









Appendix D Proposed Drainage Information

- Greenfield Runoff Rates
- FEH22 Point Descriptors
- InfoDrainage schedule and results
- Stantec drawings:
 - 333101678/300.03/001 & 002 (BESS, National Grid & 400kV Substations BESS & 1B)
 - 333101678/300.03/004 & 005 (Project Substations 4B, 5A, 7F & 10C)
 - 333101678/300.03/003 & 006 to 023 (Concept Access Track Drainage Wider Order Limits)

FEH Catchment Descriptors - BESS, NG Substation, Project Substations 1 & 3

FEH data export	Date	13/10/2025	FEHCDROM version	2022
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\\Cbh-vfil-001\cbh\Projects\333101211 Long Stratton (Hydro)\Incoming\FEH

Descriptor	
Catchment X	617250
Catchment Y	288380
Centroid X	
Centroid Y	
AREA	
ALTBAR	
ASPBAR	
ASPVAR	
BFIHOST	0.312
BFIHOST19	0.333
DPLBAR	
DPSBAR	
FARL	
FPEXT	
FPDBAR	
FPLOC	
LDP	
PROPWET	0.31
RMED-1H	
RMED-1D	
RMED-2D	
SAAR	606
SAAR4170	
SPRHOST	
URBCONC1990	
URBEXT1990	
URBLOC1990	
URBCONC2000	
URBEXT2000	
URBLOC2000	
C	
D1	
D2	
D3	
E	
F	
C(1 km)	
D1(1 km)	
D2(1 km)	
D3(1 km)	
E(1 km)	
F(1 km)	

Descriptors provided by POINT export

FEH Catchment Descriptors - Project Substation 132kV 4B

FEH data export	Date	08/09/2026	FEHCDROM version	2022
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\\Cbh-vfil-001\cbh\Projects\333101211 Long Stratton (Hydro)\Incoming\FEH

Descriptor	
Catchment X	620640
Catchment Y	294387
Centroid X	
Centroid Y	
AREA	
ALTBAR	
ASPBAR	
ASPVAR	
BFIHOST	0.605
BFIHOST19	0.6
DPLBAR	
DPSBAR	
FARL	
FPEXT	
FPDBAR	
FPLOC	
LDP	
PROPWET	0.27
RMED-1H	
RMED-1D	
RMED-2D	
SAAR	601
SAAR4170	
SPRHOST	
URBCONC1990	
URBEXT1990	
URBLOC1990	
URBCONC2000	
URBEXT2000	
URBLOC2000	
C	
D1	
D2	
D3	
E	
F	
C(1 km)	
D1(1 km)	
D2(1 km)	
D3(1 km)	
E(1 km)	
F(1 km)	

Descriptors provided by POINT export

FEH Catchment Descriptors - Project Substation 2 400kV 5A

FEH data export	Date	08/09/2026	FEHCDROM version	2022
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\\Cbh-vfil-001\cbh\Projects\333101211 Long Stratton (Hydro)\Incoming\FEH

Descriptor	
Catchment X	622455
Catchment Y	293765
Centroid X	
Centroid Y	
AREA	
ALTBAR	
ASPBAR	
ASPVAR	
BFIHOST	0.435
BFIHOST19	0.437
DPLBAR	
DPSBAR	
FARL	
FPEXT	
FPDBAR	
FPLOC	
LDP	
PROPWET	0.27
RMED-1H	
RMED-1D	
RMED-2D	
SAAR	598
SAAR4170	
SPRHOST	
URBCONC1990	
URBEXT1990	
URBLOC1990	
URBCONC2000	
URBEXT2000	
URBLOC2000	
C	
D1	
D2	
D3	
E	
F	
C(1 km)	
D1(1 km)	
D2(1 km)	
D3(1 km)	
E(1 km)	
F(1 km)	

Descriptors provided by POINT export

FEH Catchment Descriptors - Project Substation 132kV 7F

FEH data export	Date	08/09/2026	FEHCDROM version	2022
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\\Cbh-vfil-001\cbh\Projects\333101211 Long Stratton (Hydro)\Incoming\FEH

Descriptor	
Catchment X	624184
Catchment Y	295920
Centroid X	
Centroid Y	
AREA	
ALTBAR	
ASPBAR	
ASPVAR	
BFIHOST	0.367
BFIHOST19	0.385
DPLBAR	
DPSBAR	
FARL	
FPEXT	
FPDBAR	
FPLOC	
LDP	
PROPWET	0.27
RMED-1H	
RMED-1D	
RMED-2D	
SAAR	599
SAAR4170	
SPRHOST	
URBCONC1990	
URBEXT1990	
URBLOC1990	
URBCONC2000	
URBEXT2000	
URBLOC2000	
C	
D1	
D2	
D3	
E	
F	
C(1 km)	
D1(1 km)	
D2(1 km)	
D3(1 km)	
E(1 km)	
F(1 km)	

Descriptors provided by POINT export

FEH Catchment Descriptors - Project Substation 132kV 10C

FEH data export	Date	08/09/2026	FEHCDROM version	2022
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\\Cbh-vfil-001\cbh\Projects\333101211 Long Stratton (Hydro)\Incoming\FEH

Descriptor	
Catchment X	629915
Catchment Y	295300
Centroid X	
Centroid Y	
AREA	
ALTBAR	
ASPBAR	
ASPVAR	
BFIHOST	0.395
BFIHOST19	0.412
DPLBAR	
DPSBAR	
FARL	
FPEXT	
FPDBAR	
FPLOC	
LDP	
PROPWET	0.27
RMED-1H	
RMED-1D	
RMED-2D	
SAAR	607
SAAR4170	
SPRHOST	
URBCONC1990	
URBEXT1990	
URBLOC1990	
URBCONC2000	
URBEXT2000	
URBLOC2000	
C	
D1	
D2	
D3	
E	
F	
C(1 km)	
D1(1 km)	
D2(1 km)	
D3(1 km)	
E(1 km)	
F(1 km)	

Descriptors provided by POINT export

Project Title	East Pye Solar DCO - Greenfield Runoff - BESS, National Grid Substation, and Project Substations 400kV 1 and 3	
Project No	333103270	100.06

Methodology as set out in SuDS Manual 24.3.2

[SU DS Manual Chapter 24](#)

1 Retrieve FEH Catchment Information

Define BFIHOST definition source		FEH	see note 1
Catchment Descriptors	BFIHOST	0.333	
	SAAR	606	see note 1
	FARL	1.0	see note 2

2 Derive QBAR (mean annual flood)

Define area	Site Area	1.00	ha	
	Applied Area	50.0	ha	see note 3
FEH Index Flood (SuDS Manual Equation 24.2)	QMED (Q ₂)	3.0	l/s	see note 4
Calculate QBAR by dividing QMED by 2yr growth factor	QBAR	3.3	l/s	see note 5

3 Select appropriate growth factors

FSR Hydrological Region		5
100yr Growth Curve Factor	GQ ₁₀₀	3.56
30yr Growth Curve Factor	GQ ₃₀	2.55
10yr Growth Curve Factor	GQ ₁₀	1.65
2yr Growth Curve Factor	GQ ₂	0.89
1yr Growth Curve Factor	GQ ₁	0.87

(refer to FSR Hydrological Region tab)



4 Derive Flood Frequency

Greenfield Runoff per 1ha

100yr Peak Runoff Rate	Q ₁₀₀	11.9	l/s/ha
30yr Peak Runoff Rate	Q ₃₀	8.5	l/s/ha
10yr Growth Curve Rate	Q ₁₀	5.5	l/s/ha
QBAR Peak Runoff Rate	QBAR	3.3	l/s/ha
2yr Peak Runoff Rate	Q ₂	3.0	l/s/ha
1yr Peak Runoff Rate	Q ₁	2.9	l/s/ha

DOCUMENT ISSUE RECORD

Rev	Comments	Prepared	Date	Checked	Date
-	Original calculation	E Edney	24/10/2025	A Johnson	03/12/2025
A	Re-issued with updated page title	E Edney	08/09/2026	A Johnson	08/09/2026

- Notes This spreadsheet has been created to allow derivation of greenfield runoff rates using the FEH statistical method applied in a manner consistent with the recommendations of the SuDS Manual. If you have recommendations to improve this spreadsheet please contact Alex Bearne.
- Note 1 FEH Web version 3 allows extraction of BFIHOST and SAAR values for each square kilometre grid Export point data from FEH Webs Service as .XML file and save in project folder and import in the FEH Point Data Import tab. If you do not think the BFIHOST value is representative of your site then it is possible to derive it manually. This should not normally be necessary. BFI can be derived manually using the methodology set out in the Flood Estimation Handbook (see Manual Derivation of BFIHOST tab) or can be defined from ground investigation information.
As default the sheet references the imported FEH data
- Note 2 FARL value is a measure of attenuation from reservoirs and lakes for the majority of studies this should be set to 1 (representing no attenuation). If your site includes a large water body with an attenuating affect on runoff please consult a hydrologist.
FARL is a measurement of studies water bodies in the catchment so that their attenuation effects so this term becomes 1.0 and therefore drops out. (see page 23 of the Preliminary rainfall runoff management for developments EA/Defra 2013)
[Rainfall runoff management for developments.pdf](#)
- Note 3 If the site area is less than 50 hectare the spreadsheet will calculate QMED for 50ha and scale the results automatically to the defined Site Area
- Note 4 QMED is calculated using the statistical equation as revised by Kjeldsen in 2008

$$Q_{MED} = 8.3062AREA^{0.8510} \cdot 0.1536^{(1000/SAAR)} \cdot FARL^{3.4451} \cdot 0.0460^{BFIHOST^2}$$

[Rainfall runoff management for developments.pdf](#)

It is reproduced as Equation 24.2 in the SUDS Manual (pg 512)

- Note 5 QBAR is calculated by dividing QMED by the growth factor for the 2 year event, as per the methodology set out in paragraph 6.2.2 of 'Rainfall runoff management for developments' . QBAR is then used as the index flood for the basis of applying the growth factors.

FEH Greenfield Runoff

Using the 2008 Statistical Method QMED Equation



Project Title	East Pye Solar DCO - Greenfield Runoff - Project Substation 132kV Sub-Site 4B	
Project No	333103270	100.06

Methodology as set out in SuDS Manual 24.3.2

[SU DS Manual Chapter 24](#)

1 Retrieve FEH Catchment Information

Define BFIHOST definition source

Catchment Descriptors

BFIHOST	FEH	see note 1
SAAR	0.600	see note 1
FARL	601	see note 2
	1.0	

2 Derive QBAR (mean annual flood)

Define area

FEH Index Flood (SuDS Manual Equation 24.2)

Calculate QBAR by dividing QMED by 2yr growth factor

Site Area	0.50	ha
Applied Area	50.0	ha
QMED (Q ₂)	0.7	l/s
QBAR	0.8	l/s

3 Select appropriate growth factors

FSR Hydrological Region

100yr Growth Curve Factor

30yr Growth Curve Factor

10yr Growth Curve Factor

2yr Growth Curve Factor

1yr Growth Curve Factor

GQ ₁₀₀	5
GQ ₃₀	3.56
GQ ₁₀	2.55
GQ ₂	1.65
GQ ₁	0.89
	0.87

(refer to FSR Hydrological Region tab)



4 Derive Flood Frequency

Greenfield Runoff per 1ha

100yr Peak Runoff Rate

30yr Peak Runoff Rate

10yr Growth Curve Rate

QBAR Peak Runoff Rate

2yr Peak Runoff Rate

1yr Peak Runoff Rate

Q ₁₀₀	2.7	ha
Q ₃₀	1.9	ha
Q ₁₀	1.2	ha
QBAR	0.8	ha
Q ₂	0.7	ha
Q ₁	0.7	ha

DOCUMENT ISSUE RECORD

Rev	Comments	Prepared	Date	Checked	Date
-	Original calculation	E Edney	08/09/2026	A Johnson	08/09/2026

- Notes This spreadsheet has been created to allow derivation of greenfield runoff rates using the FEH statistical method applied in a manner consistent with the recommendations of the SuDS Manual. If you have recommendations to improve this spreadsheet please contact Alex Bearne.
- Note 1 FEH Web version 3 allows extraction of BFIHOST and SAAR values for each square kilometre grid Export point data from FEH Webs Service as .XML file and save in project folder and import in the FEH Point Data Import tab. If you do not think the BFIHOST value is representative of your site then it is possible to derive it manually. This should not normally be necessary. BFI can be derived manually using the methodology set out in the Flood Estimation Handbook (see Manual Derivation of BFIHOST tab) or can be defined from ground investigation information.
As default the sheet references the imported FEH data
- Note 2 FARL value is a measure of attenuation from reservoirs and lakes for the majority of studies this should be set to 1 (representing no attenuation). If your site includes a large water body with an attenuating affect on runoff please consult a hydrologist.
FARL is a measurement of studies water bodies in the catchment so that their attenuation effects so this term becomes 1.0 and therefore drops out. (see page 23 of the Preliminary rainfall runoff management for developments EA/Defra 2013)
[Rainfall runoff management for developments.pdf](#)
- Note 3 If the site area is less than 50 hectare the spreadsheet will calculate QMED for 50ha and scale the results automatically to the defined Site Area
- Note 4 QMED is calculated using the statistical equation as revised by Kjeldsen in 2008

$$Q_{MED} = 8.3062AREA^{0.8510} \cdot 0.1536^{(1000/SAAR)} \cdot FARL^{3.4451} \cdot 0.0460^{BFIHOST^2}$$

[Rainfall runoff management for developments.pdf](#)

It is reproduced as Equation 24.2 in the SUDS Manual (pg 512)

- Note 5 QBAR is calculated by dividing QMED by the growth factor for the 2 year event, as per the methodology set out in paragraph 6.2.2 of 'Rainfall runoff management for developments' . QBAR is then used as the index flood for the basis of applying the growth factors.

FEH Greenfield Runoff

Using the 2008 Statistical Method QMED Equation



Project Title	East Pye Solar DCO - Greenfield Runoff - Project Substation 400kV Sub-Site 5A	
Project No	333103270	100.06

Methodology as set out in SuDS Manual 24.3.2

[SU DS Manual Chapter 24](#)

1 Retrieve FEH Catchment Information

Define BFIHOST definition source

Catchment Descriptors

	FEH	see note 1
BFIHOST	0.437	
SAAR	598	see note 1
FARL	1.0	see note 2

2 Derive QBAR (mean annual flood)

Define area

	Site Area	3.50	ha	
	Applied Area	50.0	ha	see note 3
FEH Index Flood (SuDS Manual Equation 24.2)	QMED (Q ₂)	7.8	l/s	see note 4
Calculate QBAR by dividing QMED by 2yr growth factor	QBAR	8.8	l/s	see note 5

3 Select appropriate growth factors

FSR Hydrological Region		5
100yr Growth Curve Factor	GQ ₁₀₀	3.56
30yr Growth Curve Factor	GQ ₃₀	2.55
10yr Growth Curve Factor	GQ ₁₀	1.65
2yr Growth Curve Factor	GQ ₂	0.89
1yr Growth Curve Factor	GQ ₁	0.87

(refer to FSR Hydrological Region tab)



4 Derive Flood Frequency

Greenfield Runoff per 1ha

100yr Peak Runoff Rate	Q ₁₀₀	31.2	ha
30yr Peak Runoff Rate	Q ₃₀	22.4	ha
10yr Growth Curve Rate	Q ₁₀	14.5	ha
QBAR Peak Runoff Rate	QBAR	8.8	ha
2yr Peak Runoff Rate	Q ₂	7.8	ha
1yr Peak Runoff Rate	Q ₁	7.6	ha

DOCUMENT ISSUE RECORD

Rev	Comments	Prepared	Date	Checked	Date
-	Original calculation	E Edney	08/09/2026	A Johnson	08/09/2026

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As default the sheet references the imported FEH data
- Note 2 FARL value is a measure of attenuation from reservoirs and lakes for the majority of studies this should be set to 1 (representing no attenuation). If your site includes a large water body with an attenuating affect on runoff please consult a hydrologist.
FARL is a measurement of studies water bodies in the catchment so that their attenuation effects so this term becomes 1.0 and therefore drops out. (see page 23 of the Preliminary rainfall runoff management for developments EA/Defra 2013)
[Rainfall runoff management for developments.pdf](#)
- Note 3 If the site area is less than 50 hectare the spreadsheet will calculate QMED for 50ha and scale the results automatically to the defined Site Area
- Note 4 QMED is calculated using the statistical equation as revised by Kjeldsen in 2008

$$Q_{MED} = 8.3062AREA^{0.8510} \cdot 0.1536^{(1000/SAAR)} \cdot FARL^{3.4451} \cdot 0.0460^{BFIHOST^2}$$

[Rainfall runoff management for developments.pdf](#)

It is reproduced as Equation 24.2 in the SUDS Manual (pg 512)

- Note 5 QBAR is calculated by dividing QMED by the growth factor for the 2 year event, as per the methodology set out in paragraph 6.2.2 of 'Rainfall runoff management for developments' . QBAR is then used as the index flood for the basis of applying the growth factors.

FEH Greenfield Runoff

Using the 2008 Statistical Method QMED Equation



Project Title	East Pye Solar DCO - Greenfield Runoff - Project Substation 132kV Sub-Site 7F	
Project No	333103270	100.06

Methodology as set out in SuDS Manual 24.3.2

[SU DS Manual Chapter 24](#)

1 Retrieve FEH Catchment Information

Define BFIHOST definition source

Catchment Descriptors

	FEH	see note 1
BFIHOST	0.385	
SAAR	599	see note 1
FARL	1.0	see note 2

2 Derive QBAR (mean annual flood)

Define area

	Site Area	0.75	ha	
	Applied Area	50.0	ha	see note 3
FEH Index Flood (SuDS Manual Equation 24.2)	QMED (Q ₂)	1.9	l/s	see note 4
Calculate QBAR by dividing QMED by 2yr growth factor	QBAR	2.2	l/s	see note 5

3 Select appropriate growth factors

FSR Hydrological Region		5
100yr Growth Curve Factor	GQ ₁₀₀	3.56
30yr Growth Curve Factor	GQ ₃₀	2.55
10yr Growth Curve Factor	GQ ₁₀	1.65
2yr Growth Curve Factor	GQ ₂	0.89
1yr Growth Curve Factor	GQ ₁	0.87

(refer to FSR Hydrological Region tab)



4 Derive Flood Frequency

Greenfield Runoff per 1ha

100yr Peak Runoff Rate	Q ₁₀₀	7.7	ha
30yr Peak Runoff Rate	Q ₃₀	5.5	ha
10yr Growth Curve Rate	Q ₁₀	3.6	ha
QBAR Peak Runoff Rate	QBAR	2.2	ha
2yr Peak Runoff Rate	Q ₂	1.9	ha
1yr Peak Runoff Rate	Q ₁	1.9	ha

DOCUMENT ISSUE RECORD

Rev	Comments	Prepared	Date	Checked	Date
-	Original calculation	E Edney	08/09/2026	A Johnson	08/09/2026

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As default the sheet references the imported FEH data
- Note 2 FARL value is a measure of attenuation from reservoirs and lakes for the majority of studies this should be set to 1 (representing no attenuation). If your site includes a large water body with an attenuating affect on runoff please consult a hydrologist.
FARL is a measurement of studies water bodies in the catchment so that their attenuation effects so this term becomes 1.0 and therefore drops out. (see page 23 of the Preliminary rainfall runoff management for developments EA/Defra 2013)
[Rainfall runoff management for developments.pdf](#)
- Note 3 If the site area is less than 50 hectare the spreadsheet will calculate QMED for 50ha and scale the results automatically to the defined Site Area
- Note 4 QMED is calculated using the statistical equation as revised by Kjeldsen in 2008

$$Q_{MED} = 8.3062AREA^{0.8510} \cdot 0.1536^{(1000/SAAR)} \cdot FARL^{3.4451} \cdot 0.0460^{BFIHOST^2}$$

[Rainfall runoff management for developments.pdf](#)

It is reproduced as Equation 24.2 in the SUDS Manual (pg 512)

- Note 5 QBAR is calculated by dividing QMED by the growth factor for the 2 year event, as per the methodology set out in paragraph 6.2.2 of 'Rainfall runoff management for developments' . QBAR is then used as the index flood for the basis of applying the growth factors.

Project Title	East Pye Solar DCO - Greenfield Runoff - Project Substation 132kV Sub-Site 10C	
Project No	333103270	100.06

Methodology as set out in SuDS Manual 24.3.2

[SU DS Manual Chapter 24](#)

1 Retrieve FEH Catchment Information

Define BFIHOST definition source		FEH	see note 1
Catchment Descriptors	BFIHOST	0.412	
	SAAR	607	see note 1
	FARL	1.0	see note 2

2 Derive QBAR (mean annual flood)

Define area	Site Area	0.50	ha	
	Applied Area	50.0	ha	see note 3
FEH Index Flood (SuDS Manual Equation 24.2)	QMED (Q ₂)	1.2	l/s	see note 4
Calculate QBAR by dividing QMED by 2yr growth factor	QBAR	1.4	l/s	see note 5

3 Select appropriate growth factors

FSR Hydrological Region		5
100yr Growth Curve Factor	GQ ₁₀₀	3.56
30yr Growth Curve Factor	GQ ₃₀	2.55
10yr Growth Curve Factor	GQ ₁₀	1.65
2yr Growth Curve Factor	GQ ₂	0.89
1yr Growth Curve Factor	GQ ₁	0.87

(refer to FSR Hydrological Region tab)



4 Derive Flood Frequency

Greenfield Runoff per 1ha

100yr Peak Runoff Rate	Q ₁₀₀	5.0	ha
30yr Peak Runoff Rate	Q ₃₀	3.6	ha
10yr Growth Curve Rate	Q ₁₀	2.3	ha
QBAR Peak Runoff Rate	QBAR	1.4	ha
2yr Peak Runoff Rate	Q ₂	1.2	ha
1yr Peak Runoff Rate	Q ₁	1.2	ha

DOCUMENT ISSUE RECORD

Rev	Comments	Prepared	Date	Checked	Date
-	Original calculation	E Edney	08/09/2026	A Johnson	08/09/2026

- Notes This spreadsheet has been created to allow derivation of greenfield runoff rates using the FEH statistical method applied in a manner consistent with the recommendations of the SuDS Manual. If you have recommendations to improve this spreadsheet please contact Alex Bearne.
- Note 1 FEH Web version 3 allows extraction of BFIHOST and SAAR values for each square kilometre grid Export point data from FEH Webs Service as .XML file and save in project folder and import in the FEH Point Data Import tab. If you do not think the BFIHOST value is representative of your site then it is possible to derive it manually. This should not normally be necessary. BFI can be derived manually using the methodology set out in the Flood Estimation Handbook (see Manual Derivation of BFIHOST tab) or can be defined from ground investigation information.
As default the sheet references the imported FEH data
- Note 2 FARL value is a measure of attenuation from reservoirs and lakes for the majority of studies this should be set to 1 (representing no attenuation). If your site includes a large water body with an attenuating affect on runoff please consult a hydrologist.
FARL is a measurement of studies water bodies in the catchment so that their attenuation effects so this term becomes 1.0 and therefore drops out. (see page 23 of the Preliminary rainfall runoff management for developments EA/Defra 2013)
[Rainfall runoff management for developments.pdf](#)
- Note 3 If the site area is less than 50 hectare the spreadsheet will calculate QMED for 50ha and scale the results automatically to the defined Site Area
- Note 4 QMED is calculated using the statistical equation as revised by Kjeldsen in 2008

$$Q_{MED} = 8.3062AREA^{0.8510} \cdot 0.1536^{(1000/SAAR)} \cdot FARL^{3.4451} \cdot 0.0460^{BFIHOST^2}$$

[Rainfall runoff management for developments.pdf](#)

It is reproduced as Equation 24.2 in the SUDS Manual (pg 512)

- Note 5 QBAR is calculated by dividing QMED by the growth factor for the 2 year event, as per the methodology set out in paragraph 6.2.2 of 'Rainfall runoff management for developments' . QBAR is then used as the index flood for the basis of applying the growth factors.

East Pye Solar DCO: Outline Surface Water Drainage BESS, National Grid Substation & Project Substations BESS Site and Sub-Site 1B	Date: 04/03/0026		
	Designed by: EE	Checked by: AJ	Approved By: ID
Report Details: Type: Inflows Storm Phase: BESS and Sub-Site 1B_Mar26	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		



CA BESS

Type : Catchment Area

Area (ha)	6.50
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Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



CA National Grid Substation

Type : Catchment Area

Area (ha)	6.00
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Preliminary Sizing

Volumetric Runoff Coefficient	0.750
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

East Pye Solar DCO: Outline Surface Water Drainage BESS, National Grid Substation & Project Substations BESS Site and Sub-Site 1B	Date: 04/03/0026		
	Designed by: EE	Checked by: AJ	Approved By: ID
Report Details: Type: Inflows Storm Phase: BESS and Sub-Site 1B_Mar26	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		



CA 400kV Project Substation Sub-Site 1B

Type : Catchment Area

Area (ha)	1.10
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Preliminary Sizing

Volumetric Runoff Coefficient	0.750
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



CA 400kV Project Substation BESS Site

Type : Catchment Area

Area (ha)	3.00
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Preliminary Sizing

Volumetric Runoff Coefficient	0.750
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

East Pye Solar DCO: Outline Surface Water Drainage BESS, National Grid Substation & Project Substations BESS Site and Sub-Site 1B				Date: 04/03/0026				
Designed by: EE		Checked by: AJ		Approved By: ID				
Report Details: Type: Junctions Storm Phase: BESS and Sub-Site 1B_Mar26				Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN				

Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)	
OF BESS	Simple Junction	617093.947	288726.490						
BESS FC	Manhole	617121.538	288677.894	54.550	1.130	53.420	Circular	3.000	None
NG SS FC	Manhole	616856.302	289205.618	55.700	0.870	54.830	Circular	3.000	None
OF NG	Simple Junction	616833.537	289117.073						
OF PSS1B	Simple Junction	617084.320	289206.805						
PSS1B FC	Manhole	617101.754	289220.610	55.800	0.720	55.080	Circular	1.200	None
OF PSS BESS Site	Simple Junction	617432.540	288303.347						
PSS BESS Site FC	Manhole	617386.046	288318.541	54.480	0.700	53.780	Circular	3.000	None

East Pye Solar DCO: Outline Surface Water Drainage BESS, National Grid Substation & Project Substations BESS Site and Sub-Site 1B	Date: 04/03/0026		
	Designed by: EE	Checked by: AJ	Approved By: ID
Report Details: Type: Stormwater Controls Storm Phase: BESS and Sub-Site 1B_Mar26	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		



BESS

Type : Porous Paving

Dimensions	
Exceedance Level (m)	54.550
Depth (m)	0.650
Base Level (m)	53.900
Paving Layer Depth (mm)	80
Membrane Percolation (m/hr)	32.4
Porosity (%)	30
Length (m)	318.500
Long. Slope (1:X)	430.00
Width (m)	204.058
Total Volume (m³)	11116.341
Under Drain	
Height Above Base (m)	0.000
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6
Inlets	
Inlet	
Inlet Type	Lateral Inflow
Incoming Item(s)	CA BESS
Bypass Destination	(None)
Capacity Type	No Restriction

East Pye Solar DCO: Outline Surface Water Drainage BESS, National Grid Substation & Project Substations BESS Site and Sub-Site 1B	Date: 04/03/0026		
	Designed by: EE	Checked by: AJ	Approved By: ID
	Report Details: Type: Stormwater Controls Storm Phase: BESS and Sub-Site 1B_Mar26		
Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			

Outlets

Outlet

Outgoing Connection	1.000
Outlet Type	Free Discharge

Advanced

Conductivity (m/hr)	50.0
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National Grid Substation

Type : Porous Paving

Dimensions

Exceedance Level (m)	55.700
Depth (m)	0.650
Base Level (m)	55.050
Paving Layer Depth (mm)	80
Membrane Percolation (m/hr)	34.2
Porosity (%)	30
Length (m)	368.409
Long. Slope (1:X)	470.00
Width (m)	162.869
Total Volume (m³)	10263.272

Under Drain

Height Above Base (m)	0.000
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

East Pye Solar DCO: Outline Surface Water Drainage BESS, National Grid Substation & Project Substations BESS Site and Sub-Site 1B		Date: 04/03/0026			
		Designed by: EE	Checked by: AJ		Approved By: ID
Report Details: Type: Stormwater Controls Storm Phase: BESS and Sub-Site 1B_Mar26		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			

Inlets

Inlet

Inlet Type	Lateral Inflow
Incoming Item(s)	CA National Grid Substation
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	3.000
Outlet Type	Free Discharge

Advanced

Conductivity (m/hr)	50.0
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400kV Project Substation Sub-Site 1B

Type : Porous Paving

Dimensions

Exceedance Level (m)	55.800
Depth (m)	0.700
Base Level (m)	55.100
Paving Layer Depth (mm)	80
Membrane Percolation (m/hr)	34.2
Porosity (%)	30
Length (m)	148.332
Long. Slope (1:X)	600.00
Width (m)	74.154
Total Volume (m³)	2047.728

East Pye Solar DCO: Outline Surface Water Drainage BESS, National Grid Substation & Project Substations BESS Site and Sub-Site 1B	Date: 04/03/0026		
	Designed by: EE	Checked by: AJ	Approved By: ID
Report Details: Type: Stormwater Controls Storm Phase: BESS and Sub-Site 1B_Mar26	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		



Under Drain

Height Above Base (m)	0.000
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Inlets

Inlet

Inlet Type	Lateral Inflow
Incoming Item(s)	CA 400kV Project Substation Sub-Site 1B
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	4.000
Outlet Type	Free Discharge

Advanced

Conductivity (m/hr)	50.0
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400kV Project Substation BESS Site

Type : Porous Paving

East Pye Solar DCO: Outline Surface Water Drainage BESS, National Grid Substation & Project Substations BESS Site and Sub-Site 1B	Date: 04/03/0026		
	Designed by: EE	Checked by: AJ	Approved By: ID
Report Details: Type: Stormwater Controls Storm Phase: BESS and Sub-Site 1B_Mar26	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		



Dimensions

Exceedance Level (m)	54.480
Depth (m)	0.660
Base Level (m)	53.820
Paving Layer Depth (mm)	80
Membrane Percolation (m/hr)	34.2
Porosity (%)	30
Length (m)	278.021
Long. Slope (1:X)	480.00
Width (m)	107.892
Total Volume (m³)	5222.353

Under Drain

Height Above Base (m)	0.000
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Colebrook-White Roughness
Roughness (mm)	0.6

Inlets

Inlet

Inlet Type	Lateral Inflow
Incoming Item(s)	CA 400kV Project Substation BESS Site
Bypass Destination	(None)
Capacity Type	No Restriction

East Pye Solar DCO: Outline Surface Water Drainage BESS, National Grid Substation & Project Substations BESS Site and Sub-Site 1B	Date: 04/03/0026			
	Designed by: EE	Checked by: AJ	Approved By: ID	
	Report Details: Type: Stormwater Controls Storm Phase: BESS and Sub-Site 1B_Mar26			
			Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN	

Outlets

Outlet	
Outgoing Connection	2.000
Outlet Type	Free Discharge

Advanced

Conductivity (m/hr)	50.0
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East Pye Solar DCO: Outline Surface Water Drainage BESS, National Grid Substation & Project Substations BESS Site and Sub-Site 1B		Date: 04/03/0026			
		Designed by: EE	Checked by: AJ		Approved By: ID
Report Details: Type: Connections Storm Phase: BESS and Sub-Site 1B_Mar26		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			

Name	Length (m)	Connection Type	Slope (1:X)	Manning's n	Colebrook-White Roughness (mm)	Diameter / Base Width (mm)	Upstream Cover Level (m)	Upstream Invert Level (m)	Downstream Cover Level (m)	Downstream Invert Level (m)	Lock	Flow Restriction (L/s)
1.000	37.035	Pipe	77.156		0.6	150	54.550	53.900	54.550	53.420	None	
1.001	55.882	Pipe	96.349		0.6	150	54.550	53.420	54.390	52.840	None	23.5
3.000	16.459	Pipe	74.813		0.6	150	55.700	55.050	55.700	54.830	None	
3.001	91.425	Pipe	99.375		0.6	150	55.700	54.830	55.450	53.910	None	21.7
4.000	1.880	Pipe	93.999		0.6	150	55.800	55.100	55.800	55.080	None	
4.001	22.238	Pipe	96.688		0.6	150	55.800	55.080	55.600	54.850	None	3.6
2.000	5.439	Pipe	135.977		0.6	150	54.480	53.820	54.480	53.780	None	
2.001	48.914	Pipe	84.334		0.6	150	54.480	53.780	53.920	53.200	None	9.9

Name	Culvert Type	Culvert Entrance
1.000	(None)	(None)
1.001	(None)	(None)
3.000	(None)	(None)
3.001	(None)	(None)
4.000	(None)	(None)
4.001	(None)	(None)
2.000	(None)	(None)
2.001	(None)	(None)

East Pye Solar DCO: Outline Surface Water Drainage BESS, National Grid Substation & Project Substations BESS Site and Sub-Site 1B	Date: 04/03/0026		
	Designed by: EE	Checked by: AJ	Approved By: ID
Report Details: Type: Junctions Summary Storm Phase: BESS and Sub-Site 1B_Mar26	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		



FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
OF BESS	FEH: 2 years: +0 %: 10080 mins: Summer		52.840	52.930	0.090	12.3	4010.159	OK
BESS FC	FEH: 2 years: +0 %: 10080 mins: Summer	54.550	53.420	53.674	0.254	12.3	4010.182	Surcharged
NG SS FC	FEH: 2 years: +0 %: 10080 mins: Summer	55.700	54.830	55.072	0.242	11.1	3702.110	Surcharged
OF NG	FEH: 2 years: +0 %: 10080 mins: Summer		53.910	53.995	0.085	11.1	3702.077	OK
OF PSS1B	FEH: 2 years: +0 %: 2160 mins: Summer		54.850	54.892	0.042	3.1	381.312	OK
PSS1B FC	FEH: 2 years: +0 %: 2160 mins: Summer	55.800	55.080	55.263	0.183	3.1	381.330	Surcharged
OF PSS BESS Site	FEH: 2 years: +0 %: 10080 mins: Summer		53.200	53.262	0.062	6.9	1896.087	OK
PSS BESS Site FC	FEH: 2 years: +0 %: 10080 mins: Summer	54.480	53.780	53.991	0.211	6.9	1896.097	Surcharged

East Pye Solar DCO: Outline Surface Water Drainage BESS, National Grid Substation & Project Substations BESS Site and Sub-Site 1B	Date: 04/03/0026		
	Designed by: EE	Checked by: AJ	Approved By: ID
Report Details: Type: Junctions Summary Storm Phase: BESS and Sub-Site 1B_Mar26	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		



FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
OF BESS	FEH: 30 years: +0 %: 720 mins: Winter		52.840	52.950	0.110	16.3	1088.789	OK
BESS FC	FEH: 30 years: +0 %: 720 mins: Winter	54.550	53.420	53.742	0.322	16.3	1089.183	Surcharged
NG SS FC	FEH: 30 years: +0 %: 960 mins: Winter	55.700	54.830	55.116	0.286	13.7	1204.881	Surcharged
OF NG	FEH: 30 years: +0 %: 960 mins: Winter		53.910	54.008	0.098	13.7	1204.350	OK
OF PSS1B	FEH: 30 years: +0 %: 2160 mins: Summer		54.850	54.895	0.045	3.6	550.775	OK
PSS1B FC	FEH: 30 years: +0 %: 4320 mins: Summer	55.800	55.080	55.394	0.314	3.6	922.637	Surcharged
OF PSS BESS Site	FEH: 30 years: +0 %: 2880 mins: Winter		53.200	53.272	0.072	9.1	2091.947	OK
PSS BESS Site FC	FEH: 30 years: +0 %: 2880 mins: Winter	54.480	53.780	54.058	0.278	9.1	2092.047	Surcharged

East Pye Solar DCO: Outline Surface Water Drainage BESS, National Grid Substation & Project Substations BESS Site and Sub-Site 1B	Date: 04/03/0026		
	Designed by: EE	Checked by: AJ	Approved By: ID
Report Details: Type: Junctions Summary Storm Phase: BESS and Sub-Site 1B_Mar26	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		



FEH: 30 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
OF BESS	FEH: 30 years: +40 %: 960 mins: Winter		52.840	52.957	0.117	17.4	1586.009	OK
BESS FC	FEH: 30 years: +40 %: 960 mins: Winter	54.550	53.420	53.766	0.346	17.4	1586.417	Surcharged
NG SS FC	FEH: 30 years: +40 %: 960 mins: Winter	55.700	54.830	55.154	0.324	15.7	1389.905	Surcharged
OF NG	FEH: 30 years: +40 %: 960 mins: Winter		53.910	54.018	0.108	15.7	1389.322	OK
OF PSS1B	FEH: 30 years: +40 %: 4320 mins: Winter		54.850	54.895	0.045	3.6	1181.334	OK
PSS1B FC	FEH: 30 years: +40 %: 4320 mins: Winter	55.800	55.080	55.480	0.400	3.6	1181.383	Surcharged
OF PSS BESS Site	FEH: 30 years: +40 %: 8640 mins: Winter		53.200	53.275	0.075	9.9	4179.151	OK
PSS BESS Site FC	FEH: 30 years: +40 %: 8640 mins: Winter	54.480	53.780	54.109	0.329	9.9	4179.161	Surcharged

East Pye Solar DCO: Outline Surface Water Drainage BESS, National Grid Substation & Project Substations BESS Site and Sub-Site 1B	Date: 04/03/0026		
	Designed by: EE	Checked by: AJ	Approved By: ID
Report Details: Type: Junctions Summary Storm Phase: BESS and Sub-Site 1B_Mar26	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		



FEH: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
OF BESS	FEH: 100 years: +0 %: 1440 mins: Summer		52.840	52.958	0.118	17.6	2373.259	OK
BESS FC	FEH: 100 years: +0 %: 1440 mins: Summer	54.550	53.420	53.769	0.349	17.6	2373.662	Surcharged
NG SS FC	FEH: 100 years: +0 %: 1440 mins: Winter	55.700	54.830	55.158	0.328	15.9	2102.320	Surcharged
OF NG	FEH: 100 years: +0 %: 1440 mins: Winter		53.910	54.019	0.109	15.9	2101.749	OK
OF PSS1B	FEH: 100 years: +0 %: 8640 mins: Winter		54.850	54.895	0.045	3.6	1458.062	OK
PSS1B FC	FEH: 100 years: +0 %: 7200 mins: Summer	55.800	55.080	55.455	0.375	3.6	1427.609	Surcharged
OF PSS BESS Site	FEH: 100 years: +0 %: 7200 mins: Summer		53.200	53.275	0.075	9.9	3841.841	OK
PSS BESS Site FC	FEH: 100 years: +0 %: 5760 mins: Winter	54.480	53.780	54.199	0.419	9.9	3716.105	Surcharged

East Pye Solar DCO: Outline Surface Water Drainage BESS, National Grid Substation & Project Substations BESS Site and Sub-Site 1B	Date: 04/03/0026		
	Designed by: EE	Checked by: AJ	Approved By: ID
Report Details: Type: Junctions Summary Storm Phase: BESS and Sub-Site 1B_Mar26	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		



FEH: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
OF BESS	FEH: 100 years: +45 %: 480 mins: Summer		52.840	52.990	0.150	19.0	858.439	OK
BESS FC	FEH: 100 years: +45 %: 1440 mins: Winter	54.550	53.420	53.860	0.440	18.8	2675.186	Surcharged
NG SS FC	FEH: 100 years: +45 %: 2160 mins: Winter	55.700	54.830	55.228	0.398	18.7	3711.840	Surcharged
OF NG	FEH: 100 years: +45 %: 1440 mins: Winter		53.910	54.060	0.150	18.7	2505.551	OK
OF PSS1B	FEH: 100 years: +45 %: 8640 mins: Winter		54.850	54.895	0.045	3.6	2110.042	OK
PSS1B FC	FEH: 100 years: +45 %: 7200 mins: Summer	55.800	55.080	55.591	0.511	3.6	2030.394	Surcharged
OF PSS BESS Site	FEH: 100 years: +45 %: 8640 mins: Winter		53.200	53.275	0.075	9.9	5708.278	OK
PSS BESS Site FC	FEH: 100 years: +45 %: 8640 mins: Winter	54.480	53.780	54.321	0.541	9.9	5708.295	Surcharged

East Pye Solar DCO: Outline Surface Water Drainage BESS, National Grid Substation & Project Substations BESS Site and Sub-Site 1B		Date: 04/03/0026			
		Designed by: EE	Checked by: AJ		Approved By: ID
Report Details: Type: Stormwater Controls Summary Storm Phase: BESS and Sub-Site 1B_Mar26		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
BESS	FEH: 2 years: +0 %: 10080 mins: Summer	54.710	53.986	0.070	0.086	27.4	2084.842	0.000	12.3	4010.471		OK
National Grid Substation	FEH: 2 years: +0 %: 10080 mins: Summer	55.903	55.136	0.069	0.086	25.3	1913.580	0.000	11.1	3702.362		OK
400kV Project Substation Sub-Site 1B	FEH: 2 years: +0 %: 720 mins: Winter	55.404	55.258	0.057	0.158	20.2	293.350	0.000	3.0	176.657		OK
400kV Project Substation BESS Site	FEH: 2 years: +0 %: 5760 mins: Summer	54.456	53.999	0.057	0.179	17.5	904.013	0.000	6.8	1450.413		OK

East Pye Solar DCO: Outline Surface Water Drainage BESS, National Grid Substation & Project Substations BESS Site and Sub-Site 1B		Date: 04/03/0026			
		Designed by: EE	Checked by: AJ		Approved By: ID
Report Details: Type: Stormwater Controls Summary Storm Phase: BESS and Sub-Site 1B_Mar26		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
BESS	FEH: 30 years: +0 %: 1440 mins: Winter	54.794	54.061	0.153	0.161	135.4	3819.094	0.000	16.2	2072.163		OK
National Grid Substation	FEH: 30 years: +0 %: 1440 mins: Winter	55.985	55.224	0.151	0.174	125.0	3585.837	0.000	13.7	1794.711		OK
400kV Project Substation Sub-Site 1B	FEH: 30 years: +0 %: 1440 mins: Summer	55.438	55.413	0.091	0.313	35.5	645.459	0.000	3.6	334.115		OK
400kV Project Substation BESS Site	FEH: 30 years: +0 %: 1440 mins: Winter	54.513	54.068	0.114	0.248	62.5	1759.844	0.000	8.8	1122.941		OK

East Pye Solar DCO: Outline Surface Water Drainage BESS, National Grid Substation & Project Substations BESS Site and Sub-Site 1B		Date: 04/03/0026			
		Designed by: EE	Checked by: AJ		Approved By: ID
Report Details: Type: Stormwater Controls Summary Storm Phase: BESS and Sub-Site 1B_Mar26		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



FEH: 30 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
BESS	FEH: 30 years: +40 %: 2160 mins: Winter	54.860	54.130	0.220	0.230	135.6	5565.331	0.000	17.2	3496.316	35	OK
National Grid Substation	FEH: 30 years: +40 %: 2160 mins: Winter	56.051	55.293	0.217	0.243	125.2	5193.057	0.000	15.5	3034.743	110	OK
400kV Project Substation Sub-Site 1B	FEH: 30 years: +40 %: 1440 mins: Summer	55.514	55.502	0.167	0.402	49.7	943.245	0.000	3.6	372.708		OK
400kV Project Substation BESS Site	FEH: 30 years: +40 %: 1440 mins: Winter	54.579	54.140	0.180	0.320	87.5	2519.858	0.000	9.9	1320.643		OK

East Pye Solar DCO: Outline Surface Water Drainage BESS, National Grid Substation & Project Substations BESS Site and Sub-Site 1B		Date: 04/03/0026			
		Designed by: EE	Checked by: AJ		Approved By: ID
Report Details: Type: Stormwater Controls Summary Storm Phase: BESS and Sub-Site 1B_Mar26		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



FEH: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
BESS	FEH: 100 years: +0 %: 2160 mins: Winter	54.876	54.145	0.235	0.245	142.8	5904.142	0.000	17.5	3560.770	380	OK
National Grid Substation	FEH: 100 years: +0 %: 2160 mins: Winter	56.066	55.306	0.232	0.256	131.8	5499.622	0.000	15.8	3105.770	445	OK
400kV Project Substation Sub-Site 1B	FEH: 100 years: +0 %: 2160 mins: Winter	55.530	55.518	0.183	0.418	24.2	997.223	0.000	3.6	575.599		OK
400kV Project Substation BESS Site	FEH: 100 years: +0 %: 2160 mins: Winter	54.572	54.217	0.173	0.397	65.9	2726.646	0.000	9.9	1585.082	310	OK

East Pye Solar DCO: Outline Surface Water Drainage BESS, National Grid Substation & Project Substations BESS Site and Sub-Site 1B		Date: 04/03/0026			
		Designed by: EE	Checked by: AJ		Approved By: ID
Report Details: Type: Stormwater Controls Summary Storm Phase: BESS and Sub-Site 1B_Mar26		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



FEH: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
BESS	FEH: 100 years: +45 %: 2160 mins: Winter	55.024	54.285	0.384	0.385	207.1	8982.433	0.000	18.8	3999.070		OK
National Grid Substation	FEH: 100 years: +45 %: 2160 mins: Winter	56.213	55.430	0.379	0.380	191.2	8256.295	0.000	18.7	3714.222		OK
400kV Project Substation Sub-Site 1B	FEH: 100 years: +45 %: 2160 mins: Winter	55.687	55.671	0.340	0.571	35.0	1511.414	0.000	3.6	679.821		OK
400kV Project Substation BESS Site	FEH: 100 years: +45 %: 2160 mins: Summer	54.712	54.379	0.313	0.559	148.1	4187.852	0.000	10.0	1782.826		OK

East Pye Solar DCO: Outline Surface Water Drainage BESS, National Grid Substation & Project Substations BESS Site and Sub-Site 1B		Date: 04/03/0026			
		Designed by: EE	Checked by: AJ		Approved By: RMF
Report Details: Type: Junctions Storm Phase: BESS and Sub-Site 1B_Mar26		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			

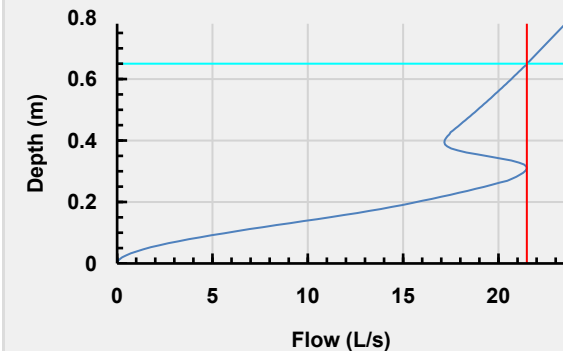
Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)	
OF BESS	Simple Junction	617093.947	288726.490						
BESS FC	Manhole	617121.538	288677.894	54.550	1.130	53.420	Circular	3.000	None
NG SS FC	Manhole	616856.302	289205.618	55.700	0.870	54.830	Circular	3.000	None
OF NG	Simple Junction	616833.537	289117.073						
OF PSS1B	Simple Junction	617084.320	289206.805						
PSS1B FC	Manhole	617101.754	289220.610	55.800	0.720	55.080	Circular	1.200	None
OF PSS BESS Site	Simple Junction	617432.540	288303.347						
PSS BESS Site FC	Manhole	617386.046	288318.541	54.480	0.700	53.780	Circular	3.000	None

Outlets

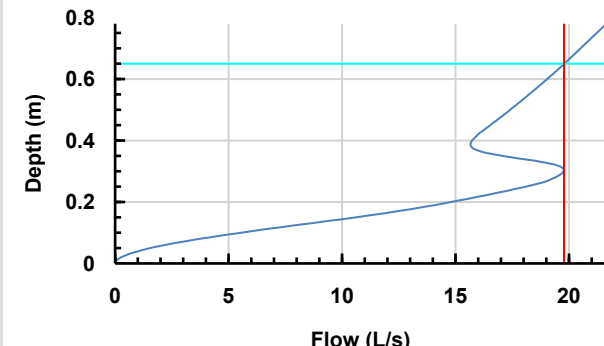
Junction	Outlet Name	Outgoing Connection	Outlet Type
	Outlet	1.001	Hydro-Brake®

East Pye Solar DCO: Outline Surface Water Drainage BESS, National Grid Substation & Project Substations BESS Site and Sub-Site 1B	Date: 04/03/0026		
	Designed by: EE	Checked by: AJ	Approved By: RMF
	Report Details: Type: Junctions Storm Phase: BESS and Sub-Site 1B_Mar26		
Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			

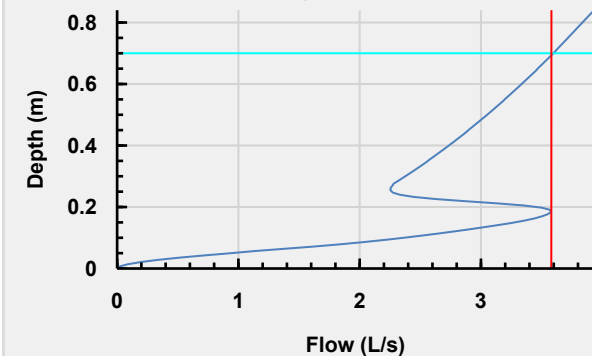


BESS FC	Junction	Outlet Name	Outgoing Connection	Outlet Type
		Invert Level (m)	53.420	
		Design Depth (m)	0.650	
		Design Flow (L/s)	21.5	
		Objective	Minimise Upstream Storage Requirements	
		Application	Surface Water Only	
		Sump Available	☐	
		Unit Reference	CHE-0200-2150-0650-2150	
				
		Outlet	3.001	Hydro-Brake®

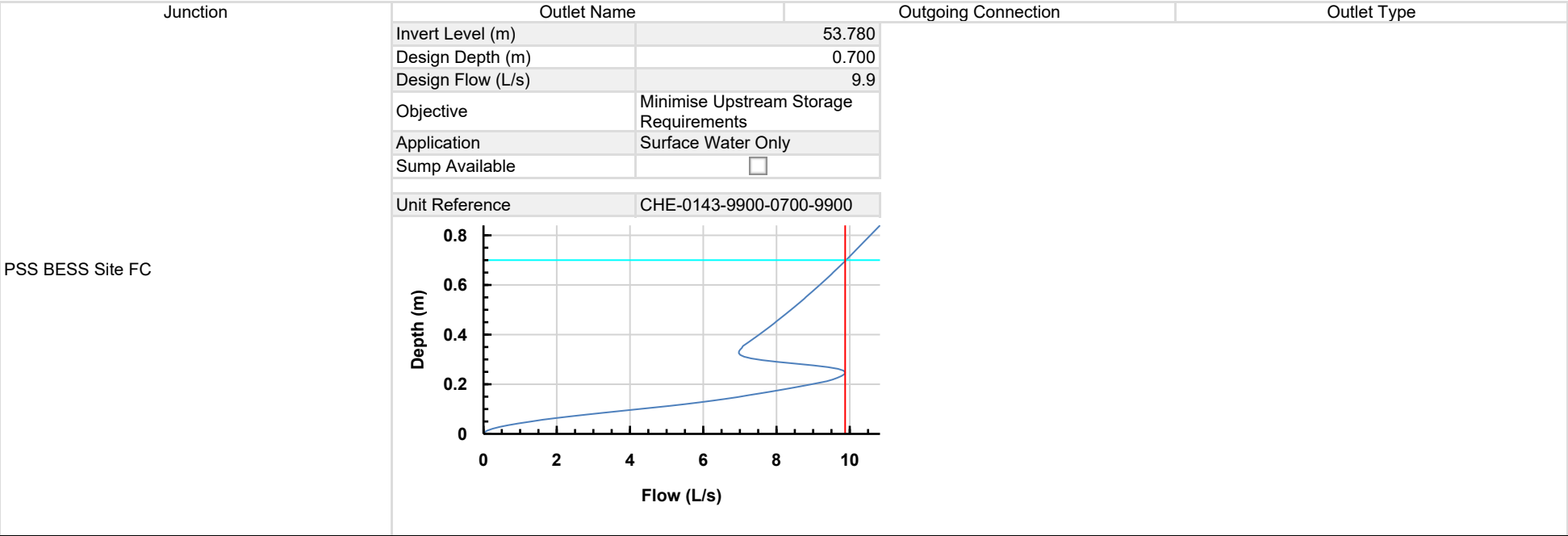
East Pye Solar DCO: Outline Surface Water Drainage BESS, National Grid Substation & Project Substations BESS Site and Sub-Site 1B		Date: 04/03/0026			
Report Details: Type: Junctions Storm Phase: BESS and Sub-Site 1B_Mar26		Designed by: EE	Checked by: AJ		Approved By: RMF
		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			

NG SS FC	Junction	Outlet Name	Outgoing Connection	Outlet Type
	Invert Level (m)	54.830		
	Design Depth (m)	0.650		
	Design Flow (L/s)	19.8		
	Objective	Minimise Upstream Storage Requirements		
	Application	Surface Water Only		
	Sump Available	☐		
	Unit Reference	CHE-0195-1980-0650-1980		
				
	Outlet	4.001	Hydro-Brake®	

East Pye Solar DCO: Outline Surface Water Drainage BESS, National Grid Substation & Project Substations BESS Site and Sub-Site 1B		Date: 04/03/0026			
Report Details: Type: Junctions Storm Phase: BESS and Sub-Site 1B_Mar26		Designed by: EE	Checked by: AJ		Approved By: RMF
		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			

PSS1B FC	Junction	Outlet Name	Outgoing Connection	Outlet Type
		Invert Level (m)	55.080	
		Design Depth (m)	0.700	
		Design Flow (L/s)	3.6	
		Objective	Minimise Upstream Storage Requirements	
		Application	Surface Water Only	
		Sump Available	☐	
		Unit Reference	CHE-0091-3600-0700-3600	
				
		Outlet	2.001	Hydro-Brake®

East Pye Solar DCO: Outline Surface Water Drainage BESS, National Grid Substation & Project Substations BESS Site and Sub-Site 1B		Date: 04/03/0026			
Report Details: Type: Junctions Storm Phase: BESS and Sub-Site 1B_Mar26		Designed by: EE	Checked by: AJ		Approved By: RMF
		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	Date: 01/09/2026			
Report Details: Type: Inflows Storm Phase: Project SS 132kV 4B w inverters	Designed by: EE	Checked by: AJ	Approved By: RF	
Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN				



132kV 4B

Type : Catchment Area

Area (ha)	0.50
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Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



CASW1

Type : Catchment Area

Area (ha)	0.036
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Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



CASW2

Type : Catchment Area

Area (ha)	0.02
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Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	Date: 01/09/2026			
Report Details: Type: Inflows Storm Phase: Project SS 132kV 4B w inverters	Designed by: EE	Checked by: AJ	Approved By: RF	
Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN				



CASW3

Type : Catchment Area

Area (ha)	0.023
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Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



CASW4

Type : Catchment Area

Area (ha)	0.039
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Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



CASW5

Type : Catchment Area

Area (ha)	0.042
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Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	Date: 01/09/2026			
Report Details: Type: Inflows Storm Phase: Project SS 132kV 4B w inverters	Designed by: EE	Checked by: AJ	Approved By: RF	
Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN				



CASW6

Type : Catchment Area

Area (ha)	0.037
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Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



CA Inv1

Type : Catchment Area

Area (ha)	0.009
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Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



CA Inv2

Type : Catchment Area

Area (ha)	0.009
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Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	Date: 01/09/2026			
Report Details: Type: Inflows Storm Phase: Project SS 132kV 4B w inverters	Designed by: EE	Checked by: AJ	Approved By: RF	
Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN				



CA Inv3

Type : Catchment Area

Area (ha)	0.009
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Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



CA Inv4

Type : Catchment Area

Area (ha)	0.009
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Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



CA Inv5

Type : Catchment Area

Area (ha)	0.009
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Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	Date: 01/09/2026			
Report Details: Type: Inflows Storm Phase: Project SS 132kV 4B w inverters	Designed by: EE	Checked by: AJ	Approved By: RF	
Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN				



CA Inv6

Type : Catchment Area

Area (ha)	0.009
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Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



CA Inv7

Type : Catchment Area

Area (ha)	0.009
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Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100



CA Inv8

Type : Catchment Area

Area (ha)	0.009
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Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	Date: 01/09/2026			
Report Details: Type: Inflows Storm Phase: Project SS 132kV 4B w inverters	Designed by: EE	Checked by: AJ	Approved By: RF	
Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN				



CA Inv9

Type : Catchment Area

Area (ha)	0.009
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Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

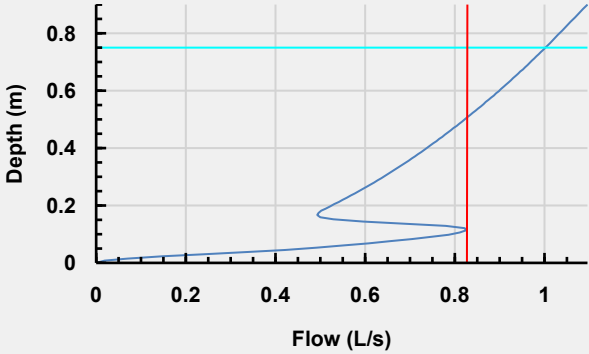
Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
Report Details: Type: Junctions Storm Phase: Project SS 132kV 4B w inverters		Designed by: EE	Checked by: AJ		Approved By: RF
		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			

Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)
FC4B	Manhole	620676.384	294425.240	33.700	0.800	32.900	Circular	3.000
OF4B	Simple Junction	620708.281	294450.291					
OFSW1	Simple Junction	620726.667	294597.392					
OFSW2	Simple Junction	620753.245	294711.379					
OFSW6	Simple Junction	620376.237	294596.073					

Name	Lock
FC4B	None
OF4B	
OFSW1	
OFSW2	
OFSW6	

Outlets

Junction	Outlet Name	Outgoing Connection	Outlet Type
FC4B	Outlet	5.001	Hydro-Brake®
	Invert Level (m)	32.900	
	Design Depth (m)	0.750	
	Design Flow (L/s)	1.0	
	Objective	Minimise Upstream Storage Requirements	
	Application	Surface Water Only	
	Sump Available	☐	
	Unit Reference	CHE-0049-1000-0750-1000	
			

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	Date: 01/09/2026			
	Designed by: EE	Checked by: AJ	Approved By: RF	
Report Details: Type: Stormwater Controls Storm Phase: Project SS 132kV 4B w inverters	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



PP 132kV 4B

Type : Porous Paving

Dimensions

Exceedance Level (m)	33.700
Depth (m)	0.680
Base Level (m)	33.020
Paving Layer Depth (mm)	80
Membrane Percolation (m/hr)	32.4
Porosity (%)	30
Length (m)	100.000
Long. Slope (1:X)	600.00
Width (m)	50.000
Total Volume (m³)	900.549

Under Drain

Height Above Base (m)	0.000
Diameter (mm)	100
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Manning's n
n	0.015

Inlets

Inlet

Inlet Type	Lateral Inflow
Incoming Item(s)	132kV 4B
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	5.000
Outlet Type	Free Discharge

Advanced

Conductivity (m/hr)	50.0
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East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	Date: 01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RF
Report Details: Type: Stormwater Controls Storm Phase: Project SS 132kV 4B w inverters	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		



SW1

Type : Swale

Swale

Exceedance Level (m)	32.700
Depth (m)	0.500
Base Level (m)	32.200
Top Width (m)	2.500
Side Slope (1:X)	2.00
Base Width (m)	0.500
Freeboard (mm)	0
Length (m)	100.000
Long. Slope (1:X)	350.00
Filtration Rate (m/hr)	0.0
Friction Scheme	Manning's n
n	0.03
Total Volume (m³)	75.000

Inlets

Inlet

Inlet Type	Lateral Inflow
Incoming Item(s)	CASW1
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	CA Inv5
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	ND1
Outlet Type	Orifice
Diameter (m)	0.027
Coefficient of Discharge	0.600
Invert Level (m)	32.200

Advanced

Swale

Porosity (%)	100
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East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	Date: 01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RF
Report Details: Type: Stormwater Controls Storm Phase: Project SS 132kV 4B w inverters	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		



SW3

Type : Swale

Swale

Exceedance Level (m)	29.400
Depth (m)	0.550
Base Level (m)	28.850
Top Width (m)	2.700
Side Slope (1:X)	2.00
Base Width (m)	0.500
Freeboard (mm)	0
Length (m)	74.000
Long. Slope (1:X)	480.00
Filtration Rate (m/hr)	0.0
Friction Scheme	Manning's n
n	0.03
Total Volume (m³)	65.120

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	ND2
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Inlet (1)

Inlet Type	Lateral Inflow
Incoming Item(s)	CASW3
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Inlet (2)

Inlet Type	Point Inflow
Incoming Item(s)	CA Inv7
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Inlet (3)

Inlet Type	Point Inflow
Incoming Item(s)	CA Inv6
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	Date: 01/09/2026			
Report Details: Type: Stormwater Controls Storm Phase: Project SS 132kV 4B w inverters	Designed by: EE		Checked by: AJ	Approved By: RF
Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN				

Outlets

Outlet	
Outgoing Connection	9.000
Outlet Type	Orifice
Diameter (m)	0.028
Coefficient of Discharge	0.600
Invert Level (m)	28.850

Advanced

Swale	
Porosity (%)	100

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	Date: 01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RF
Report Details: Type: Stormwater Controls Storm Phase: Project SS 132kV 4B w inverters	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		



SW2

Type : Swale

Swale

Exceedance Level (m)	31.000
Depth (m)	0.500
Base Level (m)	30.500
Top Width (m)	2.500
Side Slope (1:X)	2.00
Base Width (m)	0.500
Freeboard (mm)	0
Length (m)	64.500
Long. Slope (1:X)	350.00
Filtration Rate (m/hr)	0.0
Friction Scheme	Manning's n
n	0.03
Total Volume (m³)	48.375

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	ND1
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Inlet (1)

Inlet Type	Lateral Inflow
Incoming Item(s)	CASW2
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	ND2
Outlet Type	Orifice
Diameter (m)	0.027
Coefficient of Discharge	0.600
Invert Level (m)	30.500

Advanced

Swale

Porosity (%)	100
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East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	Date: 01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RF
Report Details: Type: Stormwater Controls Storm Phase: Project SS 132kV 4B w inverters	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		



SW4

Type : Swale

Swale

Exceedance Level (m)	29.400
Depth (m)	0.500
Base Level (m)	28.900
Top Width (m)	2.500
Side Slope (1:X)	2.00
Base Width (m)	0.500
Freeboard (mm)	0
Length (m)	130.000
Long. Slope (1:X)	380.00
Filtration Rate (m/hr)	0.0
Friction Scheme	Manning's n
n	0.03
Total Volume (m³)	97.500

Inlets

Inlet (1)

Inlet Type	Lateral Inflow
Incoming Item(s)	CASW4
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	CA Inv3
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Inlet (2)

Inlet Type	Point Inflow
Incoming Item(s)	CA Inv4
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	ND3
Outlet Type	Orifice
Diameter (m)	0.025
Coefficient of Discharge	0.600
Invert Level (m)	28.900

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	Date: 01/09/2026			
	Designed by: EE	Checked by: AJ	Approved By: RF	
Report Details: Type: Stormwater Controls Storm Phase: Project SS 132kV 4B w inverters	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			

Advanced

Swale

Porosity (%) 100



SW5

Type : Swale

Swale

Exceedance Level (m)	28.150
Depth (m)	0.550
Base Level (m)	27.600
Top Width (m)	2.700
Side Slope (1:X)	2.00
Base Width (m)	0.500
Freeboard (mm)	0
Length (m)	130.000
Long. Slope (1:X)	500.00
Filtration Rate (m/hr)	0.0
Friction Scheme	Manning's n
n	0.03
Total Volume (m³)	114.400

Inlets

Inlet (1)

Inlet Type	Lateral Inflow
Incoming Item(s)	CASW5
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Inlet (2)

Inlet Type	Point Inflow
Incoming Item(s)	ND3
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	CA Inv9
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Inlet (3)

Inlet Type	Point Inflow
Incoming Item(s)	CA Inv8
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	Date: 01/09/2026		
	Designed by: EE	Checked by: AJ	Approved By: RF
Report Details: Type: Stormwater Controls Storm Phase: Project SS 132kV 4B w inverters	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN		



Outlets

Outlet

Outgoing Connection	10.000
Outlet Type	Orifice
Diameter (m)	0.028
Coefficient of Discharge	0.600
Invert Level (m)	27.600

Advanced

Swale

Porosity (%)	100
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SW6

Type : Swale

Swale

Exceedance Level (m)	30.200
Depth (m)	0.500
Base Level (m)	29.700
Top Width (m)	2.500
Side Slope (1:X)	2.00
Base Width (m)	0.500
Freeboard (mm)	0
Length (m)	122.000
Long. Slope (1:X)	300.00
Filtration Rate (m/hr)	0.0
Friction Scheme	Manning's n
n	0.03
Total Volume (m³)	91.500

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
		Designed by: EE	Checked by: AJ		Approved By: RF
Report Details: Type: Stormwater Controls Storm Phase: Project SS 132kV 4B w inverters		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			

Inlets

Inlet (1)

Inlet Type	Lateral Inflow
Incoming Item(s)	CASW6
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	CA Inv1
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Inlet (2)

Inlet Type	Point Inflow
Incoming Item(s)	CA Inv2
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	11.000
Outlet Type	Orifice
Diameter (m)	0.025
Coefficient of Discharge	0.600
Invert Level (m)	29.700

Advanced

Swale

Porosity (%)	100
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East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
Report Details: Type: Connections Storm Phase: Project SS 132kV 4B w inverters		Designed by: EE	Checked by: AJ		Approved By: RF
		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			

Name	Length (m)	Connection Type	Slope (1:X)	Manning's n	Colebrook-White Roughness (mm)	Diameter / Base Width (mm)	Height (mm)	Side Slope (1:X)
5.000	2.914	Pipe	24.285		0.6	100		
5.001	40.558	Pipe	27.039		0.6	100		
9.000	20.586	Pipe	58.816		0.6	100		
ND1	1.154	No Delay						
ND2	1.038	No Delay						
10.000	3.573	Pipe	119.097		0.6	150		
ND3	3.079	No Delay						
11.000	73.996	Pipe	60.653		0.6	100		

Name	Upstream Cover Level (m)	Upstream Invert Level (m)	Downstream Cover Level (m)	Downstream Invert Level (m)	Lock	Flow Restriction (L/s)	Culvert Type	Culvert Entrance
5.000	33.700	33.020	33.700	32.900	None		(None)	(None)
5.001	33.700	32.900	32.000	31.400	None	1.03	(None)	(None)
9.000	29.400	28.850	29.300	28.500	None	1.20	(None)	(None)
ND1								
ND2								
10.000	28.100	27.600	28.070	27.570	None	1.20	(None)	(None)
ND3								
11.000	30.607	29.700	29.080	28.480	None	0.91	(None)	(None)

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B				Date: 01/09/2026				
Report Details: Type: Inflow Summary Storm Phase: Project SS 132kV 4B w inverters				Designed by: EE	Checked by: AJ	Approved By: RF		
				Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN				

Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
132kV 4B	PP 132kV 4B		Time of Concentration	0.500	100	0	100	0.500
CA Inv1	SW6		Time of Concentration	0.009	100	0	100	0.009
CA Inv2	SW6		Time of Concentration	0.009	100	0	100	0.009
CA Inv3	SW4		Time of Concentration	0.009	100	0	100	0.009
CA Inv4	SW4		Time of Concentration	0.009	100	0	100	0.009
CA Inv5	SW1		Time of Concentration	0.009	100	0	100	0.009
CA Inv6	SW3		Time of Concentration	0.009	100	0	100	0.009
CA Inv7	SW3		Time of Concentration	0.009	100	0	100	0.009
CA Inv8	SW5		Time of Concentration	0.009	100	0	100	0.009
CA Inv9	SW5		Time of Concentration	0.009	100	0	100	0.009
CASW1	SW1		Time of Concentration	0.036	100	0	100	0.036
CASW2	SW2		Time of Concentration	0.020	100	0	100	0.020
CASW3	SW3		Time of Concentration	0.023	100	0	100	0.023
CASW4	SW4		Time of Concentration	0.039	100	0	100	0.039
CASW5	SW5		Time of Concentration	0.042	100	0	100	0.042
CASW6	SW6		Time of Concentration	0.037	100	0	100	0.037
TOTAL		0.0		0.777				0.777

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
		Designed by: EE	Checked by: AJ		Approved By: RF
Report Details: Type: Junctions Summary Storm Phase: Project SS 132kV 4B w inverters		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



FEH4B: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
FC4B	FEH4B: 2 years: +0 %: 7200 mins: Summer	33.700	32.900	33.191	0.291	0.000	0.8	280.480	Surcharged
OF4B	FEH4B: 2 years: +0 %: 7200 mins: Summer		31.400	31.418	0.018		0.8	280.477	OK
OFSW1	FEH4B: 2 years: +0 %: 360 mins: Winter		28.500	28.521	0.021		0.7	25.740	OK
OFSW2	FEH4B: 2 years: +0 %: 360 mins: Winter		27.570	27.592	0.022		0.8	26.558	OK
OFSW6	FEH4B: 2 years: +0 %: 240 mins: Summer		28.480	28.499	0.019		0.6	12.410	OK

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
		Designed by:	Checked by:	Approved By:	
Report Details: Type: Junctions Summary Storm Phase: Project SS 132kV 4B w inverters		EE	AJ	RF	
		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



FEH4B: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
FC4B	FEH4B: 30 years: +0 %: 7200 mins: Winter	33.700	32.900	33.294	0.394	0.000	0.8	495.996	Surcharged
OF4B	FEH4B: 30 years: +0 %: 7200 mins: Summer		31.400	31.418	0.018		0.8	496.226	OK
OFSW1	FEH4B: 30 years: +0 %: 720 mins: Winter		28.500	28.523	0.023		0.9	64.295	OK
OFSW2	FEH4B: 30 years: +0 %: 600 mins: Winter		27.570	27.594	0.024		0.9	56.648	OK
OFSW6	FEH4B: 30 years: +0 %: 180 mins: Winter		28.480	28.501	0.021		0.8	13.286	OK

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
Report Details: Type: Junctions Summary Storm Phase: Project SS 132kV 4B w inverters		Designed by: EE	Checked by: AJ		
		Approved By: RF			
		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



FEH4B: 30 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
FC4B	FEH4B: 30 years: +40 %: 8640 mins: Winter	33.700	32.900	33.394	0.494	0.000	0.8	668.974	Surcharged
OF4B	FEH4B: 30 years: +40 %: 8640 mins: Winter		31.400	31.418	0.018		0.8	668.956	OK
OFSW1	FEH4B: 30 years: +40 %: 960 mins: Winter		28.500	28.524	0.024		1.0	95.908	OK
OFSW2	FEH4B: 30 years: +40 %: 960 mins: Winter		27.570	27.596	0.026		1.0	98.733	OK
OFSW6	FEH4B: 30 years: +40 %: 240 mins: Winter		28.480	28.502	0.022		0.8	19.768	OK

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
Report Details: Type: Junctions Summary Storm Phase: Project SS 132kV 4B w inverters		Designed by: EE	Checked by: AJ		
		Approved By: RF			
		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



FEH4B: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
FC4B	FEH4B: 100 years: +0 %: 2880 mins: Winter	33.700	32.900	33.437	0.537	0.000	0.8	247.790	Flood Risk
OF4B	FEH4B: 100 years: +0 %: 2880 mins: Winter		31.400	31.418	0.018		0.8	247.768	OK
OFSW1	FEH4B: 100 years: +0 %: 960 mins: Winter		28.500	28.524	0.024		1.0	96.885	OK
OFSW2	FEH4B: 100 years: +0 %: 960 mins: Winter		27.570	27.596	0.026		1.1	99.482	OK
OFSW6	FEH4B: 100 years: +0 %: 240 mins: Winter		28.480	28.502	0.022		0.8	19.244	OK

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
		Designed by: EE	Checked by: AJ		Approved By: RF
Report Details: Type: Junctions Summary Storm Phase: Project SS 132kV 4B w inverters		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



FEH4B: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
FC4B	FEH4B: 100 years: +45 %: 2880 mins: Winter	33.700	32.900	33.610	0.710	0.000	1.0	285.538	Flood Risk
OF4B	FEH4B: 100 years: +45 %: 2880 mins: Winter		31.400	31.419	0.019		1.0	285.514	OK
OFSW1	FEH4B: 100 years: +45 %: 1440 mins: Winter		28.500	28.526	0.026		1.2	161.741	OK
OFSW2	FEH4B: 100 years: +45 %: 1440 mins: Winter		27.570	27.597	0.027		1.2	166.782	OK
OFSW6	FEH4B: 100 years: +45 %: 720 mins: Summer		28.480	28.503	0.023		0.9	61.888	OK

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
		Designed by: EE	Checked by: AJ		Approved By: RF
Report Details: Type: Stormwater Controls Summary Storm Phase: Project SS 132kV 4B w inverters		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



FEH4B: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Velocity (m/s)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
PP 132kV 4B	FEH4B: 2 years: +0 %: 10080 mins: Summer	33.218	33.192	0.031	0.172	2.1	141.743	0.000		0.9	328.034		OK
SW1	FEH4B: 2 years: +0 %: 180 mins: Summer	32.505	32.395	0.019	0.195	3.4	6.153	0.000	0.1	0.6	9.693		OK
SW3	FEH4B: 2 years: +0 %: 360 mins: Winter	29.077	29.077	0.073	0.227	1.8	9.296	0.000	0.1	0.7	25.762		OK
SW2	FEH4B: 2 years: +0 %: 360 mins: Winter	30.698	30.690	0.014	0.190	1.2	4.992	0.000	0.1	0.6	17.334		OK
SW4	FEH4B: 2 years: +0 %: 240 mins: Summer	29.265	29.119	0.023	0.219	3.6	9.017	0.000	0.1	0.6	12.581		OK
SW5	FEH4B: 2 years: +0 %: 360 mins: Winter	27.882	27.846	0.022	0.246	2.4	13.582	0.000	0.1	0.8	26.581		OK
SW6	FEH4B: 2 years: +0 %: 240 mins: Summer	30.128	29.931	0.021	0.231	3.5	8.405	0.000	0.1	0.6	12.439		OK

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026				
Report Details: Type: Stormwater Controls Summary Storm Phase: Project SS 132kV 4B w inverters		Designed by: EE	Checked by: AJ	Approved By: RF		
		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN				



**FEH4B: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By:
Max. Resident Volume**

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Velocity (m/s)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
PP 132kV 4B	FEH4B: 30 years: +0 %: 2880 mins: Winter	33.325	33.318	0.138	0.298	6.2	328.987	0.000		0.9	218.457		OK
SW1	FEH4B: 30 years: +0 %: 120 mins: Winter	32.514	32.504	0.028	0.304	6.6	15.314	0.000	0.1	0.8	9.634		OK
SW3	FEH4B: 30 years: +0 %: 720 mins: Winter	29.197	29.197	0.193	0.347	2.2	21.231	0.000	0.1	0.9	64.317		OK
SW2	FEH4B: 30 years: +0 %: 480 mins: Winter	30.784	30.784	0.100	0.284	1.7	11.486	0.000	0.1	0.8	36.305		OK
SW4	FEH4B: 30 years: +0 %: 180 mins: Winter	29.274	29.236	0.032	0.336	6.3	21.801	0.000	0.1	0.7	13.149		OK
SW5	FEH4B: 30 years: +0 %: 600 mins: Winter	27.961	27.961	0.101	0.361	3.2	31.152	0.000	0.1	0.9	56.675		OK
SW6	FEH4B: 30 years: +0 %: 180 mins: Winter	30.136	30.055	0.029	0.355	6.0	20.478	0.000	0.2	0.8	13.332		OK

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
Report Details: Type: Stormwater Controls Summary Storm Phase: Project SS 132kV 4B w inverters		Designed by: EE	Checked by: AJ		Approved By: RF
		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



FEH4B: 30 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Velocity (m/s)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
PP 132kV 4B	FEH4B: 30 years: +40 %: 2880 mins: Winter	33.430	33.421	0.243	0.401	8.7	485.302	0.000		0.9	246.849	765	OK
SW1	FEH4B: 30 years: +40 %: 180 mins: Winter	32.564	32.564	0.078	0.364	6.9	22.934	0.000	0.1	0.9	16.127		OK
SW3	FEH4B: 30 years: +40 %: 960 mins: Winter	29.277	29.277	0.273	0.427	2.4	31.430	0.000	0.1	1.0	95.930		OK
SW2	FEH4B: 30 years: +40 %: 720 mins: Winter	30.844	30.844	0.160	0.344	1.8	16.882	0.000	0.1	0.9	57.197		OK
SW4	FEH4B: 30 years: +40 %: 240 mins: Winter	29.301	29.301	0.059	0.401	7.1	32.432	0.000	0.1	0.8	19.532		OK
SW5	FEH4B: 30 years: +40 %: 960 mins: Winter	28.034	28.034	0.174	0.434	3.2	46.076	0.000	0.1	1.0	98.760		OK
SW6	FEH4B: 30 years: +40 %: 240 mins: Winter	30.138	30.125	0.032	0.425	6.8	30.477	0.000	0.2	0.8	19.817		OK

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
		Designed by: EE	Checked by: AJ		Approved By: RF
Report Details: Type: Stormwater Controls Summary Storm Phase: Project SS 132kV 4B w inverters		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



FEH4B: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Velocity (m/s)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
PP 132kV 4B	FEH4B: 100 years: +0 %: 2880 mins: Winter	33.447	33.438	0.260	0.418	9.1	510.707	0.000		0.9	250.953	1280	OK
SW1	FEH4B: 100 years: +0 %: 180 mins: Winter	32.547	32.548	0.062	0.348	6.3	20.686	0.000	0.1	0.9	15.666		OK
SW3	FEH4B: 100 years: +0 %: 960 mins: Winter	29.281	29.281	0.277	0.431	2.5	32.092	0.000	0.1	1.0	96.909		OK
SW2	FEH4B: 100 years: +0 %: 960 mins: Winter	30.844	30.844	0.160	0.344	1.6	16.838	0.000	0.1	0.9	62.036		OK
SW4	FEH4B: 100 years: +0 %: 240 mins: Winter	29.285	29.285	0.043	0.385	6.5	29.518	0.000	0.1	0.8	19.041		OK
SW5	FEH4B: 100 years: +0 %: 960 mins: Winter	28.039	28.039	0.179	0.439	3.3	47.046	0.000	0.1	1.1	99.509		OK
SW6	FEH4B: 100 years: +0 %: 240 mins: Winter	30.137	30.107	0.030	0.407	6.2	27.701	0.000	0.2	0.8	19.293		OK

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B				Date: 01/09/2026				
Report Details: Type: Stormwater Controls Summary Storm Phase: Project SS 132kV 4B w inverters				Designed by: EE	Checked by: AJ	Approved By: RF		
				Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN				



FEH4B: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Velocity (m/s)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
PP 132kV 4B	FEH4B: 100 years: +45 %: 2880 mins: Winter	33.623	33.611	0.436	0.591	13.2	773.578	0.000		1.0	289.827		OK
SW1	FEH4B: 100 years: +45 %: 240 mins: Winter	32.626	32.627	0.141	0.427	7.4	32.363	0.000	0.1	1.0	23.521		OK
SW3	FEH4B: 100 years: +45 %: 1440 mins: Winter	29.398	29.398	0.394	0.548	2.7	50.684	0.000	0.1	1.2	161.762	875	OK
SW2	FEH4B: 100 years: +45 %: 960 mins: Winter	30.932	30.932	0.248	0.432	2.1	26.372	0.000	0.1	1.0	89.313	255	OK
SW4	FEH4B: 100 years: +45 %: 720 mins: Summer	29.373	29.373	0.131	0.473	6.7	47.114	0.000	0.1	0.9	61.867		OK
SW5	FEH4B: 100 years: +45 %: 1440 mins: Winter	28.147	28.147	0.287	0.547	3.5	74.421	0.000	0.1	1.2	166.810	700	OK
SW6	FEH4B: 100 years: +45 %: 720 mins: Summer	30.196	30.197	0.090	0.497	6.4	43.928	0.000	0.1	0.9	61.932		OK

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	Date: 01/09/2026			
Report Details: Type: Inflows Storm Phase: Project SS 400kV 5A	Designed by: EE	Checked by: AJ		Approved By: RMF
Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN				



400kV 5A

Type : Catchment Area

Area (ha)	3.50
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Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

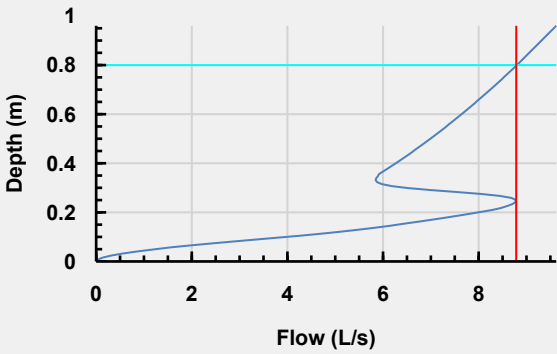
Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
		Designed by: EE	Checked by: AJ		Approved By: RMF
Report Details: Type: Junctions Storm Phase: Project SS 400kV 5A		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			

Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)
FC5A	Manhole	622363.002	293860.361	40.700	0.800	39.900	Circular	3.000
OF5A	Simple Junction	622348.108	293859.755					

Name	Lock
FC5A	None
OF5A	

Outlets

Junction	Outlet Name	Outgoing Connection	Outlet Type
FC5A	Outlet	6.001	Hydro-Brake®
	Invert Level (m)	39.900	
	Design Depth (m)	0.800	
	Design Flow (L/s)	8.8	
	Objective	Minimise Upstream Storage Requirements	
	Application	Surface Water Only	
	Sump Available	☐	
	Unit Reference	CHE-0134-8800-0800-8800	
			

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	Date: 01/09/2026			
	Designed by: EE	Checked by: AJ	Approved By: RMF	
Report Details: Type: Stormwater Controls Storm Phase: Project SS 400kV 5A	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



PP SS 400kV 5A

Type : Porous Paving

Dimensions

Exceedance Level (m)	40.700
Depth (m)	0.650
Base Level (m)	40.050
Paving Layer Depth (mm)	80
Membrane Percolation (m/hr)	32.4
Porosity (%)	30
Length (m)	266.325
Long. Slope (1:X)	650.00
Width (m)	132.571
Total Volume (m³)	6040.794

Under Drain

Height Above Base (m)	0.000
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Manning's n
n	0.015

Inlets

Inlet

Inlet Type	Lateral Inflow
Incoming Item(s)	400kV 5A
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	6.000
Outlet Type	Free Discharge

Advanced

Conductivity (m/hr)	50.0
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East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
		Designed by: EE	Checked by: AJ		Approved By: RMF
Report Details: Type: Connections Storm Phase: Project SS 400kV 5A		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			

Name	Length (m)	Connection Type	Slope (1:X)	Manning's n	Colebrook-White Roughness (mm)	Diameter / Base Width (mm)	Upstream Cover Level (m)	Upstream Invert Level (m)
6.000	2.840	Pipe	56.810		0.6	150	40.700	40.050
6.001	14.906	Pipe	14.906		0.6	150	40.700	39.900

Name	Downstream Cover Level (m)	Downstream Invert Level (m)	Lock	Flow Restriction (L/s)	Culvert Type	Culvert Entrance
6.000	40.700	40.000	All		(None)	(None)
6.001	39.500	38.900	None	8.8	(None)	(None)

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	Date: 01/09/2026			
Report Details: Type: Inflow Summary Storm Phase: Project SS 400kV 5A	Designed by: EE	Checked by: AJ	Approved By: RMF	
Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN				

Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
400kV 5A	PP SS 400kV 5A		Time of Concentration	3.50	100	0	100	3.50
TOTAL		0.0		3.50				3.50

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
		Designed by: EE	Checked by: AJ		Approved By: RMF
Report Details: Type: Junctions Summary Storm Phase: Project SS 400kV 5A		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



FEH5A: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
FC5A	FEH5A: 2 years: +0 %: 10080 mins: Summer	40.700	39.900	40.121	0.221	0.000	7.3	2183.104	Surcharged
OF5A	FEH5A: 2 years: +0 %: 10080 mins: Summer		38.900	38.940	0.040		7.3	2183.096	OK

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
		Designed by: EE	Checked by: AJ		Approved By: RMF
Report Details: Type: Junctions Summary Storm Phase: Project SS 400kV 5A		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



FEH5A: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
FC5A	FEH5A: 30 years: +0 %: 1440 mins: Summer	40.700	39.900	40.217	0.317	0.000	8.8	1189.018	Surcharged
OF5A	FEH5A: 30 years: +0 %: 5760 mins: Summer		38.900	38.944	0.044		8.8	3119.067	OK

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
		Designed by: EE	Checked by: AJ		Approved By: RMF
Report Details: Type: Junctions Summary Storm Phase: Project SS 400kV 5A		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



FEH5A: 30 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
FC5A	FEH5A: 30 years: +40 %: 8640 mins: Winter	40.70 0	39.90 0	40.372	0.472	0.000	8.8	4930.987	Surcharged
OF5A	FEH5A: 30 years: +40 %: 10080 mins: Summer		38.90 0	38.944	0.044		8.8	5176.133	OK

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
		Designed by: EE	Checked by: AJ		Approved By: RMF
Report Details: Type: Junctions Summary Storm Phase: Project SS 400kV 5A		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



FEH5A: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
FC5A	FEH5A: 100 years: +0 %: 8640 mins: Winter	40.700	39.900	40.354	0.454	0.000	8.8	4703.048	Surcharged
OF5A	FEH5A: 100 years: +0 %: 8640 mins: Winter		38.900	38.944	0.044		8.8	4703.036	OK

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
		Designed by: EE	Checked by: AJ		Approved By: RMF
Report Details: Type: Junctions Summary Storm Phase: Project SS 400kV 5A		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



FEH5A: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
FC5A	FEH5A: 100 years: +45 %: 10080 mins: Winter	40.700	39.900	40.496	0.596	0.000	8.8	6930.451	Flood Risk
OF5A	FEH5A: 100 years: +45 %: 10080 mins: Winter		38.900	38.944	0.044		8.8	6930.433	OK

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
		Designed by: EE	Checked by: AJ		Approved By: RMF
Report Details: Type: Stormwater Controls Summary Storm Phase: Project SS 400kV 5A		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



FEH5A: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
PP SS 400kV 5A	FEH5A: 2 years: +0 %: 10080 mins: Summer	40.526	40.129	0.067	0.079	14.9	1073.365	0.000	7.3	2183.265		OK

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
		Designed by: EE	Checked by: AJ		Approved By: RMF
Report Details: Type: Stormwater Controls Summary Storm Phase: Project SS 400kV 5A		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



FEH5A: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
PP SS 400kV 5A	FEH5A: 30 years: +0 %: 2160 mins: Summer	40.614	40.228	0.154	0.178	84.4	2122.439	0.000	8.8	1763.677		OK

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
Report Details: Type: Stormwater Controls Summary Storm Phase: Project SS 400kV 5A		Designed by:	Checked by:	Approved By:	
		EE	AJ	RMF	
		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



**FEH5A: 30 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By:
Max. Resident Volume**

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
PP SS 400kV 5A	FEH5A: 30 years: +40 %: 2880 mins: Summer	40.690	40.386	0.230	0.336	93.6	3321.840	0.000	8.8	1905.095	770	OK

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
		Designed by: EE	Checked by: AJ		Approved By: RMF
Report Details: Type: Stormwater Controls Summary Storm Phase: Project SS 400kV 5A		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



FEH5A: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
PP SS 400kV 5A	FEH5A: 100 years: +0 %: 2880 mins: Summer	40.704	40.402	0.245	0.352	97.8	3494.264	0.000	8.8	1936.272	1195	OK

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	Date: 01/09/2026			
Report Details: Type: Stormwater Controls Summary Storm Phase: Project SS 400kV 5A	Designed by: EE		Checked by: AJ	Approved By: RMF
	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



FEH5A: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
PP SS 400kV 5A	FEH5A: 100 years: +45 %: 2880 mins: Winter	40.867	40.563	0.407	0.513	91.5	5291.097	0.000	8.8	2261.409		OK

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	Date: 01/09/2026			
Report Details: Type: Inflows Storm Phase: Project SS 132kV 7F	Designed by: EE	Checked by: AJ		Approved By: RMF
Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN				



132kV 7F

Type : Catchment Area

Area (ha)	0.75
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Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

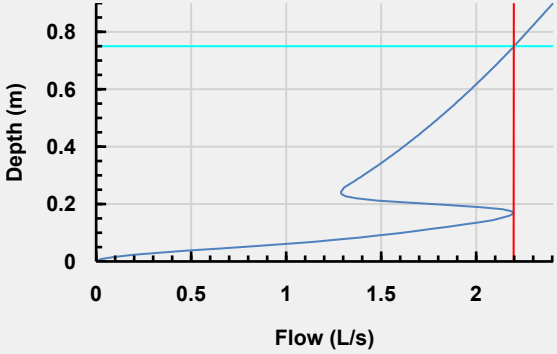
Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	Date: 01/09/2026			
Report Details: Type: Junctions Storm Phase: Project SS 132kV 7F	Designed by: EE	Checked by: AJ	Approved By: RMF	
	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			

Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)
FC7F	Manhole	624228.645	295874.378	42.250	0.750	41.500	Circular	3.000
OF7F	Simple Junction	624232.431	295835.568					

Name	Lock
FC7F	None
OF7F	

Outlets

Junction	Outlet Name	Outgoing Connection	Outlet Type
FC7F	Outlet	7.001	Hydro-Brake®
	Invert Level (m)	41.500	
	Design Depth (m)	0.750	
	Design Flow (L/s)	2.2	
	Objective	Minimise Upstream Storage Requirements	
	Application	Surface Water Only	
	Sump Available	☐	
	Unit Reference	CHE-0072-2200-0750-2200	
			

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	Date: 01/09/2026			
	Designed by: EE	Checked by: AJ	Approved By: RMF	
Report Details: Type: Stormwater Controls Storm Phase: Project SS 132kV 7F	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



PP 132kV 7F

Type : Porous Paving

Dimensions

Exceedance Level (m)	42.250
Depth (m)	0.680
Base Level (m)	41.570
Paving Layer Depth (mm)	80
Membrane Percolation (m/hr)	32.4
Porosity (%)	30
Length (m)	122.474
Long. Slope (1:X)	600.00
Width (m)	61.237
Total Volume (m³)	1351.515

Under Drain

Height Above Base (m)	0.000
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Manning's n
n	0.015

Inlets

Inlet

Inlet Type	Lateral Inflow
Incoming Item(s)	132kV 7F
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	7.000
Outlet Type	Free Discharge

Advanced

Conductivity (m/hr)	50.0
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East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
		Designed by: EE	Checked by: AJ		Approved By: RMF
Report Details: Type: Connections Storm Phase: Project SS 132kV 7F		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			

Name	Length (m)	Connection Type	Slope (1:X)	Manning's n	Colebrook-White Roughness (mm)	Diameter / Base Width (mm)	Upstream Cover Level (m)	Upstream Invert Level (m)
7.000	2.871	Pipe	41.010		0.6	150	42.250	41.570
7.001	38.994	Pipe	111.411		0.6	150	42.250	41.500

Name	Downstream Cover Level (m)	Downstream Invert Level (m)	Lock	Flow Restriction (L/s)	Culvert Type	Culvert Entrance
7.000	42.250	41.500	None		(None)	(None)
7.001	41.750	41.150	None	2.2	(None)	(None)

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B			Date: 01/09/2026					
Report Details: Type: Inflow Summary Storm Phase: Project SS 132kV 7F			Designed by:	Checked by:	Approved By:			
			EE	AJ	RMF			
			Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN					

Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
132kV 7F	PP 132kV 7F		Time of Concentration	0.75	100	0	100	0.75
TOTAL		0.0		0.75				0.75

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
		Designed by: EE	Checked by: AJ		Approved By: RMF
Report Details: Type: Junctions Summary Storm Phase: Project SS 132kV 7F		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



FEH7F: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
FC7F	FEH7F: 2 years: +0 %: 4320 mins: Summer	42.250	41.500	41.707	0.207	0.000	2.2	339.619	Surcharged
OF7F	FEH7F: 2 years: +0 %: 2880 mins: Summer		41.150	41.186	0.036		2.2	293.629	OK

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
		Designed by: EE	Checked by: AJ		Approved By: RMF
Report Details: Type: Junctions Summary Storm Phase: Project SS 132kV 7F		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



FEH7F: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
FC7F	FEH7F: 30 years: +0 %: 7200 mins: Summer	42.250	41.500	41.836	0.336	0.000	2.2	744.414	Surcharged
OF7F	FEH7F: 30 years: +0 %: 7200 mins: Summer		41.150	41.186	0.036		2.2	744.410	OK

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
		Designed by: EE	Checked by: AJ		Approved By: RMF
Report Details: Type: Junctions Summary Storm Phase: Project SS 132kV 7F		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



FEH7F: 30 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
FC7F	FEH7F: 30 years: +40 %: 7200 mins: Summer	42.25 0	41.50 0	41.928	0.428	0.000	2.2	1040.082	Surcharged
OF7F	FEH7F: 30 years: +40 %: 10080 mins: Summer		41.15 0	41.186	0.036		2.2	1138.177	OK

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
		Designed by: EE	Checked by: AJ		Approved By: RMF
Report Details: Type: Junctions Summary Storm Phase: Project SS 132kV 7F		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



FEH7F: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
FC7F	FEH7F: 100 years: +0 %: 2160 mins: Winter	42.250	41.500	41.981	0.481	0.000	2.2	378.769	Flood Risk
OF7F	FEH7F: 100 years: +0 %: 10080 mins: Summer		41.150	41.186	0.036		2.2	1059.599	OK

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
		Designed by: EE	Checked by: AJ		Approved By: RMF
Report Details: Type: Junctions Summary Storm Phase: Project SS 132kV 7F		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



FEH7F: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
FC7F	FEH7F: 100 years: +45 %: 7200 mins: Winter	42.250	41.500	42.071	0.571	0.000	2.2	1293.508	Flood Risk
OF7F	FEH7F: 100 years: +45 %: 10080 mins: Winter		41.150	41.186	0.036		2.2	1534.553	OK

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
		Designed by: EE	Checked by: AJ		Approved By: RMF
Report Details: Type: Stormwater Controls Summary Storm Phase: Project SS 132kV 7F		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



FEH7F: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
PP 132kV 7F	FEH7F: 2 years: +0 %: 600 mins: Winter	41.830	41.704	0.056	0.134	15.7	182.744	0.000	2.2	119.469		OK

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
		Designed by: EE	Checked by: AJ		Approved By: RMF
Report Details: Type: Stormwater Controls Summary Storm Phase: Project SS 132kV 7F		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



FEH7F: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
PP 132kV 7F	FEH7F: 30 years: +0 %: 1440 mins: Summer	41.873	41.869	0.099	0.299	24.9	449.390	0.000	2.3	221.742		OK

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
		Designed by: EE	Checked by: AJ		Approved By: RMF
Report Details: Type: Stormwater Controls Summary Storm Phase: Project SS 132kV 7F		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



FEH7F: 30 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
PP 132kV 7F	FEH7F: 30 years: +40 %: 2160 mins: Winter	41.971	41.965	0.197	0.395	16.3	667.633	0.000	2.3	374.597		OK

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
		Designed by: EE	Checked by: AJ		Approved By: RMF
Report Details: Type: Stormwater Controls Summary Storm Phase: Project SS 132kV 7F		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



FEH7F: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
PP 132kV 7F	FEH7F: 100 years: +0 %: 2160 mins: Winter	41.987	41.981	0.213	0.411	17.1	704.516	0.000	2.3	381.545	315	OK

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
Report Details: Type: Stormwater Controls Summary Storm Phase: Project SS 132kV 7F		Designed by:	Checked by:	Approved By:	
		EE	AJ	RMF	
		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



FEH7F: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
PP 132kV 7F	FEH7F: 100 years: +45 %: 2880 mins: Winter	42.152	42.144	0.378	0.574	19.5	1074.249	0.000	2.3	586.432		OK

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	Date: 01/09/2026			
Report Details: Type: Inflows Storm Phase: Project SS 133KV 10C	Designed by: EE	Checked by: AJ		Approved By: RMF
Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN				



132kV 10C

Type : Catchment Area

Area (ha)	0.50
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Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

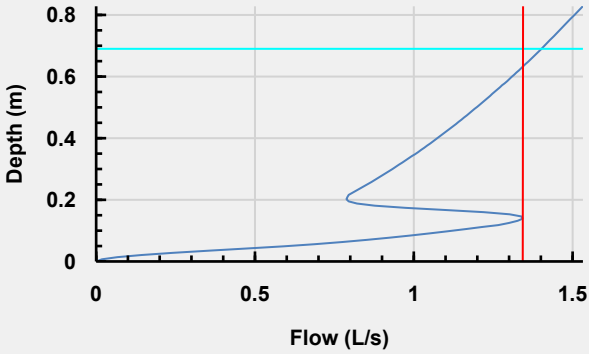
Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	100

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
		Designed by: EE	Checked by: AJ		Approved By: RMF
Report Details: Type: Junctions Storm Phase: Project SS 133KV 10C		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			

Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)
FC10C	Manhole	629874.462	295265.207	33.440	0.690	32.750	Circular	3.000
OF10C	Simple Junction	629816.694	295265.579					

Name	Lock
FC10C	None
OF10C	

Outlets

Junction	Outlet Name	Outgoing Connection	Outlet Type
FC10C	Outlet	8.001	Hydro-Brake®
	Invert Level (m)	32.750	
	Design Depth (m)	0.690	
	Design Flow (L/s)	1.4	
	Objective	Minimise Upstream Storage Requirements	
	Application	Surface Water Only	
	Sump Available	☐	
	Unit Reference	CHE-0059-1400-0690-1400	
			

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	Date: 01/09/2026			
	Designed by: EE	Checked by: AJ	Approved By: RMF	
Report Details: Type: Stormwater Controls Storm Phase: Project SS 133KV 10C	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



PP 132kV 10C

Type : Porous Paving

Dimensions

Exceedance Level (m)	33.440
Depth (m)	0.640
Base Level (m)	32.800
Paving Layer Depth (mm)	80
Membrane Percolation (m/hr)	32.4
Porosity (%)	30
Length (m)	99.000
Long. Slope (1:X)	650.00
Width (m)	50.502
Total Volume (m³)	841.177

Under Drain

Height Above Base (m)	0.000
Diameter (mm)	150
No. of Barrels	1
Release Height (m)	0.000
Friction Scheme	Manning's n
n	0.015

Inlets

Inlet

Inlet Type	Lateral Inflow
Incoming Item(s)	132kV 10C
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	8.000
Outlet Type	Free Discharge

Advanced

Conductivity (m/hr)	50.0
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East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
		Designed by: EE	Checked by: AJ		Approved By: RMF
Report Details: Type: Connections Storm Phase: Project SS 133KV 10C		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			

Name	Length (m)	Connection Type	Slope (1:X)	Manning's n	Colebrook-White Roughness (mm)	Diameter / Base Width (mm)	Upstream Cover Level (m)	Upstream Invert Level (m)
8.000	6.305	Pipe	126.102		0.6	150	33.440	32.800
8.001	57.769	Pipe	144.424		0.6	150	33.440	32.750

Name	Downstream Cover Level (m)	Downstream Invert Level (m)	Lock	Flow Restriction (L/s)	Culvert Type	Culvert Entrance
8.000	33.440	32.750	None		(None)	(None)
8.001	32.900	32.350	None	1.4	(None)	(None)

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B	Date: 01/09/2026			
Report Details: Type: Inflow Summary Storm Phase: Project SS 133KV 10C	Designed by: EE	Checked by: AJ	Approved By: RMF	
	Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			

Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
132kV 10C	PP 132kV 10C		Time of Concentration	0.50	100	0	100	0.50
TOTAL		0.0		0.50				0.50

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
		Designed by: EE	Checked by: AJ		Approved By: RMF
Report Details: Type: Junctions Summary Storm Phase: Project SS 133KV 10C		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



FEH10C: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
FC10C	FEH10C: 2 years: +0 %: 360 mins: Summer	33.440	32.750	32.929	0.179	0.000	1.3	43.392	Surcharged
OF10C	FEH10C: 2 years: +0 %: 360 mins: Summer		32.350	32.380	0.030		1.3	43.315	OK

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
		Designed by: EE	Checked by: AJ		Approved By: RMF
Report Details: Type: Junctions Summary Storm Phase: Project SS 133KV 10C		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



FEH10C: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
FC10C	FEH10C: 30 years: +0 %: 60 mins: Summer	33.440	32.750	32.959	0.209	0.000	1.3	6.228	Surcharged
OF10C	FEH10C: 30 years: +0 %: 1440 mins: Winter		32.350	32.380	0.030		1.3	138.225	OK

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
		Designed by: EE	Checked by: AJ		Approved By: RMF
Report Details: Type: Junctions Summary Storm Phase: Project SS 133KV 10C		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



FEH10C: 30 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
FC10C	FEH10C: 30 years: +40 %: 30 mins: Summer	33.440	32.750	32.960	0.210	0.000	1.3	2.886	Surcharged
OF10C	FEH10C: 30 years: +40 %: 1440 mins: Winter		32.350	32.380	0.030		1.3	156.950	OK

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
		Designed by: EE	Checked by: AJ		Approved By: RMF
Report Details: Type: Junctions Summary Storm Phase: Project SS 133KV 10C		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



FEH10C: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
FC10C	FEH10C: 100 years: +0 %: 30 mins: Summer	33.440	32.750	32.947	0.197	0.000	1.3	3.227	Surcharged
OF10C	FEH10C: 100 years: +0 %: 1440 mins: Summer		32.350	32.380	0.030		1.3	159.299	OK

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
		Designed by: EE	Checked by: AJ		Approved By: RMF
Report Details: Type: Junctions Summary Storm Phase: Project SS 133KV 10C		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



FEH10C: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
FC10C	FEH10C: 100 years: +45 %: 15 mins: Summer	33.440	32.750	32.949	0.199	0.000	1.3	1.440	Surcharged
OF10C	FEH10C: 100 years: +45 %: 1440 mins: Summer		32.350	32.380	0.030		1.3	186.436	OK

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
		Designed by: EE	Checked by: AJ		Approved By: RMF
Report Details: Type: Stormwater Controls Summary Storm Phase: Project SS 133KV 10C		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



FEH10C: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
PP 132kV 10C	FEH10C: 2 years: +0 %: 720 mins: Winter	33.001	32.945	0.048	0.145	9.0	122.221	0.000	1.4	87.114		OK

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
		Designed by: EE	Checked by: AJ		Approved By: RMF
Report Details: Type: Stormwater Controls Summary Storm Phase: Project SS 133KV 10C		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



FEH10C: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
PP 132kV 10C	FEH10C: 30 years: +0 %: 2160 mins: Winter	33.079	33.078	0.127	0.278	7.8	303.870	0.000	1.4	207.696		OK

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
		Designed by: EE	Checked by: AJ		Approved By: RMF
Report Details: Type: Stormwater Controls Summary Storm Phase: Project SS 133KV 10C		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



FEH10C: 30 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
PP 132kV 10C	FEH10C: 30 years: +40 %: 2160 mins: Winter	33.176	33.174	0.224	0.374	10.8	449.053	0.000	1.4	238.040	485	OK

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
		Designed by: EE	Checked by: AJ		Approved By: RMF
Report Details: Type: Stormwater Controls Summary Storm Phase: Project SS 133KV 10C		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



FEH10C: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

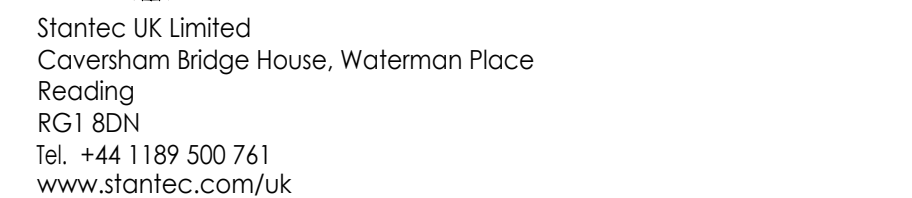
Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
PP 132kV 10C	FEH10C: 100 years: +0 %: 2160 mins: Winter	33.190	33.188	0.238	0.388	11.3	470.081	0.000	1.4	242.293	810	OK

East Pye Solar: East Pye Solar DCO Substation Drainage 4B, 5A, 7F & 10C Access Track Drainage 4B		Date: 01/09/2026			
		Designed by: EE	Checked by: AJ		Approved By: RMF
Report Details: Type: Stormwater Controls Summary Storm Phase: Project SS 133KV 10C		Stantec UK Ltd.: Caversham Bridge House Waterman Place Reading RG1 8DN			



FEH10C: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Resident Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Status
PP 132kV 10C	FEH10C: 100 years: +45 %: 2880 mins: Winter	33.355	33.352	0.403	0.552	13.0	717.175	0.000	1.4	377.137		OK



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1. ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE.
2. TOPOGRAPHICAL SURVEY BASED ON DRAWING 66883NOLS-03 REV A, BY SURVEY SOLUTIONS, DATED 2024-10-04.
3. LAYOUT TAKEN FROM DRAWING DRAINING EAST PYLE SALT FARM, BY SURVEY AND GREEN POWER, DATED 19-11-2025, BESS LAYOUT BASED ON UPDATED LAYOUT 11-11-2025.
4. FORM AND DEPTH OF ATTENUATION TO BE REFINED AT DETAILED DESIGN STAGE.
5. SUB-STATION COMPOUNDS TO INCORPORATE BUNDS AT LOWEST POINTS TO CONTAIN SURFACE WATER RUN-OFF AS REQUIRED.
6. ACCESS TRACKS WITHIN SUB-SITES AND THAT CONNECT ELEMENTS OF THE SCHEME (AND WHERE REQUIRED WITHIN BESS AND SUBSTATION COMPOUNDS) TO DRAIN DRAINS, TRENCHES OR FILTER DRAINS RUNNING PARALLEL WITH THE TRACKS.

	ORDER LIMITS		WORK 4 - NATIONAL GRID SUBSTATION
	EXISTING DITCH		WORK 6 - 132kV AND 400kV PROJECT SUBSTATIONS
	ACCESS TRACK		PROPOSED SOLID SURFACE WATER PIPE
	AGGREGATE SUB-BASE		PROPOSED FLOW CONTROL CHAMBER
	PROPOSED SWALE		PROPOSED HEADWALL

	Ex Elec 011KV oh		Ex Comms BT Ducts
	Ex Elec 400KV oh		Ex BT Overhead Lines
	Ex Elec Lv oh		Ex Water
	Ex Elec Lv		Abandoned
	Ex Elec 011KV		Ex Comms Gicaclear
	Ex Gas Low Pressure		Ex Gas Intermediate Pressure
	Ex Gas High Pressure		

P02 SWALES ADDED	EE	-	2026.10.02
P01 FIRST ISSUE	EE	-	2026.03.04
Issued/Revision	By	Appd	YYYY.MM.DD
	GD	EE	-
	Dwn.	Dsgn.	Chkd.
			YYYY.MM.DD

S2 - FOR INFORMATION

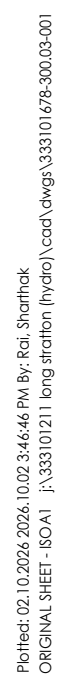
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Client/Project
EAST PYE SOLAR Ltd.

Title

CONCEPT SURFACE WATER DRAINAGE
NATIONAL GRID AND 400KV PROJECT
SUBSTATION SUB-SITE 1B

Project No. 333101678	AI Scale AS SHOWN
Revision P02	Drawing No. 333101678-300.03-01





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Notes

UTILITIES NOTE: The position of any existing public or private sewers, utility services, plant or apparatus shown on this drawing is believed to be correct, but no warranty to this is expressed or implied. Other such plant or apparatus may also be present but not shown. The Contractor is therefore advised to undertake their own investigation where the presence of any existing sewers, services, plant or apparatus may affect their operations.

1. ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE.
2. TOPOGRAPHICAL SURVEY BASED ON DRAWING 66883NOLS-03 REV A, BY SURVEY SOLUTIONS, DATED 2024.10.04.
3. LAYOUT TAKEN FROM DRAWING DRAIVING EAST PYE SOLAR FARM, BY ISLAND GREEN POWER UK, DATED 11.01.2025, BESS LAYOUT BASED ON UPDATED LAYOUT 11.01.2025.
4. FORM AND DEPTH OF ATTENUATION TO BE REFINED AT DETAILED DESIGN STAGE
5. BESS FACILITY (AND WHERE APPROPRIATE SUBSTATION COMPOUNDS) TO ACCOMMODATE BUNDS AT LOWEST POINTS OF COMPOUND TO CONTAIN SURFACE AND FIREWATER RUNOFF.
6. ACCESS TRACKS WITHIN SUB-SITES AND THAT CONNECT ELEMENTS OF THE SCHEME (AND WHERE REQUIRED WITHIN BESS AND SUBSTATION COMPOUNDS) TO DRIVE LORRIES OR FILTER DRAINS RUNNING PARALLEL WITH THE TRACKS.

KEY:

- | | | | |
|---|--------------------|---|--|
|  | ORDER LIMITS |  | WORK 4 - NATIONAL GRID SUBSTATION |
|  | EXISTING DITCH |  | WORK 6 - 132kV AND 400kV PROJECT SUBSTATIONS |
|  | ACCESS TRACK |  | PROPOSED SOLID SURFACE WATER PIPE |
|  | AGGREGATE SUB-BASE |  | PROPOSED FLOW CONTROL CHAMBER |
|  | PROPOSED SWALE |  | PROPOSED HEADWALL |

UTILITIES KEY:

- | | |
|----------------------|------------------------------|
| Ex Elec 011kV oh | Ex Comms BT Ducts |
| Ex Elec 400kV oh | Ex BT Overhead Lines |
| Ex Elec Lv oh | Ex Water |
| Ex Elec Lv | Abandoned |
| Ex Elec 011kV | Ex Comms Gigaclear |
| Ex Gas Low Pressure | Ex Gas Intermediate Pressure |
| Ex Gas High Pressure | |

P02 SWALES ADDED	EE	-	2026.10.02
P01 FIRST ISSUE	EE	-	2026.03.04
Issued/Revision	By	Appd	YYYY.MM.DD
	GD	-	2026.03.04
	Dwn.	Dsgn.	Chkd.
			YYYY.MM.DD

Issue Status

S2 - FOR INFORMATION

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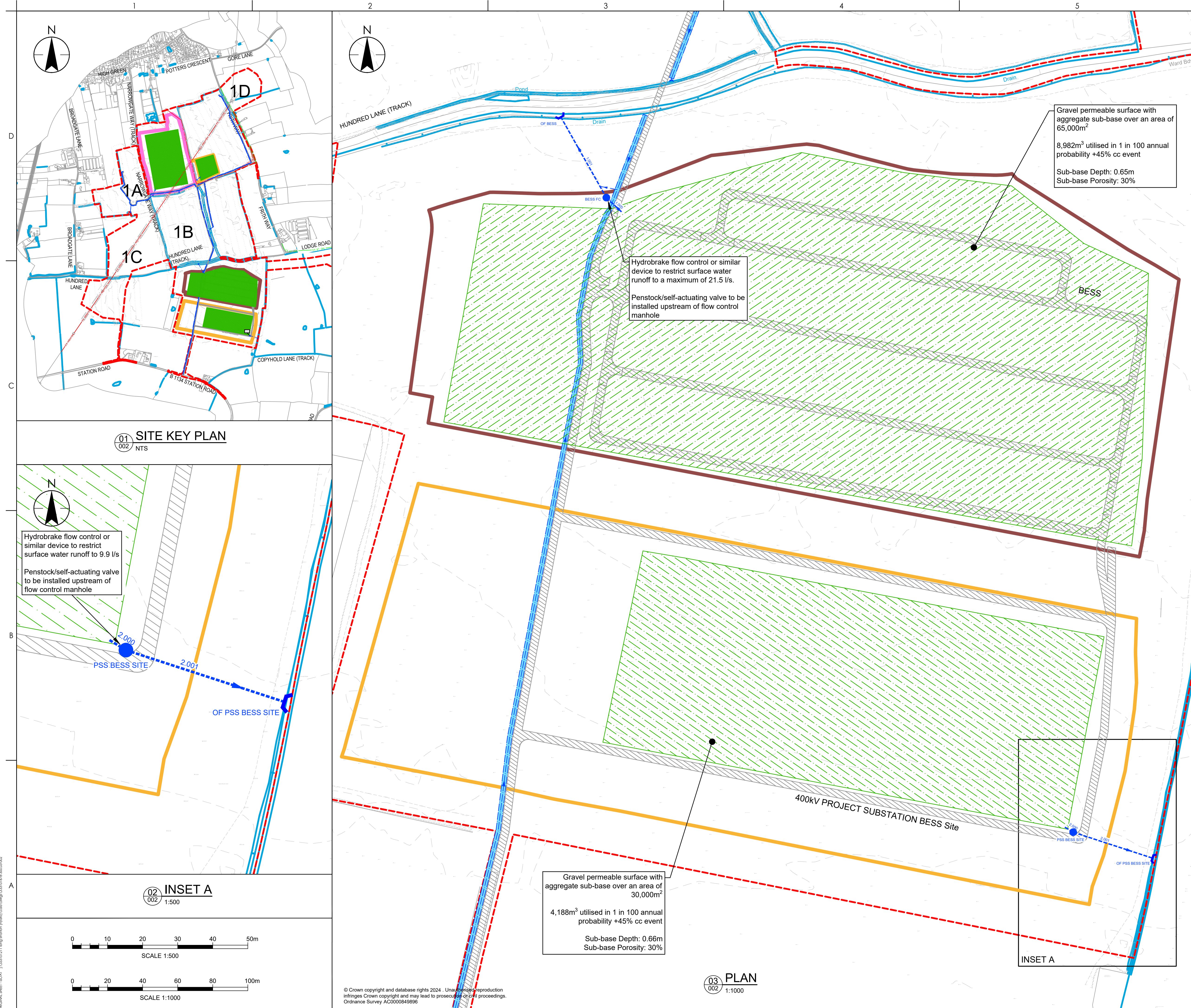
Client/Project Logo

Client/Project
EAST PYE SOLAR Ltd.

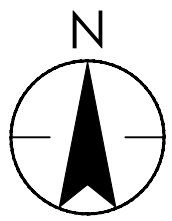
Title

CONCEPT SURFACE WATER DRAINAGE
BESS AND 400KV PROJECT SUBSTATION
BESS SITE

Project No. 333101678	AI Scale AS SHOWN
Revision P02	Drawing No. 333101678-300.03-01



Printed: 02.10.2026 20:02 3:48:16 PM By: Raj, Sharthak
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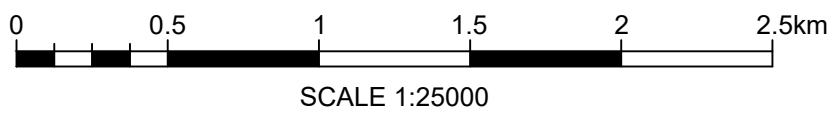
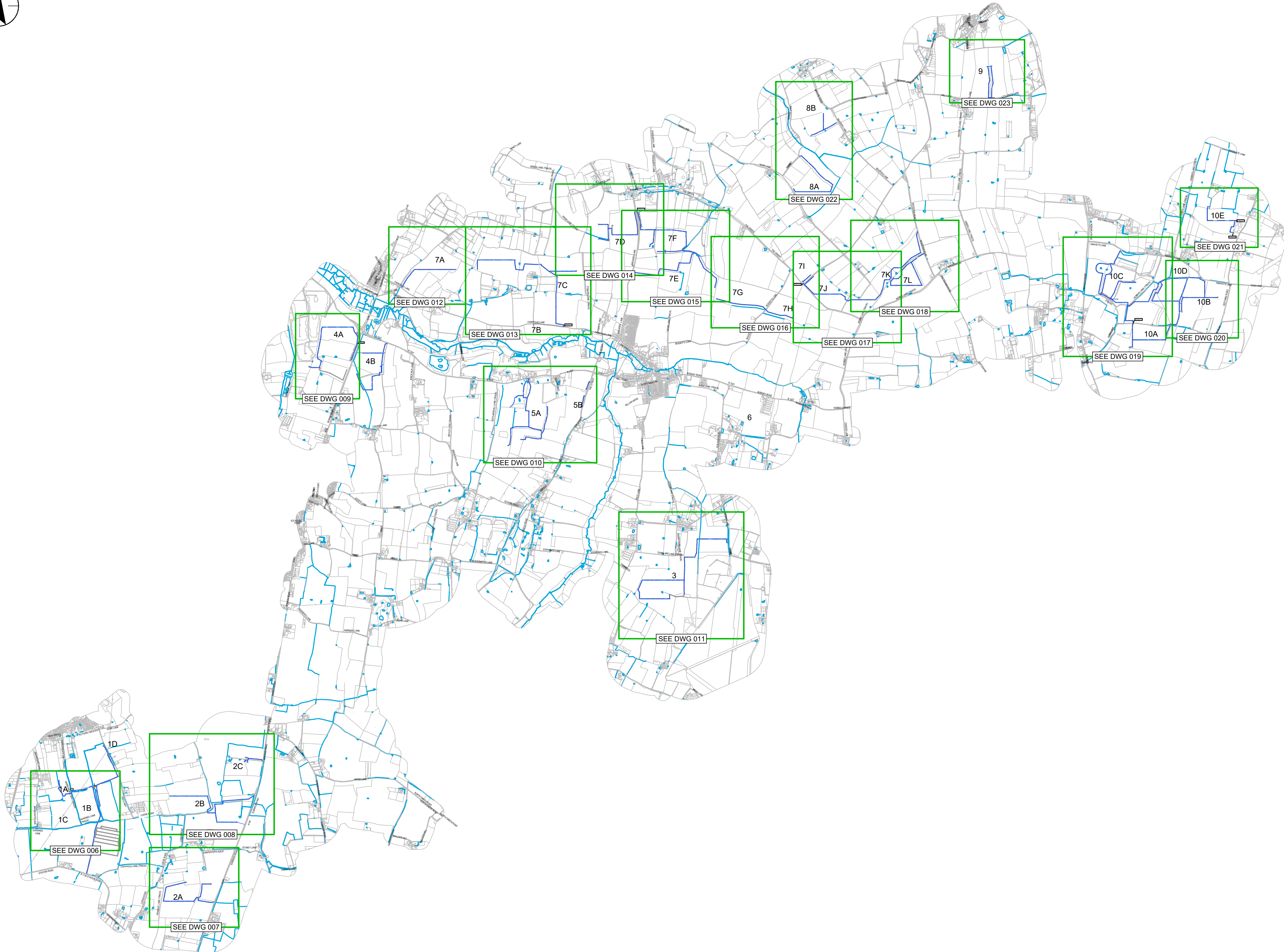


D

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4. FORM AND DEPTH OF ATTENUATION TO BE REFINED AT DETAILED DESIGN STAGE.

KEY:

- ORDER LIMITS
- PROPOSED SWALE
- EXISTING WATERCOURSES

PO1 FIRST ISSUE	EE	-	2026.10.02
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Title
OVERALL CONCEPT ACCESS TRACK DRAINAGE

Project No. 333101678	A1 Scale AS SHOWN
Revision P01	Drawing No. 333101678-300.03-003



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4. FORM AND DEPTH OF ATTENTION TO BE REFINED AT DETAILED DESIGN STAGE.
5. SUB-STATION COMPOUNDS TO INCORPORATE BUNDS AT LOWEST POINTS TO CONTAIN SURFACE WATER RUNOFF AS REQUIRED.
6. ACCESS TRACKS WITHIN SUB-SITES AND THAT CONNECT ELEMENTS OF THE SCHEME (AND WHERE REQUIRED WITHIN BESS AND SUBSTATION COMPOUNDS) TO DRAIN TO SWALES OR FILTER DRAINS RUNNING PARALLEL WITH THE TRACKS.

KEY:

- | | | | |
|---|--------------------|---|--|
|  | ORDER LIMITS |  | WORK 6 - 132KV AND 400KV PROJECT SUBSTATIONS |
|  | EXISTING DITCH |  | ORIFICE FLOW CONTROL |
|  | ACCESS TRACK |  | PROPOSED SOLID SURFACE FLOW PIPE |
|  | AGGREGATE SUB-BASE |  | PROPOSED FLOW CONTROL CHAMBER |
|  | PROPOSED SWALE |  | PROPOSED HEADWALL |
|  | FENCING | | |

UTILITIES KEY:

- | | | | |
|---|----------------------|---|------------------------------|
|  | Ex Elec 011kV oh |  | Ex Comms BT Ducts |
|  | Ex Elec 400kV oh |  | Ex BT Overhead Lines |
|  | Ex Elec Lv oh |  | Ex Water |
|  | Ex Elec Lv |  | Abandoned |
|  | Ex Elec 011kV |  | Ex Comms Gigaclear |
|  | Ex Gas Low Pressure |  | Ex Gas Intermediate Pressure |
|  | Ex Gas High Pressure | | |

P01	FIRST ISSUE	EE	-	2026.10.02
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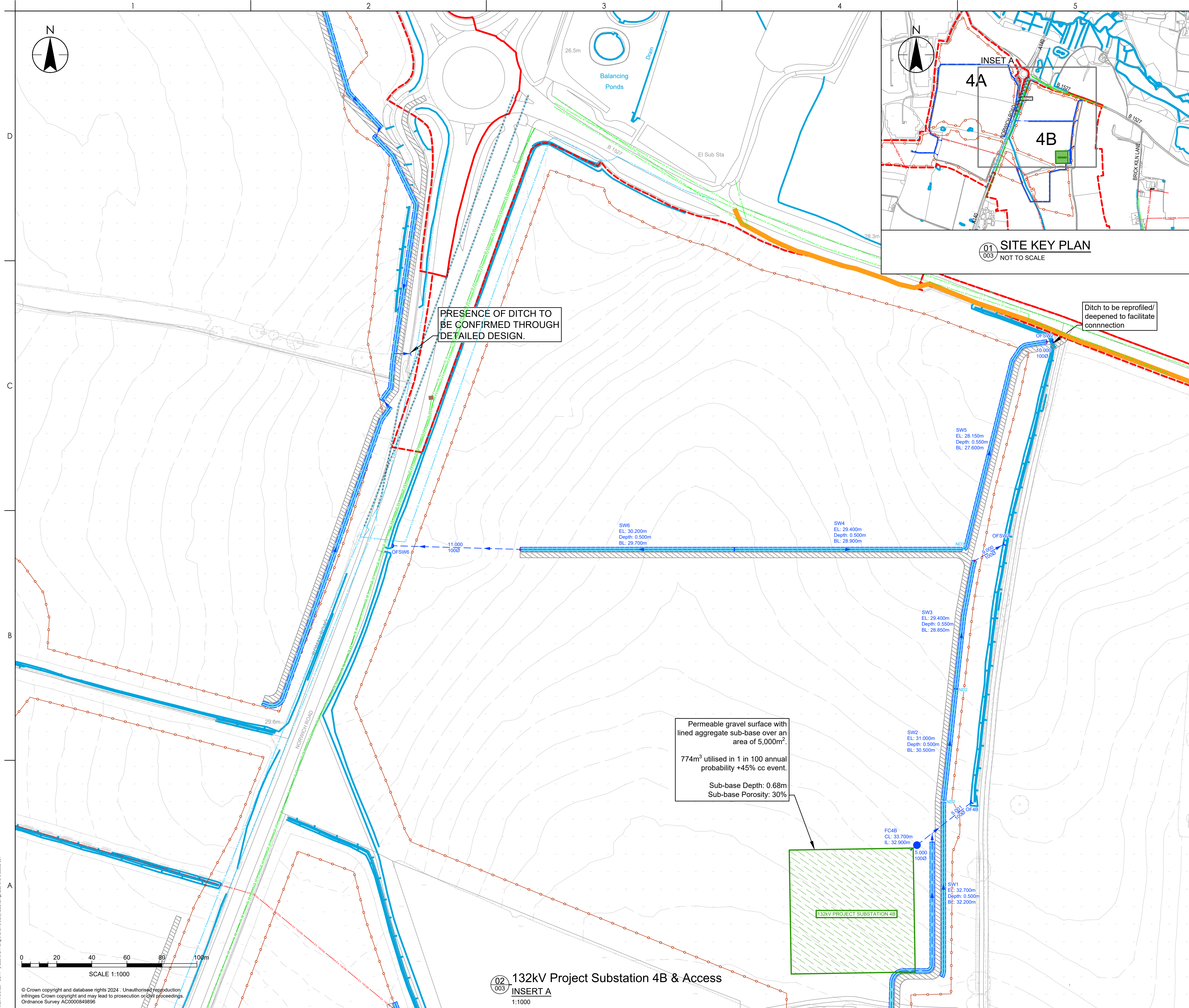
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EAST PYE SOLAR Ltd.

Title

OUTLINE SURFACE WATER DRAINAGE
400kV PROJECT SUBSTATION & ACCESS
SUB-SITE 4B

Project No. 333101678	AT Scale AS SHOWN
Revision P01	Drawing No. 333101678-300.03-004





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4. FORM AND DEPTH OF ATTENUATION TO BE REFINED AT DETAILED DESIGN STAGE.
5. SUB-STATION COMPOUNDS TO INCORPORATE BUNDS AT LOWEST POINTS TO CONTAIN SURFACE WATER RUNOFF AS REQUIRED.
6. ACCESS TRACKS WITHIN SUB-SITES AND THAT CONNECT ELEMENTS OF THE SCHEME (AND WHERE REQUIRED WITHIN BESS AND SUBSTATION COMPOUNDS) TO DRAIN TO DRAINS OR FILTER DRAINS RUNNING PARALLEL WITH THE TRACKS.

KEY:

- | | | | |
|---|--------------------|---|--|
|  | ORDER LIMITS |  | WORK 6 - 132KV AND 400KV PROJECT SUBSTATIONS |
|  | EXISTING DITCH |  | ORIFICE FLOW CONTROL |
|  | ACCESS TRACK |  | PROPOSED SOLID SURFACE WATER PIPE |
|  | AGGREGATE SUB-BASE |  | PROPOSED FLOW CONTROL CHAMBER |
|  | PROPOSED SWALE |  | PROPOSED HEADWALL |
|  | FENCING | | |

UTILITIES KEY:

- | | | | |
|---|----------------------|---|------------------------------|
|  | Ex Elec 011kV oh |  | Ex Comms BT Ducts |
|  | Ex Elec 400kV oh |  | Ex BT Overhead Lines |
|  | Ex Elec Lv oh |  | Ex Water |
|  | Ex Elec Lv |  | Abandoned |
|  | Ex Elec 011kV |  | Ex Comms Gigaclear |
|  | Ex Gas Low Pressure |  | Ex Gas Intermediate Pressure |
|  | Ex Gas High Pressure | | |

P01 FIRST ISSUE	EE	-	2026.10.02
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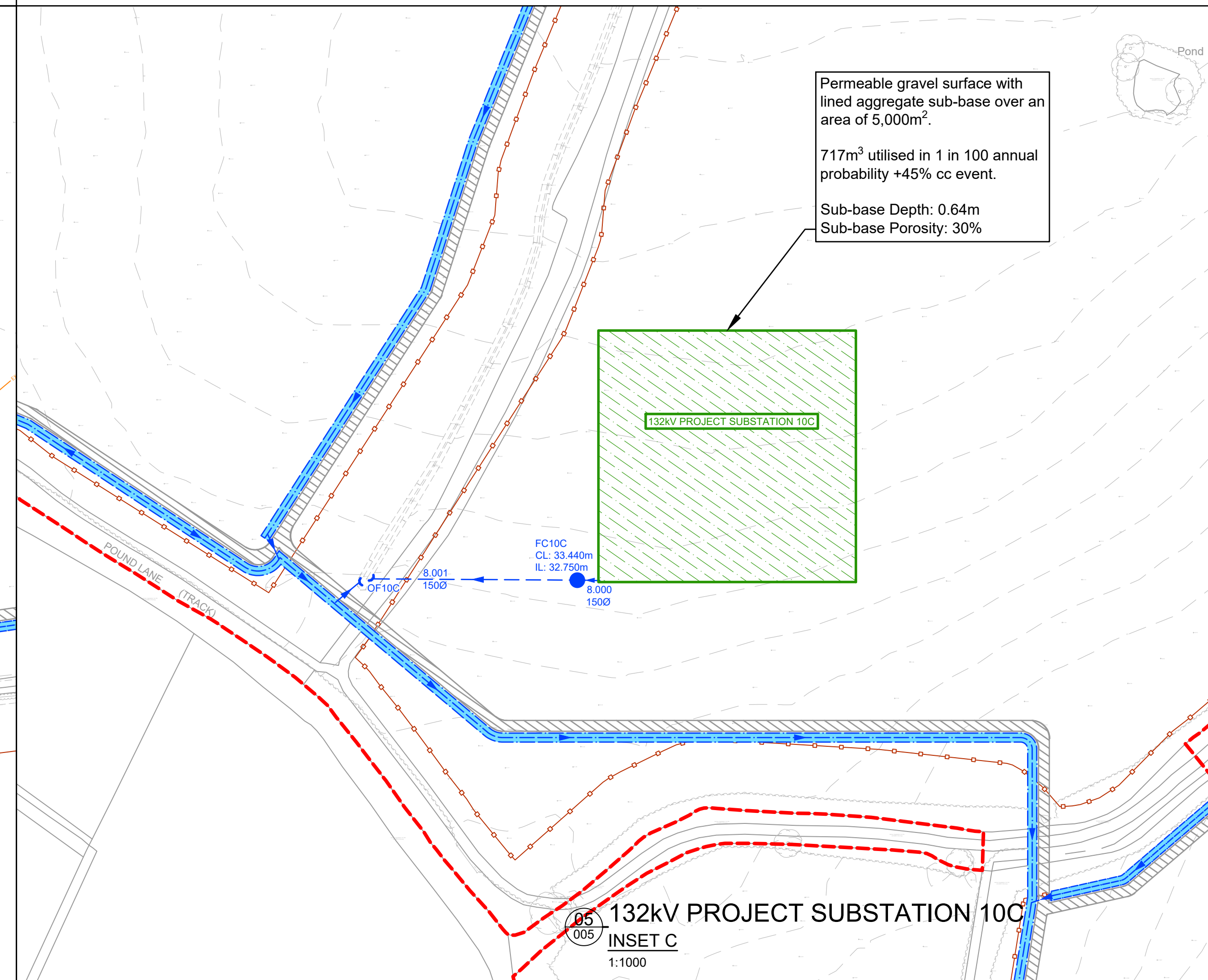
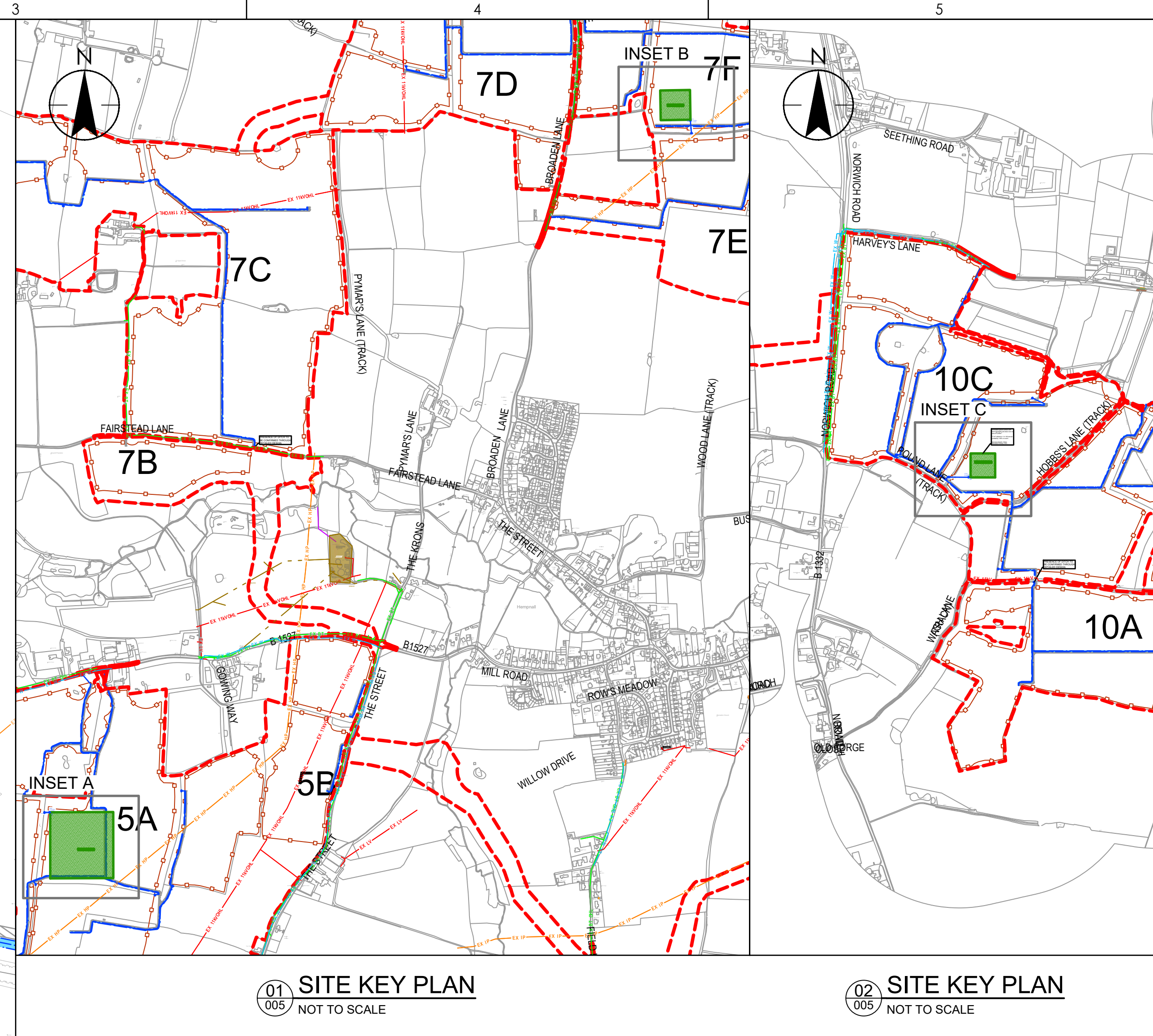
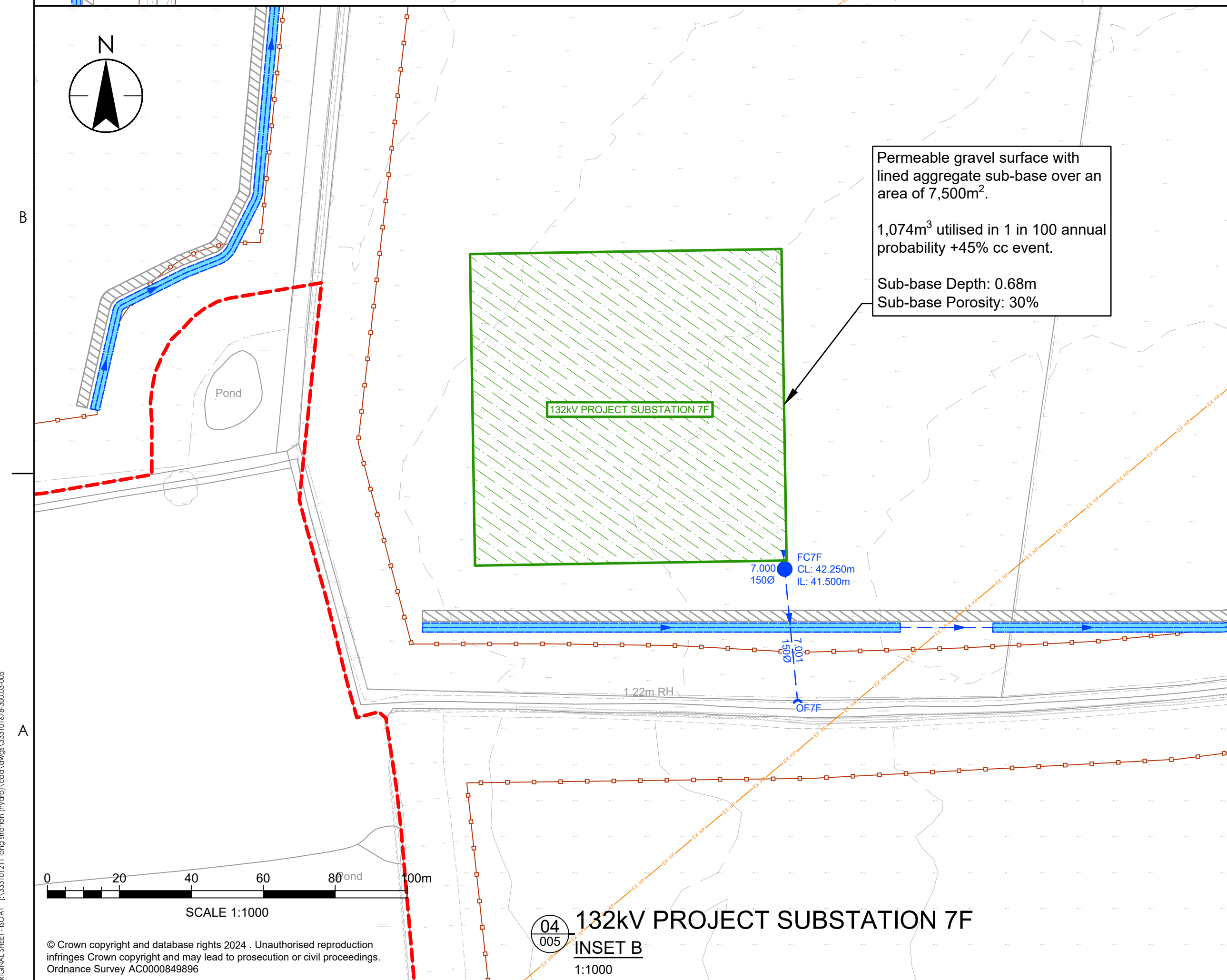
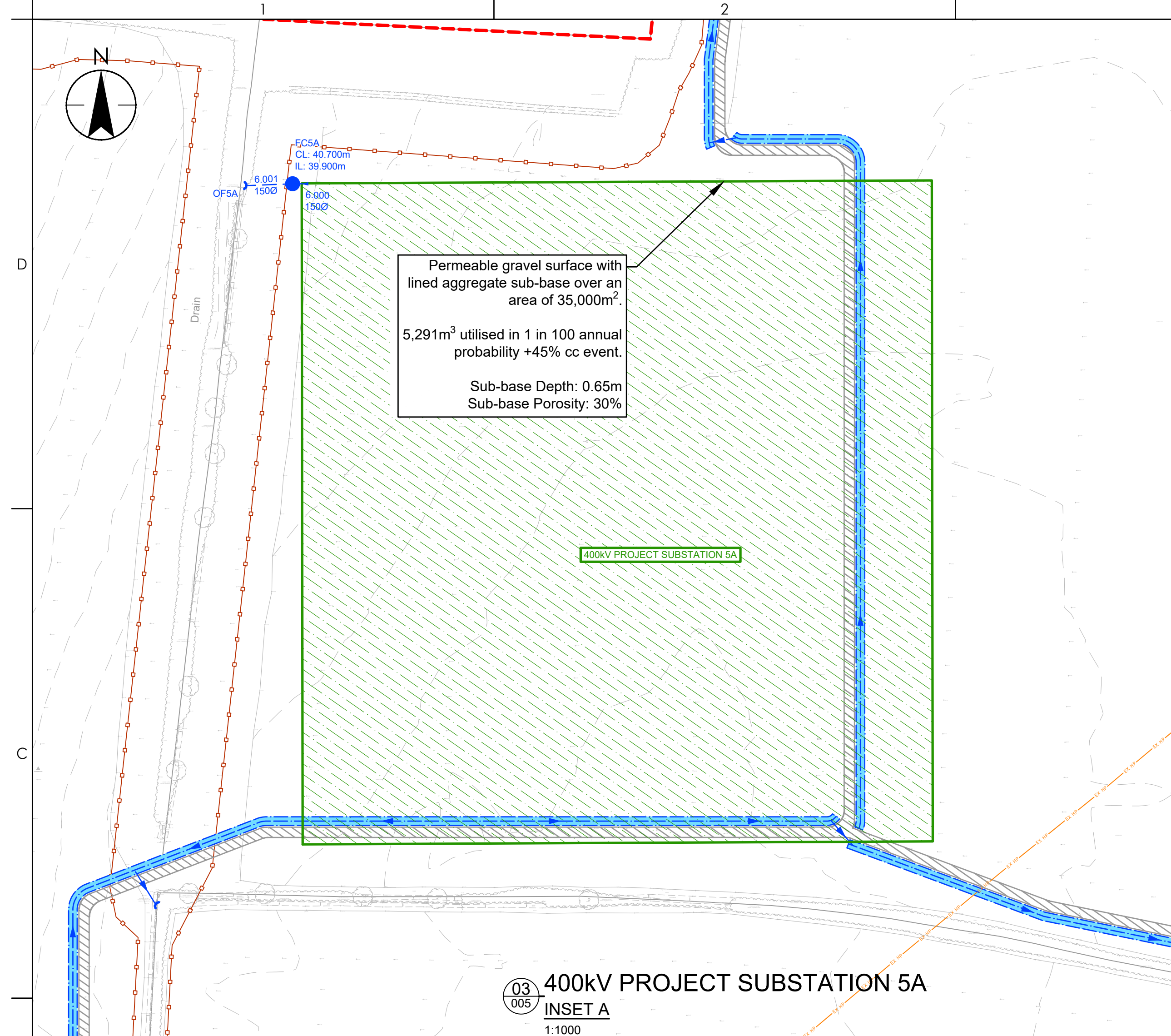
Title
OUTLINE SURFACE WATER DRAINAGE
PROJECT SUBSTATIONS 5A, 7F & 10C

Project No.
333101678

Drawing No.

A1 Scale
AS SHOWN

333101678-300.03-005



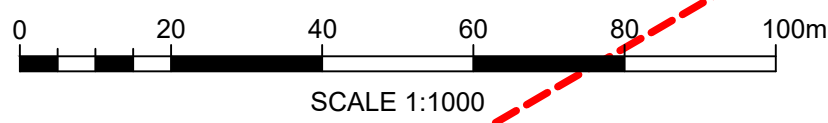


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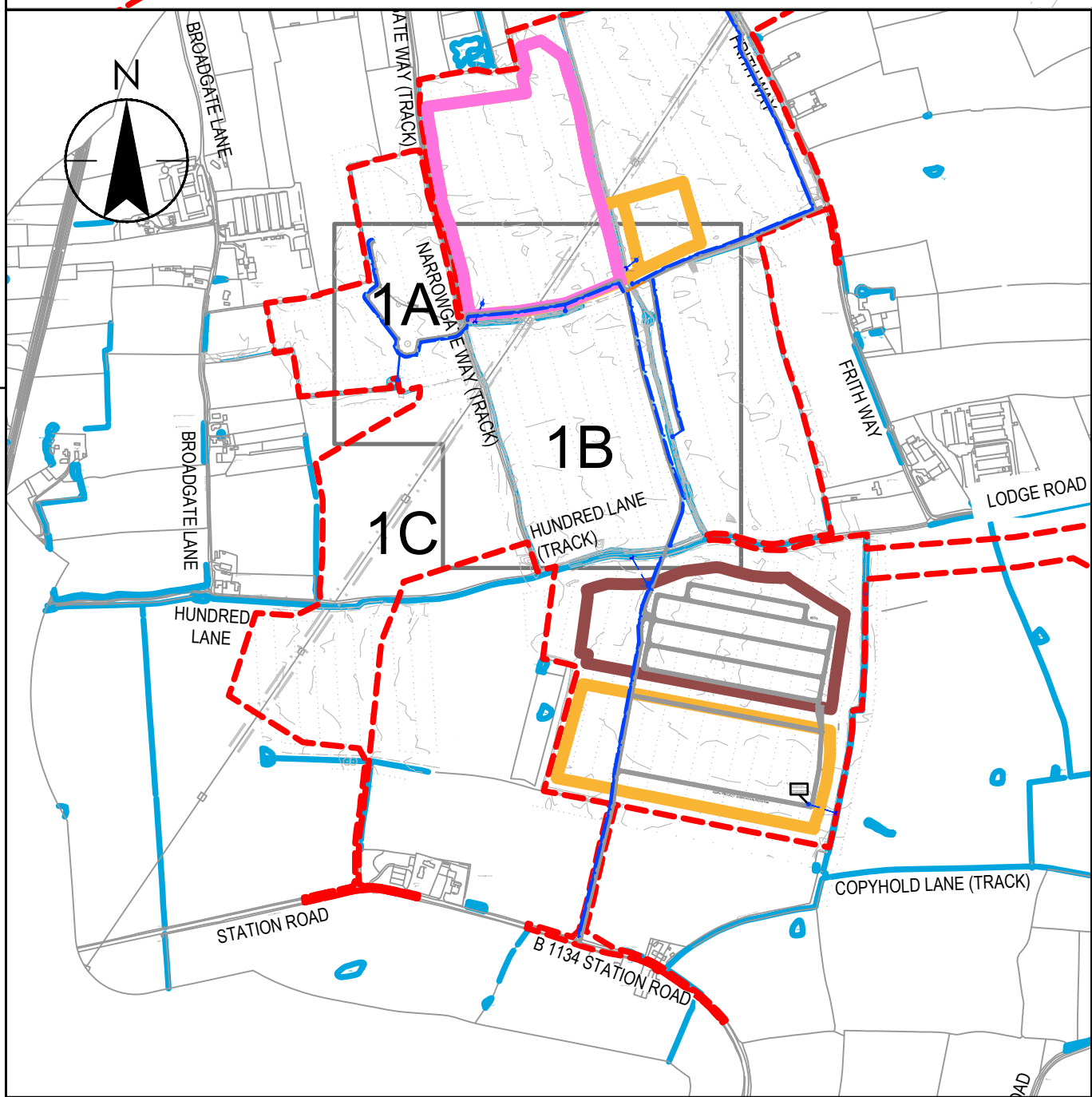
C

B

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01 SITE KEY PLAN
006 NTS

02 PLAN
006 1:1000



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- FORM AND DEPTH OF ATTENUATION TO BE REFINED AT DETAILED DESIGN STAGE.
- BESS FACILITY (AND WHERE APPROPRIATE SUBSTATION COMPOUNDS) TO INCORPORATE BUNDS AT LOWEST POINTS OF COMPOUND TO CONTAIN SURFACE AND FIREWATER RUNOFF.
- ACCESS TRACKS WITHIN SUB-SITES AND THAT CONNECT ELEMENTS OF THE SCHEME (AND WHERE REQUIRED WITHIN BESS AND SUBSTATION COMPOUNDS) TO DRAIN TO SWALES OR FILTER DRAINS RUNNING PARALLEL WITH THE TRACKS.

KEY:

- | | | | |
|--|--------------------|--|--|
| | ORDER LIMITS | | WORK 4 - NATIONAL GRID SUBSTATION |
| | EXISTING DITCH | | WORK 6 - 132KV AND 400KV PROJECT SUBSTATIONS |
| | ACCESS TRACK | | PROPOSED SOLID SURFACE WATER PIPE |
| | AGGREGATE SUB-BASE | | PROPOSED FLOW CONTROL CHAMBER |
| | PROPOSED SWALE | | PROPOSED HEADWALL |

UTILITIES KEY:

- | | | | |
|--|----------------------|--|------------------------------|
| | Ex Elec 011kV oh | | Ex Comms BT Ducts |
| | Ex Elec 400kV oh | | Ex BT Overhead Lines |
| | Ex Elec LV oh | | Ex Water |
| | Ex Elec LV | | Abandoned |
| | Ex Elec 011kV | | Ex Comms Gigaclear |
| | Ex Gas Low Pressure | | Ex Gas Intermediate Pressure |
| | Ex Gas High Pressure | | |

PD1 FIRST ISSUE	EE	-	2026.10.02
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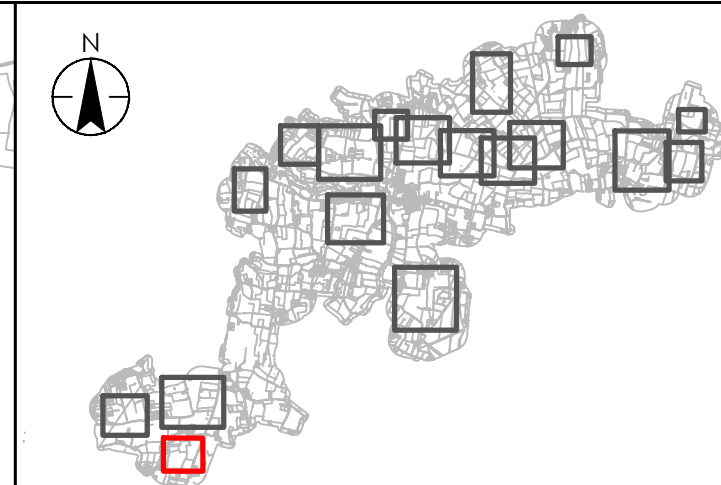
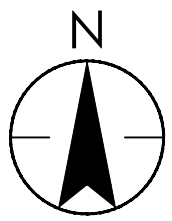
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Title
CONCEPT SURFACE WATER DRAINAGE
SITES 1A AND 1B

Project No. 333101678	A1 Scale AS SHOWN
Revision P01	Drawing No. 333101678-300.03-006



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- FORM AND DEPTH OF ATTENUATION TO BE REFINED AT DETAILED DESIGN STAGE.

KEY:

- | | |
|----------------|-----------------------------------|
| ORDER LIMITS | PROPOSED SOLID SURFACE WATER PIPE |
| EXISTING DITCH | PROPOSED FLOW CONTROL CHAMBER |
| ACCESS TRACK | PROPOSED HEADWALL |
| PROPOSED SWALE | FENCING |

UTILITIES KEY:

- | | |
|----------------------|------------------------------|
| Ex Elec 011kV oh | Ex Comms BT Ducts |
| Ex Elec 400kV oh | Ex BT Overhead Lines |
| Ex Elec Lv oh | Ex Water |
| Ex Elec Lv | Abandoned |
| Ex Elec 011kV | Ex Comms Gigaclear |
| Ex Gas Low Pressure | Ex Gas Intermediate Pressure |
| Ex Gas High Pressure | |

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Title
CONCEPT ACCESS TRACK DRAINAGE
SITE 2A

Project No.	A1 Scale
333101678	AS SHOWN
Revision	Drawing No.
P01	333101678-300.03-007

D

C

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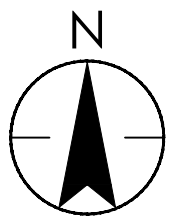
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0 20 40 60 80 100m
SCALE 1:1000

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02
007
SITE 2A PLAN
1:1500

Project: 333101678-300.03-007
Drawing: 333101678-300.03-007
Revision: 001
Date: 2025.10.02
Author: J. Smith
Check: J. Smith
Drawn: J. Smith
Title: CONCEPT ACCESS TRACK DRAINAGE SITE 2A



1

2

3

4

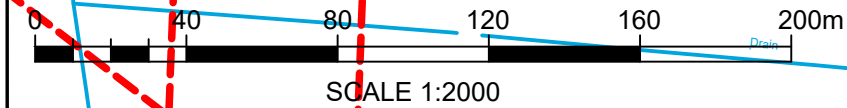
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D

C

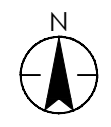
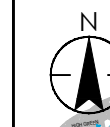
B

A



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02
007 **SITE 2B/2C PLAN**
1:2000



01
007 **SITE KEY PLANS**
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KEY:

- | | |
|----------------|-----------------------------------|
| ORDER LIMITS | PROPOSED SOLID SURFACE WATER PIPE |
| EXISTING DITCH | PROPOSED FLOW CONTROL CHAMBER |
| ACCESS TRACK | PROPOSED HEADWALL |
| PROPOSED SWALE | FENCING |

UTILITIES KEY:

- | | |
|----------------------|------------------------------|
| Ex Elec 011kV oh | Ex Comms BT Ducts |
| Ex Elec 400kV oh | Ex BT Overhead Lines |
| Ex Elec Lv oh | Ex Water |
| Ex Elec Lv | Abandoned |
| Ex Elec 011kV | Ex Comms Gigaclear |
| Ex Gas Low Pressure | Ex Gas Intermediate Pressure |
| Ex Gas High Pressure | |

PD1 FIRST ISSUE	EE	-	2026.10.02
Issued/Revision	By	Appd	YYYY.MM.DD
	GD	EE	-
	Dwn.	Dsgn.	Chkd.
			2026.10.02
			YYYY.MM.DD

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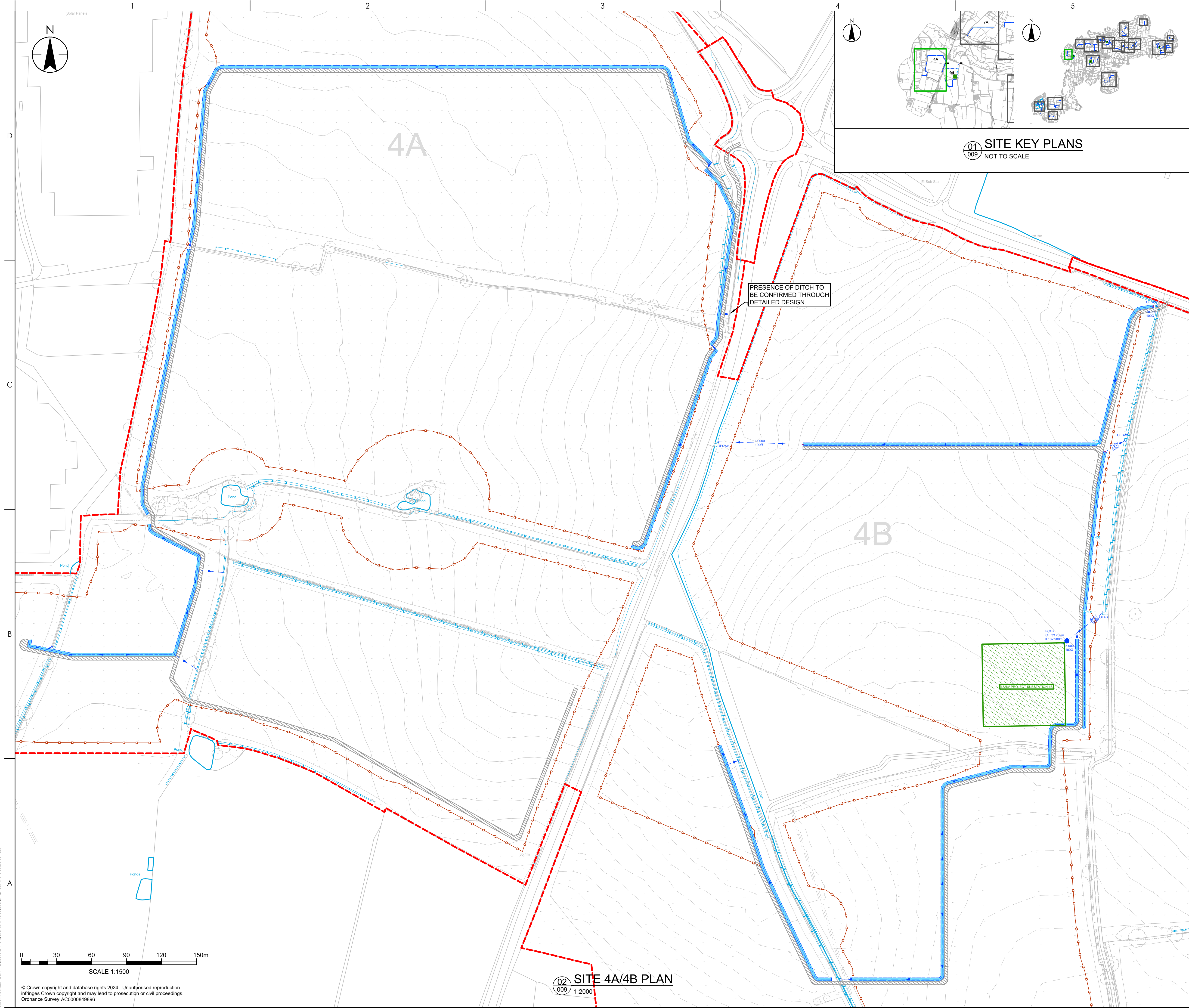
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Title
**CONCEPT ACCESS TRACK DRAINAGE
SITES 2B/2C**

Project No. 333101678	A1 Scale AS SHOWN
Revision P01	Drawing No. 333101678-300.03-008



01
009

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 - FORM AND DEPTH OF ATTENUATION TO BE REFINED AT DETAILED DESIGN STAGE.

KEY:

	ORDER LIMITS		PROPOSED SOLID SURFACE WATER PIPE
	EXISTING DITCH		PROPOSED FLOW CONTROL CHAMBER
	ACCESS TRACK		PROPOSED HEADWALL
	PROPOSED SWALE		FENCING

UTILITIES KEY:

	Ex Elec 011kV oh		Ex Comms BT Ducts
	Ex Elec 400kV oh		Ex BT Overhead Lines
	Ex Elec Lv oh		Ex Water
	Ex Elec Lv		Abandoned
	Ex Elec 011kV		Ex Comms Gigaclear
	Ex Gas Low Pressure		Ex Gas Intermediate Pressure
	Ex Gas High Pressure		

PD1 FIRST ISSUE	EE	-	2026.10.02
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Title

**CONCEPT ACCESS TRACK DRAINAGE
SITES 4A/4B**

Project No. 333101678	A1 Scale AS SHOWN
Revision P01	Drawing No. 333101678-300.03-009



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4. FORM AND DEPTH OF ATTENUATION TO BE REFINED AT DETAILED DESIGN STAGE.

	ORDER LIMITS		PROPOSED SOLID SURFACE WATER PIPE
	EXISTING DITCH		PROPOSED FLOW CONTROL CHAMBER
	ACCESS TRACK		PROPOSED HEADWALL
	PROPOSED SWALE		FENCING

	Ex Elec 011kV oh		Ex Comms BT Ducts
	Ex Elec 400kV oh		Ex BT Overhead Lines
	Ex Elec Lv oh		Ex Water
	Ex Elec Lv		Abandoned
	Ex Elec 011kV		Ex Comms Gigaclear
	Ex Gas Low Pressure		Ex Gas Intermediate Pressure
	Ex Gas High Pressure		

P01 FIRST ISSUE	EE	-	2026.10.02
Issued/Revision	By	Appd	YYYY.MM.DD
	GD	EE	-
	Dwn.	Dsgn.	Chkd.
			2026.10.02
			YYYY.MM.DD

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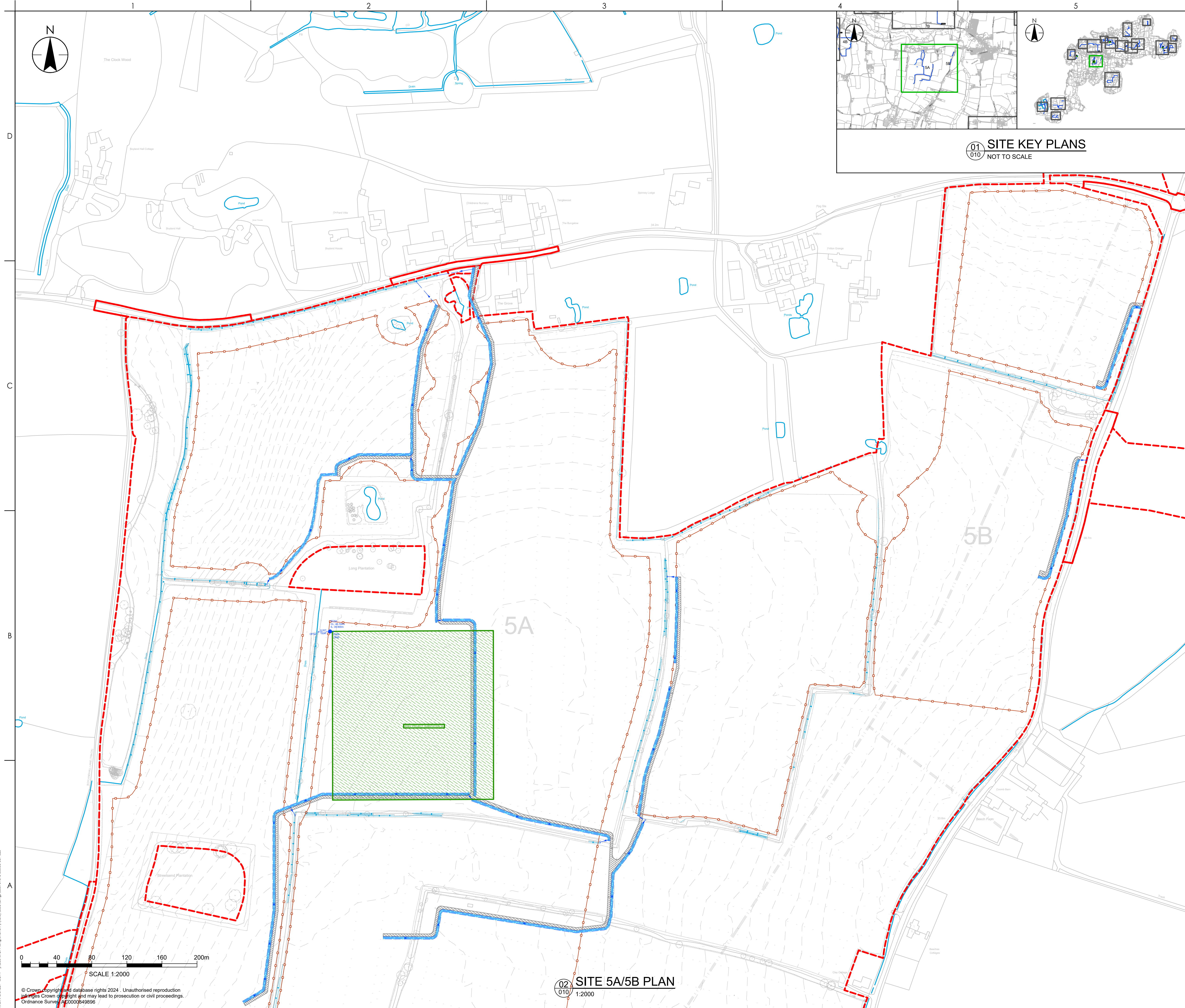
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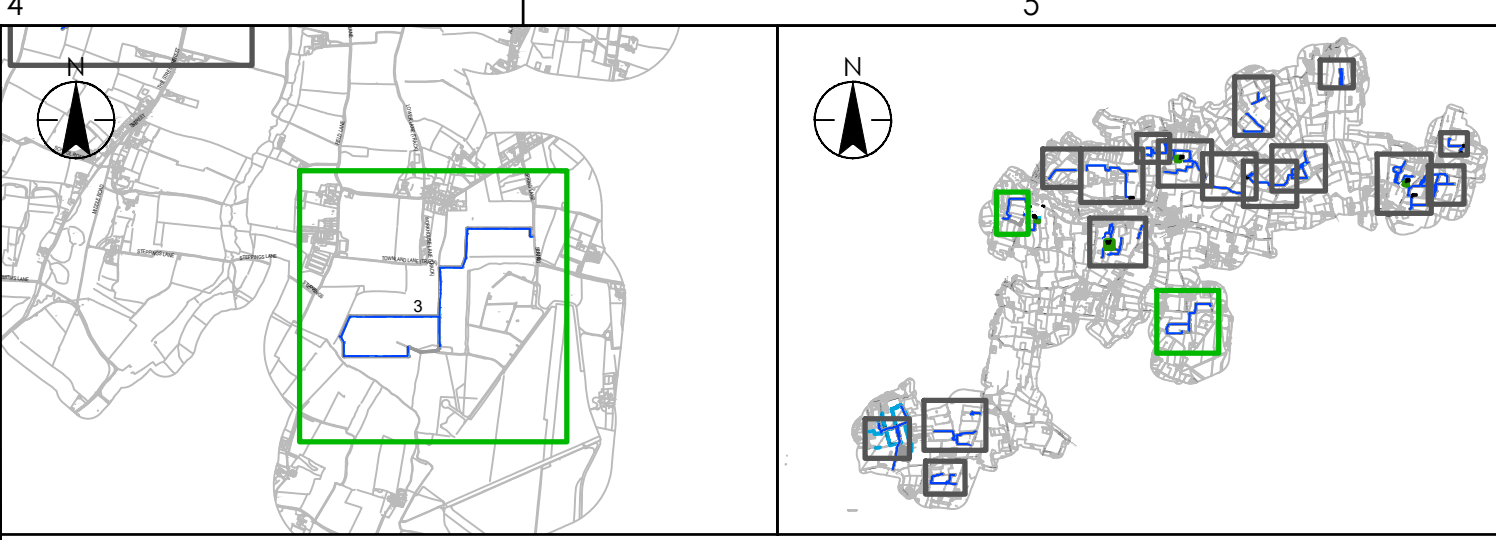
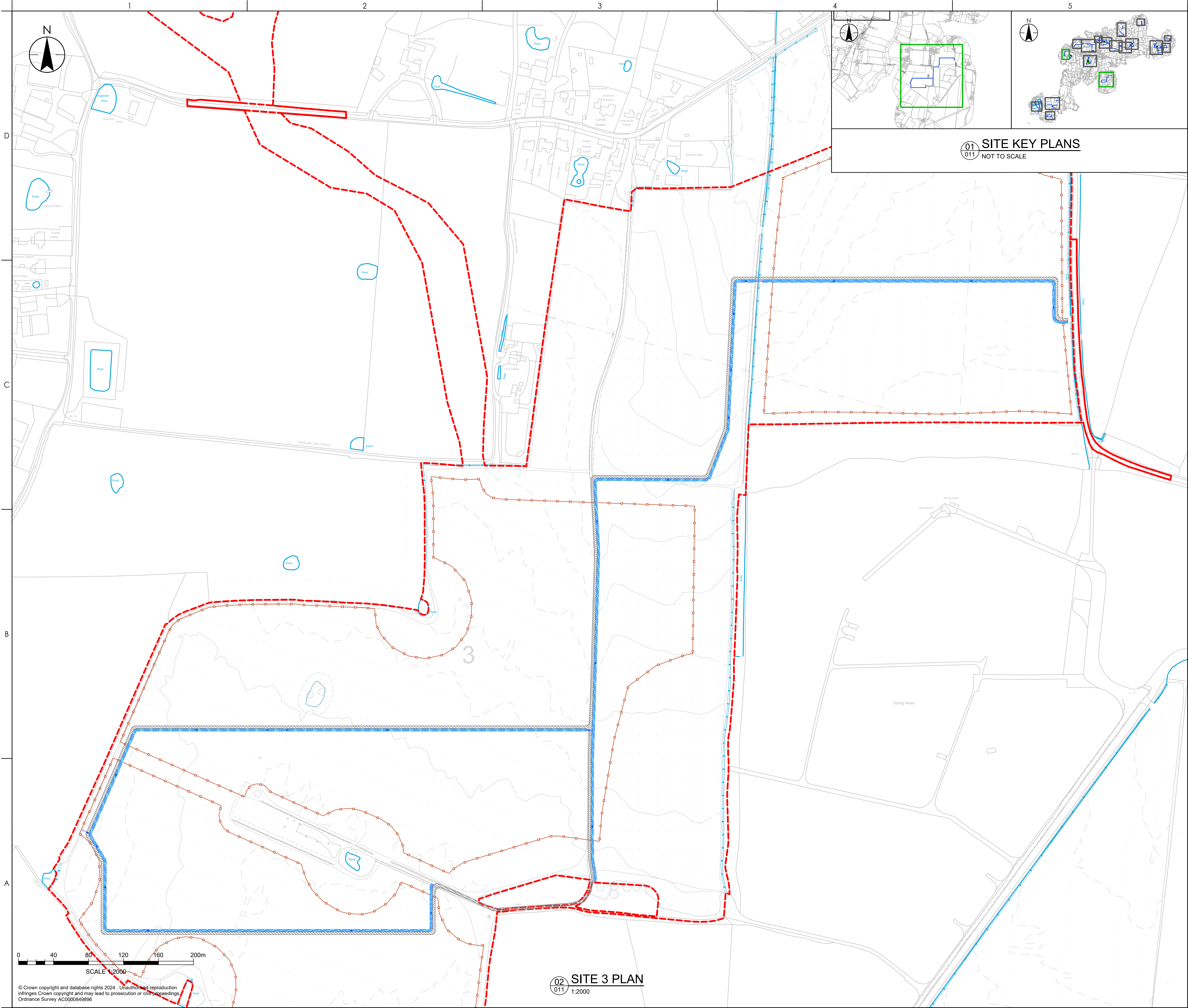
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Client/Project
EAST PYE SOLAR Ltd.

Title
CONCEPT ACCESS TRACK DRAINAGE
SITES 5A/5B

Project No. 333101678	A1 Scale AS SHOWN
Revision P01	Drawing No. 333101678-300.03-010





01 SITE KEY PLANS
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 - FORM AND DEPTH OF ATTENUATION TO BE REFINED AT DETAILED DESIGN STAGE.

KEY:

	ORDER LIMITS		PROPOSED SOLID SURFACE WATER PIPE
	EXISTING DITCH		PROPOSED FLOW CONTROL CHAMBER
	ACCESS TRACK		PROPOSED HEADWALL
	PROPOSED SWALE		FENCING

UTILITIES KEY:

	Ex Elec 011kV oh		Ex Comms BT Ducts
	Ex Elec 400kV oh		Ex BT Overhead Lines
	Ex Elec Lv oh		Ex Water
	Ex Elec Lv		Abandoned
	Ex Elec 011kV		Ex Comms Gigaclear
	Ex Gas Low Pressure		Ex Gas Intermediate Pressure
	Ex Gas High Pressure		

PD1 FIRST ISSUE	EE	-	2026.10.02
Issued/Revision	By	Appd	YYYY.MM.DD
	GD	EE	-
	Dwn.	Dsgn.	Chkd.
			2026.10.02
			YYYY.MM.DD

Issue Status

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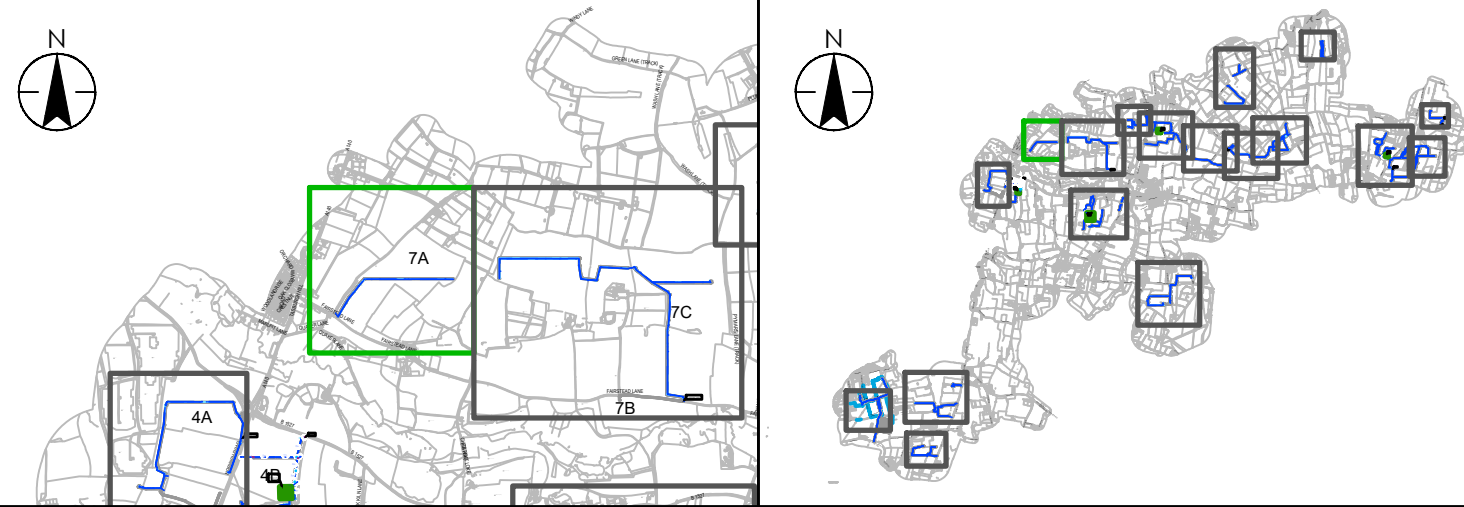
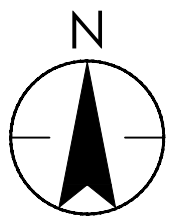
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Client/Project
EAST PYE SOLAR Ltd.

Title
CONCEPT ACCESS TRACK DRAINAGE
SITE 3

Project No. 333101678	A1 Scale AS SHOWN
Revision P01	Drawing No. 333101678-300.03-011

Project: 333101678-300.03-011
Drawing: 333101678-300.03-011
Scale: 1:2000
Date: 2026.10.02
Author: [Redacted]
Check: [Redacted]
Approved: [Redacted]
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- FORM AND DEPTH OF ATTENUATION TO BE REFINED AT DETAILED DESIGN STAGE.

KEY:

- | | | | |
|--|----------------|--|-----------------------------------|
| | ORDER LIMITS | | PROPOSED SOLID SURFACE WATER PIPE |
| | EXISTING DITCH | | PROPOSED FLOW CONTROL CHAMBER |
| | ACCESS TRACK | | PROPOSED HEADWALL |
| | PROPOSED SWALE | | FENCING |

UTILITIES KEY:

- | | | | |
|--|----------------------|--|------------------------------|
| | Ex Elec 011kV oh | | Ex Comms BT Ducts |
| | Ex Elec 400kV oh | | Ex BT Overhead Lines |
| | Ex Elec Lv oh | | Ex Water |
| | Ex Elec Lv | | Abandoned |
| | Ex Elec 011kV | | Ex Comms Gigaclear |
| | Ex Gas Low Pressure | | Ex Gas Intermediate Pressure |
| | Ex Gas High Pressure | | |

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Issued/Revision	By	Appd	YYYY.MM.DD
	GD	EE	2026.10.02
	Dwn.	Dsgn.	Chkd.
			YYYY.MM.DD

Issue Status

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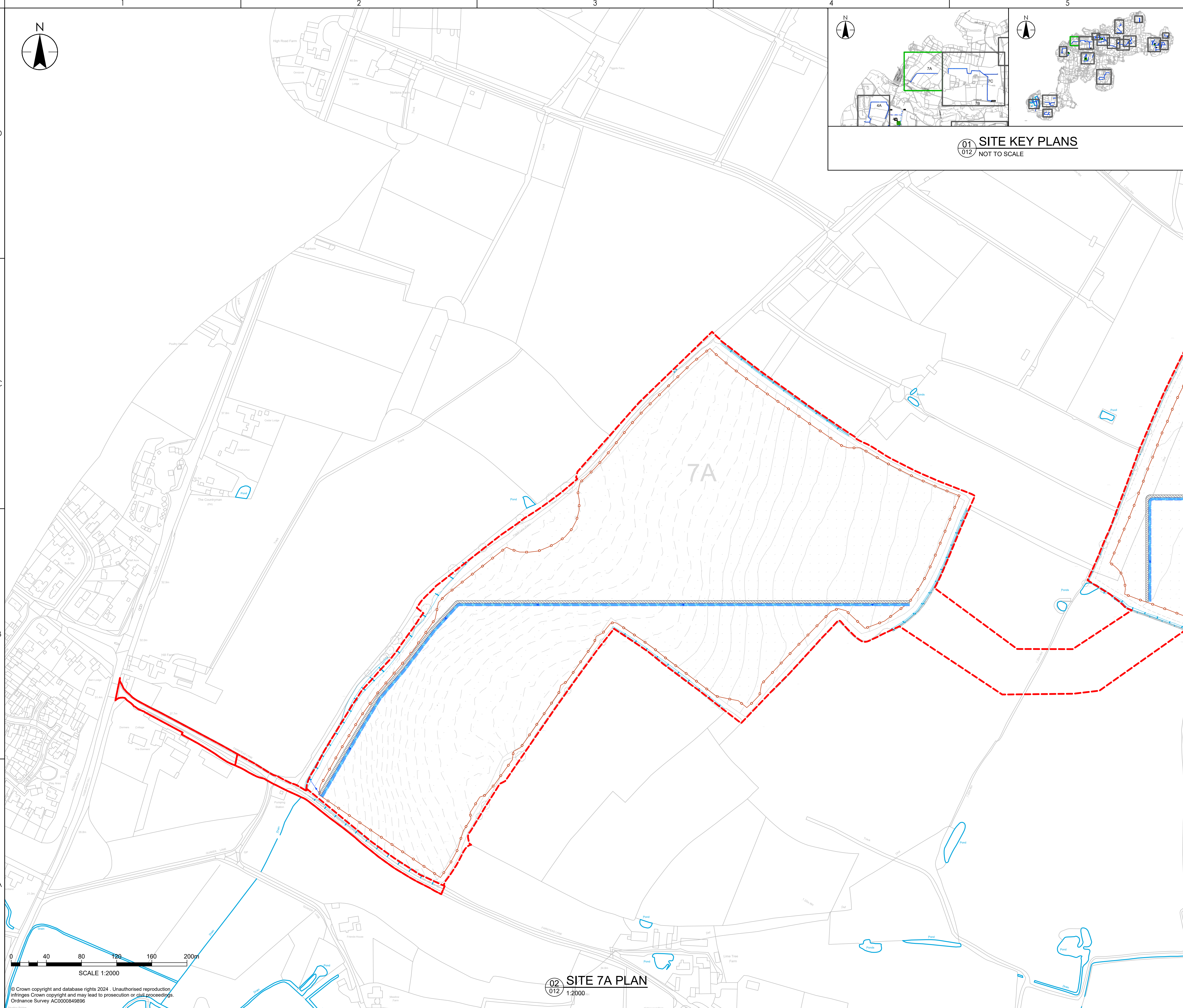
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Client/Project
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Title
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SITE 7A

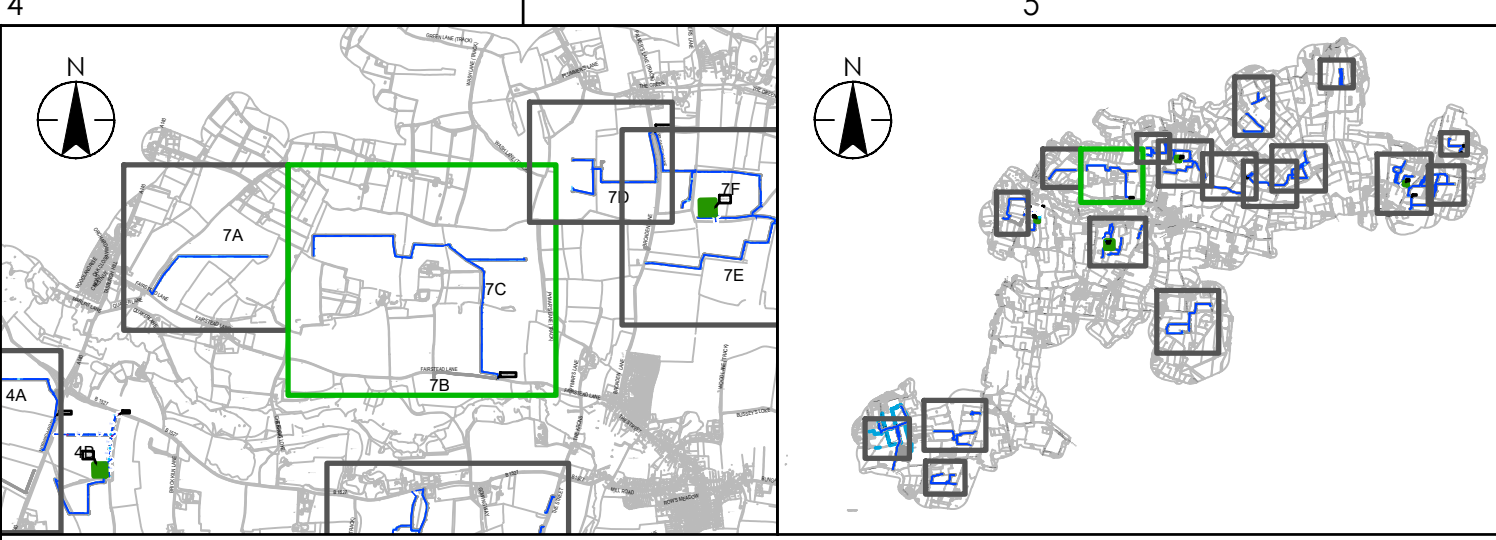
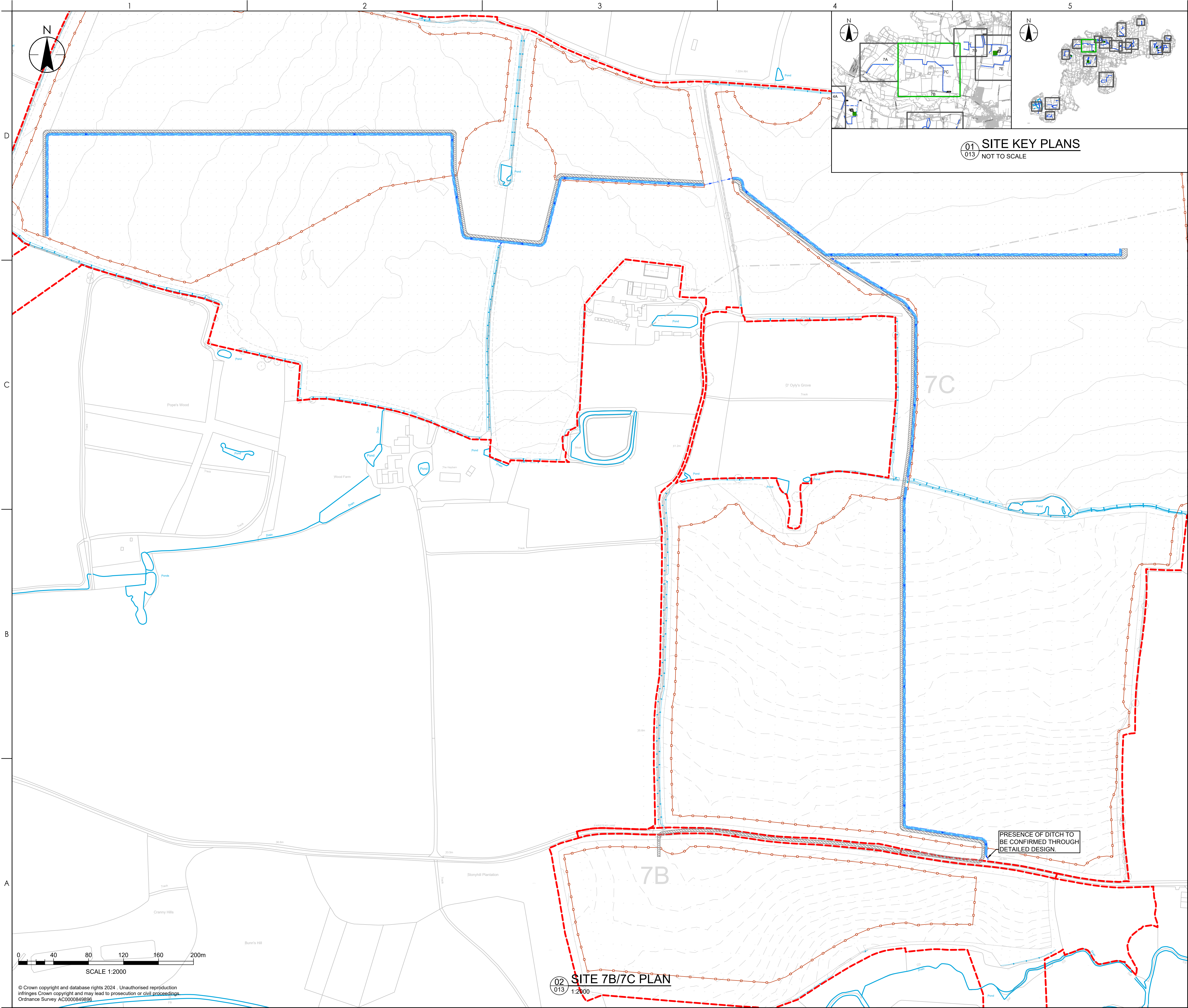
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Revision P01	Drawing No. 333101678-300.03-012



02 012 SITE 7A PLAN

1:2000

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KEY:	
	ORDER LIMITS
	EXISTING DITCH
	ACCESS TRACK
	PROPOSED SWALE
	PROPOSED SOLID SURFACE WATER PIPE
	PROPOSED FLOW CONTROL CHAMBER
	PROPOSED HEADWALL
	FENCING

UTILITIES KEY:	
	Ex Elec 011kV oh
	Ex Elec 400kV oh
	Ex Elec Lv oh
	Ex Elec Lv
	Ex Elec 011kV
	Ex Gas Low Pressure
	Ex Gas High Pressure
	Ex Comms BT Ducts
	Ex BT Overhead Lines
	Ex Water
	Abandoned
	Ex Comms Gigaclear
	Ex Gas Intermediate Pressure

PD1 FIRST ISSUE	EE	-	2024.10.02
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	GD	EE	2024.10.02
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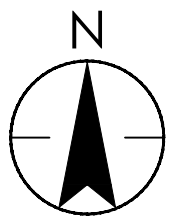
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Title
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SITES 7B/7C

Project No. 333101678	A1 Scale AS SHOWN
Revision P01	Drawing No. 333101678-300.03-013



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- FORM AND DEPTH OF ATTENUATION TO BE REFINED AT DETAILED DESIGN STAGE.

KEY:

- | | | | |
|--|----------------|--|-----------------------------------|
| | ORDER LIMITS | | PROPOSED SOLID SURFACE WATER PIPE |
| | EXISTING DITCH | | PROPOSED FLOW CONTROL CHAMBER |
| | ACCESS TRACK | | PROPOSED HEADWALL |
| | PROPOSED SWALE | | FENCING |

UTILITIES KEY:

- | | | | |
|--|----------------------|--|------------------------------|
| | Ex Elec 011kV oh | | Ex Comms BT Ducts |
| | Ex Elec 400kV oh | | Ex BT Overhead Lines |
| | Ex Elec Lv oh | | Ex Water |
| | Ex Elec Lv | | Abandoned |
| | Ex Elec 011kV | | Ex Comms Gigaclear |
| | Ex Gas Low Pressure | | Ex Gas Intermediate Pressure |
| | Ex Gas High Pressure | | |

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Title
CONCEPT ACCESS TRACK DRAINAGE
SITE 7D

Project No. 333101678	A1 Scale AS SHOWN
Revision P01	Drawing No. 333101678-300.03-014

01 SITE KEY PLANS

NOT TO SCALE

PRESENCE OF DITCH TO
BE CONFIRMED THROUGH
DETAILED DESIGN.

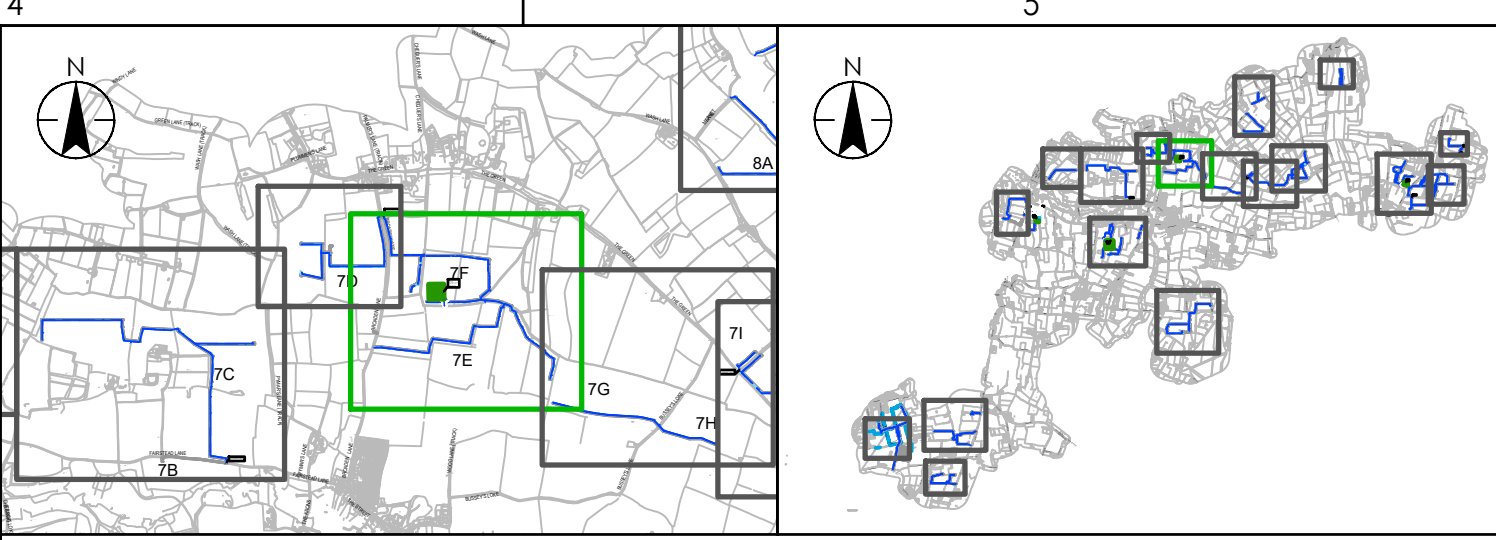
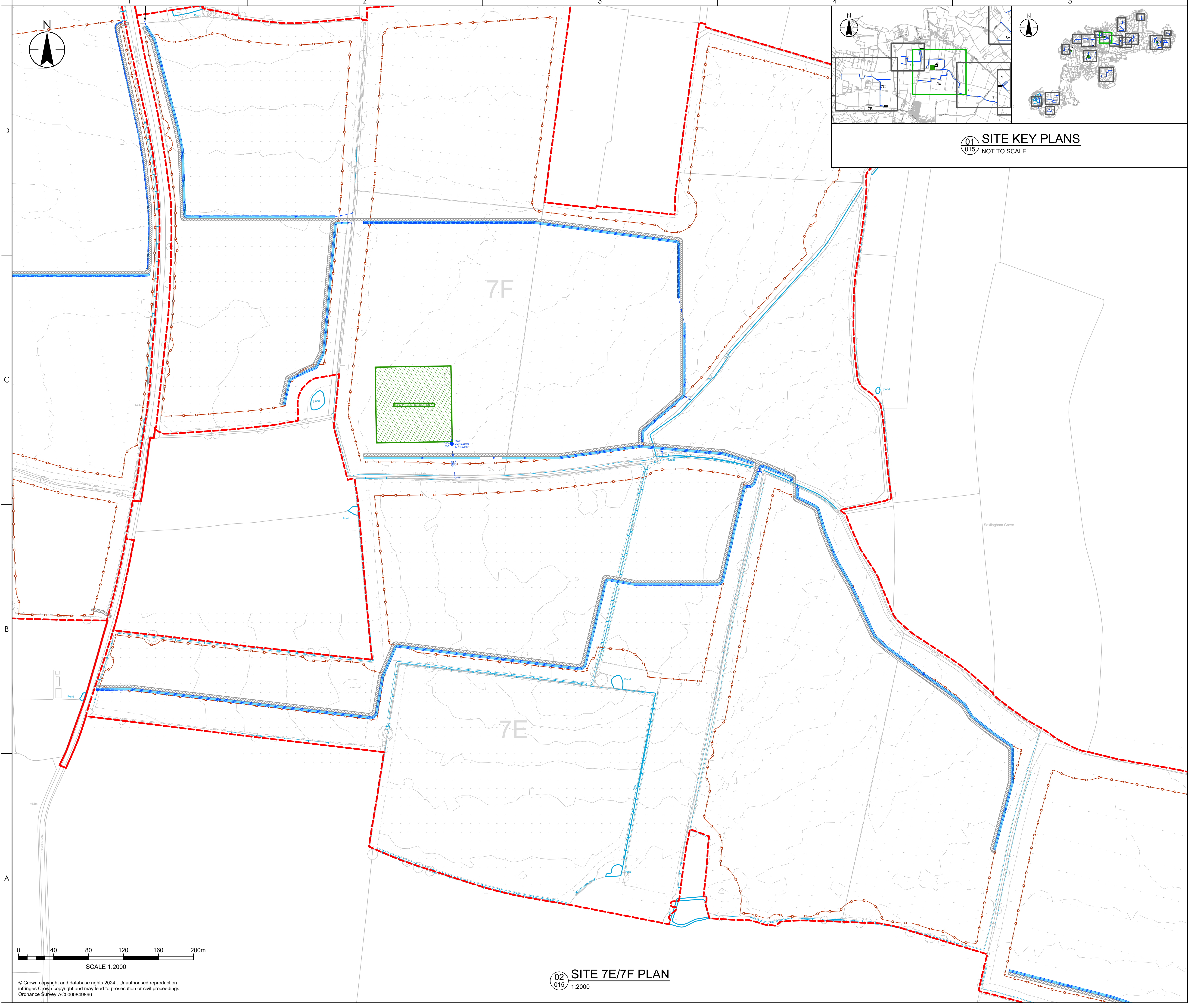
02 SITE 7D PLAN

1:1250

SCALE 1:2000

0 40 80 120 160 200m

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KEY:	
	ORDER LIMITS
	EXISTING DITCH
	PROPOSED SWALE
	ACCESS TRACK
	PROPOSED SOLID SURFACE WATER PIPE
	PROPOSED FLOW CONTROL CHAMBER
	PROPOSED HEADWALL
	FENCING

UTILITIES KEY:	
	Ex Elec 011kV oh
	Ex Elec 400kV oh
	Ex Elec Lv oh
	Ex Elec Lv
	Ex Elec 011kV
	Ex Gas Low Pressure
	Ex Gas High Pressure
	Ex Comms BT Ducts
	Ex BT Overhead Lines
	Ex Water
	Abandoned
	Ex Comms Gigaclear
	Ex Gas Intermediate Pressure

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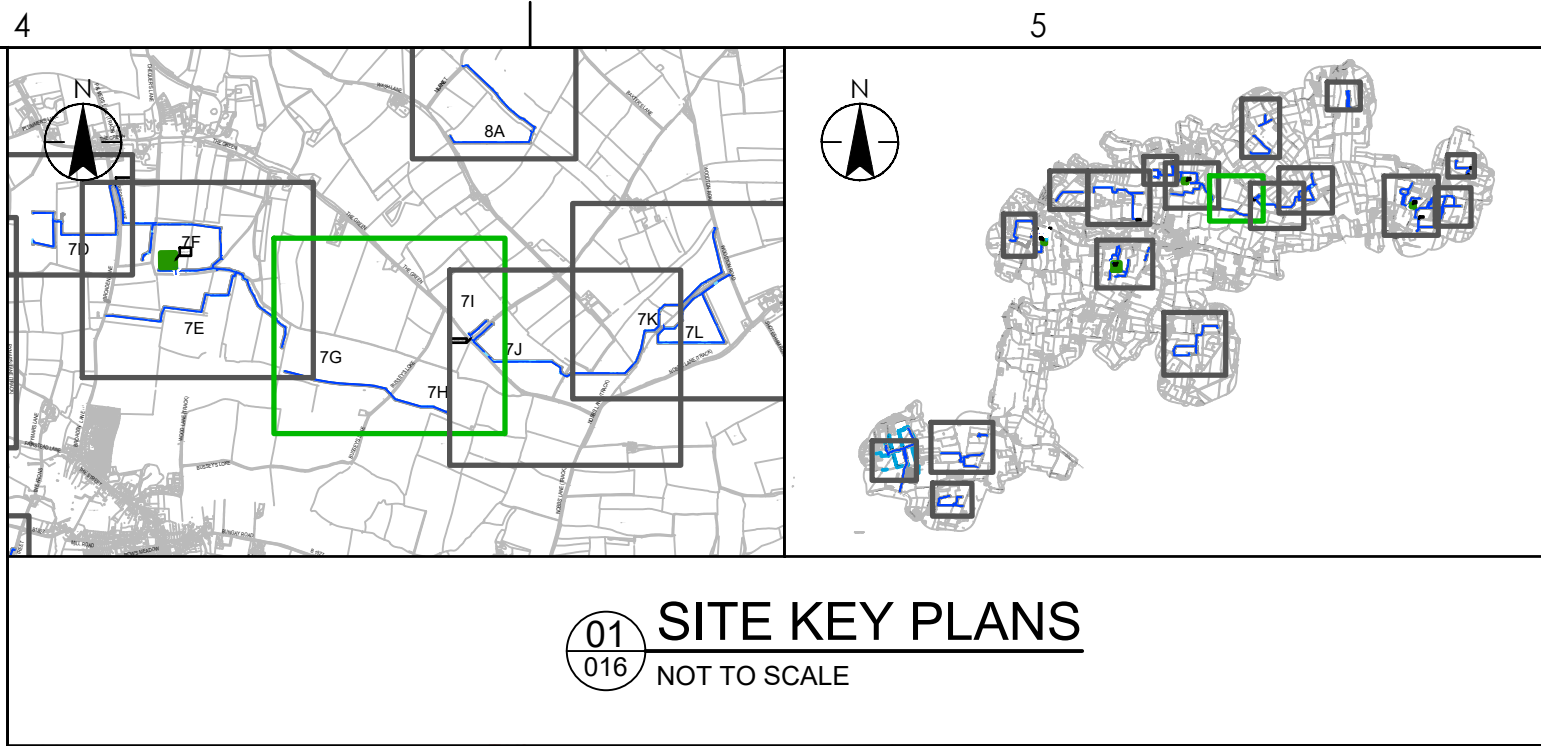
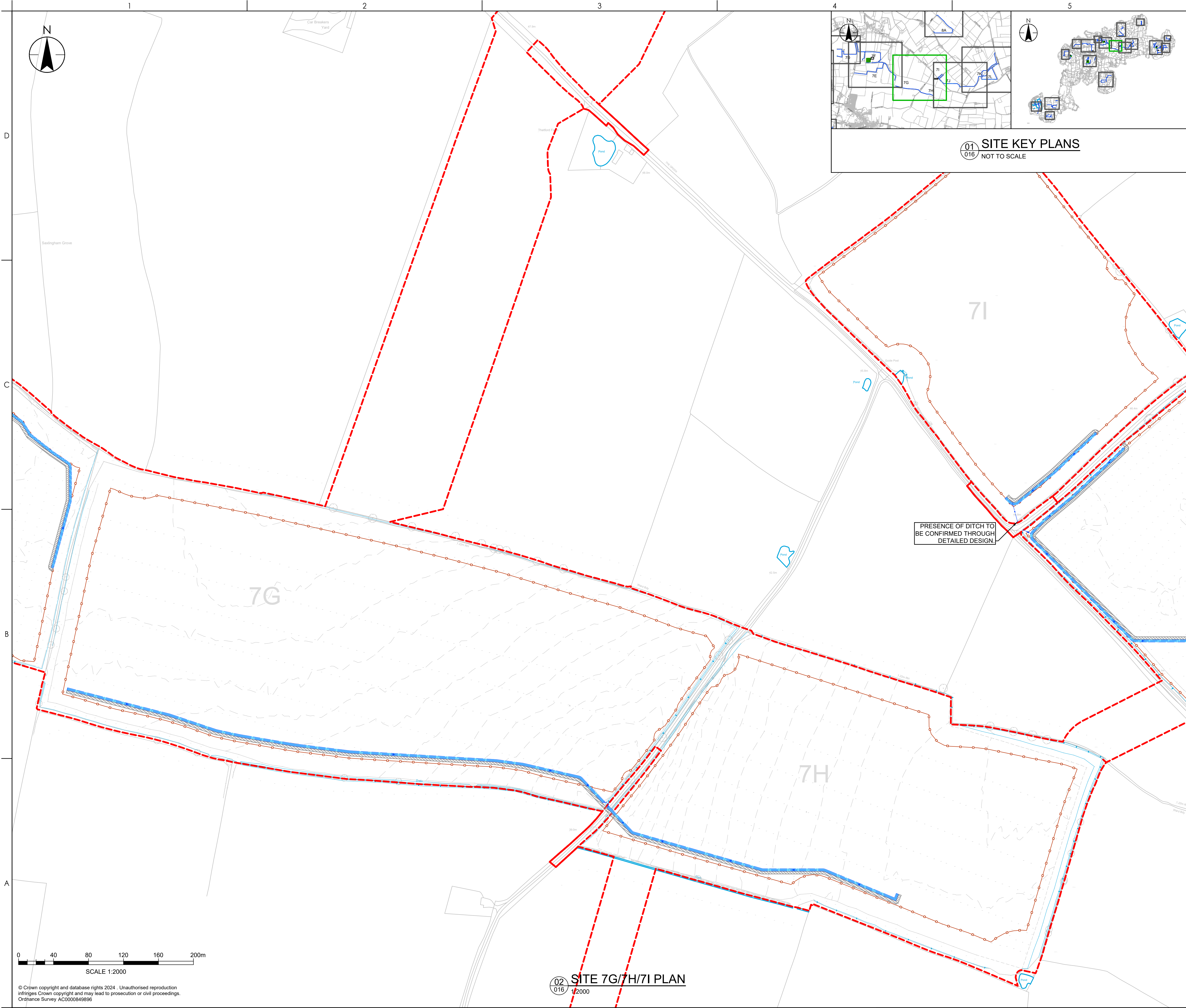
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Title
CONCEPT ACCESS TRACK DRAINAGE
SITES 7E/7F

Project No. 333101678	A1 Scale AS SHOWN
Revision P01	Drawing No. 333101678-300.03-015

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015 SITE 7E/7F PLAN
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KEY:	
	ORDER LIMITS
	EXISTING DITCH
	ACCESS TRACK
	PROPOSED SWALE
	PROPOSED SOLID SURFACE WATER PIPE
	PROPOSED FLOW CONTROL CHAMBER
	PROPOSED HEADWALL
	FENCING
UTILITIES KEY:	
	Ex Elec 011kV oh
	Ex Elec 400kV oh
	Ex Elec Lv oh
	Ex Elec Lv
	Ex Elec 011kV
	Ex Gas Low Pressure
	Ex Gas High Pressure
	Ex Comms BT Ducts
	Ex BT Overhead Lines
	Ex Water
	Abandoned
	Ex Comms Gigaclear
	Ex Gas Intermediate Pressure

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			2026.10.02
			YYYY.MM.DD

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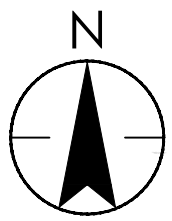
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7G/7H/7I**

Project No. 333101678	A1 Scale AS SHOWN
Revision P01	Drawing No. 333101678-300.03-016

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Drawing: 05.10.2025, 2025.10.05 15:42:44, Rev: 001, 333101678-300.03-002

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02 016 SITE 7G/7H/7I PLAN 1/2000

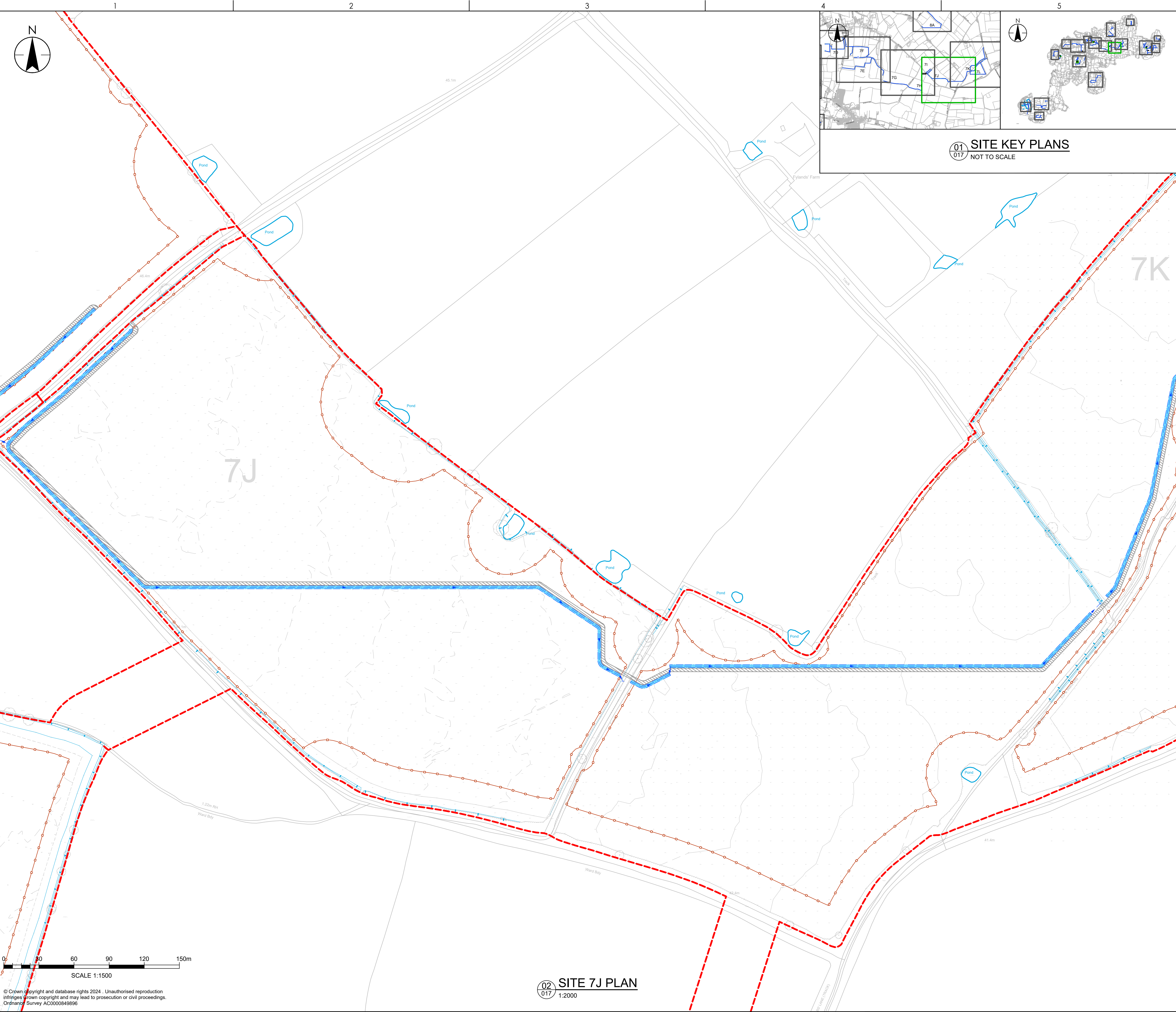


D

C

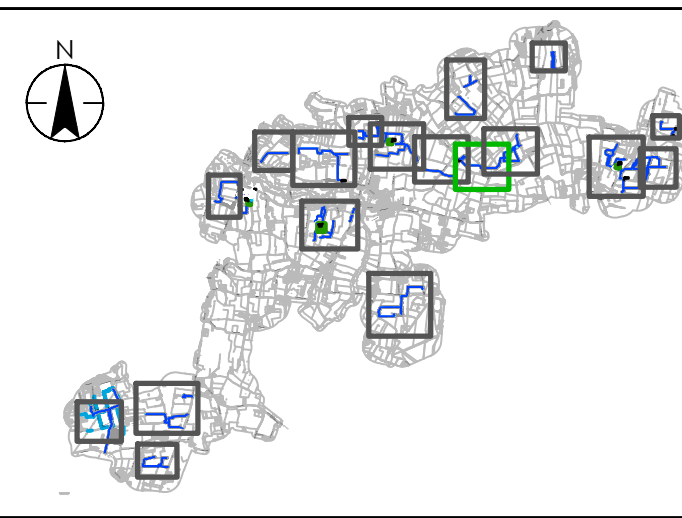
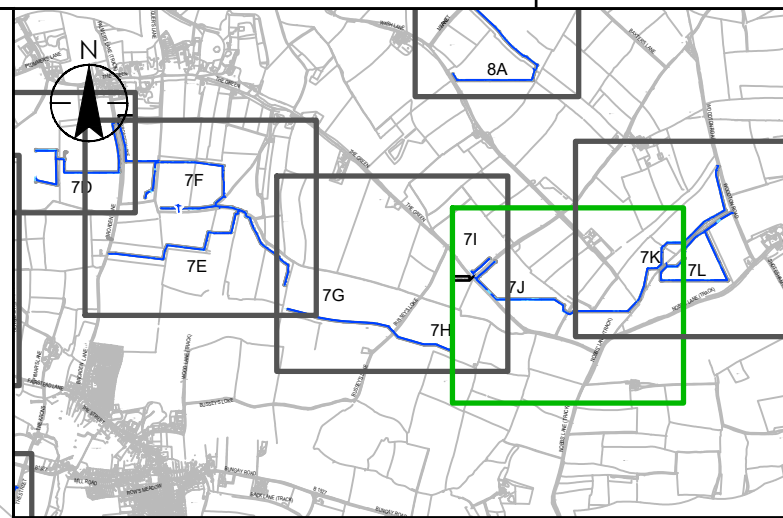
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A



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017 SITE 7J PLAN
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KEY:	
	ORDER LIMITS
	PROPOSED SOLID SURFACE WATER PIPE
	PROPOSED FLOW CONTROL CHAMBER
	PROPOSED HEADWALL
	PROPOSED SWALE
	FENCING
	EXISTING DITCH
	ACCESS TRACK

UTILITIES KEY:	
	Ex Elec 011kV oh
	Ex Elec 400kV oh
	Ex Elec Lv oh
	Ex Elec Lv
	Ex Elec 011kV
	Ex Gas Low Pressure
	Ex Gas High Pressure
	Ex Comms BT Ducts
	Ex BT Overhead Lines
	Ex Water
	Abandoned
	Ex Comms Gigaclear
	Ex Gas Intermediate Pressure

PD1 FIRST ISSUE	EE	-	2026.10.02
Issued/Revision	By	Appd	YYYY.MM.DD
	GD	EE	2026.10.02
	Dwn.	Dsgn.	Chkd.

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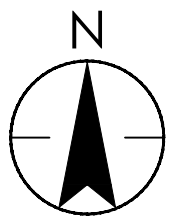
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Title
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SITE 7J

Project No. 333101678	A1 Scale AS SHOWN
Revision P01	Drawing No. 333101678-300.03-017

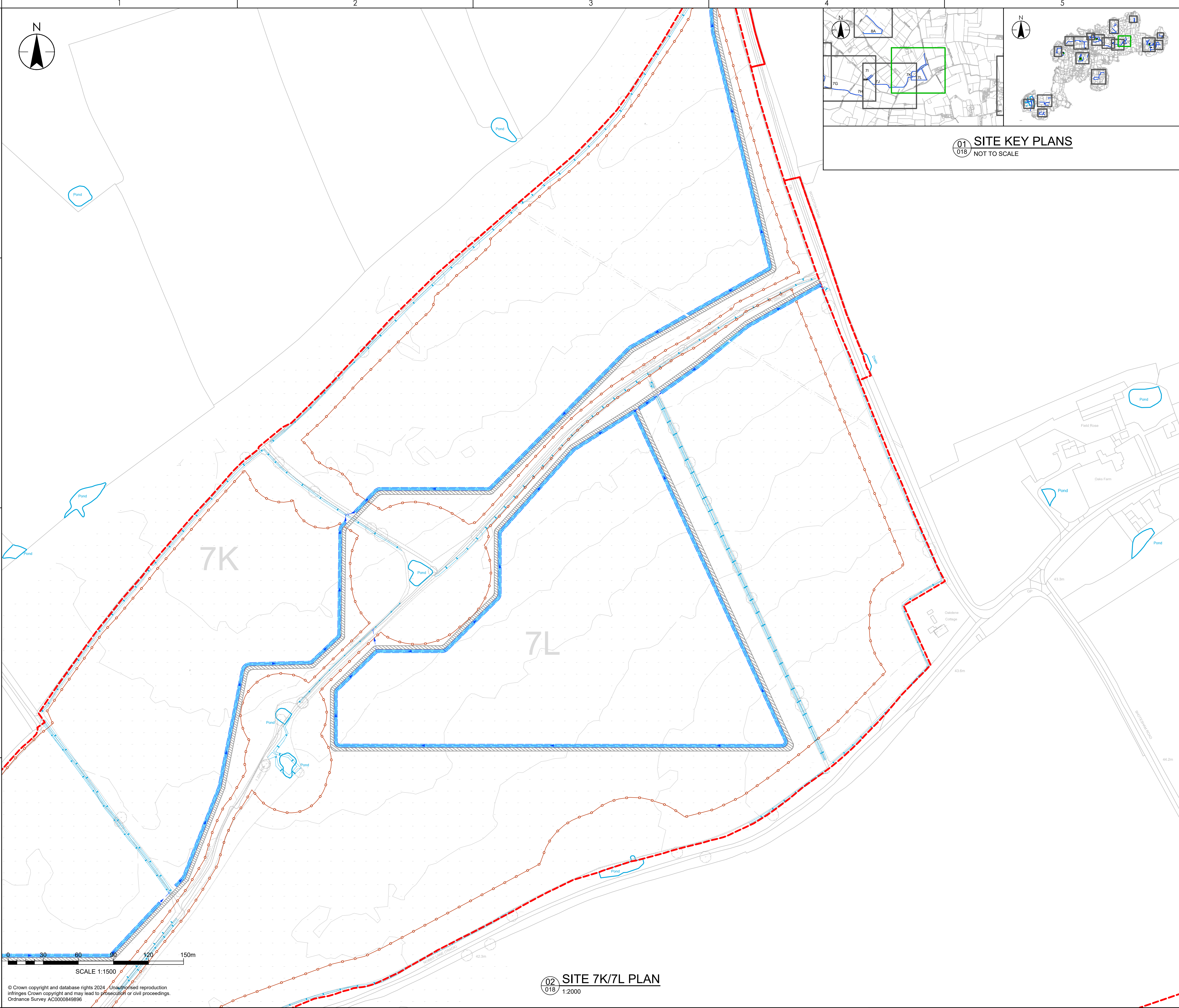


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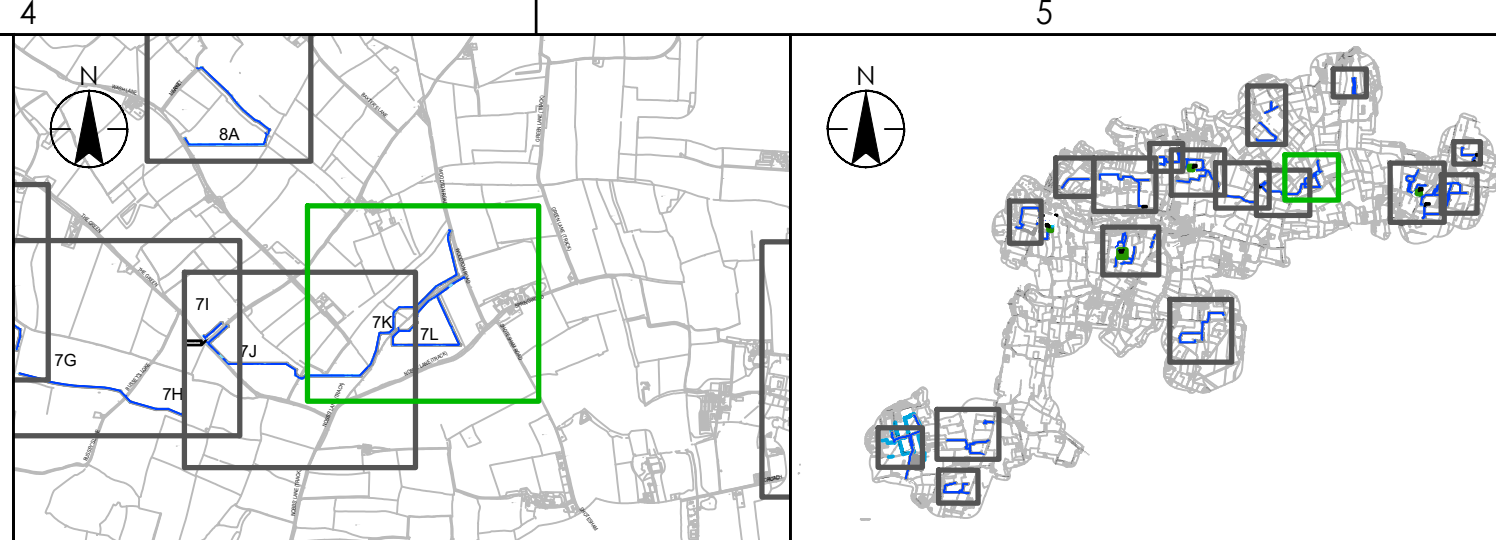
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A



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- FORM AND DEPTH OF ATTENUATION TO BE REFINED AT DETAILED DESIGN STAGE.

KEY:

- | | |
|----------------|-----------------------------------|
| ORDER LIMITS | PROPOSED SOLID SURFACE WATER PIPE |
| EXISTING DITCH | PROPOSED FLOW CONTROL CHAMBER |
| ACCESS TRACK | PROPOSED HEADWALL |
| PROPOSED SWALE | FENCING |

UTILITIES KEY:

- | | |
|----------------------|------------------------------|
| Ex Elec 011kV oh | Ex Comms BT Ducts |
| Ex Elec 400kV oh | Ex BT Overhead Lines |
| Ex Elec Lv oh | Ex Water |
| Ex Elec Lv | Abandoned |
| Ex Elec 011kV | Ex Comms Gigaclear |
| Ex Gas Low Pressure | Ex Gas Intermediate Pressure |
| Ex Gas High Pressure | |

PD1 FIRST ISSUE	EE	-	2024.10.02
Issued/Revision	By	Appd	YYYY.MM.DD
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Issue Status

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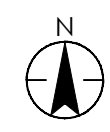
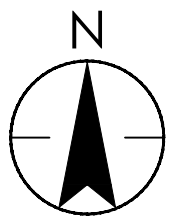
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Client/Project
EAST PYE SOLAR Ltd.

Title
CONCEPT ACCESS TRACK DRAINAGE
SITES 7K/7L

Project No. 333101678	A1 Scale AS SHOWN
Revision P01	Drawing No. 333101678-300.03-018



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- FORM AND DEPTH OF ATTENUATION TO BE REFINED AT DETAILED DESIGN STAGE.

KEY:

- | | | | |
|--|----------------|--|-----------------------------------|
| | ORDER LIMITS | | PROPOSED SOLID SURFACE WATER PIPE |
| | EXISTING DITCH | | PROPOSED FLOW CONTROL CHAMBER |
| | ACCESS TRACK | | PROPOSED HEADWALL |
| | PROPOSED SWALE | | FENCING |

UTILITIES KEY:

- | | | | |
|--|----------------------|--|------------------------------|
| | Ex Elec 011kV oh | | Ex Comms BT Ducts |
| | Ex Elec 400kV oh | | Ex BT Overhead Lines |
| | Ex Elec Lv oh | | Ex Water |
| | Ex Elec Lv | | Abandoned |
| | Ex Elec 011kV | | Ex Comms Gigaclear |
| | Ex Gas Low Pressure | | Ex Gas Intermediate Pressure |
| | Ex Gas High Pressure | | |

PD1 FIRST ISSUE	EE	-	2026.10.02
Issued/Revision	By	Appd	YYYY.MM.DD
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EAST PYE SOLAR Ltd.

Title
CONCEPT ACCESS TRACK DRAINAGE
SITES 10A/10C

Project No. 333101678	A1 Scale AS SHOWN
Revision P01	Drawing No. 333101678-300.03-019

01 SITE KEY PLANS

019 NOT TO SCALE

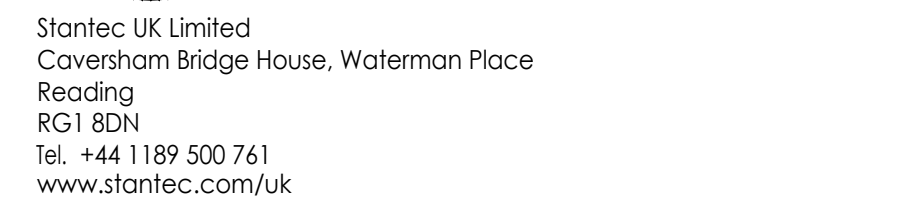
02 SITE 10A/10C PLAN

019 1:2000

0 40 80 120 160 200m
SCALE 1:2000

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Pathetic 05.10.2025 10:05 51724 A44 By: S. Shattuck
05/10/2025 10:05 51724 A44 By: S. Shattuck
05/10/2025 10:05 51724 A44 By: S. Shattuck



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3. LAYOUT TAKEN FROM DRAWING DRAWING EAST PYE SOLAR FARM, BY ISLAND GREEN POWER UK, DATED 19.11.2025. BESS LAYOUT BASED ON UPDATED LAYOUT 11.11.2025.
4. FORM AND DEPTH OF ATTENUATION TO BE REFINED AT DETAILED DESIGN STAGE.

	ORDER LIMITS		PROPOSED SOLID SURFACE WATER PIPE
	EXISTING DITCH		PROPOSED FLOW CONTROL CHAMBER
	ACCESS TRACK		PROPOSED HEADWALL
	PROPOSED SWALE		FENCING

	Ex Elec 011kV oh		Ex Comms BT Ducts
	Ex Elec 400kV oh		Ex BT Overhead Lines
	Ex Elec Lv oh		Ex Water
	Ex Elec Lv		Abandoned
	Ex Elec 011kV		Ex Comms Gigaclear
	Ex Gas Low Pressure		Ex Gas Intermediate Pressure
	Ex Gas High Pressure		

P01 FIRST ISSUE	EE	-	2026.10.02
Issued/Revision	By	Appd	YYYY.MM.DD
	GD	EE	-
	Dwn.	Dsgn.	Chkd.
			2026.10.02
			YYYY.MM.DD

Issue Status

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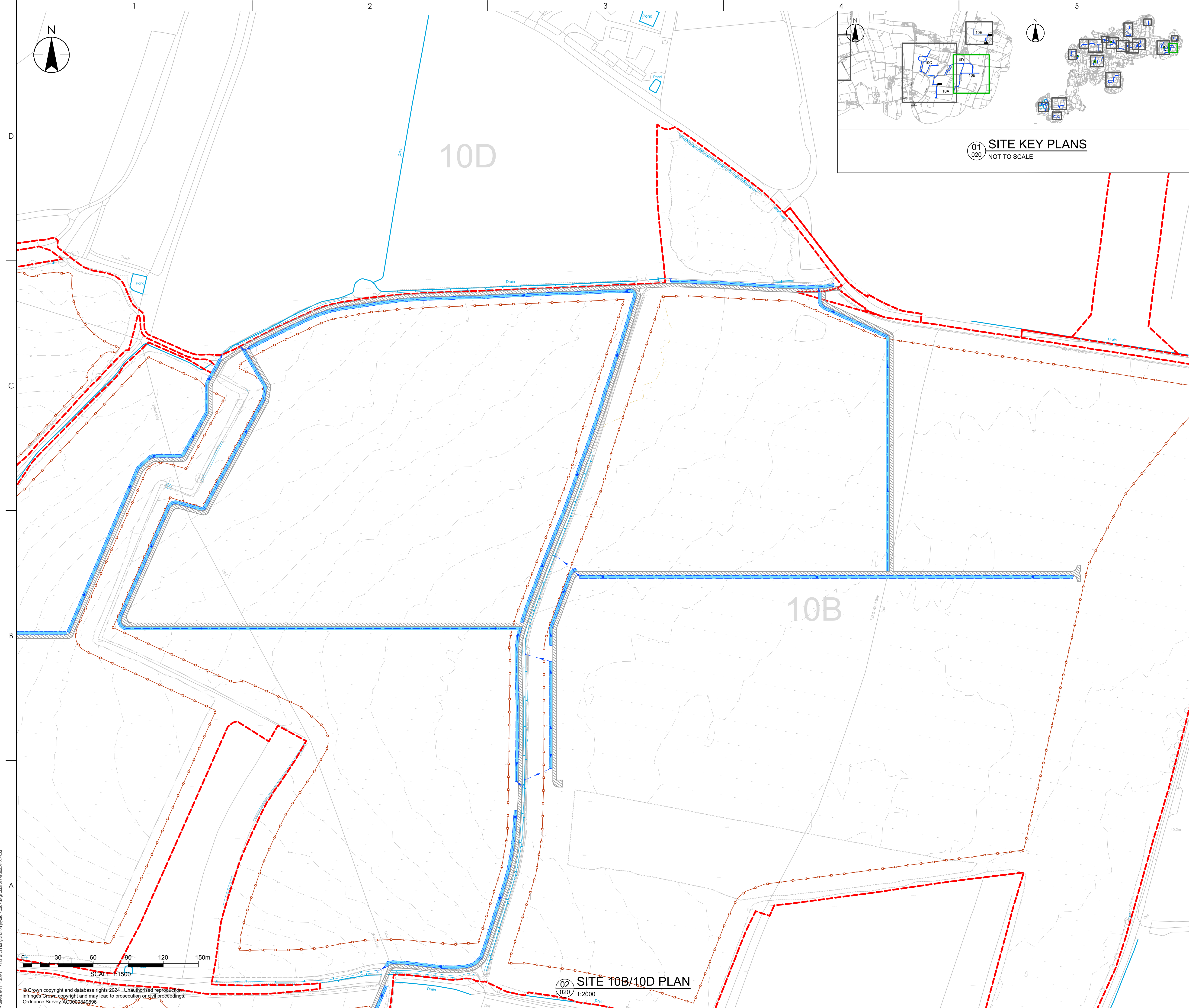
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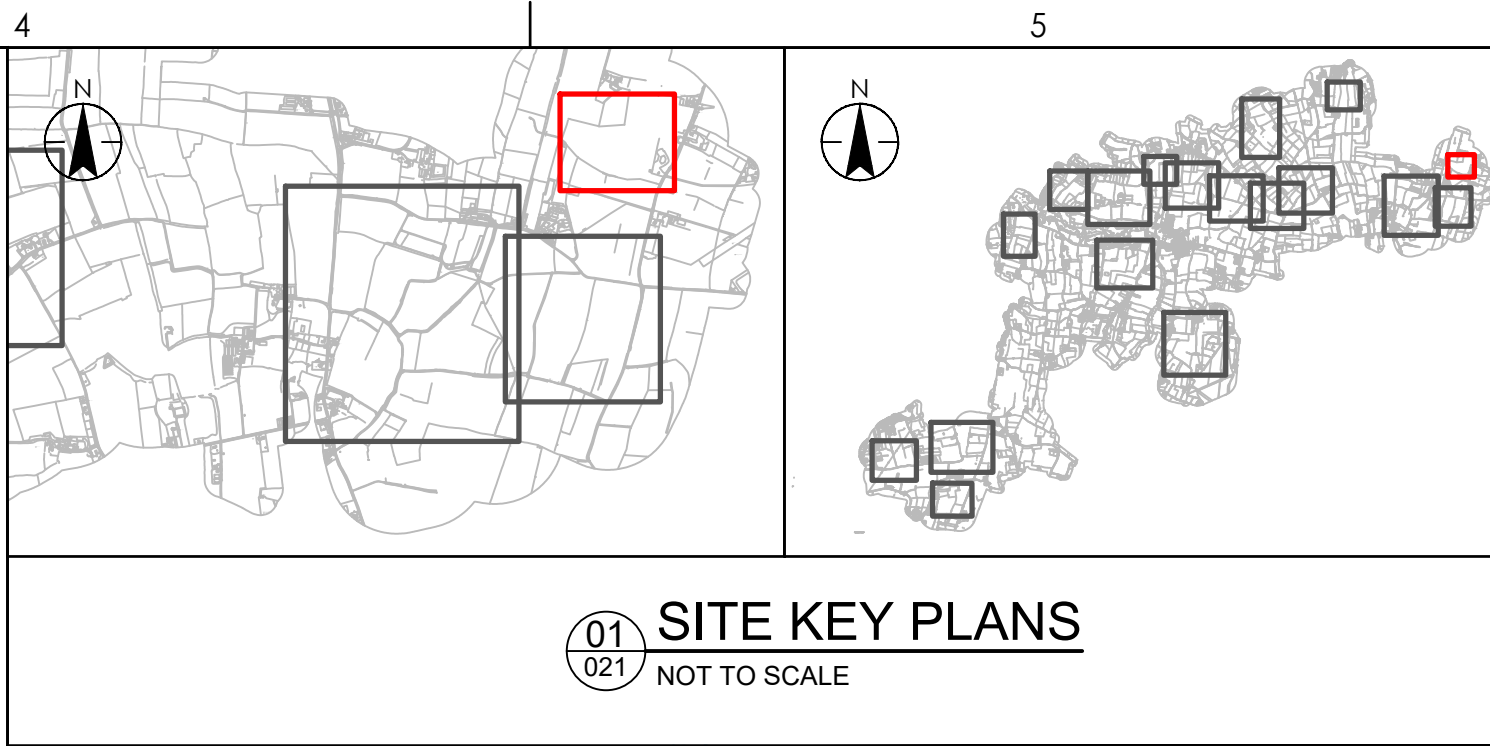
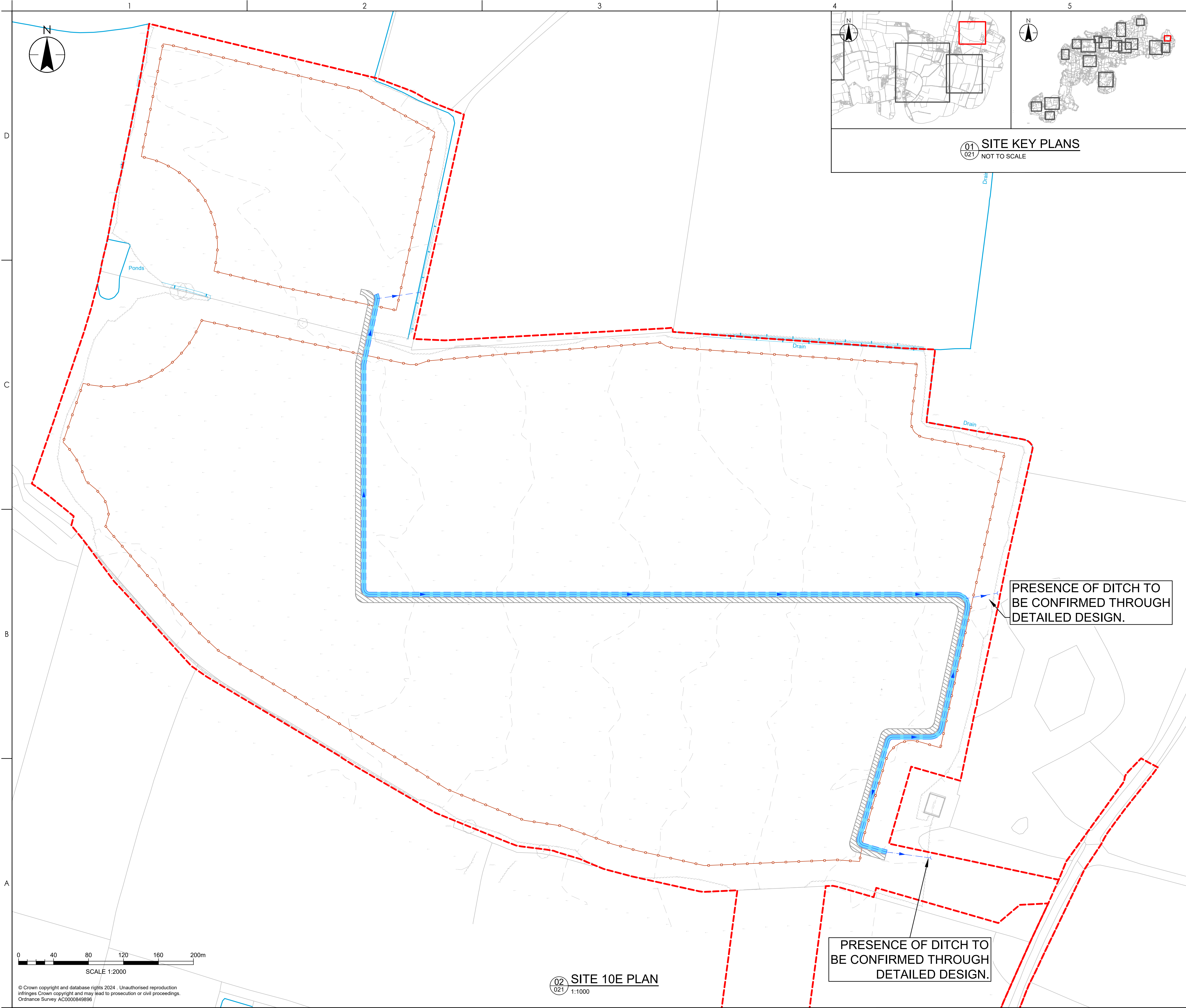
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EAST PYE SOLAR Ltd.

Title
CONCEPT ACCESS TRACK DRAINAGE
SITES 10B/10D

Project No. 333101678	A1 Scale AS SHOWN
Revision P01	Drawing No. 333101678-300.03-020



Printed On: 05-10-2026 20:26:10.059:17:15 AM By: Raj, Shanthak
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- FORM AND DEPTH OF ATTENUATION TO BE REFINED AT DETAILED DESIGN STAGE.

KEY:	
	ORDER LIMITS
	PROPOSED SOLID SURFACE WATER PIPE
	PROPOSED FLOW CONTROL CHAMBER
	PROPOSED HEADWALL
	PROPOSED SWALE
	FENCING
	EXISTING DITCH
	ACCESS TRACK
UTILITIES KEY:	
	Ex Elec 011kV oh
	Ex Elec 400kV oh
	Ex Elec Lv oh
	Ex Elec Lv
	Ex Elec 011kV
	Ex Gas Low Pressure
	Ex Gas High Pressure
	Ex Comms BT Ducts
	Ex BT Overhead Lines
	Ex Water
	Abandoned
	Ex Comms Gigaclear
	Ex Gas Intermediate Pressure

PD1 FIRST ISSUE	EE	-	2026.10.02
Issued/Revision	By	Appd	YYYY.MM.DD
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Issue Status

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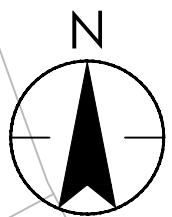
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Title
CONCEPT ACCESS TRACK DRAINAGE
SUB-SITE 10E

Project No. 333101678	A1 Scale AS SHOWN
Revision P01	Drawing No. 333101678-300.03-021

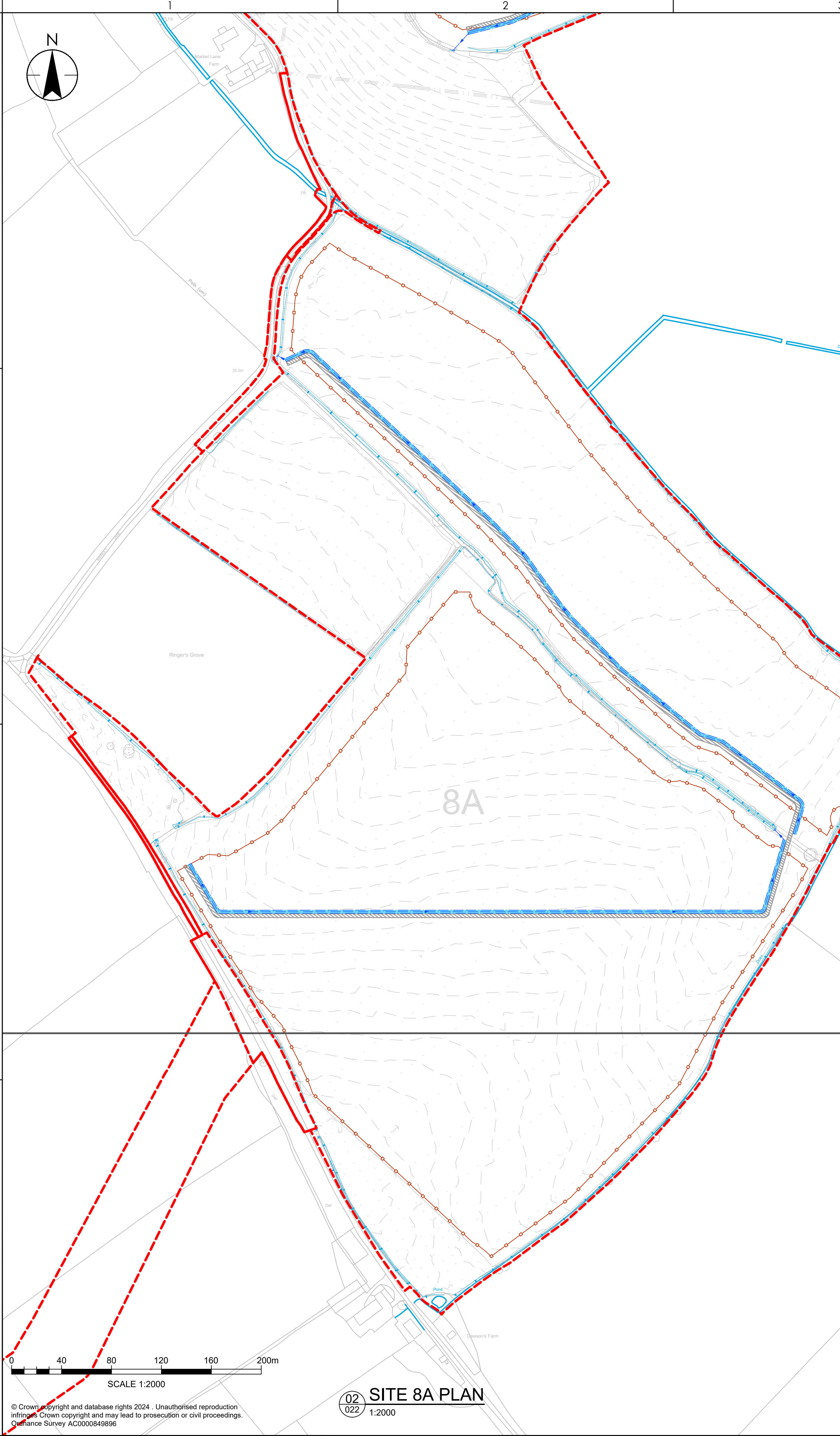


D

C

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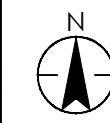
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02
022 SITE 8A PLAN
1:2000

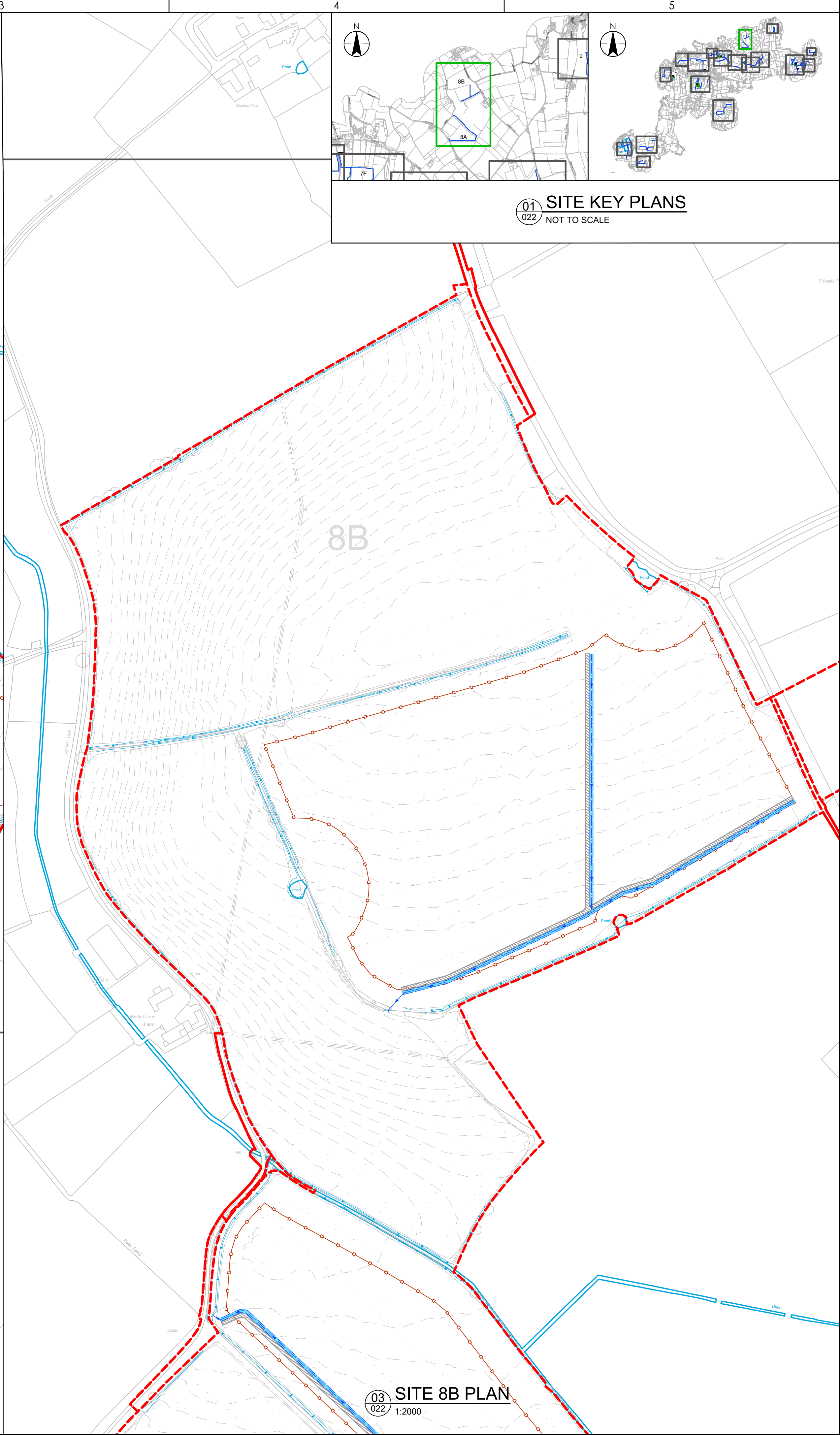
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Project: 333101678-003-03-022
Drawing: 333101678-003-03-022
Scale: 1:2000
Date: 2024-10-02
Author: J. Smith
Check: J. Smith
Title: CONCEPT ACCESS TRACK DRAINAGE SITES 8A/8B



01
022

SITE KEY PLANS
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03
022 SITE 8B PLAN
1:2000



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KEY:

- | | |
|----------------|-----------------------------------|
| ORDER LIMITS | PROPOSED SOLID SURFACE WATER PIPE |
| EXISTING DITCH | PROPOSED FLOW CONTROL CHAMBER |
| ACCESS TRACK | PROPOSED HEADWALL |
| PROPOSED SWALE | FENCING |

UTILITIES KEY:

- | | |
|----------------------|------------------------------|
| Ex Elec 011kV oh | Ex Comms BT Ducts |
| Ex Elec 400kV oh | Ex BT Overhead Lines |
| Ex Elec Lv oh | Ex Water |
| Ex Elec Lv | Abandoned |
| Ex Elec 011kV | Ex Comms Gigaclear |
| Ex Gas Low Pressure | Ex Gas Intermediate Pressure |
| Ex Gas High Pressure | |

PD1 FIRST ISSUE	EE	-	2024.10.02
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SITES 8A/8B

Project No. 333101678	A1 Scale AS SHOWN
Revision P01	Drawing No. 333101678-300.03-022

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KEY:

- | | |
|----------------|-----------------------------------|
| ORDER LIMITS | PROPOSED SOLID SURFACE WATER PIPE |
| EXISTING DITCH | PROPOSED FLOW CONTROL CHAMBER |
| ACCESS TRACK | PROPOSED HEADWALL |
| PROPOSED SWALE | FENCING |

UTILITIES KEY:

- | | |
|----------------------|------------------------------|
| Ex Elec 011kV oh | Ex Comms BT Ducts |
| Ex Elec 400kV oh | Ex BT Overhead Lines |
| Ex Elec Lv oh | Ex Water |
| Ex Elec Lv | Abandoned |
| Ex Elec 011kV | Ex Comms Gigaclear |
| Ex Gas Low Pressure | Ex Gas Intermediate Pressure |
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			2026.10.02
			YYYY.MM.DD

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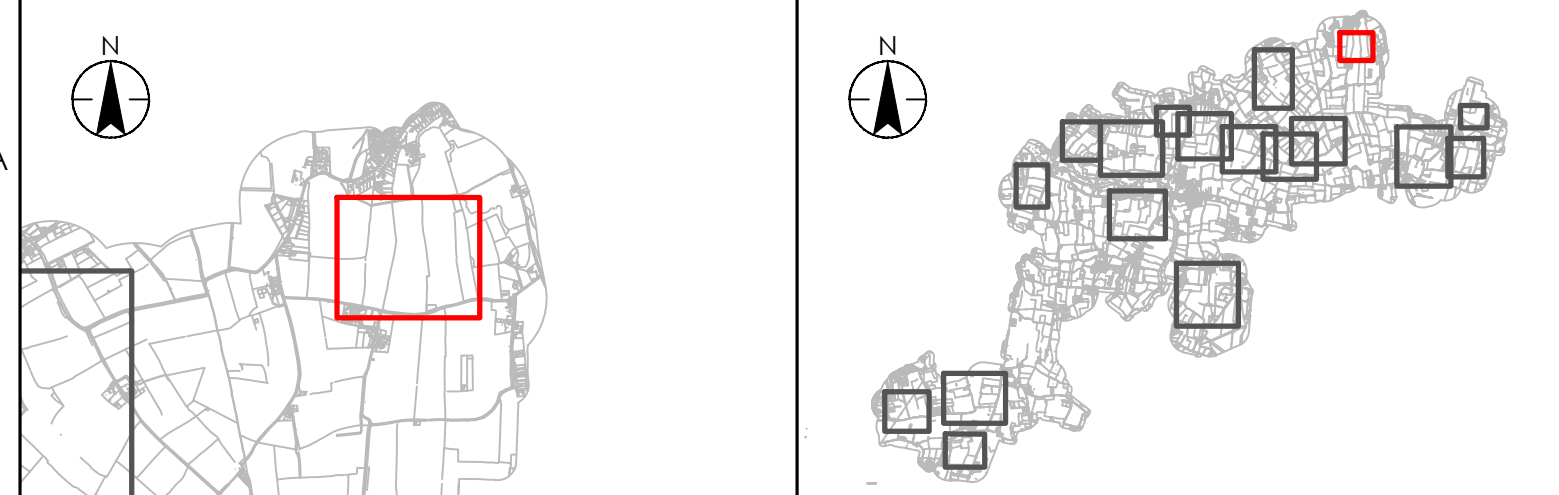
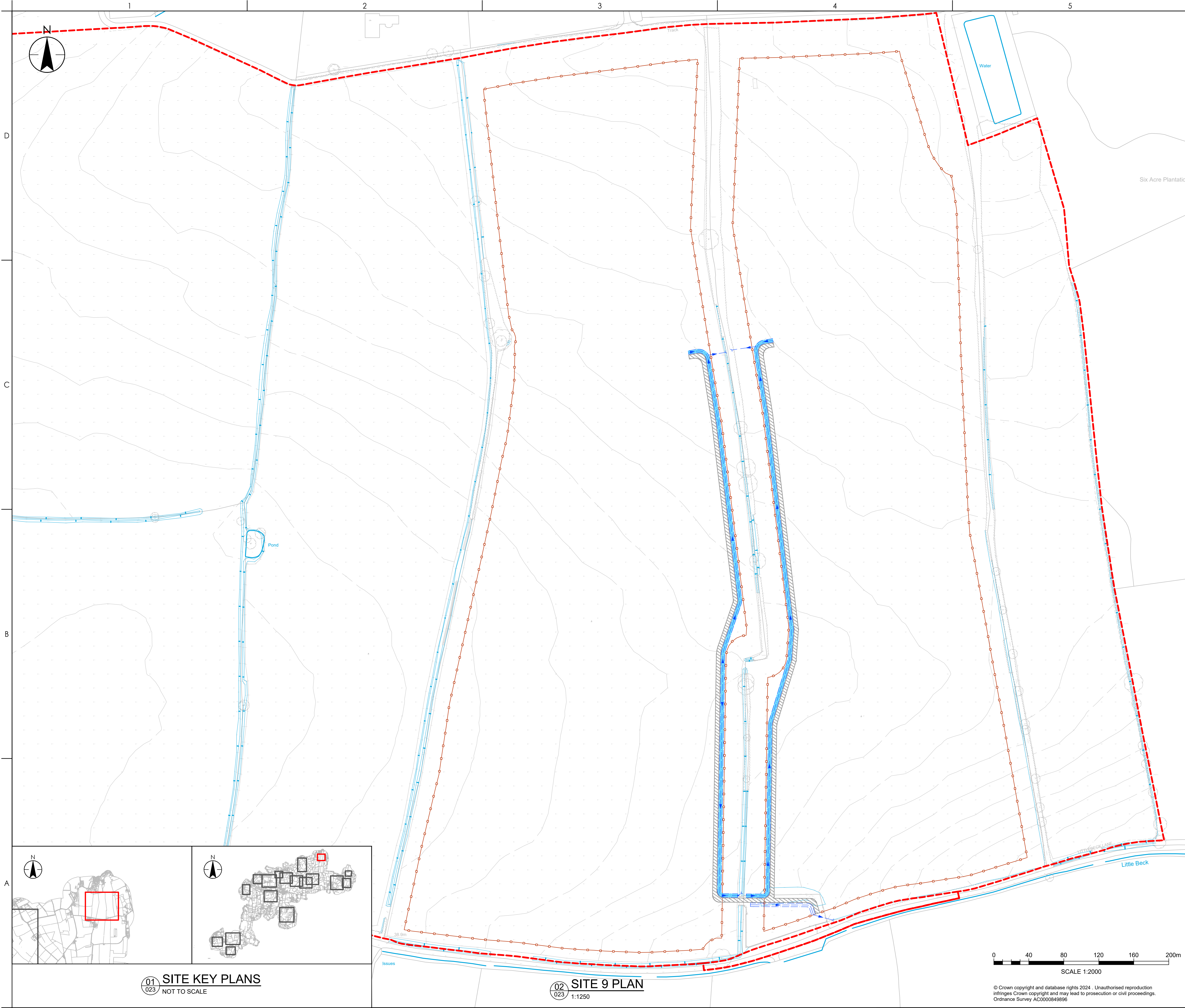
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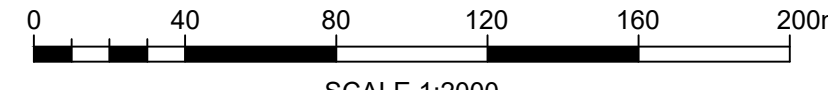
Title
CONCEPT ACCESS TRACK DRAINAGE
SITE 9

Project No. 333101678	A1 Scale AS SHOWN
Revision P01	Drawing No. 333101678-300.03-023



01 SITE KEY PLANS
023 NOT TO SCALE

02 SITE 9 PLAN
023 1:1250



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