



KEY
(This drawing must be reproduced in colour)

T1/G1 Trees

H1 Hedgerow

Root Protection Area (RPA)

Working Areas

Tree Preservation Order

Approximate Location of Planted Whips and Saplings

Tree Quality Categorisation
(Based on BS 5837:2012 Trees in relation to design, demolition and construction - Recommendations)

Category A
(High quality)

Category B
(Moderate quality)

Category C
(Low quality)

Category U
(Unsuitable for retention)

Hedgerow
(Not categorised)

NOTES:

This drawing should be read in conjunction with the respective Arboricultural Survey Data (Appendix A).

No topographical survey was available to inform the production of these drawings and so tree locations are approximate based on aerial photography and on-site observations.

Where it has been possible to identify trees protected by TPO, these have been marked with an asterisk (*) and the relevant TPO reference noted in the respective Survey Data within Appendix A.

Trees between Broughton and the M6 motorway are protected by TPO19510001. A schedule of features (the First Schedule of the Order) is available for this TPO, but no definitive mapping is included within the The Order itself and online mapping available is also not definitive. Trees affected by the proposed works that may be included within the TPO will need to be identified prior to submission of a planning application.

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A	Updated Working Areas and New Table	HEE	RMG	01.12.20
Rev	Description	Drawn	Approved	Date

THE ENVIRONMENT PARTNERSHIP
Genesis Centre, Birchwood Science Park, Warrington WA3 7BH
Tel 01925 844004 e-mail tep@tep.uk.com www.tep.uk.com

Table 1. Tree Constraints Baseline: Canopy Areas (ha), Feature Numbers and BS5837 Quality Categories

	Category A		Category B		Category C		Category U		Not Categorised	
	No. Features	Area (ha)	No. Features	Area (ha)	No. Features	Area (ha)	No. Features	Area (ha)	No. Features	Length (m)
Trees	33	0.5756	121	0.9326	87	0.2580	15	0.0702		
Groups	4	0.9005	42	2.4072	47	0.9939	1	0.0117		
Woodlands	0	0	0	0	0	0	0	0		
Hedges									99	
TOTAL	37	1.4761	163	3.3398	134	1.2519	16	0.0819		

Project
Broughton WTW to White Bull WTW
Raw Water Main

Title
Drawing 1: Tree Constraints Site Overview

Drawing Number
D8462.001

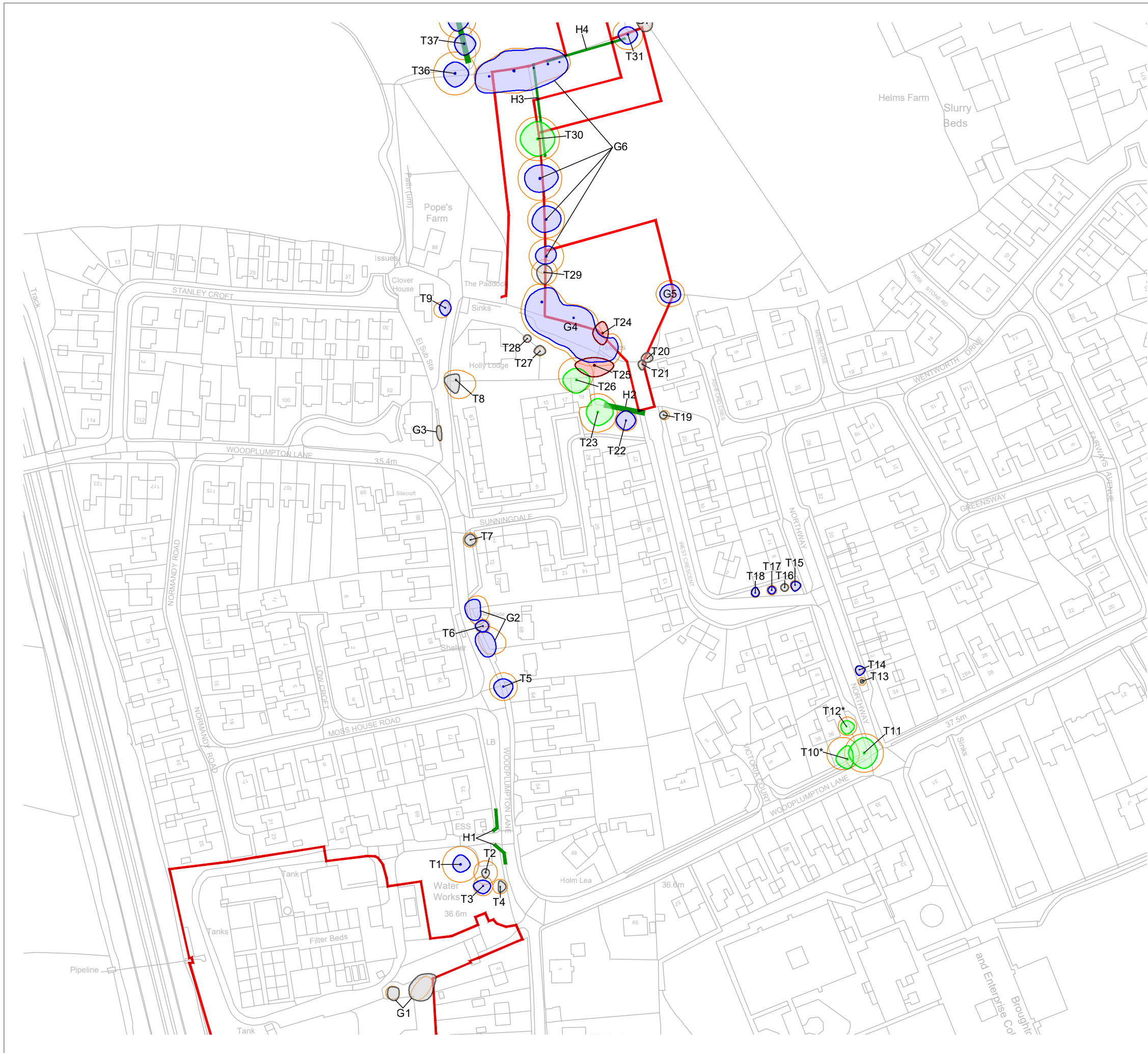
Scale
1:13,000 @ A1

Date
06/11/2020

Drawn
HEE

Checked
RMG

Approved
RMG



KEY

[This drawing must be reproduced in colour]

- T1/G1 Trees
- H1 Hedgerow
- Root Protection Area (RPA)
- Working Areas
- Tree Preservation Order
- Approximate Location of Planted Whips and Saplings

Tree Quality Categorisation

(Based on BS 5837:2012 Trees in relation to design, demolition and construction - Recommendations)

- Category A (High quality)
- Category B (Moderate quality)
- Category C (Low quality)
- Category U (Unsuitable for retention)
- Hedgerow (Not categorised)

NOTES:

This drawing should be read in conjunction with the respective Arboricultural Survey Data (Appendix A).

No topographical survey was available to inform the production of these drawings and so tree locations are approximate based on aerial photography and on-site observations.

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A	Updated Working Areas	HEE	JGS	01.12.2020
Rev	Description	Drawn	Approved	Date



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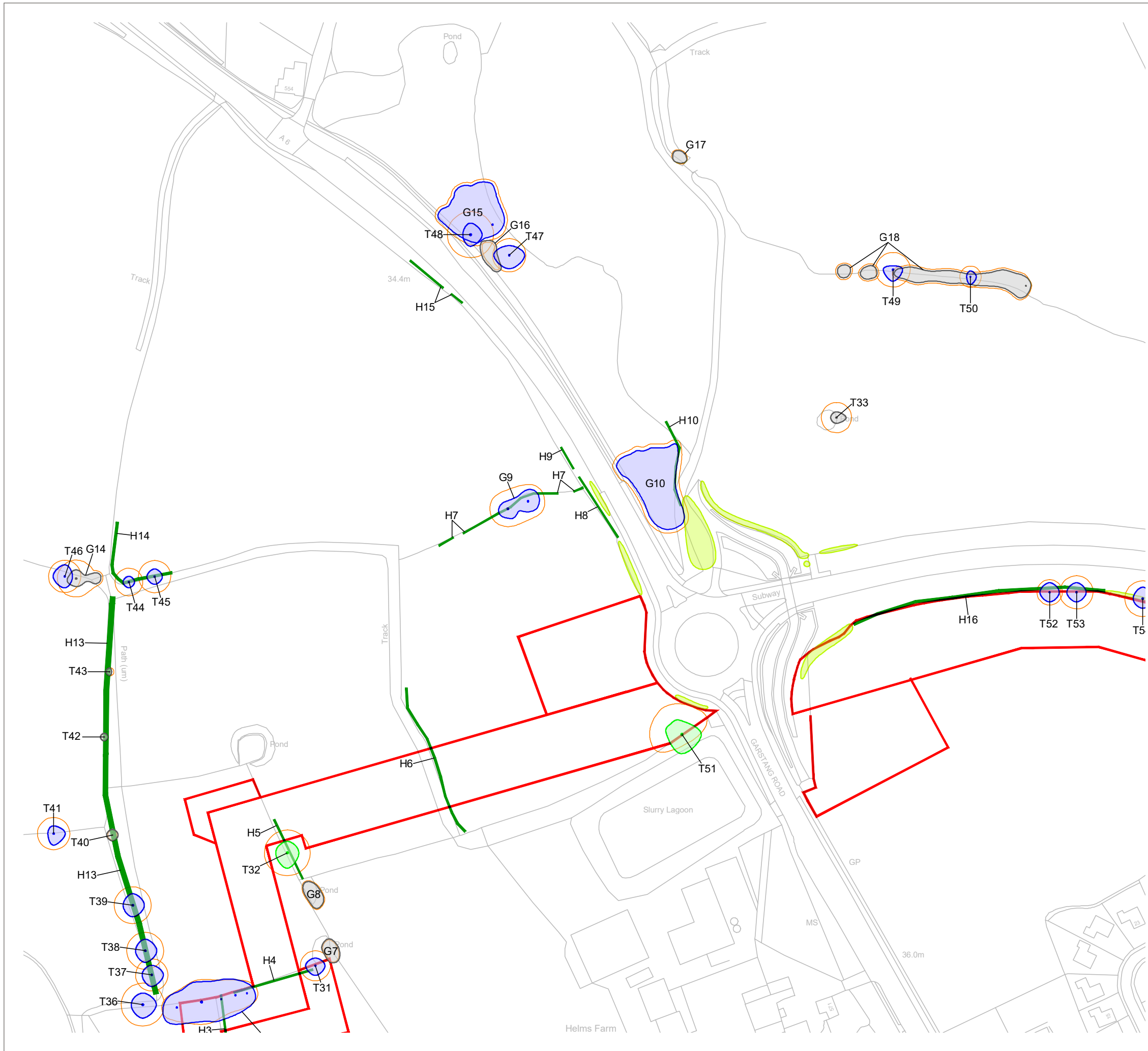
Genesis Centre, Birchwood Science Park, Warrington WA3 7BH
Tel 01925 844004 e-mail tep@tep.uk.com www.tep.uk.com

Project
Broughton WTW to White Bull WTW Raw Water Main

Title
Drawing 2: Tree Constraints Plan [BASELINE] - Inset 1 of 19

Drawing Number
D8462.002

Drawn	Checked	Approved	Scale	Date
HEE	RMG	RMG	1:2000 @ A3	06/11/2020



KEY

[This drawing must be reproduced in colour]

- T1/G1 Trees
- H1 Hedgerow
- Root Protection Area (RPA)
- Working Areas
- Tree Preservation Order
- Approximate Location of Planted Whips and Saplings

Tree Quality Categorisation

(Based on BS 5837:2012 Trees in relation to design, demolition and construction - Recommendations)

- Category A (High quality)
- Category B (Moderate quality)
- Category C (Low quality)
- Category U (Unsuitable for retention)
- Hedgerow (Not categorised)

NOTES:

This drawing should be read in conjunction with the respective Arboricultural Survey Data (Appendix A).

No topographical survey was available to inform the production of these drawings and so tree locations are approximate based on aerial photography and on-site observations.

Where it has been possible to identify trees protected by TPO, these have been marked with an asterisk (*) and the relevant TPO reference noted in the respective Survey Data within Appendix A.

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Rev	Description	Drawn	Approved	Date



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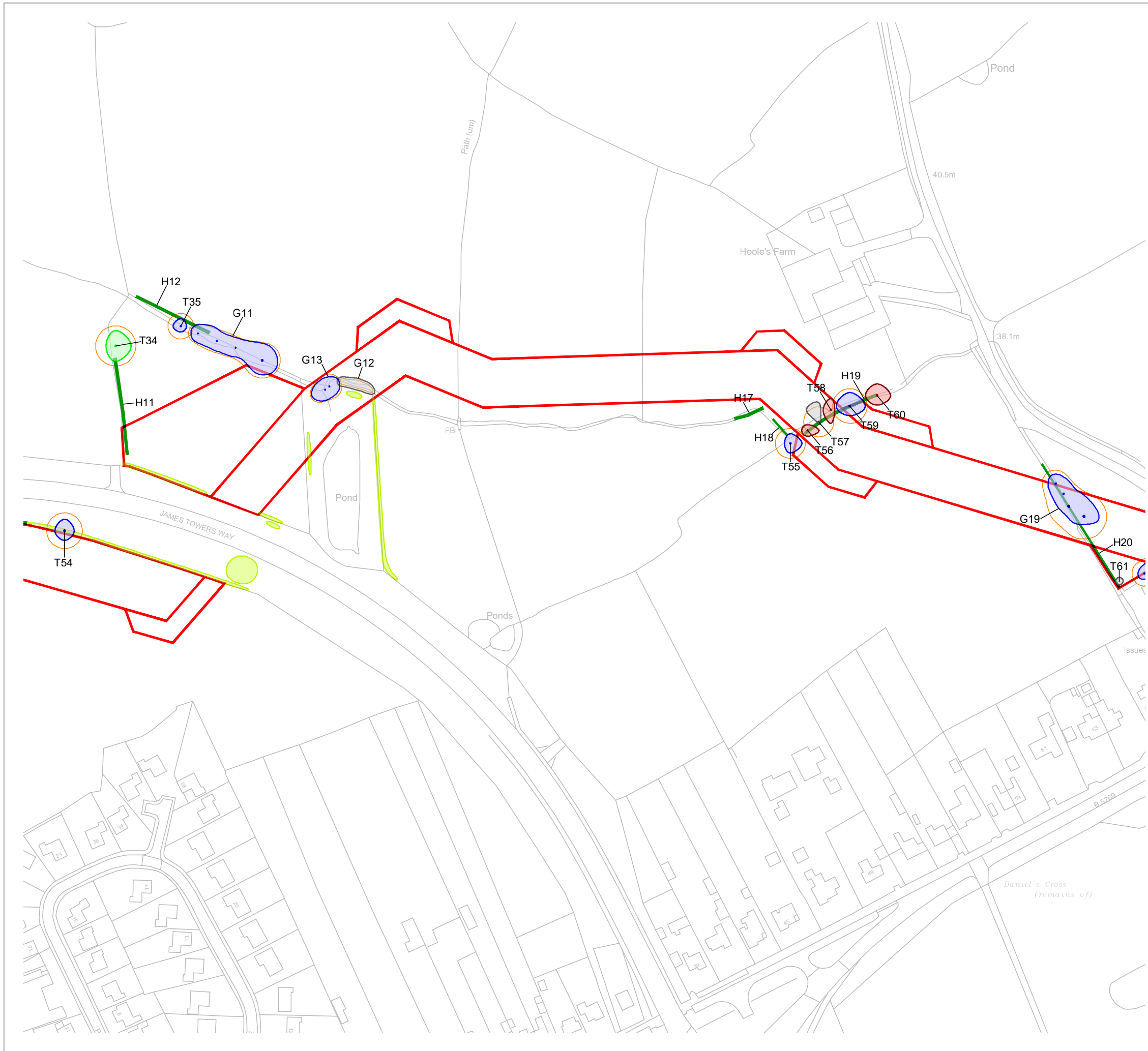
Genesis Centre, Birchwood Science Park, Warrington WA3 7BH
Tel 01925 844004 e-mail tep@tep.uk.com www.tep.uk.com

Project
Broughton WTW to White Bull WTW Raw Water Main

Title
Drawing 2: Tree Constraints Plan [BASELINE] - Inset 2 of 19

Drawing Number
D8462.003

Drawn	Checked	Approved	Scale	Date
HEE	RMG	RMG	1:2000 @ A3	06/11/2020



KEY

[This drawing must be reproduced in colour]

- T1/G1 Trees
- H1 Hedgerow
- Root Protection Area (RPA)
- Working Areas
- Tree Preservation Order
- Approximate Location of Planted Whips and Saplings

Tree Quality Categorisation

(Based on BS 5837:2012 Trees in relation to design, demolition and construction - Recommendations)

- Category A (High quality)
- Category B (Moderate quality)
- Category C (Low quality)
- Category U (Unsuitable for retention)
- Hedgerow (Not categorised)

NOTES:

This drawing should be read in conjunction with the respective Arboricultural Survey Data (Appendix A).

No topographical survey was available to inform the production of these drawings and so tree locations are approximate based on aerial photography and on-site observations.

Where it has been possible to identify trees protected by TPO, these have been marked with an asterisk (*) and the relevant TPO reference noted in the respective Survey Data within Appendix A.

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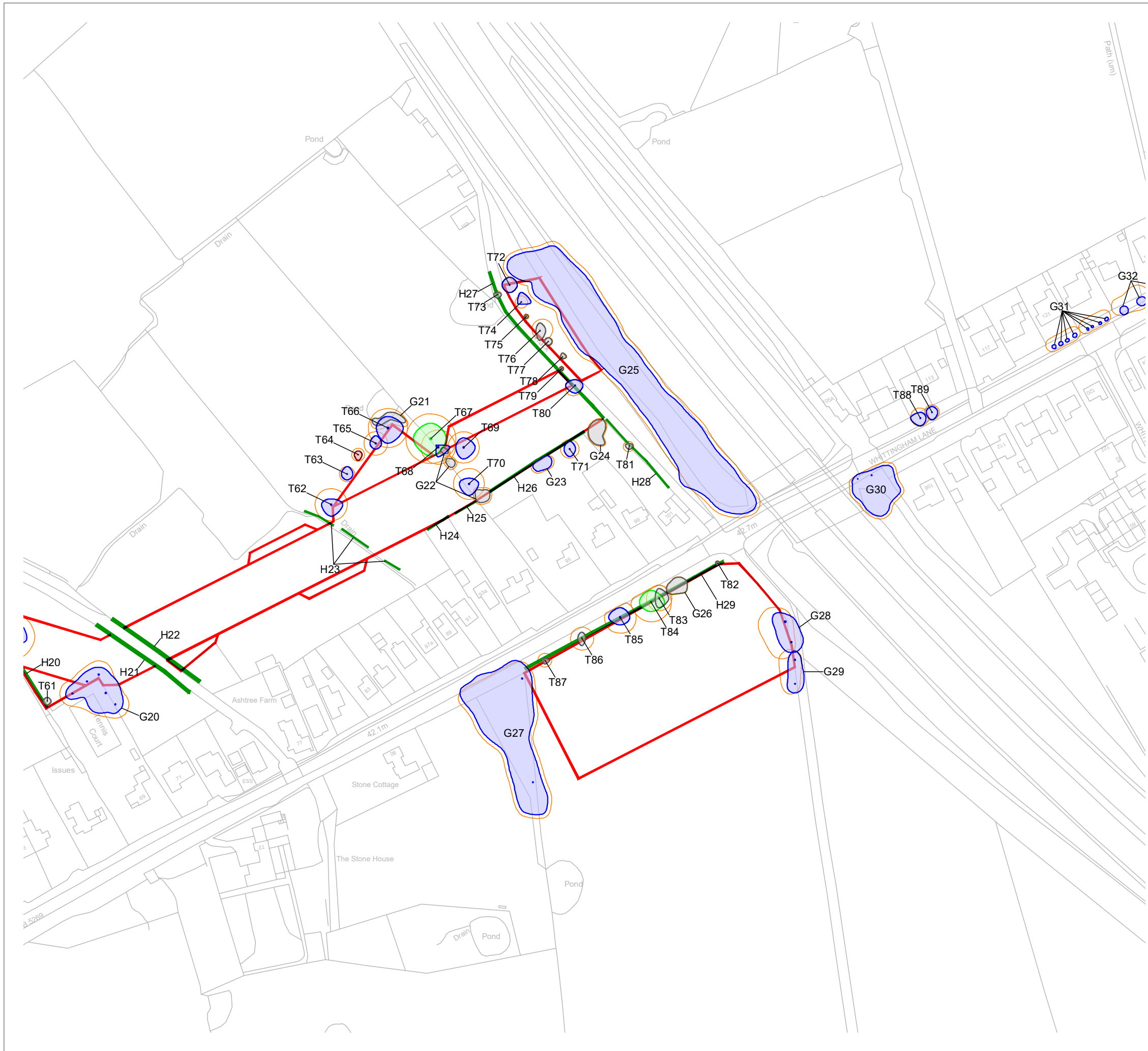
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Tel 01925 844004 e-mail tep@tep.uk.com www.tep.uk.com

Project
Broughton WTW to White Bull WTW Raw Water Main

Title
Drawing 2: Tree Constraints Plan [BASELINE] - Inset 3 of 19

Drawing Number
D8462.004

Drawn	Checked	Approved	Scale	Date
HEE	RMG	RMG	1:2000 @ A3	06/11/2020



KEY

[This drawing must be reproduced in colour]

- T1/G1 Trees
- H1 Hedgerow
- Root Protection Area (RPA)
- Working Areas
- Tree Preservation Order
- Approximate Location of Planted Whips and Saplings

Tree Quality Categorisation

(Based on BS 5837:2012 Trees in relation to design, demolition and construction - Recommendations)

- Category A (High quality)
- Category B (Moderate quality)
- Category C (Low quality)
- Category U (Unsuitable for retention)
- Hedgerow (Not categorised)

NOTES:

This drawing should be read in conjunction with the respective Arboricultural Survey Data (Appendix A).

No topographical survey was available to inform the production of these drawings and so tree locations are approximate based on aerial photography and on-site observations.

Where it has been possible to identify trees protected by TPO, these have been marked with an asterisk (*) and the relevant TPO reference noted in the respective Survey Data within Appendix A.

Trees between Broughton and the M6 motorway are protected by TPO/1951/0001. A schedule of features (the First Schedule of The Order) is available for this TPO, but no definitive mapping is included within the The Order itself and online mapping available is also not definitive. Trees affected by the proposed works that may be included within the TPO will need to be identified prior to submission of a planning application.



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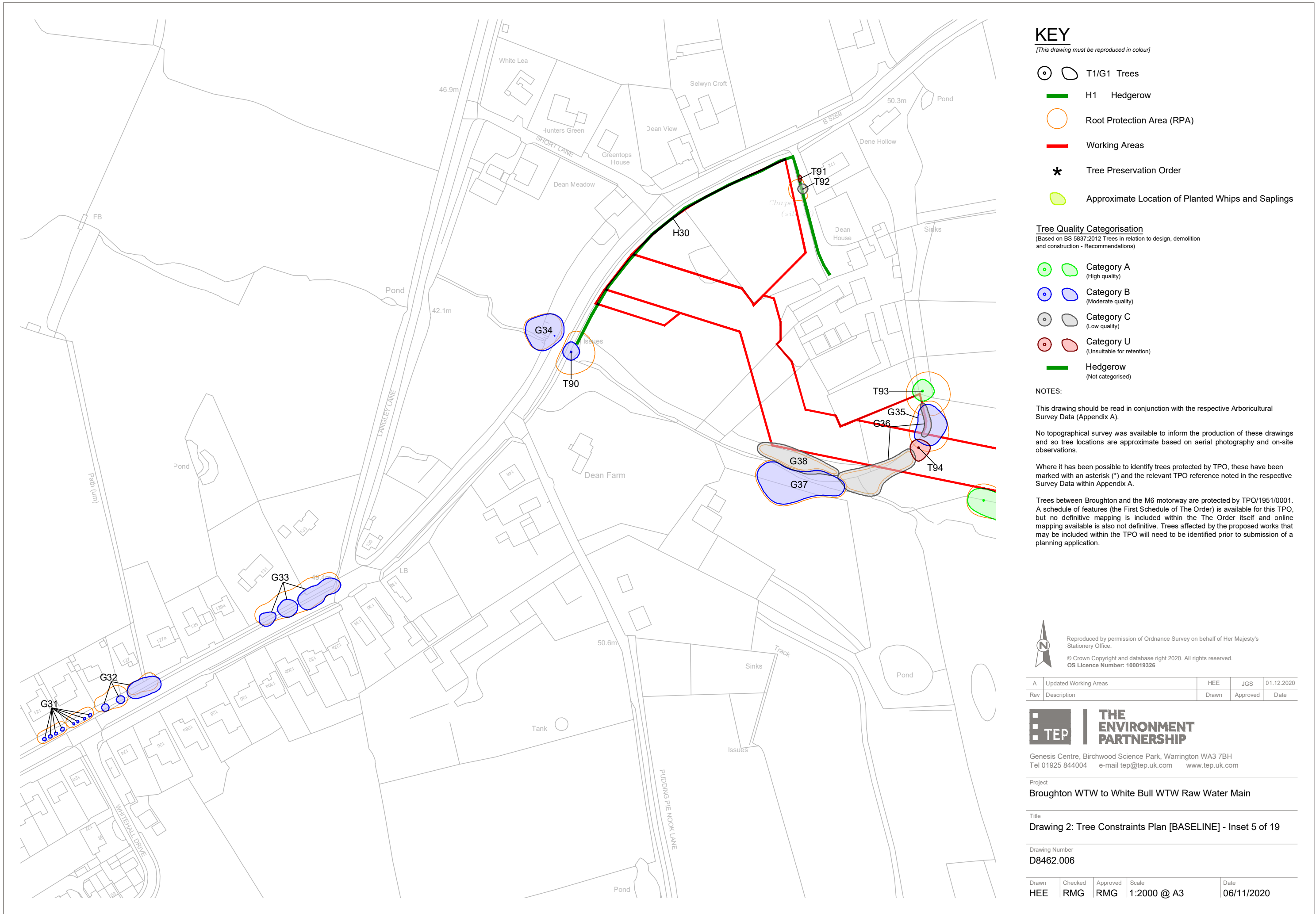
Genesis Centre, Birchwood Science Park, Warrington WA3 7BH
Tel 01925 844004 e-mail tep@tep.uk.com www.tep.uk.com

Project
Broughton WTW to White Bull WTW Raw Water Main

Title
Drawing 2: Tree Constraints Plan [BASELINE] - Inset 4 of 19

Drawing Number
D8462.005

Drawn	Checked	Approved	Scale	Date
HEE	RMG	RMG	1:2000 @ A3	06/11/2020



KEY

[This drawing must be reproduced in colour]

- T1/G1 Trees
- H1 Hedgerow
- Root Protection Area (RPA)
- Working Areas
- Tree Preservation Order
- Approximate Location of Planted Whips and Saplings

Tree Quality Categorisation

(Based on BS 5837:2012 Trees in relation to design, demolition and construction - Recommendations)

- Category A (High quality)
- Category B (Moderate quality)
- Category C (Low quality)
- Category U (Unsuitable for retention)
- Hedgerow (Not categorised)

NOTES:

This drawing should be read in conjunction with the respective Arboricultural Survey Data (Appendix A).

No topographical survey was available to inform the production of these drawings and so tree locations are approximate based on aerial photography and on-site observations.

Where it has been possible to identify trees protected by TPO, these have been marked with an asterisk (*) and the relevant TPO reference noted in the respective Survey Data within Appendix A.

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Project

Broughton WTW to White Bull WTW Raw Water Main

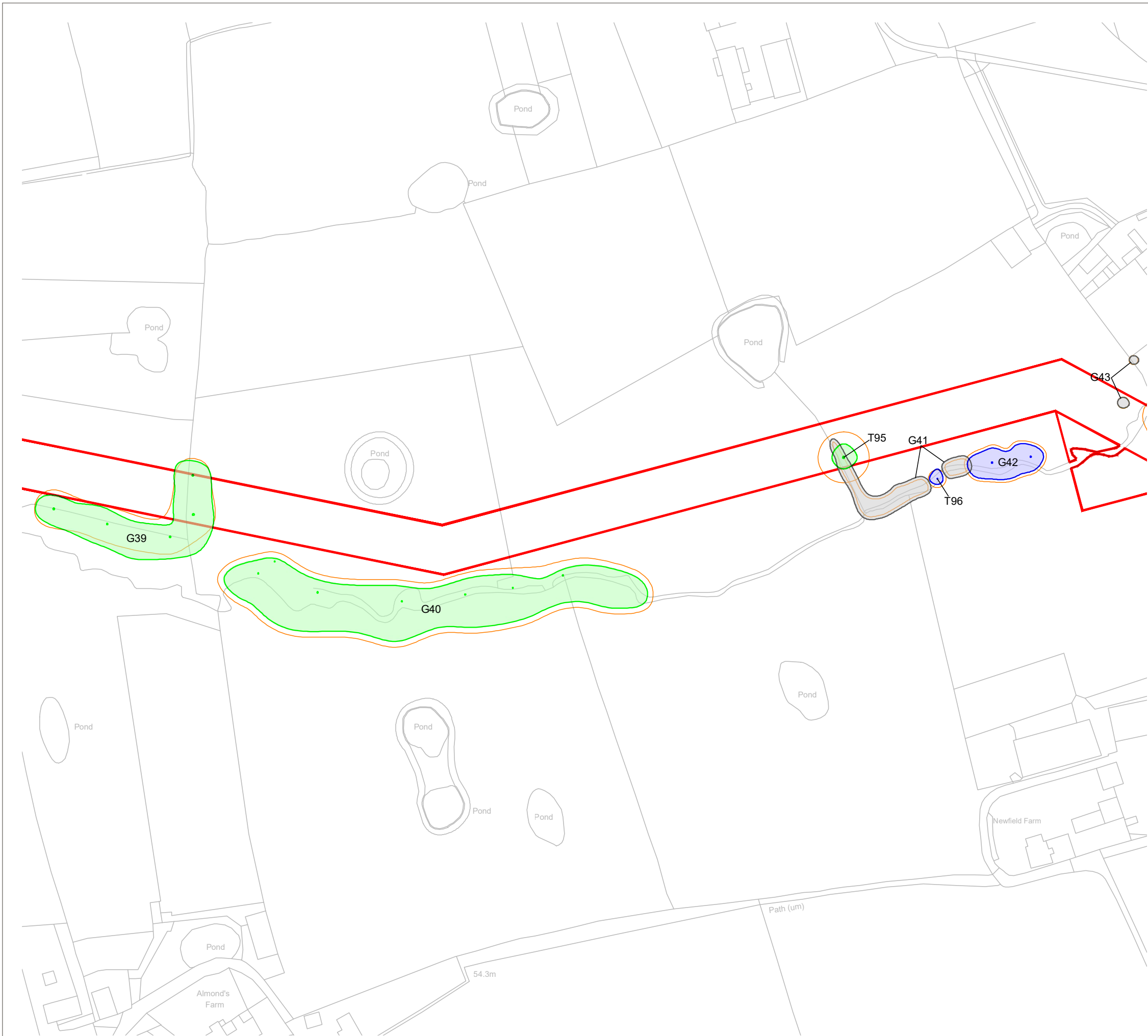
Title

Drawing 2: Tree Constraints Plan [BASELINE] - Inset 5 of 19

Drawing Number

D8462.006

Drawn	Checked	Approved	Scale	Date
HEE	RMG	RMG	1:2000 @ A3	06/11/2020



KEY

[This drawing must be reproduced in colour]

- T1/G1 Trees
- H1 Hedgerow
- Root Protection Area (RPA)
- Working Areas
- Tree Preservation Order
- Approximate Location of Planted Whips and Saplings

Tree Quality Categorisation

(Based on BS 5837:2012 Trees in relation to design, demolition and construction - Recommendations)

- Category A (High quality)
- Category B (Moderate quality)
- Category C (Low quality)
- Category U (Unsuitable for retention)
- Hedgerow (Not categorised)

NOTES:

This drawing should be read in conjunction with the respective Arboricultural Survey Data (Appendix A).

No topographical survey was available to inform the production of these drawings and so tree locations are approximate based on aerial photography and on-site observations.

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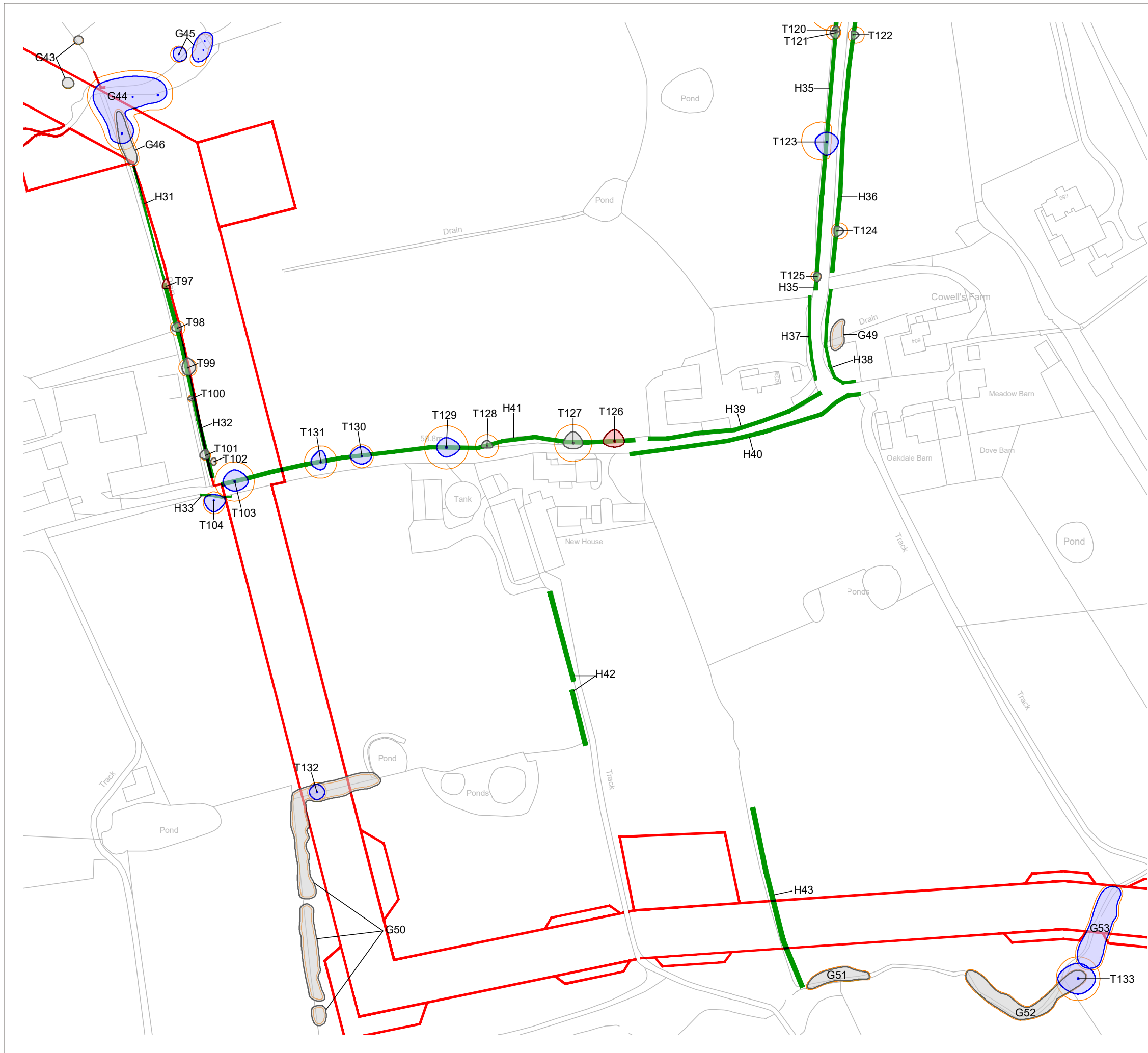
Genesis Centre, Birchwood Science Park, Warrington WA3 7BH
Tel 01925 844004 e-mail tep@tep.uk.com www.tep.uk.com

Project
Broughton WTW to White Bull WTW Raw Water Main

Title
Drawing 2: Tree Constraints Plan [BASELINE] - Inset 6 of 19

Drawing Number
D8462.007

Drawn	Checked	Approved	Scale	Date
HEE	RMG	RMG	1:2000 @ A3	06/11/2020



KEY

[This drawing must be reproduced in colour]

-   T1/G1 Trees
-  H1 Hedgerow
-  Root Protection Area (RPA)
-  Working Areas
-  Tree Preservation Order
-  Approximate Location of Planted Whips and Saplings

Tree Quality Categorisation

(Based on BS 5837:2012 Trees in relation to design, demolition and construction - Recommendations)

-   Category A
(High quality)
-   Category B
(Moderate quality)
-   Category C
(Low quality)
-   Category U
(Unsuitable for retention)
-  Hedgerow
(Not categorised)

NOTES:

This drawing should be read in conjunction with the respective Arboricultural Survey Data (Appendix A).

No topographical survey was available to inform the production of these drawings and so tree locations are approximate based on aerial photography and on-site observations.

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Trees between Broughton and the M6 motorway are protected by TPO/1951/0001. A schedule of features (the First Schedule of The Order) is available for this TPO, but no definitive mapping is included within the The Order itself and online mapping available is also not definitive. Trees affected by the proposed works that may be included within the TPO will need to be identified prior to submission of a planning application.



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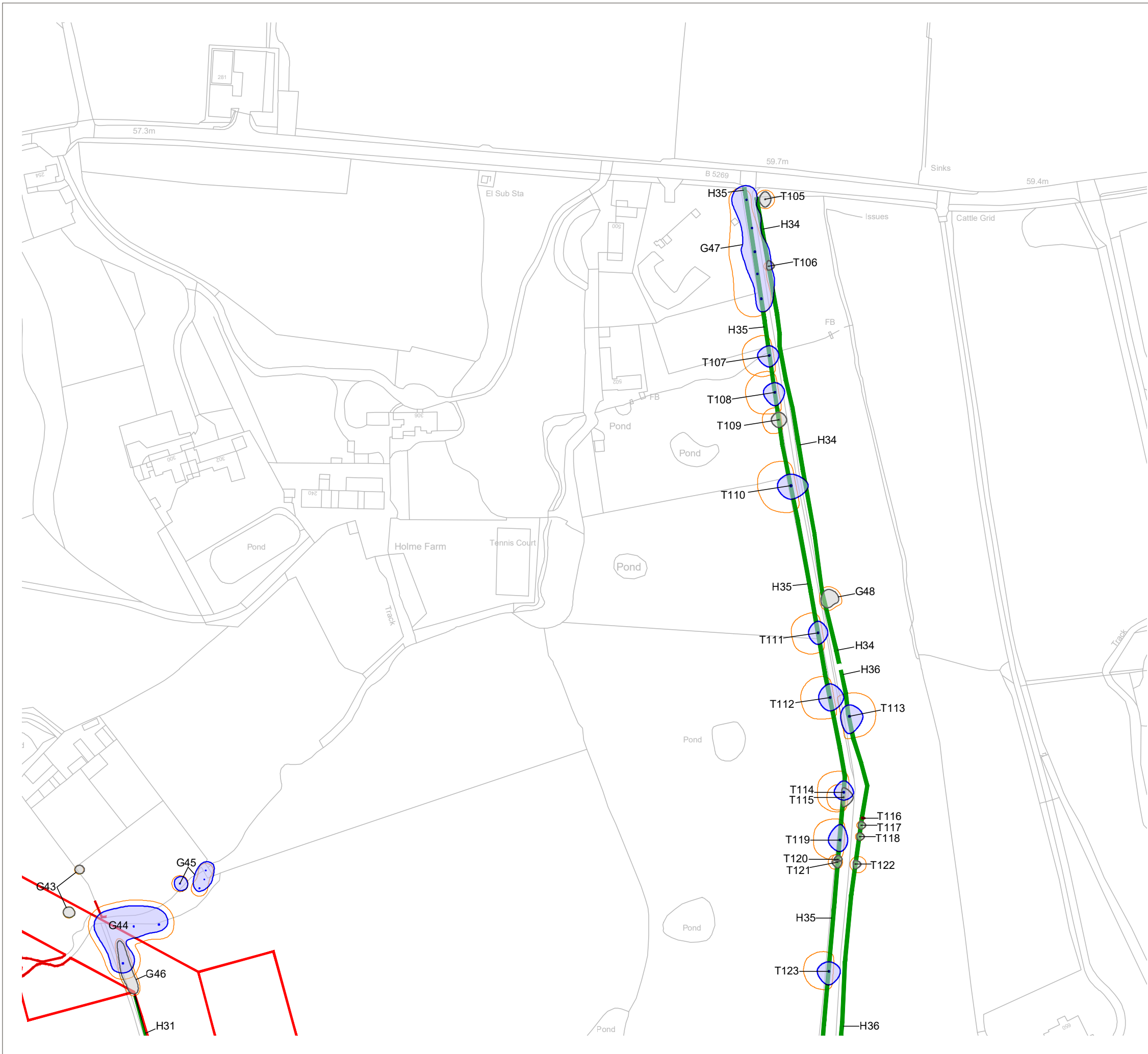
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Tel 01925 844004 e-mail tep@tep.uk.com www.tep.uk.com

Project
Broughton WTW to White Bull WTW Raw Water Main

Title
Drawing 2: Tree Constraints Plan [BASELINE] - Inset 7 of 19

Drawing Number
D8462.008

Drawn	Checked	Approved	Scale	Date
HEE	RMG	RMG	1:2000 @ A3	06/11/2020



KEY

[This drawing must be reproduced in colour]

- T1/G1 Trees
- H1 Hedgerow
- Root Protection Area (RPA)
- Working Areas
- Tree Preservation Order
- Approximate Location of Planted Whips and Saplings

Tree Quality Categorisation
(Based on BS 5837:2012 Trees in relation to design, demolition and construction - Recommendations)

- Category A (High quality)
- Category B (Moderate quality)
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- Category U (Unsuitable for retention)
- Hedgerow (Not categorised)

NOTES:

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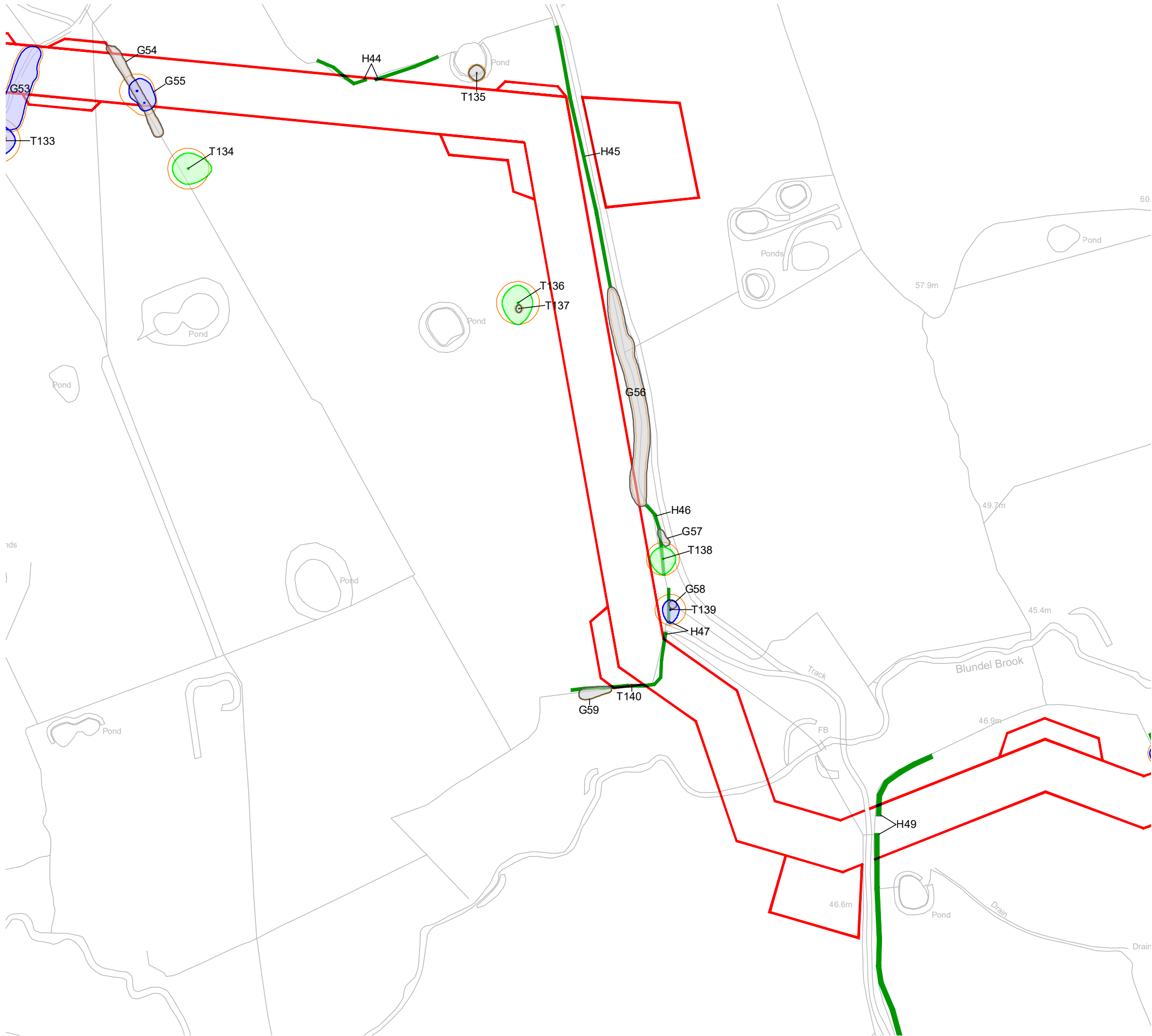
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Tel 01925 844004 e-mail tep@tep.uk.com www.tep.uk.com

Project
Broughton WTW to White Bull WTW Raw Water Main

Title
Drawing 2: Tree Constraints Plan [BASELINE] - Inset 8 of 19

Drawing Number
D8462.009

Drawn	Checked	Approved	Scale	Date
HEE	RMG	RMG	1:2000 @ A3	06/11/2020



KEY

[This drawing must be reproduced in colour]

- T1/G1 Trees
- H1 Hedgerow
- Root Protection Area (RPA)
- Working Areas
- Tree Preservation Order
- Approximate Location of Planted Whips and Saplings

Tree Quality Categorisation

(Based on BS 5837:2012 Trees in relation to design, demolition and construction - Recommendations)

- Category A (High quality)
- Category B (Moderate quality)
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NOTES:

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Project
Broughton WTW to White Bull WTW Raw Water Main

Title
Drawing 2: Tree Constraints Plan [BASELINE] - Inset 9 of 19

Drawing Number
D8462.010

Drawn	Checked	Approved	Scale	Date
HEE	RMG	RMG	1:2000 @ A3	06/11/2020



KEY

[This drawing must be reproduced in colour]

- T1/G1 Trees
- H1 Hedgerow
- Root Protection Area (RPA)
- Working Areas
- Tree Preservation Order
- Approximate Location of Planted Whips and Saplings

Tree Quality Categorisation

(Based on BS 5837:2012 Trees in relation to design, demolition and construction - Recommendations)

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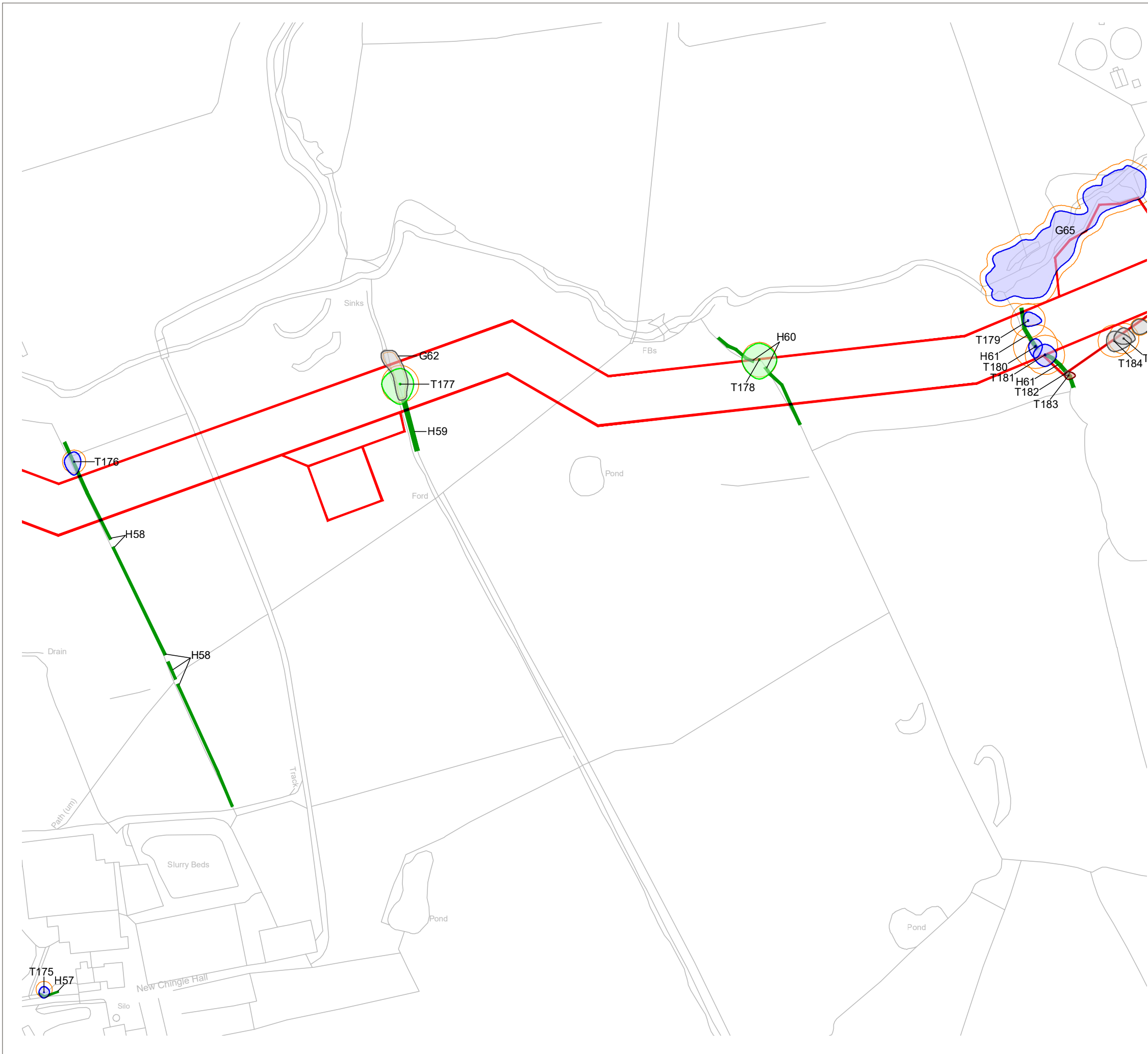
Genesis Centre, Birchwood Science Park, Warrington WA3 7BH
Tel 01925 844004 e-mail tep@tep.uk.com www.tep.uk.com

Project
Broughton WTW to White Bull WTW Raw Water Main

Title
Drawing 2: Tree Constraints Plan [BASELINE] - Inset 10 of 19

Drawing Number
D8462.011

Drawn	Checked	Approved	Scale	Date
HEE	RMG	RMG	1:2000 @ A3	06/11/2020



KEY

[This drawing must be reproduced in colour]

- T1/G1 Trees
- H1 Hedgerow
- Root Protection Area (RPA)
- Working Areas
- Tree Preservation Order
- Approximate Location of Planted Whips and Saplings

Tree Quality Categorisation

(Based on BS 5837:2012 Trees in relation to design, demolition and construction - Recommendations)

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NOTES:

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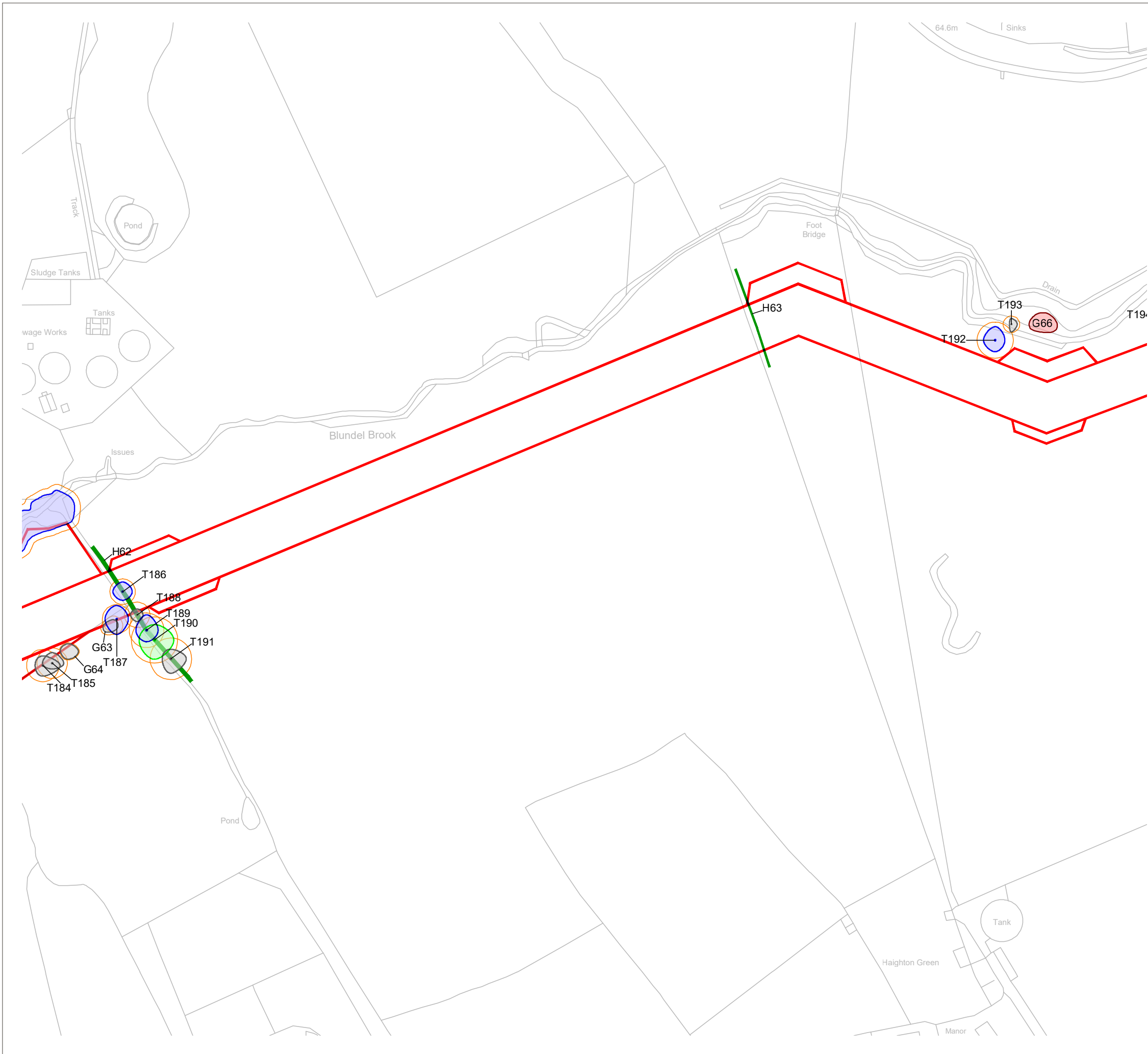
Genesis Centre, Birchwood Science Park, Warrington WA3 7BH
Tel 01925 844004 e-mail tep@tep.uk.com www.tep.uk.com

Project
Broughton WTW to White Bull WTW Raw Water Main

Title
Drawing 2: Tree Constraints Plan [BASELINE] - Inset 11 of 19

Drawing Number
D8462.012

Drawn	Checked	Approved	Scale	Date
HEE	RMG	RMG	1:2000 @ A3	06/11/2020



KEY

[This drawing must be reproduced in colour]

- T1/G1 Trees
- H1 Hedgerow
- Root Protection Area (RPA)
- Working Areas
- Tree Preservation Order
- Approximate Location of Planted Whips and Saplings

Tree Quality Categorisation

(Based on BS 5837:2012 Trees in relation to design, demolition and construction - Recommendations)

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NOTES:

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Rev	Description	Drawn	Approved	Date



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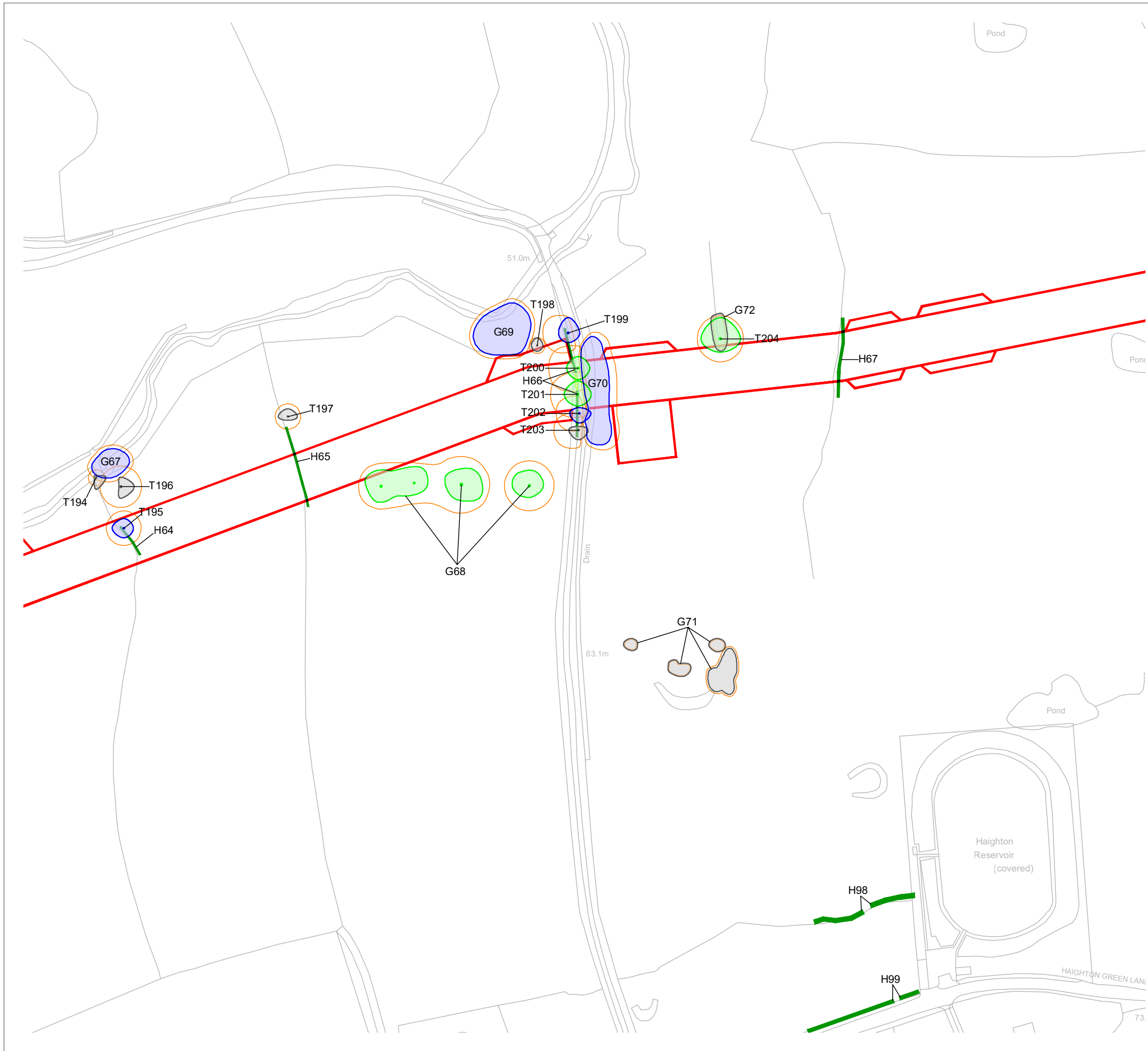
Genesis Centre, Birchwood Science Park, Warrington WA3 7BH
Tel 01925 844004 e-mail tep@tep.uk.com www.tep.uk.com

Project
Broughton WTW to White Bull WTW Raw Water Main

Title
Drawing 2: Tree Constraints Plan [BASELINE] - Inset 12 of 19

Drawing Number
D8462.013

Drawn	Checked	Approved	Scale	Date
HEE	RMG	RMG	1:2000 @ A3	06/11/2020



KEY

[This drawing must be reproduced in colour]

- T1/G1 Trees
- H1 Hedgerow
- Root Protection Area (RPA)
- Working Areas
- Tree Preservation Order
- Approximate Location of Planted Whips and Saplings

Tree Quality Categorisation

(Based on BS 5837:2012 Trees in relation to design, demolition and construction - Recommendations)

- Category A (High quality)
- Category B (Moderate quality)
- Category C (Low quality)
- Category U (Unsuitable for retention)
- Hedgerow (Not categorised)

NOTES:

This drawing should be read in conjunction with the respective Arboricultural Survey Data (Appendix A).

No topographical survey was available to inform the production of these drawings and so tree locations are approximate based on aerial photography and on-site observations.

Where it has been possible to identify trees protected by TPO, these have been marked with an asterisk (*) and the relevant TPO reference noted in the respective Survey Data within Appendix A.

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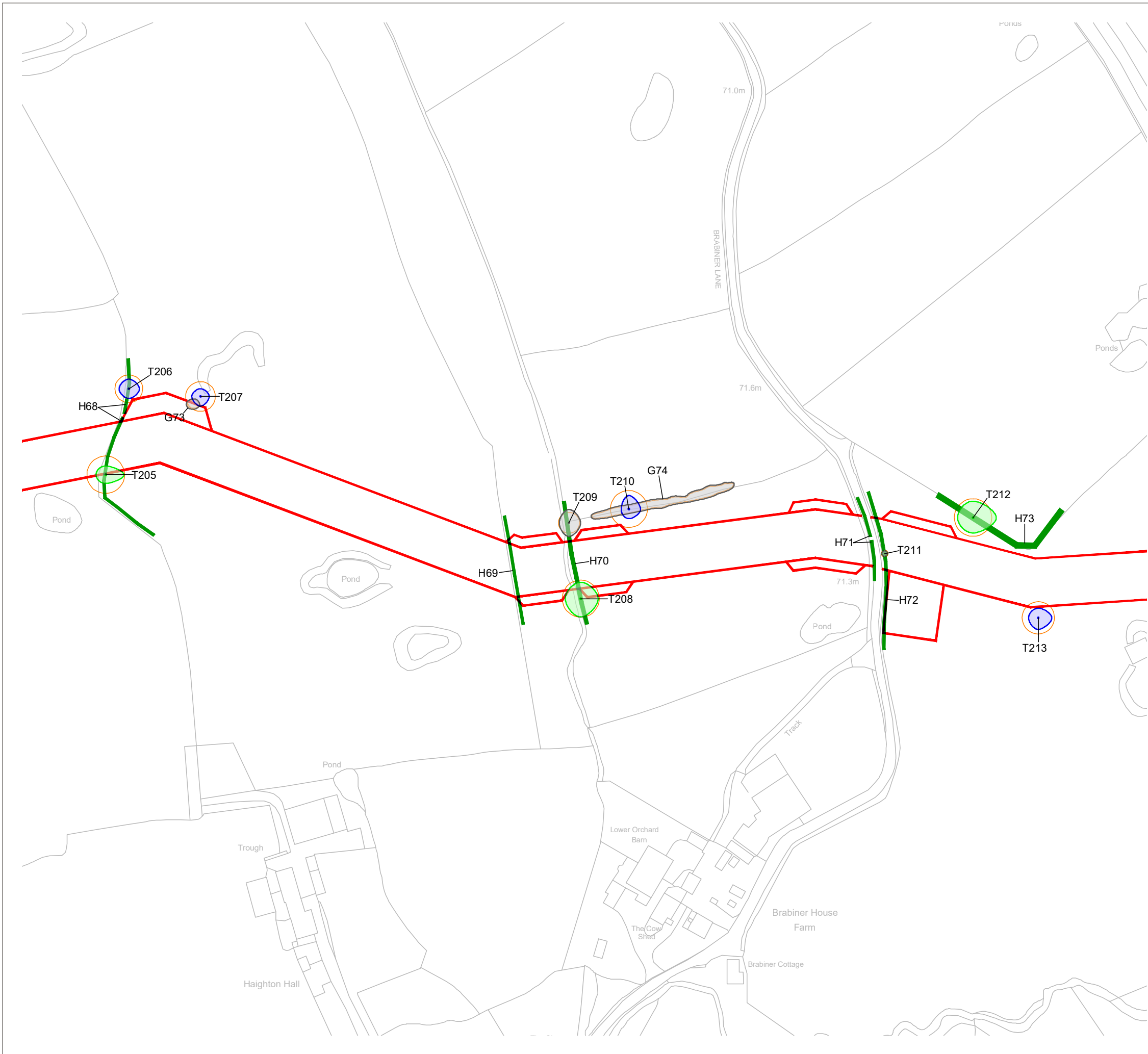
Genesis Centre, Birchwood Science Park, Warrington WA3 7BH
Tel 01925 844004 e-mail tep@tep.uk.com www.tep.uk.com

Project
Broughton WTW to White Bull WTW Raw Water Main

Title
Drawing 2: Tree Constraints Plan [BASELINE] - Inset 13 of 19

Drawing Number
D8462.014

Drawn	Checked	Approved	Scale	Date
HEE	RMG	RMG	1:2000 @ A3	06/11/2020



KEY

[This drawing must be reproduced in colour]

- T1/G1 Trees
- H1 Hedgerow
- Root Protection Area (RPA)
- Working Areas
- Tree Preservation Order
- Approximate Location of Planted Whips and Saplings

Tree Quality Categorisation

(Based on BS 5837:2012 Trees in relation to design, demolition and construction - Recommendations)

- Category A (High quality)
- Category B (Moderate quality)
- Category C (Low quality)
- Category U (Unsuitable for retention)
- Hedgerow (Not categorised)

NOTES:

This drawing should be read in conjunction with the respective Arboricultural Survey Data (Appendix A).

No topographical survey was available to inform the production of these drawings and so tree locations are approximate based on aerial photography and on-site observations.

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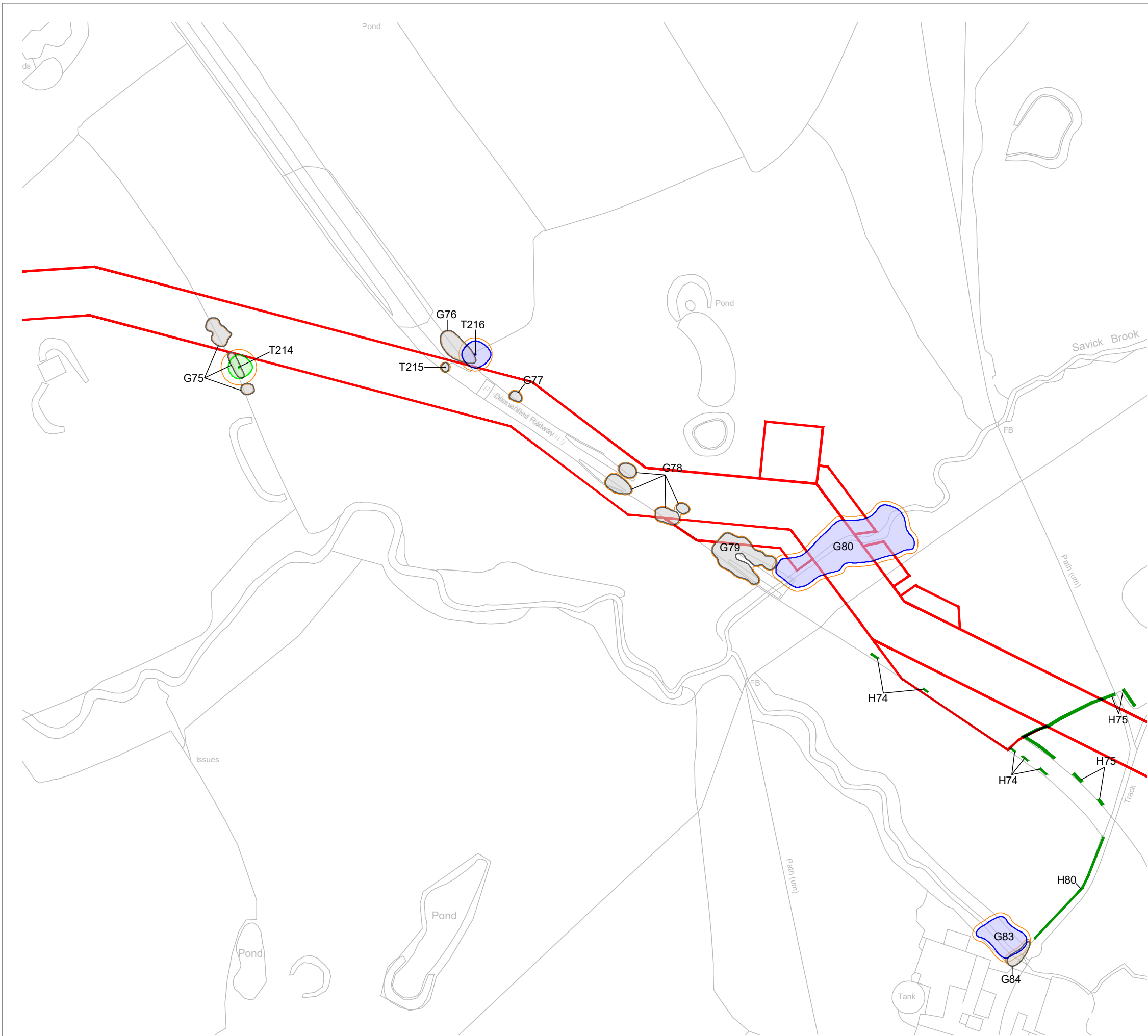
Genesis Centre, Birchwood Science Park, Warrington WA3 7BH
Tel 01925 844004 e-mail tep@tep.uk.com www.tep.uk.com

Project
Broughton WTW to White Bull WTW Raw Water Main

Title
Drawing 2: Tree Constraints Plan [BASELINE] - Inset 14 of 19

Drawing Number
D8462.015

Drawn	Checked	Approved	Scale	Date
HEE	RMG	RMG	1:2000 @ A3	06/11/2020



KEY

[This drawing must be reproduced in colour]

- T1/G1 Trees
- H1 Hedgerow
- Root Protection Area (RPA)
- Working Areas
- Tree Preservation Order
- Approximate Location of Planted Whips and Saplings

Tree Quality Categorisation

(Based on BS 5837:2012 Trees in relation to design, demolition and construction - Recommendations)

- Category A (High quality)
- Category B (Moderate quality)
- Category C (Low quality)
- Category U (Unsuitable for retention)
- Hedgerow (Not categorised)

NOTES:

This drawing should be read in conjunction with the respective Arboricultural Survey Data (Appendix A).

No topographical survey was available to inform the production of these drawings and so tree locations are approximate based on aerial photography and on-site observations.

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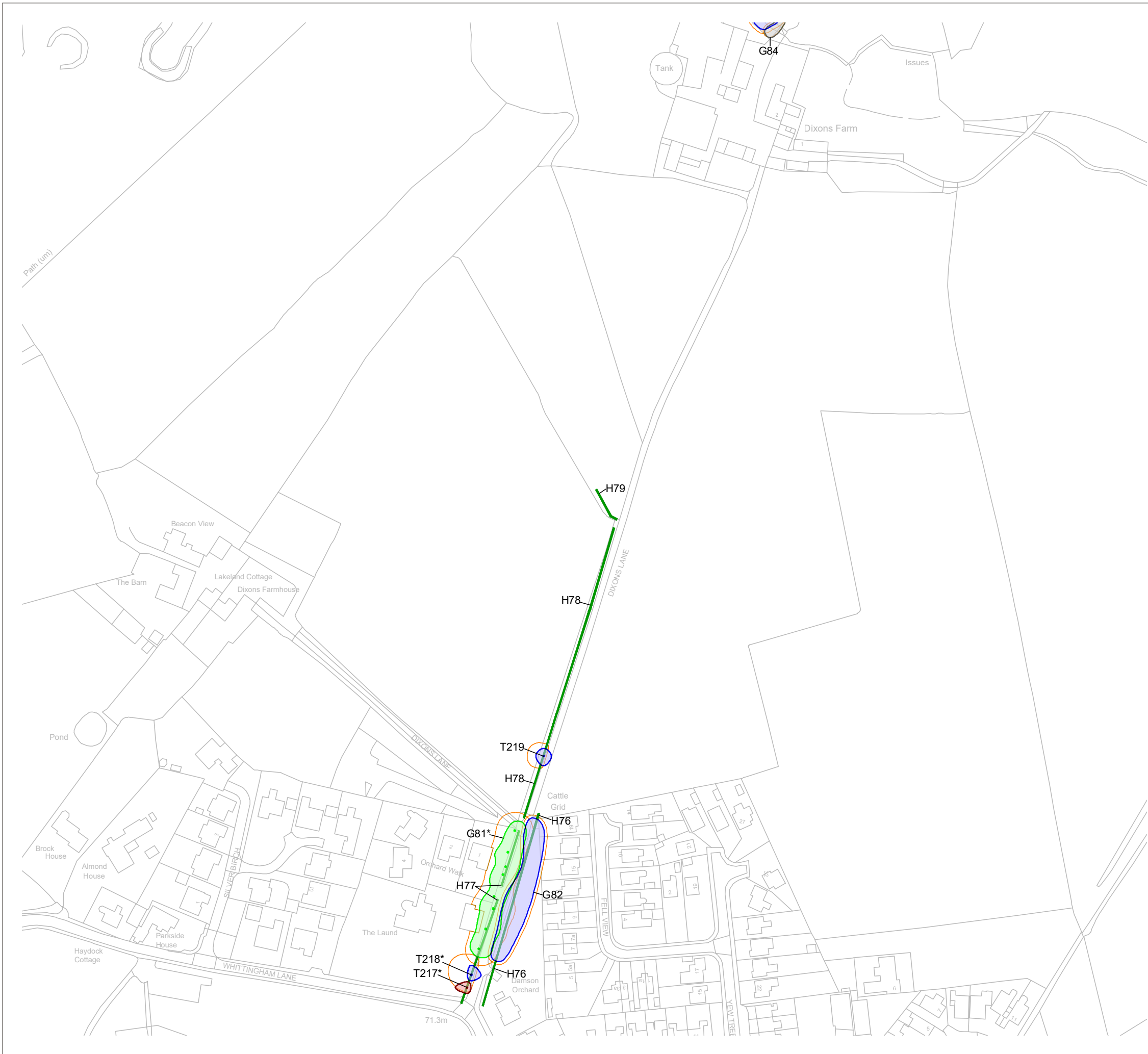
Genesis Centre, Birchwood Science Park, Warrington WA3 7BH
Tel 01925 844004 e-mail tep@tep.uk.com www.tep.uk.com

Project
Broughton WTW to White Bull WTW Raw Water Main

Title
Drawing 2: Tree Constraints Plan [BASELINE] - Inset 15 of 19

Drawing Number
D8462.016

Drawn	Checked	Approved	Scale	Date
HEE	RMG	RMG	1:2000 @ A3	06/11/2020



KEY

[This drawing must be reproduced in colour]

- T1/G1 Trees
- H1 Hedgerow
- Root Protection Area (RPA)
- Working Areas
- Tree Preservation Order
- Approximate Location of Planted Whips and Saplings

Tree Quality Categorisation

(Based on BS 5837:2012 Trees in relation to design, demolition and construction - Recommendations)

- Category A (High quality)
- Category B (Moderate quality)
- Category C (Low quality)
- Category U (Unsuitable for retention)
- Hedgerow (Not categorised)

NOTES:

This drawing should be read in conjunction with the respective Arboricultural Survey Data (Appendix A).

No topographical survey was available to inform the production of these drawings and so tree locations are approximate based on aerial photography and on-site observations.

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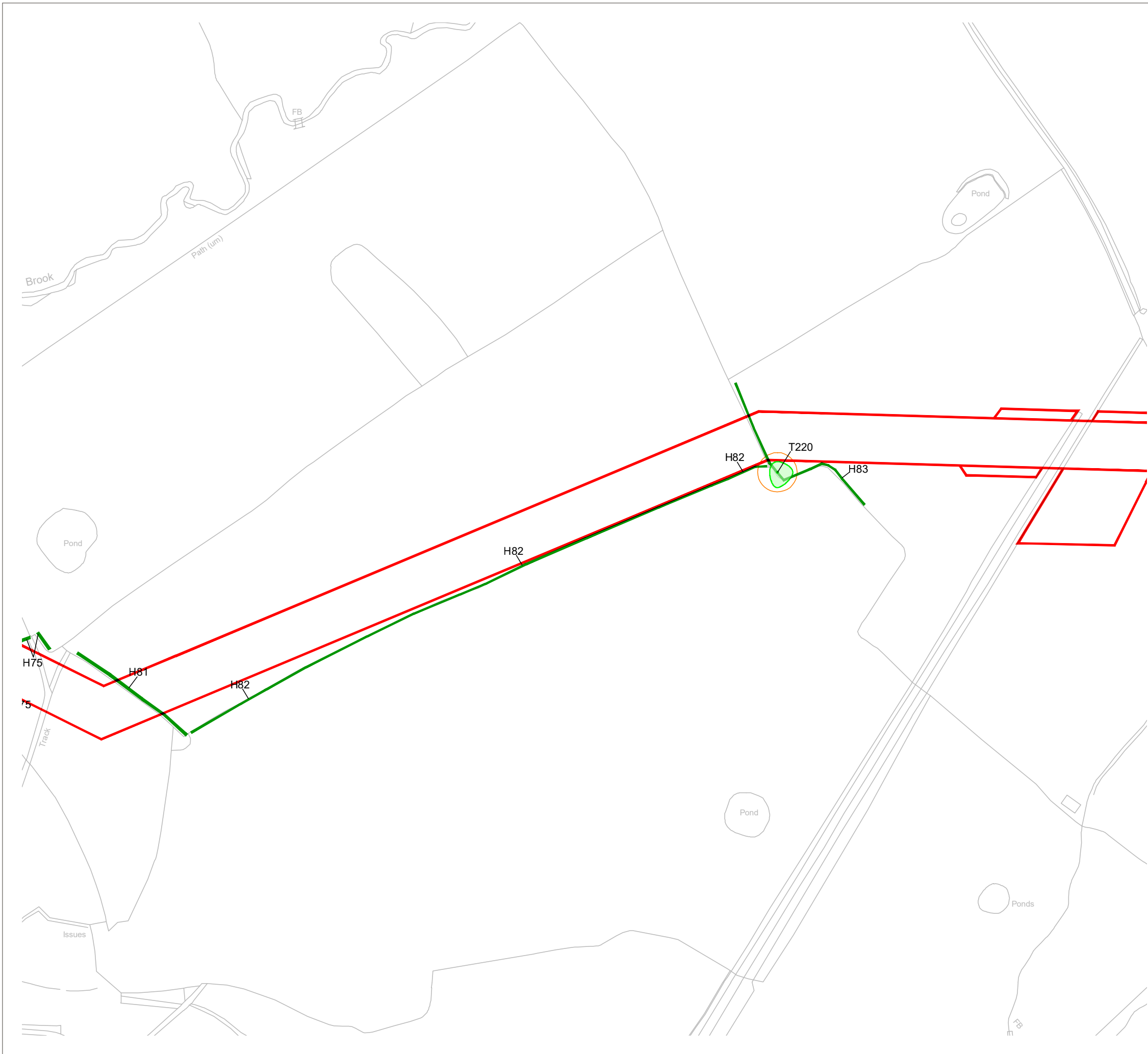
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Tel 01925 844004 e-mail tep@tep.uk.com www.tep.uk.com

Project
Broughton WTW to White Bull WTW Raw Water Main

Title
Drawing 2: Tree Constraints Plan [BASELINE] - Inset 16 of 19

Drawing Number
D8462.017

Drawn	Checked	Approved	Scale	Date
HEE	RMG	RMG	1:2000 @ A3	06/11/2020



KEY

[This drawing must be reproduced in colour]

- T1/G1 Trees
- H1 Hedgerow
- Root Protection Area (RPA)
- Working Areas
- Tree Preservation Order
- Approximate Location of Planted Whips and Saplings

Tree Quality Categorisation

(Based on BS 5837:2012 Trees in relation to design, demolition and construction - Recommendations)

- Category A (High quality)
- Category B (Moderate quality)
- Category C (Low quality)
- Category U (Unsuitable for retention)
- Hedgerow (Not categorised)

NOTES:

This drawing should be read in conjunction with the respective Arboricultural Survey Data (Appendix A).

No topographical survey was available to inform the production of these drawings and so tree locations are approximate based on aerial photography and on-site observations.

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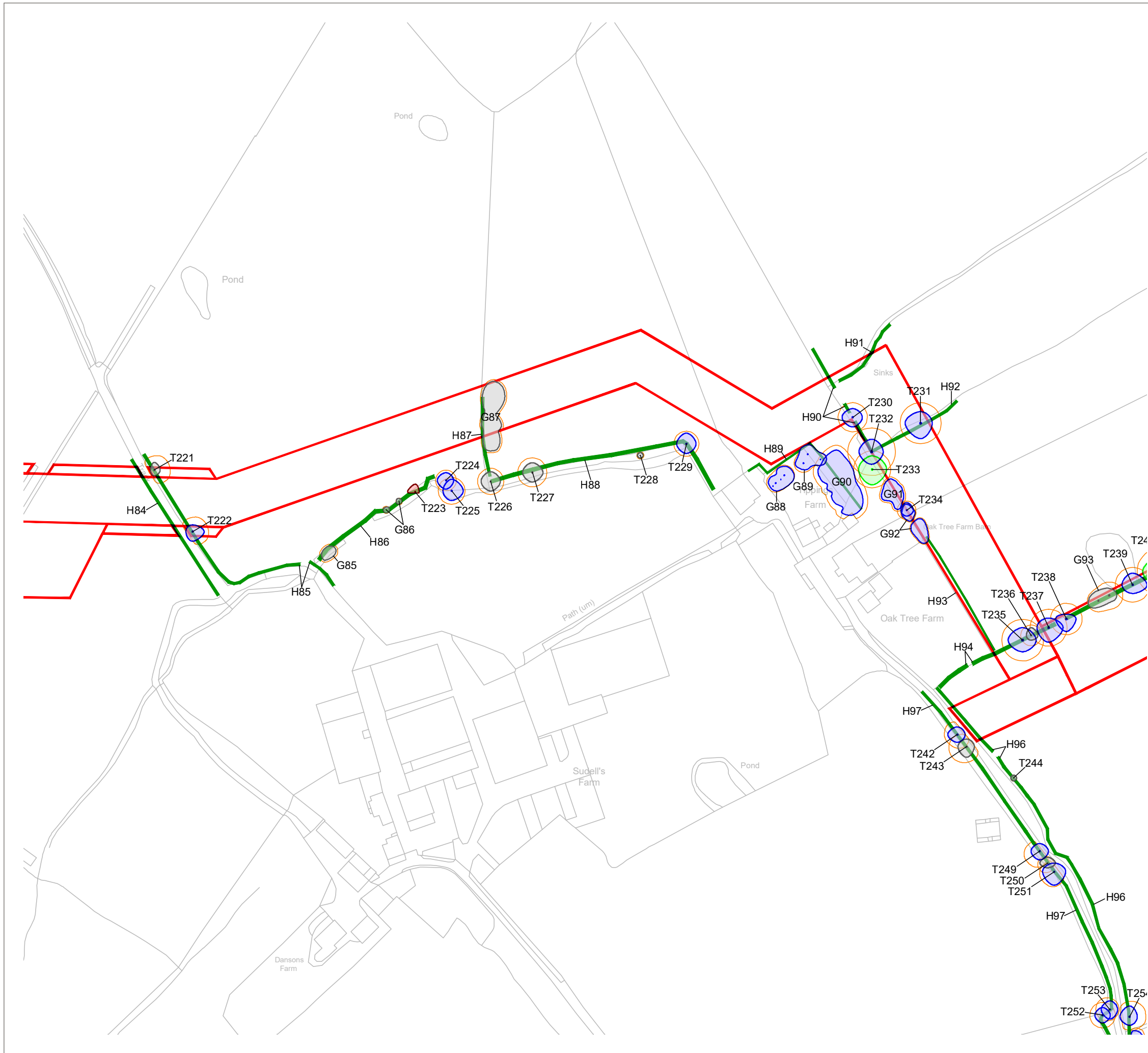
Genesis Centre, Birchwood Science Park, Warrington WA3 7BH
Tel 01925 844004 e-mail tep@tep.uk.com www.tep.uk.com

Project
Broughton WTW to White Bull WTW Raw Water Main

Title
Drawing 2: Tree Constraints Plan [BASELINE] - Inset 17 of 19

Drawing Number
D8462.018

Drawn	Checked	Approved	Scale	Date
HEE	RMG	RMG	1:2000 @ A3	06/11/2020



KEY

[This drawing must be reproduced in colour]

- T1/G1 Trees
- H1 Hedgerow
- Root Protection Area (RPA)
- Working Areas
- Tree Preservation Order
- Approximate Location of Planted Whips and Saplings

Tree Quality Categorisation

(Based on BS 5837:2012 Trees in relation to design, demolition and construction - Recommendations)

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NOTES:

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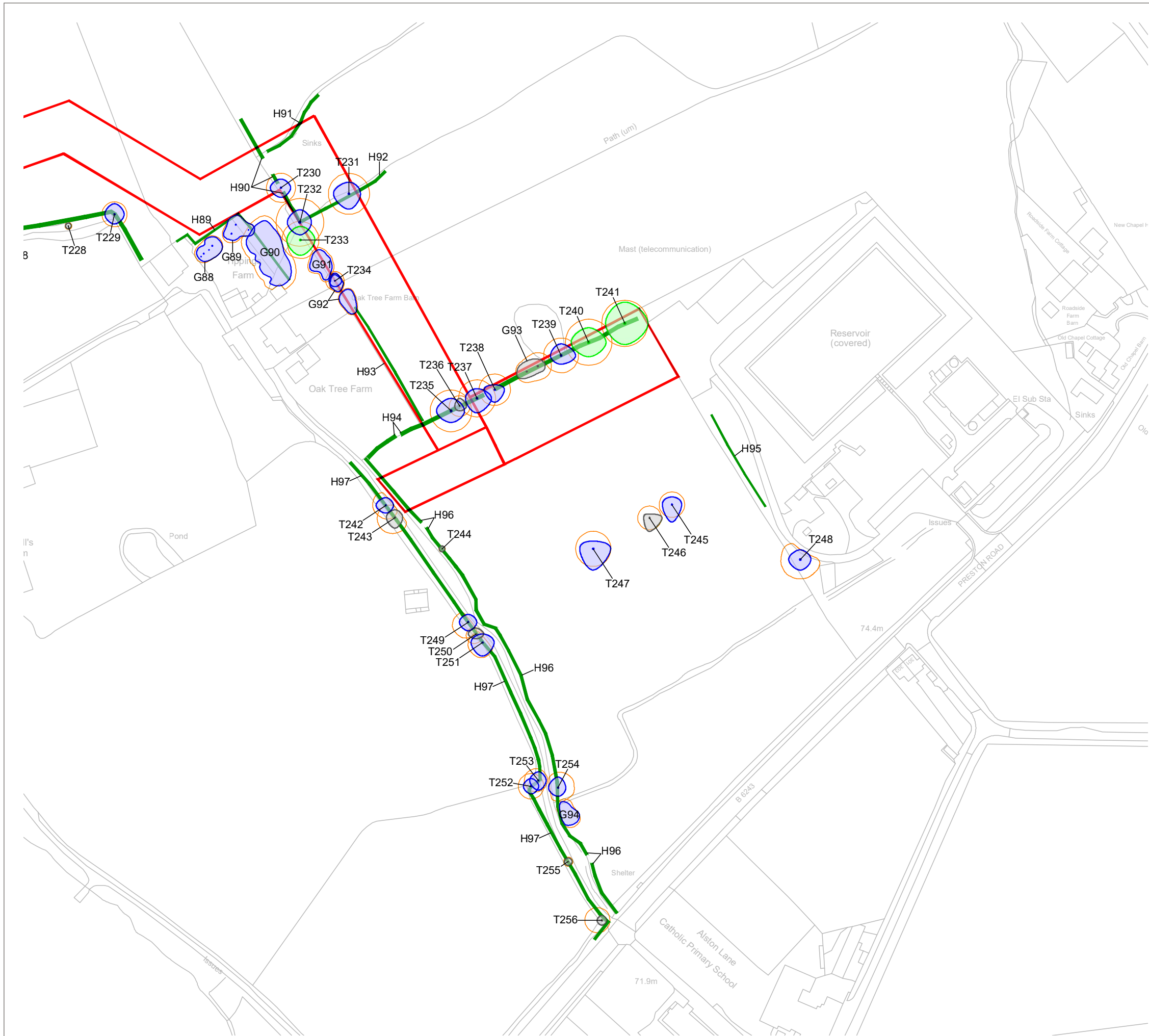
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Tel 01925 844004 e-mail tep@tep.uk.com www.tep.uk.com

Project
Broughton WTW to White Bull WTW Raw Water Main

Title
Drawing 2: Tree Constraints Plan [BASELINE] - Inset 18 of 19

Drawing Number
D8462.019

Drawn	Checked	Approved	Scale	Date
HEE	RMG	RMG	1:2000 @ A3	06/11/2020



KEY

[This drawing must be reproduced in colour]

- T1/G1 Trees
- H1 Hedgerow
- Root Protection Area (RPA)
- Working Areas
- Tree Preservation Order
- Approximate Location of Planted Whips and Saplings

Tree Quality Categorisation

(Based on BS 5837:2012 Trees in relation to design, demolition and construction - Recommendations)

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Project
Broughton WTW to White Bull WTW Raw Water Main

Title
Drawing 2: Tree Constraints Plan [BASELINE] - Inset 19 of 19

Drawing Number
D8462.020

Drawn	Checked	Approved	Scale	Date
HEE	RMG	RMG	1:2000 @ A3	06/11/2020