

Notes

1. Do not scale this drawing.
2. All dimensions are in millimetres unless stated otherwise.
3. This drawing to be read in conjunction with all other relevant drawings and specifications.
4. All proprietary items to be installed in strict compliance with manufacturers instructions and recommendations.

STANDARD DRAUGHTING 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 indicated by WC when falls may be 1 in 80.
2. All drainage pipe runs to be tested prior to backfilling.
3. Pipe joints and surrounding requirements refer to the specifications and standards details. In all other situations provide 150mm of 10mm single-sided rounded gravel bedding and surround.
4. Except where specifically shown otherwise pipes shall be laid on 100mm base roads/drainways and 600mm below garden/fences.
5. Ventilating pipes to be provided at the head of each drain and to any branch longer than 6m where a group of appliances is connected.
6. Step-iron shall not be fitted in any chambers unless specified otherwise.
7. Manholes shall be provided 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 100mm granular fill or flexible fitting around pipe. Under the pipe crown is to be 300mm of the underdrain material which shall be encased in concrete integral with the slab.
10. Drains passing through walls below ground level to have minimum 50mm clearance at end and opening in walls for pipes shall have rigid sheet material to prevent ingress of fill or vermin. Openings in walls for pipes shall have concrete linings to support wall construction above.
11. Unless specified 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 removed and rubble and existing foundations to be removed down to sub-base.
2. Subgrade to be proof rolled with one pass of a smooth-wheel roller having a mass per m-width of roll of less than 2,100kg or a Vibrating Roller having a mass per m-width of roll of less than 700kg or a Vibrating Plate Compactor having a mass per m² of not less than 1400kg. Any soft spots shall be removed and replaced with Type 1 compacted in accordance with BS 1387.
3. All formations are to be treated with an approved herbicide before placing sub-base material on a geotextile separation membrane (Teram 1000 or similar).
4. All concrete to be sulphate resisting.

CONSTRUCTION DESIGN AND MANAGEMENT REGULATIONS 2015

THE CONTRACTORS ATTENTION IS DRAWN TO THE APPENDIXES AND INFORMATION AS NOTED ON THE DRAWING AND EXPLAINED IN THE ASSOCIATED DESIGN RISK REGISTER

| LEGEND |
|----------------------------|
| |
| YOU MUST NOT DO |
| |
| HAZARD OR DANGER |
| |
| YOU MUST DO |
| |
| CAUTION |
| ABNORMAL RISKS IDENTIFIED: |

P03 Updated Site Layout Plan EP 15.03.23
P02 Amended Storm Water System EP 23.01.23

Client Regent Parks

Project Selby Park
Title Storm Water Drainage Plan

Job No 22121
Drawing No 22121-012
Status Preliminary Rev P03
Scale 1:500@A0 Date 09-01-2023
Project Engineer TBP Drawn By EP
Approved By TBP



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Project Details

The site is located on North Selby Mine, new Road Delighton, York. The postcode of the site is YO19 6EZ and the approximate center of the site at National Grid Reference SE 64804 44263.
The site size is 9.6 ha and all the site areas are located in Flood Zone 1. The site is currently developed area.
The proposed development includes the redevelopment of the former North Selby Mine site to a holiday leisure development comprising of a range of touring caravans and static caravans with associated facilities. Most of the site areas are paved with Concrete.

- Impermeable Area (Caravan + Access Road) : 89372 square metres
- Permeable Parking : 2100 square metres
- Total Impenetrable area : 3000 square metres

Drainage Hierarchy and SDS Strategy

As stated in CIRIA Suds Manual 2014 the objective of sustainable drainage systems is to maximise the benefits and minimize the negative impacts of surface water runoff from developed areas. By applying Suds methodology, storm runoff from the Site is controlled to ensure that flow rates in downstream watercourses are not increased and the water is appropriately treated to remove any contaminants, thus ensuring the quality of the water in the natural environment downstream.

Management & Maintenance

The private drainage systems shall be managed by the Plot Owners for this development. 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 also be required.

| Area | Maintenance Activity | Frequency | Responsibility |
|---|--|--|--|
| Hard-Surfacing & Drainage | Inspection of manholes/Chambers Roof Gutters to be cleared debris Building Roof Drainage Building Foul Drainage | Recommended every 5 years Recommended every 2 years Recommended every 10 years Annually | Site Owner Site Owner Site Owner Site Owner Site Owner Anglian Water Anglian Water Site Owner |
| Foul Drainage | Inspection and cleaning of flow control Repair to Sewers CCTV/jetting of Sewers | Recommended every 10 years As Required Recommended every 10 years | Site Owner Anglian Water Site Owner |
| Hard-Surfacing & Drainage | Concrete paved areas to be swept and dewatered Cleaning of Gullies | As required during Spring and Summer months Recommended every 2 years | Site Owner Site Owner |
| Development Site Authority Access Road | Cleaning of Gullies Periodic sweeping to remove debris, leaves,etc | Every 2-4 weeks during autumn | Site Owner Highway |

Storm Water

Key aspects proposed:
• In the existing storm drainage system, some of the information are missing according to the CCTV Records information and so all those depths of manholes and pipe sizes are assumed.
(i) The sites of PN-28-S and PN-29-S are assumed 225mm diameter verified clay pipes.
(ii) The depths of MH-61-S, MH-62-S, MH-63-S, MH-81-S, MH-83-S and MH-86-S are assumed.
• The new connection pipes are proposed to connect with the proposed soakaway system.
• It is proposed to drain into the gravel strip from each caravan.

Key

