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Health & Safety Note

The details on this drawing have been prepared on the assumption that a competent contractor will be carrying out the works. If the contractor(s) considers that there is insufficient Health and Safety information on this drawing, this should immediately be brought to the attention of the designer.

HAZARD IDENTIFICATION BOX

This table is provided to assist the Principal Contractor to fulfil their obligations under the CDM Regulations 2015

Hazard Ref	Hazard Type	Hazard Description	Mitigation Measures/ Residual Risk
⚠	Construction	Shallow groundwater (site wide)	Contractor to follow appropriate construction methodology for shallow groundwater. Appropriate construction types for buried structures should also be used.
⚠	Construction/ Maintenance/ Cleaning	Detention basins	The detention basin has been sited to be visible to the public, with banks no steeper than 1 in 3. The basin should be unfenced and any planting should be limited to needs that will not obstruct visibility into the basin.
⚠	Construction/ Maintenance	Overhead electricity cable.	All construction plant to keep away from cables. Ground level barriers to be installed as per HSE Guidance Note GS6, and all relevant HSE and SSN guidance to be followed at all times.

Rev	Date	Description	Em/Drawn/Agd
P01	12/10/2022	First Issue	ASMAH/MAH

S2 - Suitable for Information

Client Logo:

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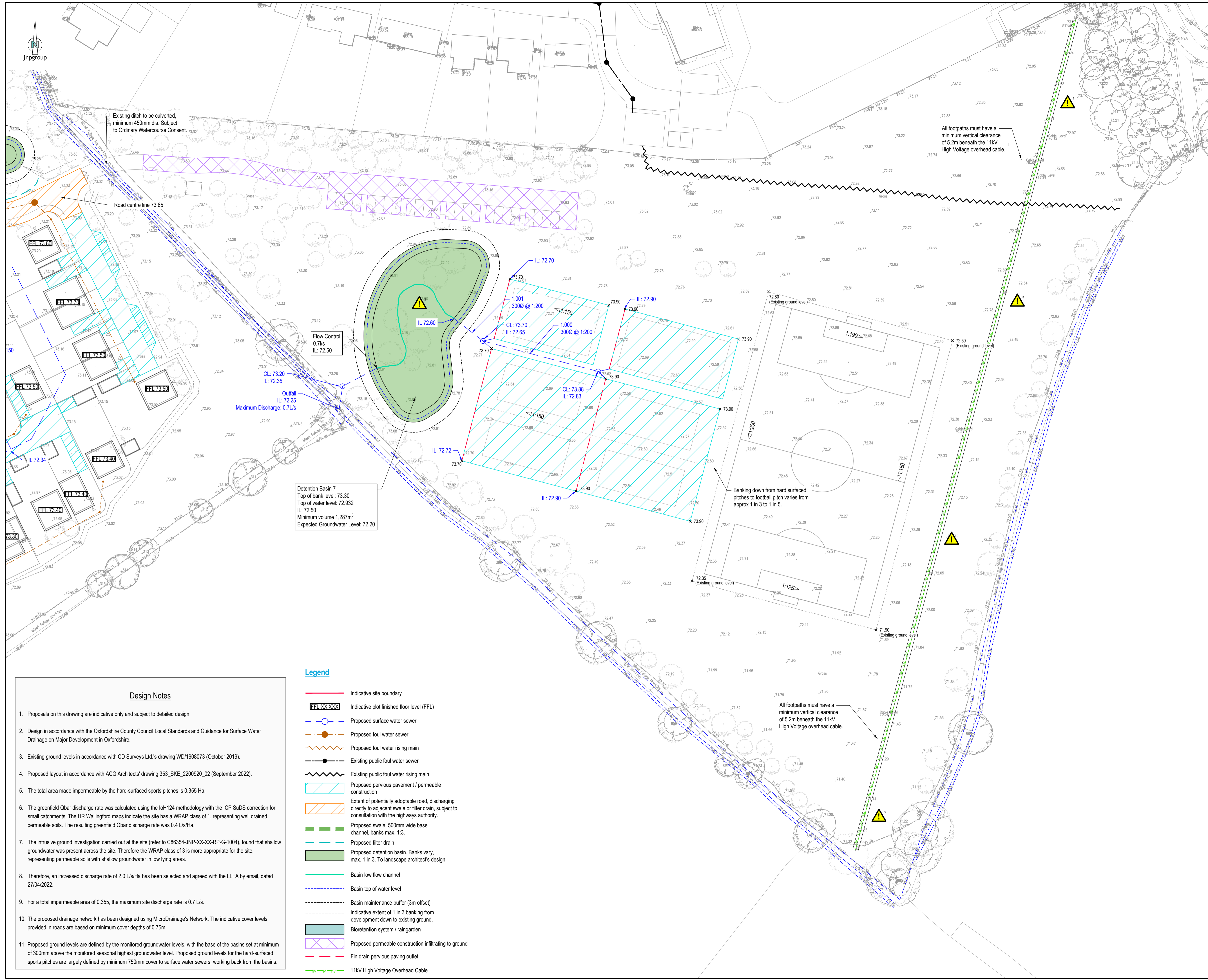
Client: Wates Developments

Job: Land South of Green Lane, Chesterton

Title: Drainage Strategy Sheet 2 of 2

Classification: FI_60_20
Scale @ A1: 1:500

Project: C86354 - JNP - 92 - XX - DR - C - 2004
Revision: P01



Design Notes

- Proposals on this drawing are indicative only and subject to detailed design
- Design in accordance with the Oxfordshire County Council Local Standards and Guidance for Surface Water Drainage on Major Development in Oxfordshire.
- Existing ground levels in accordance with CD Surveys Ltd.'s drawing WD/1908073 (October 2019).
- Proposed layout in accordance with ACG Architects' drawing 353_SKE_2200920_02 (September 2022).
- The total area made impermeable by the hard-surfaced sports pitches is 0.355 Ha.
- The greenfield Qbar discharge rate was calculated using the Ioh124 methodology with the ICP SuDS correction for small catchments. The HR Wallingford maps indicate the site has a WRAP class of 1, representing well drained permeable soils. The resulting greenfield Qbar discharge rate was 0.4 L/s/ha.
- The intrusive ground investigation carried out at the site (refer to C86354-JNP-XX-RP-G-1004), found that shallow groundwater was present across the site. Therefore the WRAP class of 3 is more appropriate for the site, representing permeable soils with shallow groundwater in low lying areas.
- Therefore, an increased discharge rate of 2.0 L/s/ha has been selected and agreed with the LLFA by email, dated 27/04/2022.
- For a total impermeable area of 0.355, the maximum site discharge rate is 0.7 L/s.
- The proposed drainage network has been designed using MicroDrainage's Network. The indicative cover levels provided in roads are based on minimum cover depths of 0.75m.
- Proposed ground levels are defined by the monitored groundwater levels, with the base of the basins set at minimum of 300mm above the monitored seasonal highest groundwater level. Proposed ground levels for the hard-surfaced sports pitches are largely defined by minimum 750mm cover to surface water sewers, working back from the basins.

Legend

- Indicative site boundary
- FFL XX.XXX Indicative plot finished floor level (FFL)
- Proposed surface water sewer
- Proposed foul water sewer
- Proposed foul water rising main
- Existing public foul water sewer
- Existing public foul water rising main
- Proposed pervious pavement / permeable construction
- Extent of potentially adoptable road, discharging directly to adjacent swale or filter drain, subject to consultation with the highways authority.
- Proposed swale. 500mm wide base channel, banks max. 1:3.
- Proposed filter drain
- Proposed detention basin. Banks vary, max. 1 in 3. To landscape architect's design
- Basin low flow channel
- Basin top of water level
- Basin maintenance buffer (3m offset)
- Indicative extent of 1 in 3 banking from development down to existing ground.
- Bioretention system / raingarden
- Proposed permeable construction infiltrating to ground
- Fin drain pervious paving outlet
- 11kV High Voltage Overhead Cable