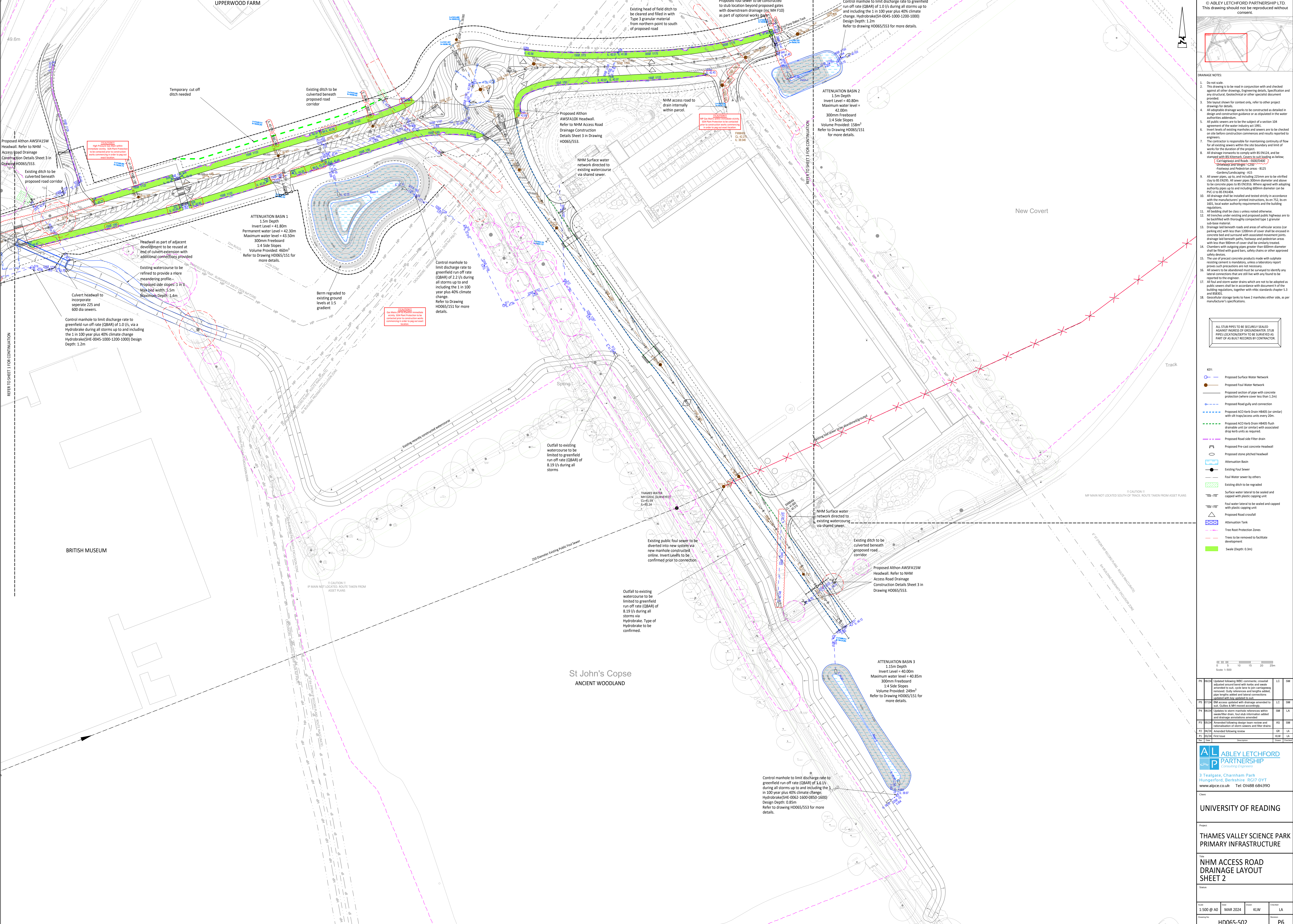




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- DRAINAGE NOTES:**
1. Do not scale.
 2. This drawing is to be read in conjunction with and checked against all other drawings. Engineering details, Specification and any structural, Geotechnical or other specialist document provided.
 3. Site layout shown for context only, refer to other project drawings for details.
 4. All adoptable drainage works to be constructed as detailed in design and construction guidance or as stipulated in the water authorities addendum.
 5. All public sewers are to be the subject of a section 104 agreement of the water industry act 1991.
 6. Invert levels of existing manholes and sewers are to be checked on site before construction commences and results reported to engineers.
 7. The contractor is responsible for maintaining continuity of flow for existing sewers within the site boundary and limit of works for the duration of the project.
 8. All drainage networks to comply with BS EN124, and be stamped with BS1382. Covers to suit loading as below:
 - Carriageway and Roads - E600(D40)
 - Driveways and Verges - C250
 - Footways and Pedestrian areas - B125
 - Gardens/Landscaping - A15
 9. All sewer pipes, up to and including 225mm are to be vitrified clay to BS EN295. All sewer pipes 300mm diameter and above to be concrete pipes to BS EN335. Where agreed with adopting authority pipes up to and including 600mm diameter can be PVC-U to BS EN1404.
 10. All drainage shall be installed and tested strictly in accordance with the manufacturers' printed instructions, to BS EN752, to BS EN603, local water authority requirements and the building regulations.
 11. All bedding shall be class 5 unless noted otherwise.
 12. All trenches under existing and proposed public highways are to be bedded with thoroughly compacted type 1 granular sub-base material.
 13. Drainage laid beneath roads and areas of vehicular access (or parking etc) with less than 1200mm of cover shall be encased in concrete bed and surround with associated movement joints. drainage laid beneath paths, footways and pedestrian areas with less than 900mm of cover shall be similarly treated.
 14. Chambers with outgoing pipes greater than 600mm diameter shall be fitted with guard bars, safety chains or other approved safety devices.
 15. The use of precast concrete products made with sulphate resisting cement is mandatory, unless a laboratory report proves such precautions are not necessary.
 16. All sewers to be abandoned must be surveyed to identify any lateral connections that are still in use or found to be reported to the engineer.
 17. All foul and storm water drains which are not to be adopted as public sewers shall be in accordance with document h of the building regulations, together with minor standards chapters 5.3 and BS8301.
 18. Geocellular storage tanks to have 2 manholes either side, as per manufacturer's specifications.

ALL STUB PIPES TO BE SECURELY SEALED AGAINST INGRESS OF GROUNDWATER. STUB PIPES LOCATION/DEPTH TO BE SURVEYED AS PART OF A BUILD RECORD BY CONTRACTOR.

- KEY:**
- Proposed Surface Water Network
 - Proposed Foul Water Network
 - Proposed section of pipe with concrete protection (where cover less than 1.2m)
 - Proposed Road gully and connection
 - Proposed ACO Kerb Drain HB405 (or similar) with silt traps/access units every 20m.
 - Proposed ACO Kerb Drain HB405 flush drainable unit (or similar) with associated drop lock units as required.
 - Proposed Road side Filter drain
 - Proposed Pre-cast concrete Headwall
 - Proposed stone pitched headwall
 - Attenuation Basin
 - Existing Foul Sewer
 - Foul Water sewer by others
 - Existing ditch to be regraded
 - Surface water lateral to be sealed and capped with plastic capping unit
 - Foul water lateral to be sealed and capped with plastic capping unit
 - Proposed Road crossfall
 - Attenuation Tank
 - Tree Root Protection Zones
 - Trees to be removed to facilitate development
 - Swale (Depth: 0.3m)

Scale 1:500
0 5 10 15 20 25m

PS	05/24	Updated following WBC comments, crossfall adjusted around bend with kerbs and swale amended to suit, spots new to join carriageway removed. Carry overflows and lengths added, pipe lengths added and lateral connections detailed.	LC	SM
PS	07/24	BM access updated with drainage amended to suit. Gullies & MHT revised accordingly.	LC	SM
PS	08/24	Updated to storm mainline reference within swale/filter drain, but stub information added and drainage annotations amended.	SM	LA
PS	09/24	Amended following design team review and calculation of storm sewers and filter drains.	AS	SM
PS	10/24	Amended following review.	CH	LA
PS	11/24	First issue.	KLW	LA

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Client
UNIVERSITY OF READING

Project
**THAMES VALLEY SCIENCE PARK
PRIMARY INFRASTRUCTURE**

File
**NHM ACCESS ROAD
DRAINAGE LAYOUT
SHEET 2**

Scale	Date	Drawn	Checked
1:500 @ A0	MAR 2024	KLW	LA
Drawn by	Checked by	Drawn by	Checked by
HD065-502			P6