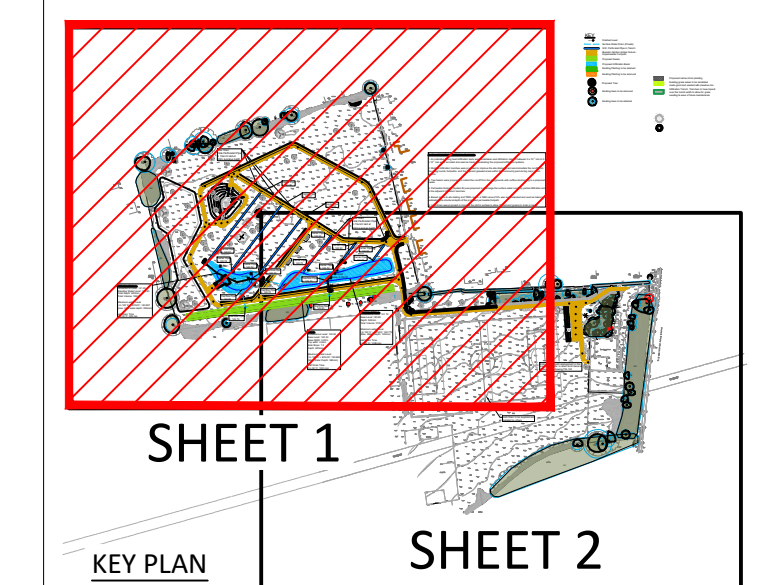


- NOTES**
- DO NOT SCALE THIS DRAWING. WORK TO FIGURED DIMENSIONS ONLY. ALL DIMENSIONS ARE IN Metres (m) UNLESS NOTED OTHERWISE.
 - This drawing is to be read in conjunction with all relevant Architect's, Engineer's and Specialist's drawings and their respective Specifications.
 - All work to comply with the relevant British Standards, Codes of Practice and the Building Regulations.
 - Any discrepancies between all working drawings, specifications and schedules of all disciplines to be immediately notified to CTP for clarification/correction prior to construction of relevant structure.



SHEET 1

SHEET 2

KEY PLAN

KEY

- XX.XX+ Finished Level
- Surface Water Drain (Private)
- S.W. Perforated Pipe in Trench
- Breedon Golden Amber Gravel - Impermeable Footpath
- Proposed Swale
- Proposed Infiltration Basin
- Existing Planting to be retained
- Existing Planting to be removed
- Proposed Tree
- Existing trees to be removed
- Existing trees to be retained

PRELIMINARY

P13	Maximum Water Levels Amended	16.06.25	SV	SM
P12	Swale Information Amended	13.06.25	SV	SM
P11	Levels and section marks added	06.06.25	AM	SM
P10	Mount Height Updated	08.04.25	AM	LB
P09	QA Updated	24.05.24	SV	AK
P08	Drawing Revised to Allen Scott Comments	08.05.24	SV	AK
P07	Drawing Revised to Allen Scott Comments	20.02.24	NSV	AK
P06	Drawing Revised to Allen Scott Comments	16.02.24	NSV	AK
P05	Title Revised	05.01.24	NSV	SM
P04	Drainage Revised	29.11.23	SF	AR
P03	Drawing Revised to Allen Scott Comments	16.11.23	SF	AR
P02	Preliminary Issue	10.11.23	SF	AR
P01	Preliminary Issue	10.07.23	SF	AR

Revision Amendments Date Rev'd Chkd'd

Created by: SF Date prepared: July 2023 Drawn by: CIVIL

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Project Title:
HEMSLEYS MEADOWS AND FINCHES FIELD

Drawing Title:
**DRAINAGE LAYOUT
SHEET 1 OF 2**

Drawing Number:
A9307-1500

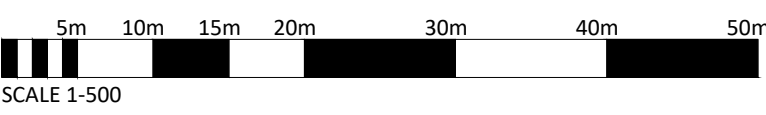
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Unless Noted Otherwise

Revision:
P13

CDM 2015 RESIDUAL RISKS

- Tree root protection zones to be confirmed.
- Working on or by existing utilities.

The above residual risks are for non-standard hazards. It is assumed that a competent contractor familiar with the construction of this type of work will be appointed who will be aware of the standard hazards.



Surface Water Drainage Strategy Summary

- An indicative falling head infiltration tests were undertaken and infiltration rates of between 3×10^{-7} m/s to 5×10^{-7} m/s were recorded and used as basis in evaluating the proposed infiltration systems.
- Multiple infiltration trenches were proposed to improve the site drainage and accommodate the runoff from the playgrounds, footpaths, and the adjacent grassed areas within the community park during major storm events.
- Two basins were proposed to collect the runoff from the playgrounds with outflow discharging to a proposed swale.
- Permeable footpath (System B) was proposed to discharge the surface water runoff by partial infiltration and to the adjacent infiltration trenches.
- Based on the in-situ testing and TRRL report, a CBR value of 6% was recommended and used as basis in estimating the structural depth of the proposed permeable footpath.
- Verti-Drain was proposed to improve the pitch's surface to allow the soil and greens to drain properly.

Infiltration Basin 1
Exceedance Level: 141.25
Standing Water Level: 140.65
Total Depth: 600mm
Total Volume: 185m³

Maximum water Level
1 in 100 Yr + 40%CC: 140.857
(max. total water depth: 208mm)

Half Drain Time
1 in 30 Yr: 226 min

Infiltration Basin 2
Exceedance Level: 141.19
Base Level: 140.65
Depth: 540mm
Total Volume: 372m³

Maximum water Level
1 in 100 Yr + 40%CC: 140.779
(Max. Water Depth: 129mm)

Half Drain Time
1 in 30 Yr: 1339 min

Swale
Exceedance Level: 140.90
Base Level: 140.30
Base Width: 2.00m
Top width: 4.60m
Side Slope: 1:2
Depth: 600mm

Maximum water Level
1 in 100 Yr + 40%CC: 140.660
(Max. Water Depth: 360mm)

Half Drain Time
1 in 30 Yr: 1033 min

Note: For Footpath area please refer Arrangement drawing

Verti Drain to be supplied and installed by others