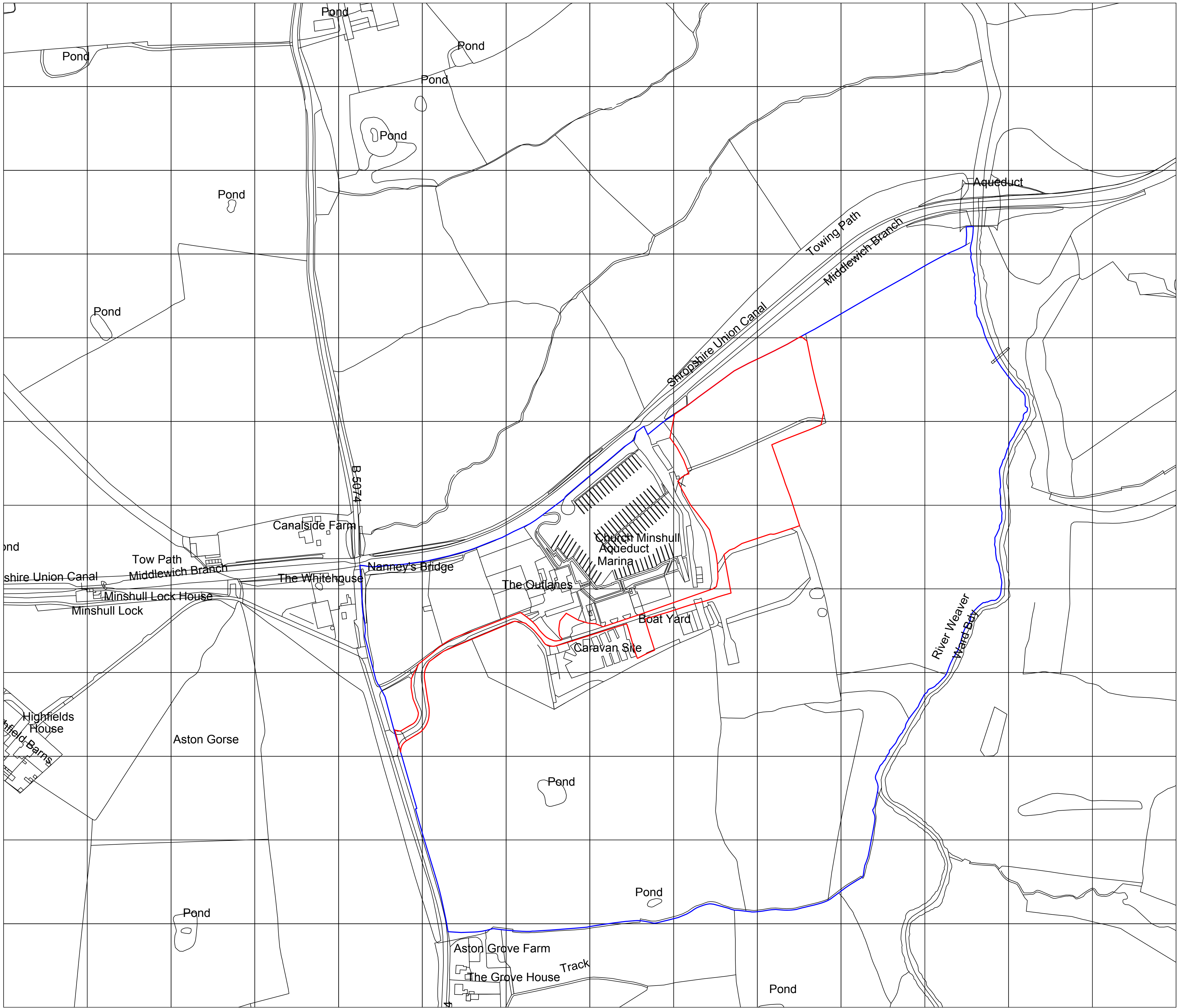


24/4617/FUL

CHURCH MINSHULL
AQUEDUCT MARINA,
NANTWICH ROAD, CHURCH
MINSHULL, NANTWICH,
CHESHIRE, CW5 6DX



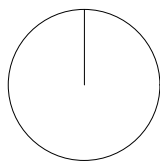
KEY:
— APPLICATION SITE
— EXTENT OF OWNED LAND

0m 100m
01 SITE LOCATION PLAN
1:2500 [A1] / 1:5000 [A3]

Do not scale off this drawing. This drawing is to be read with all other contract documents. Any discrepancies are to be reported to the Architect. At construction status, this drawing remains design intent only. All information to be checked by contractor for site accuracy and fit. Drawings are subject to statutory approvals and site surveys.

NOTES:

- 31.01.23 Issued for Pre App



Takero Shimazaki Architects
6a Peacock Yard, Iliffe Street
London SE17 3LH
t 020 7928 9171
mail@t-sa.co.uk
www.t-sa.co.uk

AQUEDUCT MARINA, CHURCH MINSHULL CW5 6DX

JOB NO. 470

DRAWING NAME SITE LOCATION PLAN

DRAWING STATUS PRE-AP

DATE	SCALE	DRAWN	CHECKED	NUMBER	REV.
31.01.23	1:2500 (A1) / 1:5000 (A3)SH	JF	JF	470_0001	Rev 1



NOTES:
1. Do not scale from this drawing.
2. Always work to noted dimensions.
3. All dimensions are in millimetres unless otherwise stated.
4. All setting out, levels and dimensions to be agreed on site.
5. The dimensions of all materials must be checked on site before being laid out.
6. This drawing must be read with the relevant specification clauses and detail drawings.
7. Order of construction and setting out to be agreed on site.

LOCATION PLAN

KEY

- Red Line Boundary
- Ownership Boundary
- G1-Lawn
- M1-Meadow
- M2-Marshy Grassland
- M3-Woodland Planting Mix
- S1-Mixed Scrub
- Proposed Tree
- Existing Tree
- Proposed Hedge
- Existing Hedge
- Retained Scrub
- Asphalt
- Self Binding gravel
- Seating
- Deck
- Timber Bin Store
2000 x 4000x 2100
- Underground Storage Tank
3m x 12m
- Underground Gas Station

Total Lodges: 29 Lodges

P12	17/02/25	Hedge and Trees Update	TI	SR
P11	03/02/25	Ecological Plan Review	TI	SR
P10	14/10/24	Hedge Update	TI	SR
P09	03/10/24	Planting Update	AW	LS
P08	30/09/24	Planting Update	TI	SR

Revision	Date	Description	Drawn	Apprvd.
----------	------	-------------	-------	---------

THIS DRAWING IS COPYRIGHT PROTECTED AND MAY NOT BE REPRODUCED IN WHOLE OR PART WITHOUT WRITTEN AUTHORITY FROM THE OWNER.

Client Oriel Planning

Project Aqueduct Marina Holiday Park

Drg Title Landscape General Arrangement

Created on Created by Approved by
TI CF

Scale Size Workstage
1:500 A1 S2

Drg No. Suitability Revision
401-LST-XX-XX-DR-L-0101 P12

land studio

48 Hour Foul Storage
The Foul flows from the site are to be treated for 48 hours to remove the chlorine from the discharge of the hot tubs.
Total Storage Required: 78,000 liters

Klargester BM BioDisc 1000mm invert with 600mm extension.
Treatment plant to manufacturers specifications
Minimum 7m from nearest Lodge.
Maximum 30m from access road

Outfall - Option 1
Discharge into existing 600mm diameter Canal & Rivers Trust outfall pipework. Connection subject to approval with Canals & Rivers Trust.

Outfall - Option 2
New outfall pipework to discharge via new headwall into the River Weaver. Subject to approval with the Environment Agency.

Flow Control Chamber
Hydro International HydroBrake Optimum MD-SHE-0174-1480-1000-1480
Design head = 1.00m
Restricted discharge max. = 14.8 l/sec
Flow control orifice size 174mm
CL - 37.50m AOD
IL - 36.638m AOD

Pond 3
The pond base and embankments are to be lined with clay to maintain a constant water level.
Pond base level: 36.35m AOD
Permanent water level: 36.75m AOD
Top of banks: 37.50m AOD
100yr plus 40%cc WL: 36.97m AOD
Total Storage Volume: 593m³
Minimum Storage: 316m³

Pond 1
The pond base and embankments are to be lined with clay to maintain a constant water level.
Pond base level: 40.58m AOD
Permanent water level: 40.98m AOD
Top of banks: 41.43m AOD
100yr plus 45%cc WL: 40.81m AOD
Total Storage Volume: 29m³
Minimum Storage: 2.4m³

Sluice gate - Canal overflow

Pond 4
The pond base and embankments are to be lined with clay to maintain a constant water level.
Pond base level: 43.10m AOD
Permanent water level: 43.55m AOD
Top of banks: 44.00m AOD
100yr plus 45%cc WL: 43.70m AOD
Total Storage Volume: 33m³
Minimum Storage: 11.5m³


Drainage Strategy
Surface Water
• Surface water is to be captured from the roofed areas by guttering which will then discharge to small diameter conveyance pipes.
• There are proposed to be 4 lined ponds located throughout the site designed to capture and attenuate surface water flows from the roofed areas as well as any other hard standing associated with the developed site.
• Although the access roads are proposed to be of permeable construction the ponds have been designed to cater for overland flows from these areas in the event of ground saturation and the rate of infiltration reducing.
• In the event of exceedance due to obstruction within the system all flows will natural fall towards the ponds and back into the system further down stream.
• Due to the way in which the ponds banks have been designed with shallow gradients instead of steep 1 in 3 banks the ponds have a much greater volume available for storing surface water than what is required while maintaining an appealing aesthetic in keeping with the surrounding landscape.
• Flows are proposed to be restricted via a flow control device fitted in manhole S24 which will limit surface water to the calculated Qbar rate of 14.8l/s
• The restricted flow will discharge either via an existing Canals & Rivers Trust outfall pipe into the River Weaver or a new pipe and headwall.
Formal approvals to be gained to confirm discharge option.

Minimum Storage Required: 600m³
Total Storage Available: 655m³
Discharge Rate: 14.8l/s

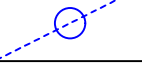
Foul Water
• Foul water is proposed to be conveyed from each lodge to a vented storage tank along the northern boundary which is design to store the maximum flows from all lodges and hot tubs for a duration of 48 hours.
• Within the storage tank the foul water will be treated to reduce the chlorine levels prior to being discharged to the foul water treatment plant.
• The treatment plant has been selected from the British Water list of certified treatment plants and is designed inline with EN 12566 - Part 3 "Part 3: Packaged and/or site assembled domestic wastewater treatment plants.
• The treated water will discharge either via an existing Canals & Rivers Trust outfall pipe into the River Weaver or a new pipe and headwall.

NOTES:
1. Do not scale from this drawing.
2. Always work to noted dimensions.
3. All dimensions are in millimetres unless otherwise stated.
4. All setting out, levels and dimensions to be agreed on site.
5. The dimensions of all materials must be checked on site before being laid out.
6. This drawing must be read with the relevant specification clauses and detail drawings.
7. Order of construction and setting out to be agreed on site.


KEY



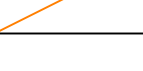
Foul Water Sewer



Surface Water Sewer



Permeable Surface
(Subbase not included as storage within calculations)

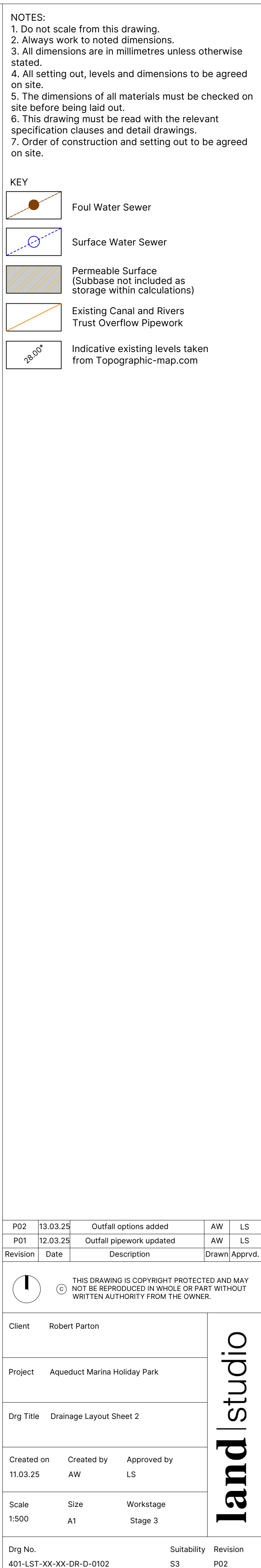


Existing Canal and Rivers Trust Overflow Pipework

P07	13.03.25	Outfall option added	AW	LS
P06	12.03.25	Outfall route updated	AW	LS
P05	03.10.24	Updated Layout	GD	LS
P04	13.09.24	Updated Layout	GD	LS
P03	03.09.24	Updated Layout	GD	LS
P02	09.08.24	Updated Layout	GD	LS
P01	24.05.24	Issued for Review	GD	LS
Revision	Date	Description	Drawn	Apprvd.

THIS DRAWING IS COPYRIGHT PROTECTED AND MAY NOT BE REPRODUCED IN WHOLE OR PART WITHOUT WRITTEN AUTHORITY FROM THE OWNER.


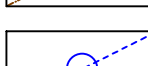
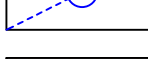
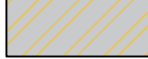

Client	Robert Parton			land studio	
Project	Aqueduct Marina Holiday Park				
Drg Title	Drainage Layout Sheet 1				
Created on	Created by	Approved by			
20.05.24	AW	GD			
Scale	Size	Workstage			
1:500	A1	Stage 3			
Drg No.	Suitability			Revision	
401-LST-XX-XX-DR-D-0101	S3			P07	
© Land Studio Limited					



NOTES:

1. Do not scale from this drawing.
2. Always work to noted dimensions.
3. All dimensions are in millimetres unless otherwise stated.
4. All setting out, levels and dimensions to be agreed on site.
5. The dimensions of all materials must be checked on site before being laid out.
6. This drawing must be read with the relevant specification clauses and detail drawings.
7. Order of construction and setting out to be agreed on site.

KEY

-  Foul Water Sewer
-  Surface Water Sewer
-  Permeable Surface
(Subbase not included as storage within calculations)
-  Existing Canal and Rivers Trust Overflow Pipework
-  Indicative existing levels taken from Topographic-map.com

Drainage Strategy



Surface Water

- Surface water is to be captured from the roofed areas by guttering which will then discharge to small diameter conveyance pipes.
- There are proposed to be 4 lined ponds located throughout the site designed to capture and attenuate surface water flows from the roofed areas as well as any other hard standing associated with the developed site.
- Although the access roads are proposed to be of permeable construction the ponds have been designed to cater for overland flows from these areas in the event of ground saturation and the rate of infiltration reducing.
- In the event of exceedance due to obstruction within the system all flows will natural fall towards the ponds and back into the system further down stream.
- Due to the way in which the ponds banks have been designed with shallow gradients instead of steep 1 in 3 banks the ponds have a much greater volume available for storing surface water than what is required while maintaining an appealing aesthetic in keeping with the surrounding landscape.
- Flows are proposed to be restricted via a flow control device fitted in manhole S24 which will limit surface water to the calculated Qbar rate of 14.8/l/s.
- The restricted flow will discharge via an existing Canals & Rivers Trust outfall pipe into the River Weaver or a new pipe and headwall. Formal approvals to be gained to confirm discharge option.

Minimum Storage Required:600m³
Total Storage Available:655m³
Discharge Rate: 14.8/l/s

Foul Water

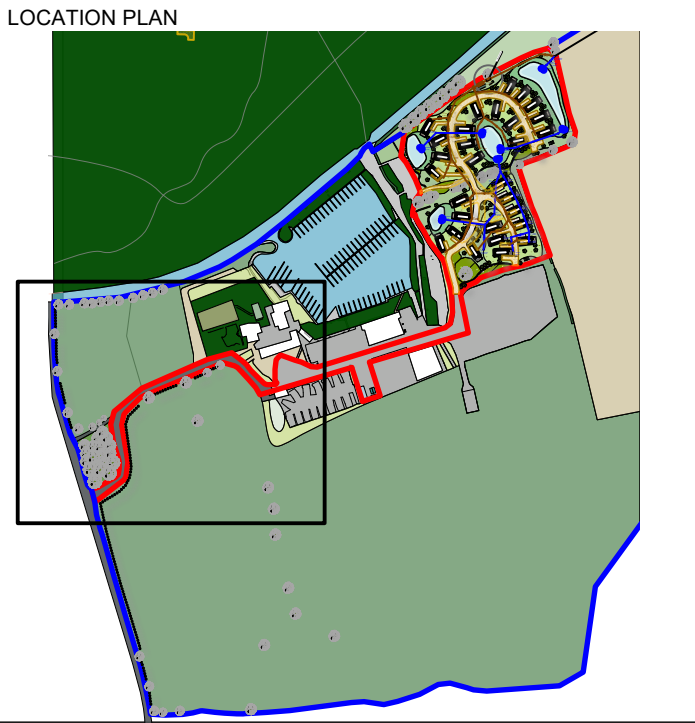
- Foul Water is proposed to be conveyed from each lodge to a vented storage tank along the northern boundary which is design to store the maximum flows from all lodges and hot tubs for a duration of 48 hours.
- Within the storage tank the foul water will be treated to reduce the chlorine levels prior to being discharged to the foul water treatment plant.
- The treatment plant has been selected from the British Water list of certified treatment plants and is designed inline with EN 12566 - Part 3 "Part 3: Packaged and/or site assembled domestic wastewater treatment plants.
- The treated water will discharge via an existing Canals & Rivers Trust outfall pipe into the River Weaver or a new pipe and headwall. Formal approvals to be gained to confirm discharge option.

P02	13.03.25	Outfall options added	AW	LS
P01	12.03.25	Outfall pipework updated	AW	LS
Revision	Date	Description	Drawn	Approved
  THIS DRAWING IS COPYRIGHT PROTECTED AND MAY NOT BE REPRODUCED IN WHOLE OR PART WITHOUT WRITTEN AUTHORITY FROM THE OWNER.				
Client	Robert Parton		<div>land studio</div>	
Project	Aqueduct Marina Holiday Park			
Drg Title	Drainage Layout Sheet 2			
Created on	Created by	Approved by		
11.03.25	AW	LS		
Scale	Size	Workstage		
1:500	A1	Stage 3		
Drg No.	Suitability		Revision	
401-LS-XX-XX-DR-D-0102	S3		P02	

land|studio



NOTES:
1. Do not scale from this drawing.
2. Always work to noted dimensions.
3. All dimensions are in millimetres unless otherwise stated.
4. All setting out, levels and dimensions to be agreed on site.
5. The dimensions of all materials must be checked on site before being laid out.
6. This drawing must be read with the relevant specification clauses and detail drawings.
7. Order of construction and setting out to be agreed on site.



KEY	
	Red Line Boundary
	Ownership Boundary
	G1-Lawn
	M1-Meadow
	M2-Marshy Grassland
	M3-Woodland Planting Mix
	S1-Mixed Scrub
	Proposed Tree
	Existing Tree
	Proposed Hedge
	Existing Hedge
	Retained Scrub

P01 12/03/25 First Issue TI SR

Revision	Date	Description	Drawn/Approvd.
1	12/03/25	THIS DRAWING IS COPYRIGHT PROTECTED AND MAY NOT BE REPRODUCED IN WHOLE OR PART WITHOUT WRITTEN AUTHORITY FROM THE OWNER.	

Client	Oriel Planning	land studio
Project	Aqueduct Marina Holiday Park	
Drg Title	Additional Trees Sheet 1	
Created on	Created by	Approved by
	TI	CF
Scale	Size	Workstage
1:500	A1	S2
Drg No.	Suitability	Revision
401-LST-XX-XX-DR-L-0304		P01

Additional Tree Planting

Species	Specification	%Mix	Area m²	Density per m²	No.
Prunus avium (Pr a)	300-350cm height, 10-12cm girth, RB	-	-	-	4
Betula pendula (Bp)	300-350cm height, 10-12cm girth, RB	-	-	-	79
Alnus glutinosa (Ag)	300-350cm height, 10-12cm girth, RB	-	-	-	14
Malus sylvestris (Ms)	Rootstock M26, RB	-	-	-	12
Sorbus aucuparia (Sa)	300-350cm height, 10-12cm girth, RB	-	-	-	8
Cornus avellana (Ca)	300-350cm height, 10-12cm girth, RB	-	-	-	27
Quercus robur (Qr)	300-350cm height, 10-12cm girth, RB	-	-	-	7
Total:					151



NOTES:

1. Do not scale from this drawing.
2. Always work to noted dimensions.
3. All dimensions are in millimetres unless otherwise stated.
4. All setting out, levels and dimensions to be agreed on site.
5. The dimensions of all materials must be checked on site before being laid out.
6. This drawing must be read with the relevant specification clauses and detail drawings.
7. Order of construction and setting out to be agreed on site.

LOCATION PLAN

KEY

	Red Line Boundary
	Ownership Boundary
	G1-Lawn
	M1-Meadow
	M2-Marshy Grassland
	M3-Woodland Planting Mix
	S1-Mixed Scrub
	Proposed Tree
	Existing Tree
	Proposed Hedge
	Existing Hedge
	Retained Scrub

P01	12/03/25	First Issue	TI	SR
-----	----------	-------------	----	----

Revision	Date	Description	Drawn	Apprvd.
<div><p>THIS DRAWING IS COPYRIGHT PROTECTED AND MAY NOT BE REPRODUCED IN WHOLE OR PART WITHOUT WRITTEN AUTHORITY FROM THE OWNER.</p></div>				

Client	Oriell Planning		
Project	Aqueduct Marina Holiday Park		
Drg Title	Additional Trees-Sheet 2		
Created on	Created by	Approved by	
	TI	CF	
Scale	Size	Workstage	
1:500	A1	S2	

Drg No.	Suitability	Revision
401-LST-XX-XX-DR-L-0305		P01

© Land Studio Limited

Note: Refer to drawing 401-LST-XX-XX-DR-L-0304 for Tree Schedule

Visibility to the north - 140m



Visibility to the south - 160m



KEY:

 Visibility Splay

JOB NUMBER		DRAWN BY	
MCB-23-025		MR	
DRAWING SCALES		APPROVED BY	
NTS		AMR	
AMENDMENTS			
DRAWING STATUS		LAST EDIT DATE	
FOR APPROVAL		28.02.25	
SCHEME			
Aqueduct Marina Worleston			
DRAWING TITLE			
Visibility Splay			
DRAWING NUMBER			
		MCB/23/025/0101	



Aqueduct Marina – Hedgerow (page 1 of 2)

Taken from carpark into the main north of the field – fully fenced and hedgerow with a small access point for walkers that will be maintained.



Photos taken on 7/2/25.

Note that due to the season, the hedgerow does look bare but one in full greenery are quick thick in depth.

Close up taken to the left of the oak tree ¾ of the way down the field. There is some damage to existing fencing that Aqueduct Marina will repair.



Taken from the north west of the field looking east – fully fenced and hedgerow down the field.



Taken looking into the north west corner of the field – fully fenced and hedgerow.



Aqueduct Marina – Hedgerow (page 2 of 2)

Taken pointing to the north east side. Fully fenced and hedgerow running along north side into next field and all the way to the River Weaver.



Photos taken on 7/2/25.

Note that due to the season, the hedgerow does look bare but one in full greenery are quick thick in depth.

Taken pointing on the hedgerow that goes south. There is a gap in the fence and hedgerow for walkers that will be maintained.



Taken pointing towards the vehicle access point on the corner. This will be gated and be maintained to access the adjoining field.



