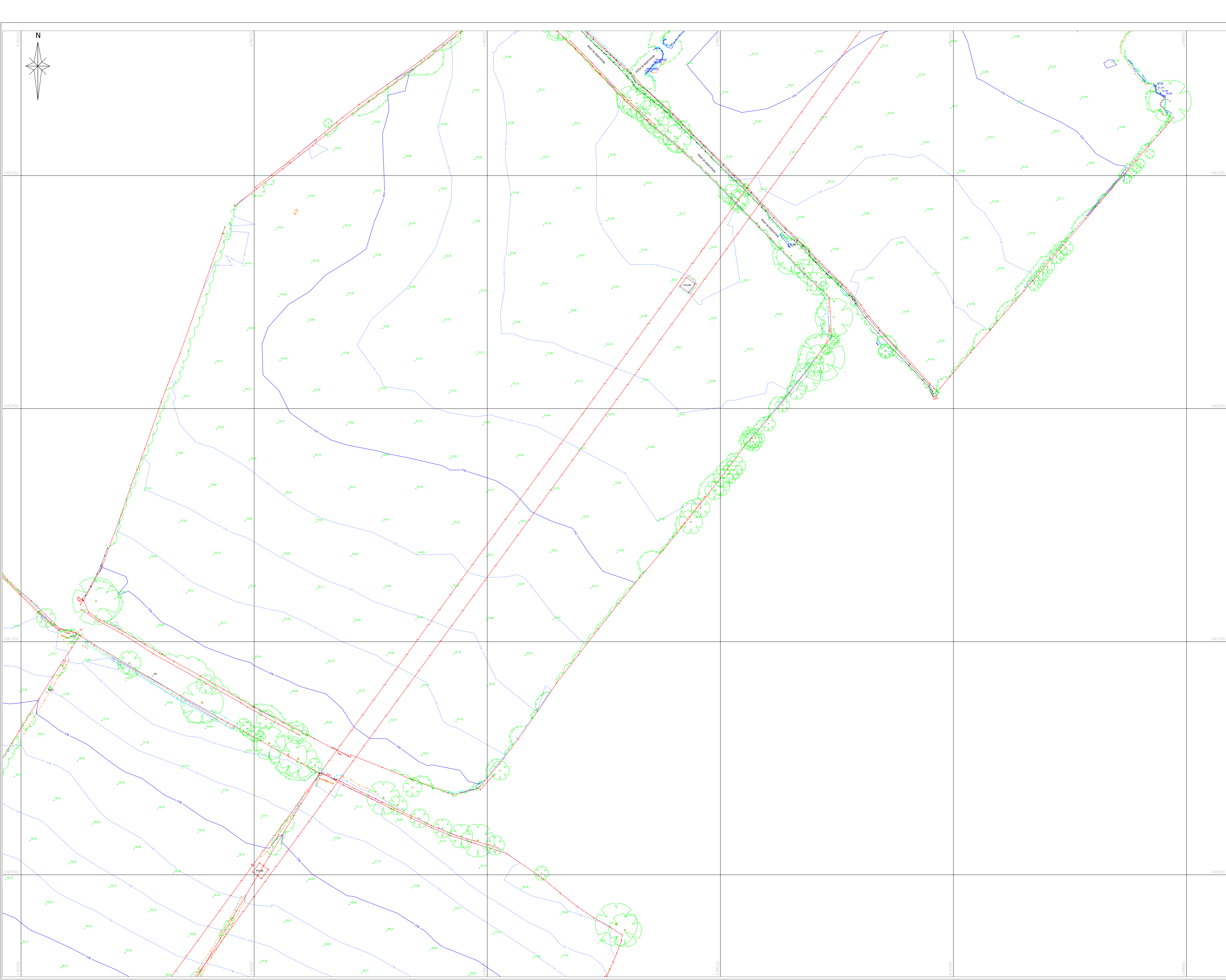
**BARKHAM FARMS
WOKINGHAM BOROUGH COUNCIL**

Scale 1:500 Size A0 Date 02/12/2020

Drawn By LS Checked By RH Approved By CS

Drawing Name / Number

**TOPOGRAPHICAL SURVEY
AS AT NOVEMBER 2020
70074897-WSP-TOPO-01
SHEET 1 OF 6**



NOTES
Grid: Local Grid orientated to OS Grid (OSTN15)
Datum: Ordnance Survey Datum (OSGM15)
Site centred about station RH01
Site Centred Local Scale Factor: 1.000000
Surveyed using Trimble GNSS and Total Station equipment

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 - Post
 - Road Sign (Point)
 - Stay
 - Telephone (Poles)

REV.	DETAILS	DRN	CHKD	DATE

STATIONS			
SURVEY STATIONS			
Name	Easting	Northing	Height
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PH03	478328.417	165977.385	61.545
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PH98	478333.324	165855.887	61.843
PH99	478333.324	165855.887	61.843
PH100	478333.324	165855.887	61.843



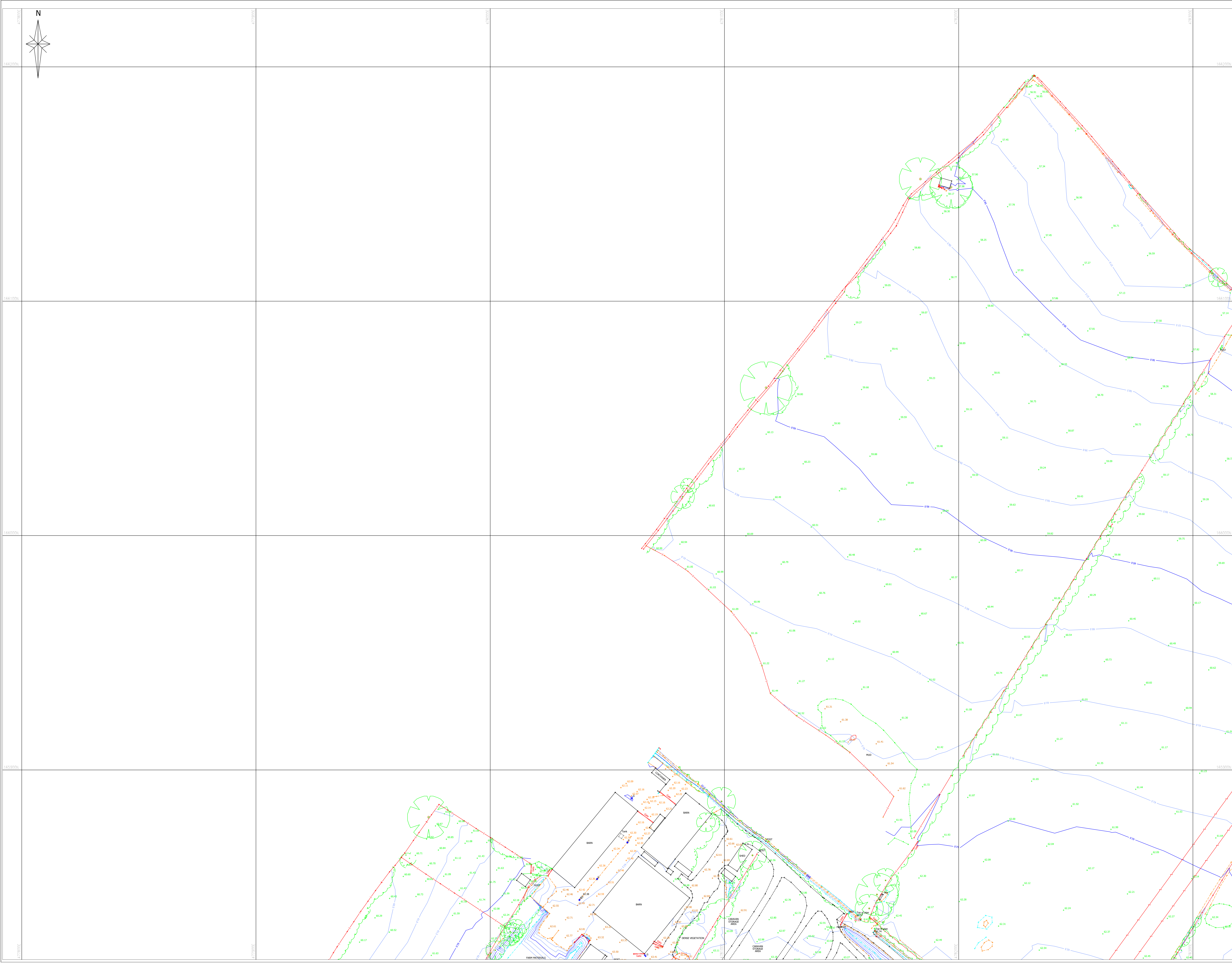
Project / Drawing Title

BARKHAM FARMS
WOKINGHAM BOROUGH COUNCIL

Scale	1:500	Size	A0	Date	02/12/2020
Drawn By	LS	Checked By	RH	Approved By	CS

Drawing Name / Number

TOPOGRAPHICAL SURVEY
AS AT NOVEMBER 2020
70074897-WSP-TOPO-01
SHEET 2 OF 6



NOTES
Grid: Local Grid orientated to OS Grid (OSTN15)
Datum: Ordnance Survey Datum (OSGM415)
Site centred about station RH45
Site Centred Local Scale Factor: 1.000000
Surveyed using Trimble GNSS and Total Station equipment

- SURVEY LEGEND
- Buildings
 - Box (Outline)
 - Edge of Concrete (Bottom)
 - Edge of Concrete (Top)
 - Batter (Bottom)
 - Edge of Concrete
 - Electricity Trans Line
 - Edge of Metal
 - Edge of Path
 - TEXT
 - Batter (Top)
 - Fence (Unspecified)
 - Fence (Close Boarded)
 - Fence (Concrete)
 - Fence (Solid Metal)
 - Fence (Post and Wire)
 - Fence (Rail)
 - Fence (Wooden Rail)
 - Edge of Grass
 - Hedge/Line Left
 - Levels (Streambed)
 - Edge of Stream
 - Shrubline Right
 - Tank
 - Treeline
 - Treeline (Trunks Right)
 - Cover Outline (General)
 - Cover Outline (Gully)
 - Wall
 - Pylon
 - Gate
 - Pipe (Top)
 - Spot Level (Concrete)
 - Spot Level (Earth)
 - Spot Level (Grass)
 - Trees
 - Electricity Pole
 - Post
 - Road Sign (Point)
 - Stay
 - Telephone (Poles)

REV.	DETAILS	DRN	CHKD	DATE

STATIONS			
SURVEY STATIONS			
Name	Easting	Northing	Height
PH41	47846.79	38604.23	54.40
PH42	47838.39	38677.63	51.50
PH43	47842.47	38625.36	51.54
PH44	47827.23	38758.40	52.75
PH45	47873.04	38685.80	51.44
PH46	47811.32	38611.62	51.94
PH47	47812.44	38555.74	51.99
PH48	47808.13	38504.38	51.94
PH49	47812.15	38445.63	51.94
PH50	47803.94	38411.04	52.53
PH51	47842.47	38411.04	52.53
PH52	47846.79	38411.04	52.53
PH53	47841.18	38411.04	52.53



Project / Drawing Title
**BARKHAM FARMS
WOKINGHAM BOROUGH COUNCIL**

Scale 1:500	Size A0	Date 02/12/2020
Drawn By LS	Checked By RH	Approved By CS

Drawing Name / Number
**TOPOGRAPHICAL SURVEY
AS AT NOVEMBER 2020
70074897-WSP-TOPO-01
SHEET 3 OF 6**



NOTES
Grid: Local Grid orientated to OS Grid (OSTN15)
Datum: Ordnance Survey Datum (OSGM415)
Site centred about station RH01
Site Centred Local Scale Factor: 1.000000
Surveyed using Trimble GNSS and Total Station equipment

SURVEY LEGEND	
	Buildings
	Box (Outline)
	Edge of Concrete (Bottom)
	Edge of Concrete (Top)
	Batter (Bottom)
	Edge of Concrete
	Electricity Trans Line
	Edge of Metal
	Edge of Path
	TEXT
	Batter (Top)
	Fence (Unspecified)
	Fence (Close Boarded)
	Fence (Concrete)
	Fence (Solid Metal)
	Fence (Post and Wire)
	Fence (Rail)
	Fence (Wooden Rail)
	Edge of Grass
	Hedge/Line Left
	Levels (Streambed)
	Edge of Stream
	Shrubline Right
	Tank
	Treeline
	Treeline (Trunks Right)
	Cover Outline (General)
	Cover Outline (Gully)
	Wall
	Pylon
	Gate
	Pipe (Top)
	Spot Level (Concrete)
	Spot Level (Earth)
	Spot Level (Grass)
	Trees
	Electricity Pole
	Post
	Road Sign (Point)
	Stay
	Telephone (Poles)

REV.	DETAILS	DRN	CHKD	DATE

STATIONS			
SURVEY STATIONS			
Name	Easting	Northing	Height
PH01	47848.797	56862.233	56.467
PH02	47838.329	56977.613	56.563
PH03	47835.477	56955.382	56.545
PH04	478207.213	56758.483	52.728
PH07	47873.024	56855.887	52.442
PH08	47811.823	56751.823	52.394
PH09	47813.324	56818.622	52.748
PH10	47812.464	56852.754	52.898
PH18	47806.133	56804.266	52.694
PH19	47821.324	56846.638	52.885
PH20	47822.594	56851.812	52.885
PH21	47822.594	56811.894	52.552
PH22	47824.477	56811.077	52.573
PH23	47844.705	56821.814	52.571
PH24	47841.119	56826.468	52.575

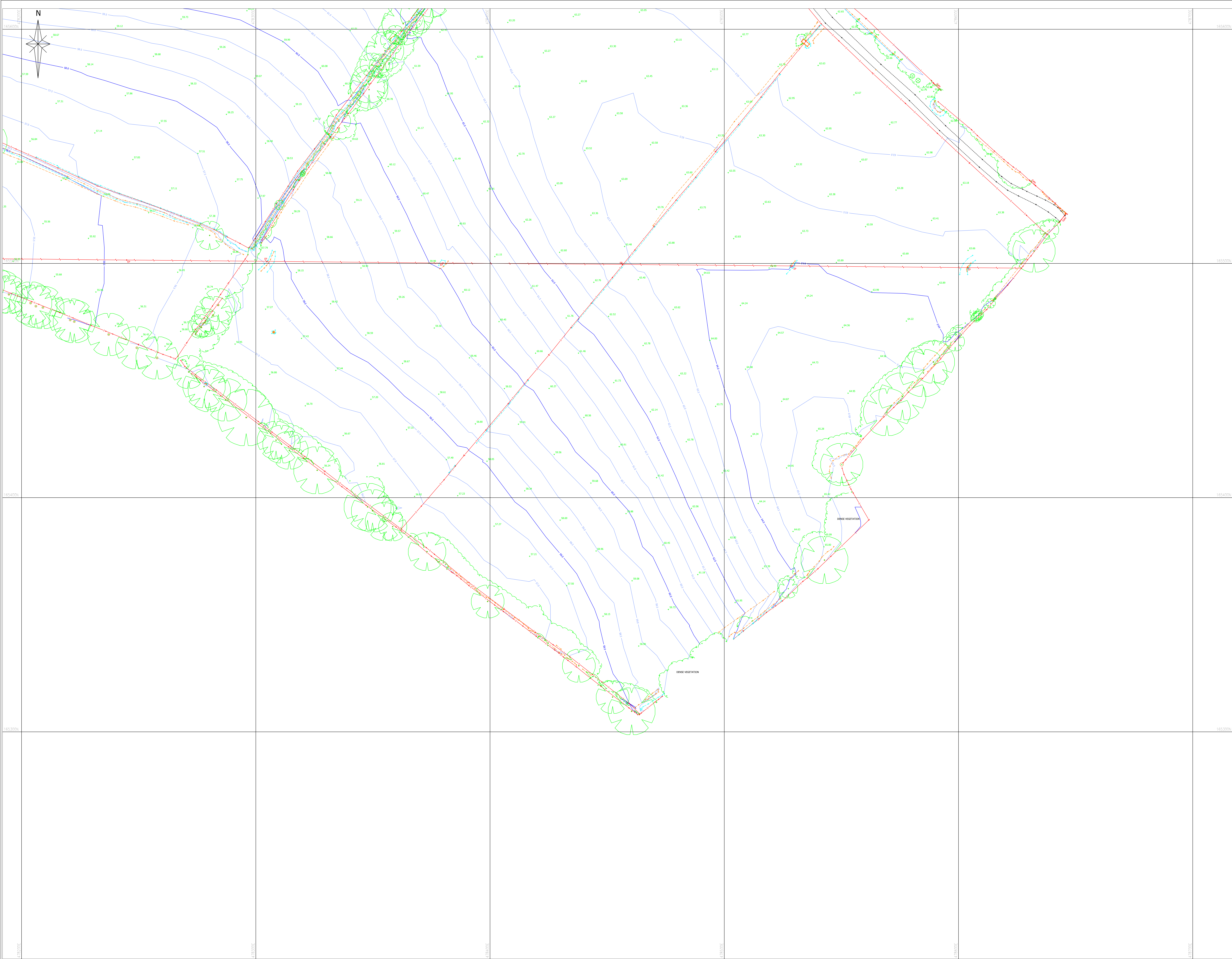


Project / Drawing Title

BARKHAM FARMS
WOKINGHAM BOROUGH COUNCIL

Scale	1:500	Size	A0	Date	02/12/2020
Drawn By	LS	Checked By	RH	Approved By	CS

Drawing Name / Number
TOPOGRAPHICAL SURVEY
AS AT NOVEMBER 2020
70074897-WSP-TOPO-01
SHEET 5 OF 6

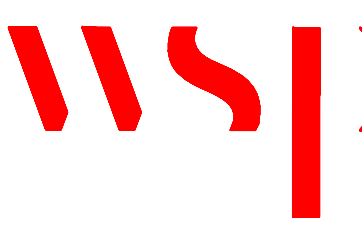


NOTES
Grid: Local Grid orientated to OS Grid (OSTN15)
Datum: Ordnance Survey Datum (OSGM415)
Site centred about station RH45
Site Centred Local Scale Factor: 1.000000
Surveyed using Trimble GNSS and Total Station equipment

- SURVEY LEGEND
- Buildings
 - Box (Outline)
 - Edge of Concrete (Bottom)
 - Edge of Concrete (Top)
 - Batter (Bottom)
 - Edge of Concrete
 - Electricity Trans Line
 - Edge of Metal
 - Edge of Path
 - TEXT
 - Batter (Top)
 - Fence (Unspecified)
 - Fence (Close Boarded)
 - Fence (Concrete)
 - Fence (Solid Metal)
 - Fence (Post and Wire)
 - Fence (Rail)
 - Fence (Wooden Rail)
 - Edge of Grass
 - Hedge/line Left
 - Levels (Streambed)
 - Edge of Stream
 - Shrubline Right
 - Tank
 - Treeline
 - Treeline (Trunk Right)
 - Cover Outline (General)
 - Cover Outline (Gully)
 - Wall
 - Pylon
 - Gate
 - Pipe (Top)
 - Spot Level (Concrete)
 - Spot Level (Earth)
 - Spot Level (Grass)
 - Trees
 - Electricity Pole
 - Post
 - Road Sign (Point)
 - Stay
 - Telephone (Poles)

REV.	DETAILS	DRN	CHKD	DATE

SURVEY STATIONS			
Name	Easting	Northing	Height
PH41	478448.797	355040.233	54.407
PH42	478328.329	355077.613	54.503
PH43	478303.417	355075.305	54.545
PH46	478207.213	355758.403	53.728
PH47	478070.504	355050.007	54.163
PH48	478113.324	355033.021	53.746
PH49	478121.044	355032.622	53.746
PH50	478036.133	355028.268	53.694
PH51	478213.125	355040.638	54.085
PH52	478033.594	355033.094	53.533
PH53	478043.417	355033.027	53.527
PH54	478048.705	355033.018	53.571
PH55	478043.119	355033.008	53.575



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wsp.com

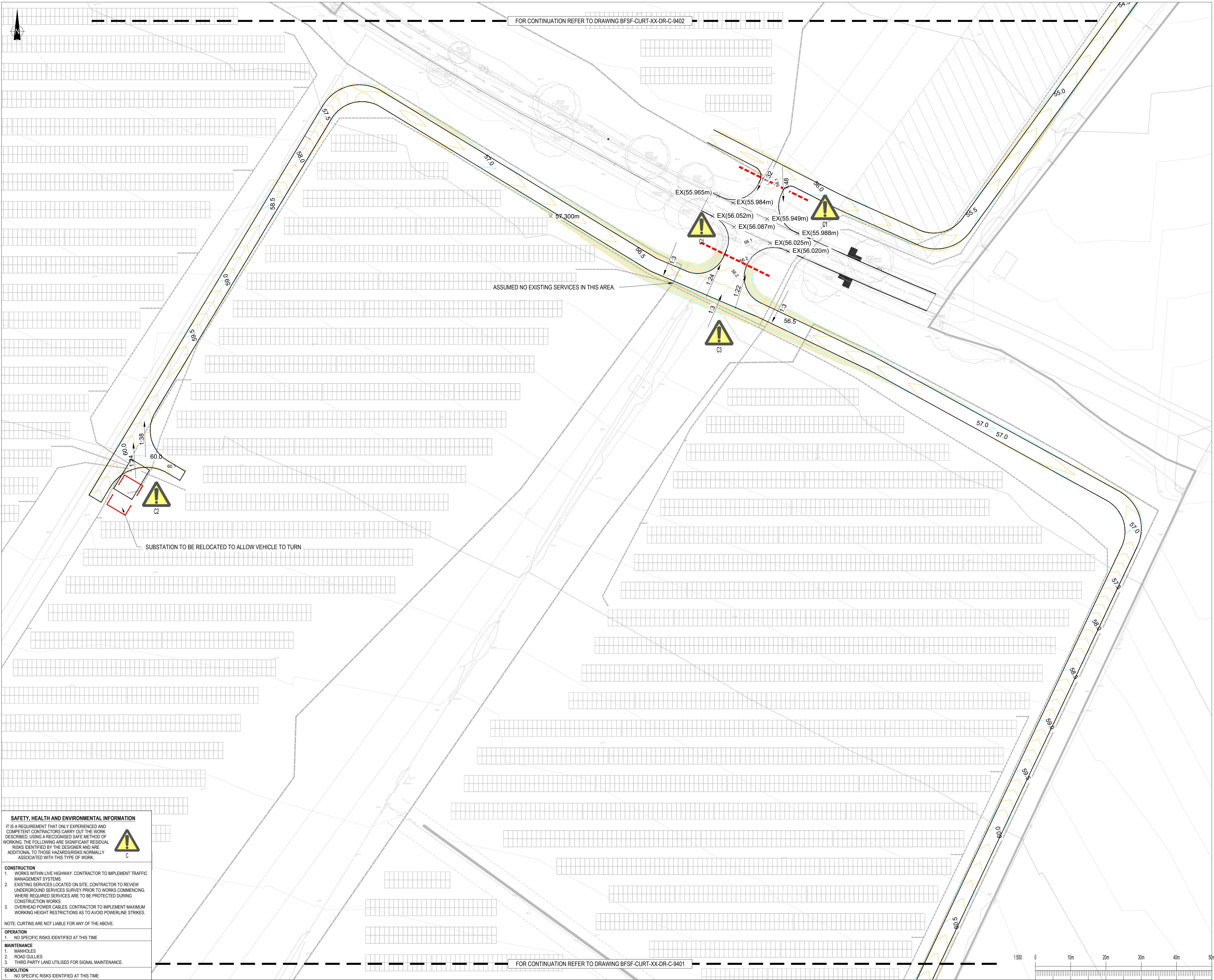
Project / Drawing Title

BARKHAM FARMS
WOKINGHAM BOROUGH COUNCIL

Scale	1:500	Size	A0	Date	02/12/2020
Drawn By	LS	Checked By	RH	Approved By	CS

Drawing Name / Number
TOPOGRAPHICAL SURVEY
AS AT NOVEMBER 2020
70074897-WSP-TOPO-01
SHEET 6 OF 6

B – Haul Road Design



GENERAL NOTES:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
- DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- FOR GENERAL NOTES REFER TO DRAWING.
- TOPOGRAPHICAL SURVEY RECEIVED FROM EQUANS. DRAWING REF 230633-CAT-XX-XX-M3-G-00001
- LANDSCAPE LAYOUT RECEIVED FROM EQUANS. DRAWING REF BFSF-DETR-ZZ-DR-XX-0001 REV P02

KEY	
—	SITE BOUNDARY
× EX(50.000)	EXISTING LEVELS
× 50.000	PROPOSED LEVELS
—	MAJOR CONTOUR (0.1m INTERVALS)
—	MINOR CONTOUR (0.5m INTERVALS)
—	EXISTING CONTOURS

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

IT IS A REQUIREMENT THAT ONLY EXPERIENCED AND COMPETENT CONTRACTORS CARRY OUT THE WORK DESCRIBED, USING A RECOGNISED SAFE METHOD OF WORKING. THE FOLLOWING ARE SIGNIFICANT RESIDUAL RISKS IDENTIFIED BY THE DESIGNER AND ARE ADDITIONAL TO THOSE HAZARD RISKS NORMALLY ASSOCIATED WITH THIS TYPE OF WORK.

C

CONSTRUCTION

- WORKS WITHIN LIVE HIGHWAY. CONTRACTOR TO IMPLEMENT TRAFFIC MANAGEMENT SYSTEMS.
- EXISTING SERVICES LOCATED ON SITE. CONTRACTOR TO REVIEW UNDERGROUND SERVICES SURVEY PRIOR TO WORKS COMMENCING. WHERE REQUIRED SERVICES ARE TO BE PROTECTED DURING CONSTRUCTION WORKS.
- OVERHEAD POWER CABLES. CONTRACTOR TO IMPLEMENT MAXIMUM WORKING HEIGHT RESTRICTIONS AS TO AVOID POWERLINE STRIKES.

NOTE: CURTINS ARE NOT LIABLE FOR ANY OF THE ABOVE.

OPERATION

- NO SPECIFIC RISKS IDENTIFIED AT THIS TIME.

MAINTENANCE

- MANHOLES
- ROAD GULLIES
- THIRD PARTY LAND UTILISED FOR SIGNAL MAINTENANCE.

DEMOLITION

- NO SPECIFIC RISKS IDENTIFIED AT THIS TIME.

P02	UPDATED ISSUE	27/09/24	EB	MS
P01	DRAFT ISSUE	13/09/24	EB	MM
Rev:	Description:	Date:	By:	Chkd:

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Status: **SUITABLE FOR AUTHORIZATION** **S4**

Project: **BARKHAM SOLAR FARM**

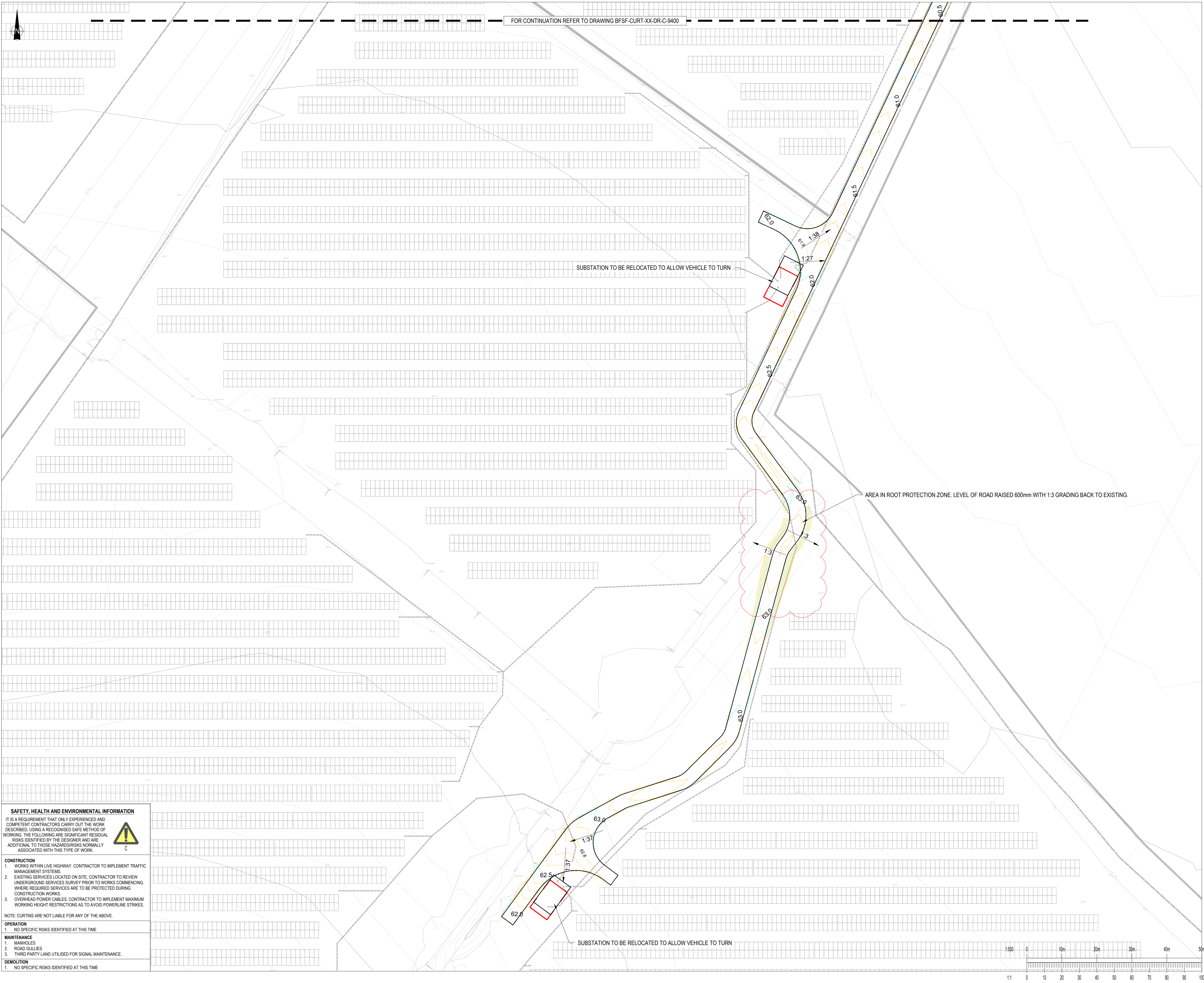
Dwg Title: **HAUL ROAD PROPOSED LEVELS**

SHEET 1

Drawn By EB	Designed By EB	Checked By MM
Project No	Date 13/09/24	Scales @ A1 1:500
Project Code - Originator - Function - Spatial - Form - Discipline - Number		
Revision		

BFSF-CURT- XX - DR- C - 9400

P02



GENERAL NOTES:

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- DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- FOR GENERAL NOTES REFER TO DRAWING.
- TOPOGRAPHICAL SURVEY RECEIVED FROM EQUANS. DRAWING REF 230633-CAT-XX-XX-M3-G-00001
- LANDSCAPE LAYOUT RECEIVED FROM EQUANS. DRAWING REF BFSF-DETR-ZZ-DR-XX-0001 REV P02

KEY	
—	SITE BOUNDARY
× EX(50.000)	EXISTING LEVELS
× 50.000	PROPOSED LEVELS
—	MAJOR CONTOUR (0.1m INTERVALS)
—	MINOR CONTOUR (0.5m INTERVALS)
—	EXISTING CONTOURS

P02	UPDATED ISSUE	27/09/24	EB	MS
P01	DRAFT ISSUE	13/09/24	EB	MM
Rev:	Description:	Date:	By:	Chkd:

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Status: **SUITABLE FOR AUTHORIZATION** **S4**

Project: **BARKHAM SOLAR FARM**

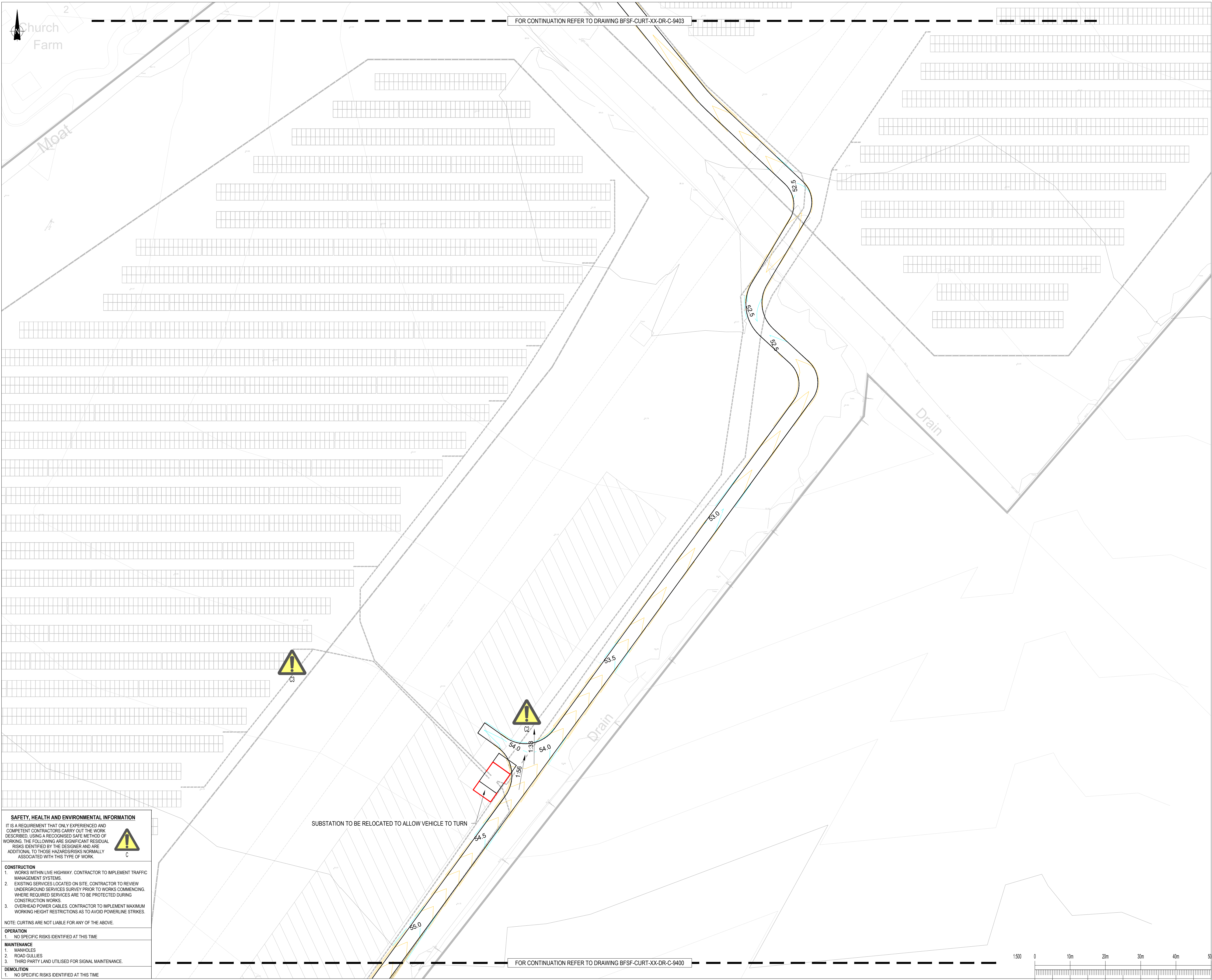
Orig Title:

**HAUL ROAD PROPOSED LEVELS
SHEET 2**

Drawn By EB	Designed By EB	Checked By MM
Project No	Date 13/09/24	Scales @ A1 1:500
Project Code - Originator - Function - Spatial - Form - Discipline - Number		
Revision		

BFSF-CURT- XX - DR- C - 9401

P02



SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION
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C

CONSTRUCTION
1. WORKS WITHIN LIVE HIGHWAY. CONTRACTOR TO IMPLEMENT TRAFFIC MANAGEMENT SYSTEMS.
2. EXISTING SERVICES LOCATED ON SITE. CONTRACTOR TO REVIEW UNDERGROUND SERVICES SURVEY PRIOR TO WORKS COMMENCING. WHERE REQUIRED SERVICES ARE TO BE PROTECTED DURING CONSTRUCTION WORKS.
3. OVERHEAD POWER CABLES. CONTRACTOR TO IMPLEMENT MAXIMUM WORKING HEIGHT RESTRICTIONS AS TO AVOID POWERLINE STRIKES.

NOTE: CURTINS ARE NOT LIABLE FOR ANY OF THE ABOVE.

OPERATION
1. NO SPECIFIC RISKS IDENTIFIED AT THIS TIME.

MAINTENANCE
1. MANHOLES
2. ROAD GULLIES
3. THIRD PARTY LAND UTILISED FOR SIGNAL MAINTENANCE.

DEMOLITION
1. NO SPECIFIC RISKS IDENTIFIED AT THIS TIME.

GENERAL NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.

2. DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.

3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.

4. FOR GENERAL NOTES REFER TO DRAWING.

5. TOPOGRAPHICAL SURVEY RECEIVED FROM EQUANS. DRAWING REF 230633-CAT-XX-XX-M3-G-00001

6. LANDSCAPE LAYOUT RECEIVED FROM EQUANS. DRAWING REF BFSF-DETR-ZZ-DR-XX-0001 REV P02

KEY

× EX(50.000)

× 50.000

SITE BOUNDARY

EXISTING LEVELS

PROPOSED LEVELS

MAJOR CONTOUR (0.1m INTERVALS)

MINOR CONTOUR (0.5m INTERVALS)

EXISTING CONTOURS

P02	UPDATED ISSUE	27/09/24	EB	MS
P01	DRAFT ISSUE	13/09/24	EB	MM
Rev:	Description:	Date:	By:	Chkd:

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Status:

SUITABLE FOR AUTHORIZATION

S4

Project:

BARKHAM SOLAR FARM

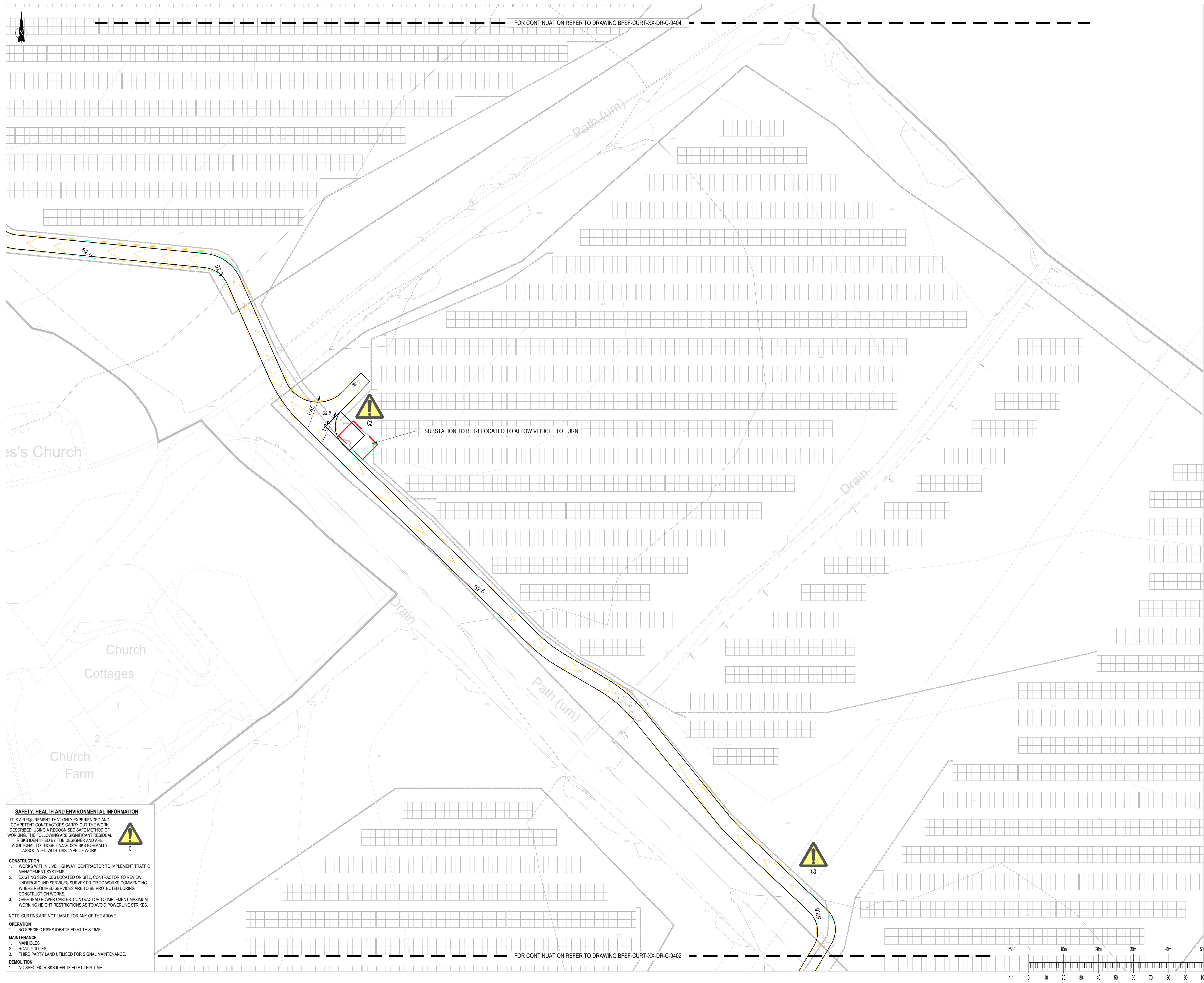
Dwg Title:

HAUL ROAD PROPOSED LEVELS
SHEET 3

Drawn By EB	Designed By EB	Checked By MM	
Project No	Date 13/09/24	Scales @ A1 1:500	
Project Code - Originator - Function - Spatial - Form - Discipline - Number			Revision

BFSF-CURT- XX - DR- C -9402

P02



GENERAL NOTES:

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2. DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.
3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
4. FOR GENERAL NOTES REFER TO DRAWING.
5. TOPOGRAPHICAL SURVEY RECEIVED FROM EQUANS.. DRAWING REF 230633-CAT-XX-XX-M3-G-00001
6. LANDSCAPE LAYOUT RECEIVED FROM EQUANS. DRAWING REF BFSF-DETR-ZZ-DR-XX-0001 REV P02

KEY

- | | |
|--|--------------------------------|
| | SITE BOUNDARY |
| × EX(50.000) | EXISTING LEVELS |
|  × 50.000 | PROPOSED LEVELS |
| | MAJOR CONTOUR (0.1m INTERVALS) |
| | MINOR CONTOUR (0.5m INTERVALS) |
|  | EXISTING CONTOURS |

P02	UPDATEDDD ISSUE	27/09/24	EB	MS
P01	DRAFT ISSUE	13/09/24	EB	MM
Rev:	Description:	Date:	By:	Chkd:

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Status: **SUITABLE FOR AUTHORIZATION** **S4**

Project:

BARKHAM SOLAR FARM

Drug Title:

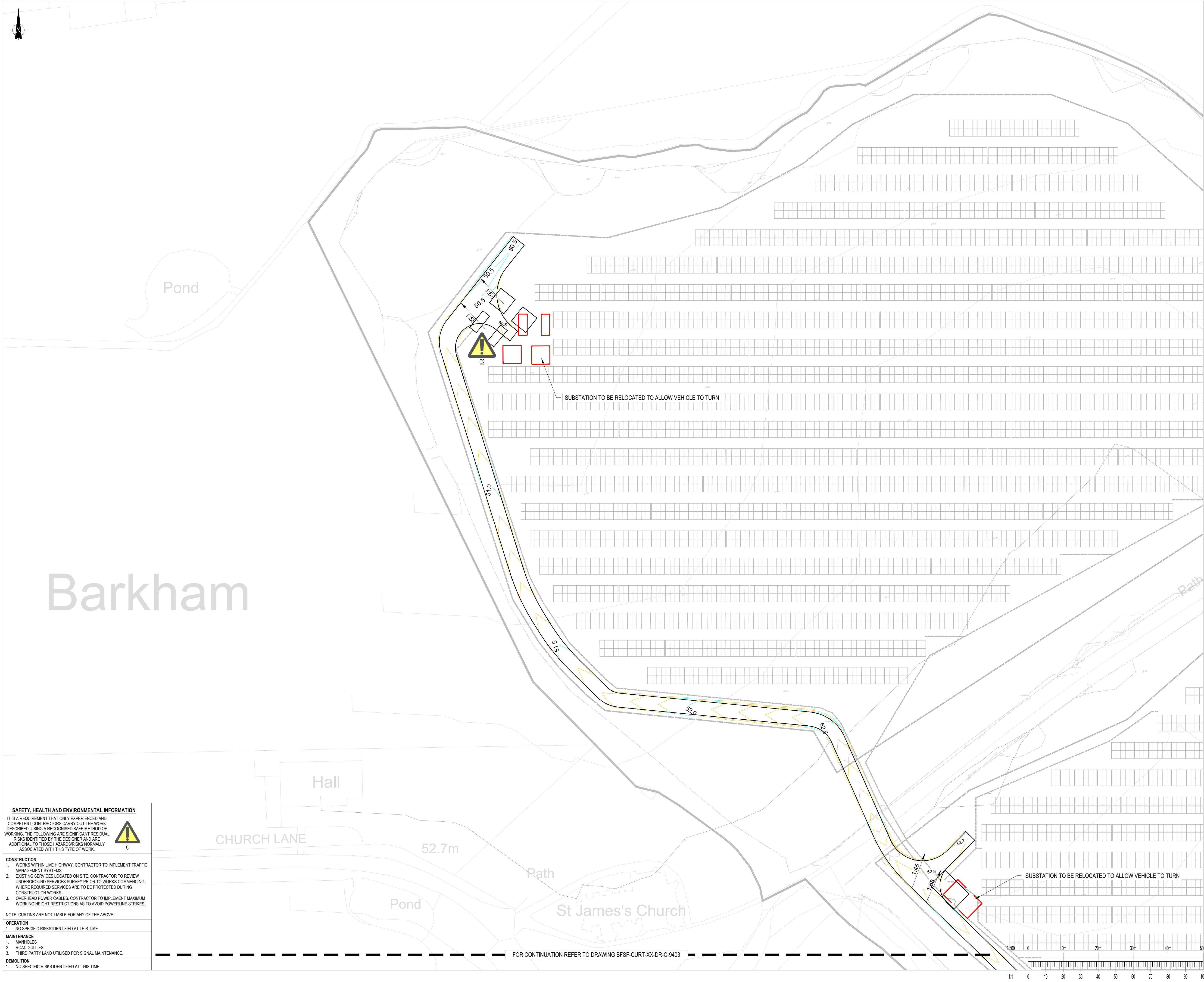
HAUL ROAD PROPOSED LEVELS

SHEET 4

Drawn By EB	Designed By EB	Checked By MM
Project No	Date 13/09/24	Scales @ A1 1:500
Project Code - Originator - Function - Spatial - Form - Discipline - Number		Revision

BFSF-CURT- XX - DR- C - 9403

P02



SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION
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C

CONSTRUCTION
1. WORKS WITHIN LIVE HIGHWAY. CONTRACTOR TO IMPLEMENT TRAFFIC MANAGEMENT SYSTEMS.
2. EXISTING SERVICES LOCATED ON SITE. CONTRACTOR TO REVIEW UNDERGROUND SERVICES SURVEY PRIOR TO WORKS COMMENCING. WHERE REQUIRED SERVICES ARE TO BE PROTECTED DURING CONSTRUCTION WORKS.
3. OVERHEAD POWER CABLES. CONTRACTOR TO IMPLEMENT MAXIMUM WORKING HEIGHT RESTRICTIONS AS TO AVOID POWERLINE STRIKES.

OPERATION
1. NO SPECIFIC RISKS IDENTIFIED AT THIS TIME.

MAINTENANCE
1. MANHOLES
2. ROAD GULLIES
3. THIRD PARTY LAND UTILISED FOR SIGNAL MAINTENANCE.

DEMOLITION
1. NO SPECIFIC RISKS IDENTIFIED AT THIS TIME.

GENERAL NOTES:

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3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.

4. FOR GENERAL NOTES REFER TO DRAWING.

5. TOPOGRAPHICAL SURVEY RECEIVED FROM EQUANS. DRAWING REF 230633-CAT-XX-XX-M3-G-00001

6. LANDSCAPE LAYOUT RECEIVED FROM EQUANS. DRAWING REF BFSF-DETR-ZZ-DR-XX-0001 REV P02

KEY

× EX(50.000)

× 50.000

SITE BOUNDARY

EXISTING LEVELS

PROPOSED LEVELS

MAJOR CONTOUR (0.1m INTERVALS)

MINOR CONTOUR (0.5m INTERVALS)

EXISTING CONTOURS

P02	UPDATED ISSUE	27/09/24	EB	MS
P01	DRAFT ISSUE	13/09/24	EB	MM
Rev:	Description:	Date:	By:	Chkd:

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Status:

SUITABLE FOR AUTHORIZATION

S4

Project:

BARKHAM SOLAR FARM

Dwg Title:

HAUL ROAD PROPOSED LEVELS
SHEET 5

Drawn By EB	Designed By EB	Checked By MM	
Project No	Date 13/09/24	Scales @ A1 1:500	
Project Code - Originator - Function - Spatial - Form - Discipline - Number			Revision

BFSF-CURT- XX - DR- C - 9404

P02

C – Proposed Site Layout