

Site Details

26,317m² / 2.632ha : Development area

7,210m² / 0.721ha : Proposed impermeable area

5.0 l/s : Proposed Q100+40% climate change storm discharge rate to sewer (49% Betterment)

Storage Areas:

Area 1 (Club House & Units 1-6 - Attenuation Pond 1) : 225m³

Area 2 (Permeable Paving with 500mm deep Voided Stone) : 225m³

Development impermeable areas to be drained into the ordinary watercourse via attenuation ponds and voided stone with minimum SUDs treatment to Ciriá753, via gravity and pumped sewers.

Storm Event	Proposed Max. Discharge Rate
1 in 1 year	5.0 l/s
1 in 30 year	5.0 l/s
1 in 100+40%CC	5.0 l/s

Minimum pipe cover to soffits to be as per The Building Regulations 2010 Part H for thermoplastic pipes:

- 0.6m in pedestrian or landscaped areas
- 0.9m in vehicle accessible areas

Any pipes with cover to soffit less than those stated above are to have a Class Z concrete pipe bed & surround

Internal foul drain pipe minimum gradients:

- 1:80 from SVP & WC to IC
- 1:40 from Basin & Sink to IC

Refer to Architect's/M&E drawings for pipe sizes and setting-out information.

All drainage to be constructed in accordance with Sewer Sector Design Guidance and Building Regulations Part H.

A CCTV and level survey of the as-built drainage is to be undertaken by the Contractor and provided to the Engineer for final approval

- 1

Mesh Screens

Mesh screen to be placed over the outlet pipe of chamber during site construction works and removed immediately prior to the first occupancy of the buildings served by the sewers
- 2

Proposed Outfall

Proposed storm outfall to ditch subject to LLFA approval
- 3

Existing Attenuation Basin

Online basin to store surface water runoff onsite prior to discharge
- 4

Discharge Rate

Storm discharge from site restricted to 5.0l/s for a 1in100 year +40% climate change storm event using a flow control chamber, subject to approval with LLFA
- 5

Discharge Conditions

Drainage discharge rate, water quality criteria and surface water ditch headwall construction subject to Approval
- 6

Existing Watercourse Connection

Connection subject to Ordinary watercourse consent and discharge is subject to LLFA Approval
- 7

Hydro-Brake Flow Control Chamber

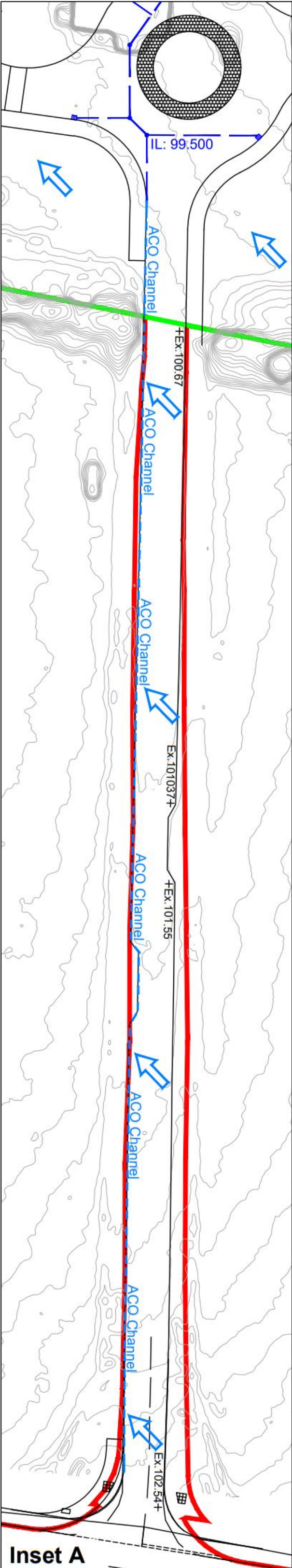
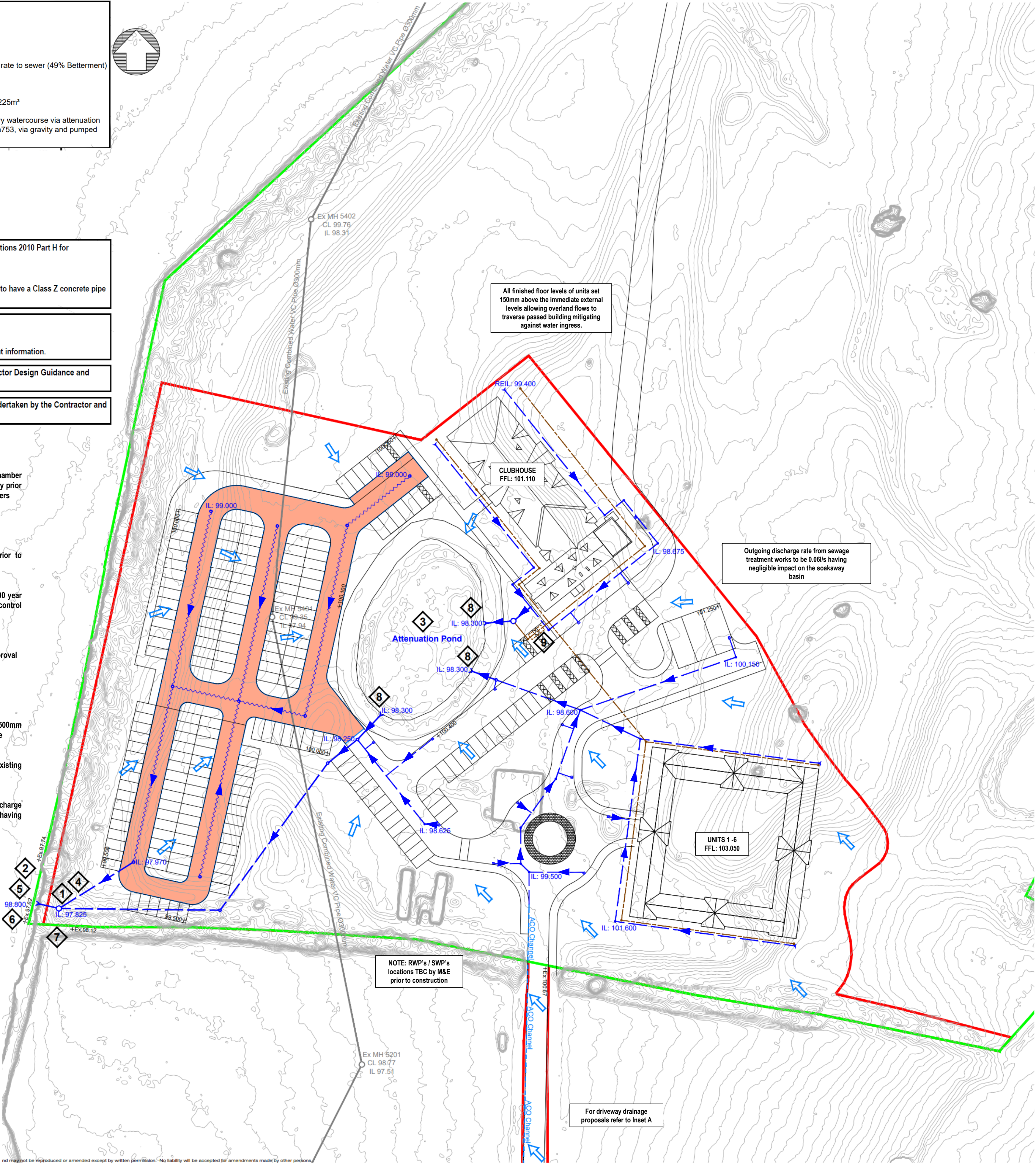
Proposed manhole Ø1200 fitted with a Hydro-Brake and 500mm sump (silt trap) to restrict private surface water discharge
- 8

Concrete Headwalls

New precast concrete headwall constructed within existing attenuation pond
- 9

Proposed Foul Treatment Tank

Kingspan Klargester BioDisc model NF. Outgoing discharge rate from sewage treatment works to be 0.06l/s having negligible impact on the soakaway basin.



SAFETY, HEALTH AND ENVIRONMENTAL HAZARD INFORMATION BOX

The hazards noted below are in addition to normal hazards and risks faced by a competent contractor when dealing with the types of works detailed on this drawing

CONSTRUCTION RISKS

- Leptospirosis
- Deep Trenches
- Striking unknown services

MAINTENANCE / CLEANING RISKS

- Leptospirosis

Notes:

- DO NOT SCALE FROM THIS DRAWING
- All dimensions are in millimetres Unless Noted Otherwise (u.n.o)
- Drawing is to be read in conjunction with all relevant architect's drawings. Any inconsistencies should be reported immediately.
- All levels and dimensions are to be checked on site before any work commences.
- The Health and Safety at Work act is to be complied with at all times. Attention is drawn to the wearing of hard hats, reflectorised clothing, and the use of any other required safety equipment.
- All uncovered and shallow pipework to be protected against construction traffic as part of the Contractors temporary works requirements.
- All connections to road gullies and channels shall be 150mm nominal bore pipework.
- All pipework to be U-PVC type in accordance with WIS 4-35-01 unless otherwise noted.
- All pipes connecting to adopted manholes up to and including 300mm dia. to be Wavin Ultrarib or similar approved.
- All pipes connecting to adopted manholes greater than 300mm dia. to be Concrete or approved U-PVC.

LEGEND

Site Boundary

Application Boundary

1200mm dia. IC

450mm dia. IC Max Depth 3.0m

Surface Water 150mm dia. Pipe

Foul Water 100mm dia. Pipe

Existing 300mm dia. Pipe

Rodding eye (storm only)

Perforated Pipe

Voided stone to provide treatment for the private access

Exceedance flow direction

Yard Gully

Rev	Description of Update	Drawn /Checked	Date
P1	Issued for discharge of conditions	MS/II	08.06.23

Client:

Statue Homes Ltd

Project:

Market Bosworth Golf Leisure and Country Retreat, Market Bosworth

Drainage Strategy

Drawing no.

1067071-M-400 rev. P1

Scale:

1:500 @ A1