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Notes

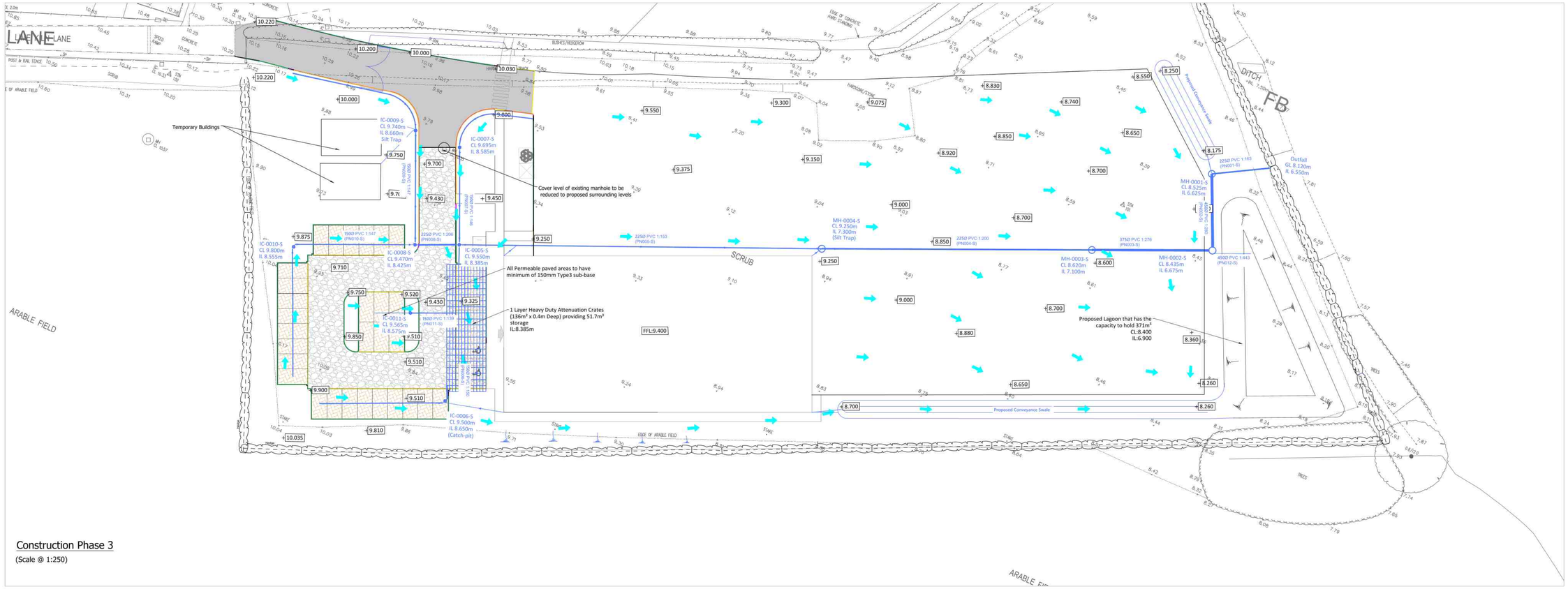
1 All dimensions are in millimetres unless stated otherwise.

2. This drawing to be read in conjunction with all other relevant drawings and specifications.

3. All proprietary items to be installed in strict compliance with manufacturers instructions and recommendations.

STANDARD DRAINAGE NOTES:
1. Except where specifically shown otherwise all below ground pipes / connections shall be 100mm dia PVC (to BS 4660) or VC (to BS 5481) with flexible joints and laid to minimum falls of 1 in 40, except where connected to WC when falls may be 1 in 80.
2. All gravity pipe runs to be tested to a standing head of 1500mm head of water above the invert at the head of the pipe run (but not exceeding 4000mm at the lower end)
3. For details of bed and surround requirements refer to long-sections and standard details. In all other situations provide 150mm of 10mm single-sized rounded gravel bedding and surround.
4. Except where specifically shown otherwise, pipes to be a minimum of 900mm below roads/driveways and 600mm below gardens/fields.
5. Ventilating pipes to be provided at the head of each drain and to any branch longer than 6m where a single appliance is connected, or 12m where a group of appliances is connected.
6. Step-irons shall not be fitted in any chambers unless specified otherwise.
7. Manhole/Gully covers shall be regulated to suit finished levels and crossfalls
8. All proprietary items to be installed in strict compliance with manufacturers instructions and recommendations
9. Drains passing beneath buildings to have minimum 100mm granular fill or flexible filling around pipe. Where the pipe crown is within 300mm of the underside of the slab, pipe shall be encased in concrete integral with the slab.
10.Drains passing through walls below ground level to have minimum 50mm clearance all round and opening in walls to be masked all round with rigid sheet material to prevent ingress of fill or vermin. Openings in walls for pipes shall have concrete lintels to support wall construction above
11. Unless stated otherwise, pipes to be 100mm Diameter.

STANDARD ROADS / FOOTPATH NOTES:
1. Existing structures to be broken out to minimum 450mm below top of finished surface level. Existing footpath to be broken out and rubble and existing subbase to be removed off-site.
2. Subgrade to be proof rolled with one pass of a smooth-wheeled roller having a mass per M-width of roll of not less than 2,100-kg or a Vibrating Roller having a mass per M-width of roll of not less than 700-kg or a Vibrating Plate Compactor having a mass per m2 of not less than 1400-kg. Any soft spots shall be removed and replaced with Type 1 compacted in layers not exceeding 150mm thickness.
3. All formations are to be treated with an approved herbicide before placing sib-base material on a geotextile separation membrane (Terram 1000 or similar approved)
4. All sub-base material is to be non-frost-susceptible. All concrete to be sulphate resisting



Construction Phase 3

(Scale @ 1:250)

Construction Phase Management and Maintenance

The maintenance activities listed below are considered to be the basic tasks necessary to keep the site drainage systems working at optimum efficiency, which is necessary to ensure that they have capacity to deal with extreme/ unusual events. Other activities, such as litter removal/ repairs etc. will be required.

Area	Maintenance Activity	Frequency	Responsibility
'On Plot'Hard-Surfacing & Drainage	Spillages - Provision of Spill Kits to contain contaminants	As required	Site supervisor
Development Site Access Road	Periodic sweeping to remove debris, leaves,etc	Every 2-4 weeks during autumn	Site supervisor
Flood routes –	Make visual inspection. Check route is not blocked by new fences, walls, soil or other rubbish. Remove as necessary.	Monthly	Site supervisor
Overflows –	If overflow is not clear then dismantle the structure and reassemble to design detail	As required	Site Supervisor
Filter Drains	Clear perforated pipework of blockages	As required	Site Supervisor
	Inspect filter drain surface, inlet/outlet pipework and control systems for blockages, clogging, standing water and structural damage	Monthly	Site Supervisor
Temporary Lagoon	Remove debris from the catchment surface (where it may cause risks to performance)	Monthly	Site Supervisor
	Repair/rehabilitate inlets, outlet,	As Required	Site Supervisor
Silt Traps	De-silt and remove litter and debris.	Every 2-4 Weeks in Autumn, and monthly throughout rest of year.	Site Supervisor

Incident Action Plan

In the event an incident/spillage occurs, overflow from settlement lagoon to be covered and lagoon drained via tankering to necessary site.

Hazard Chemicals should be stored in a lockable container. In the event a spillage occurs, spill kits will be provided on-site and all incidents should be cleaned/fixed, before construction resumes. Broken Chemical containers should be removed from site by an approved company once the incident has been cleaned. If further hazardous material is found, staff should inform their supervisors immediately and the above procedure should be followed.

Spill Kit Usage:

1. Put on PPE.
2. Access the Spill Kit.
3. Lay Down a Safety Barrier
4. Lay Down a Safety Barrier.
5. Stop the Leak.
6. Absorb the Spillage.
7. Clean- up the spill site.
8. Dispose of contaminated Chemical Waste.
9. Report the Incident.

Land Use		Non-residential Car Park	Commercial/Industrial Roofs
Pollution Hazard Level		Medium	Low
Total Suspended Solids (TSS)		0.7	0.3
Metals		0.6	0.2
Hydro-Carbons		0.7	0.05
Mitigation Indices	**Type of SuDS Component**	**Bioretention System**	**Silt Trap**
	TSS	0.8	0.3
	Metals	0.8	0.3
	Hydro-Carbons	0.8	0.2
Residual Indices	**TSS**	0	0
	Metals	0	0
	Hydro-Carbons	0	0

CONSTRUCTION DESIGN AND MANAGEMENT REGULATIONS 2015

THE CONTRACTORS ATTENTION IS DRAWN TO THE ABNORMAL RISKS IDENTIFIED BELOW, ANNOTATED ON THE DRAWING AND EXPLAINED IN THE ASSOCIATED DESIGN RISK REGISTERS

LEGEND

- YOU MUST NOT DO
- HAZARD OR DANGER
- YOU MUST DO
- CAUTION

ABNORMAL RISKS IDENTIFIED:

Rev	Amendments	Rev'd by	Date
P06	Incident Action Plan added	TBP	25-06-2025
P05	Amendments to Drainage	K.P	12/2024
P04	Amendments to Drainage	K.P	11/2024
P03	Amendments to Drainage	K.P	02.10.2024
P01	Preliminary Issue	K.P	03.10.2023

Client
Darke Engineering

Project
Darke Engineering
Lime Kiln Lane

Title
Construction Phase (2 of 2)

Job No 22098
Drawing No 201
Status Preliminary
Rev P6
Scale As stated
Date 11/2024
Project Engineer
Drawn By K.P
Checked By
Approved By

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