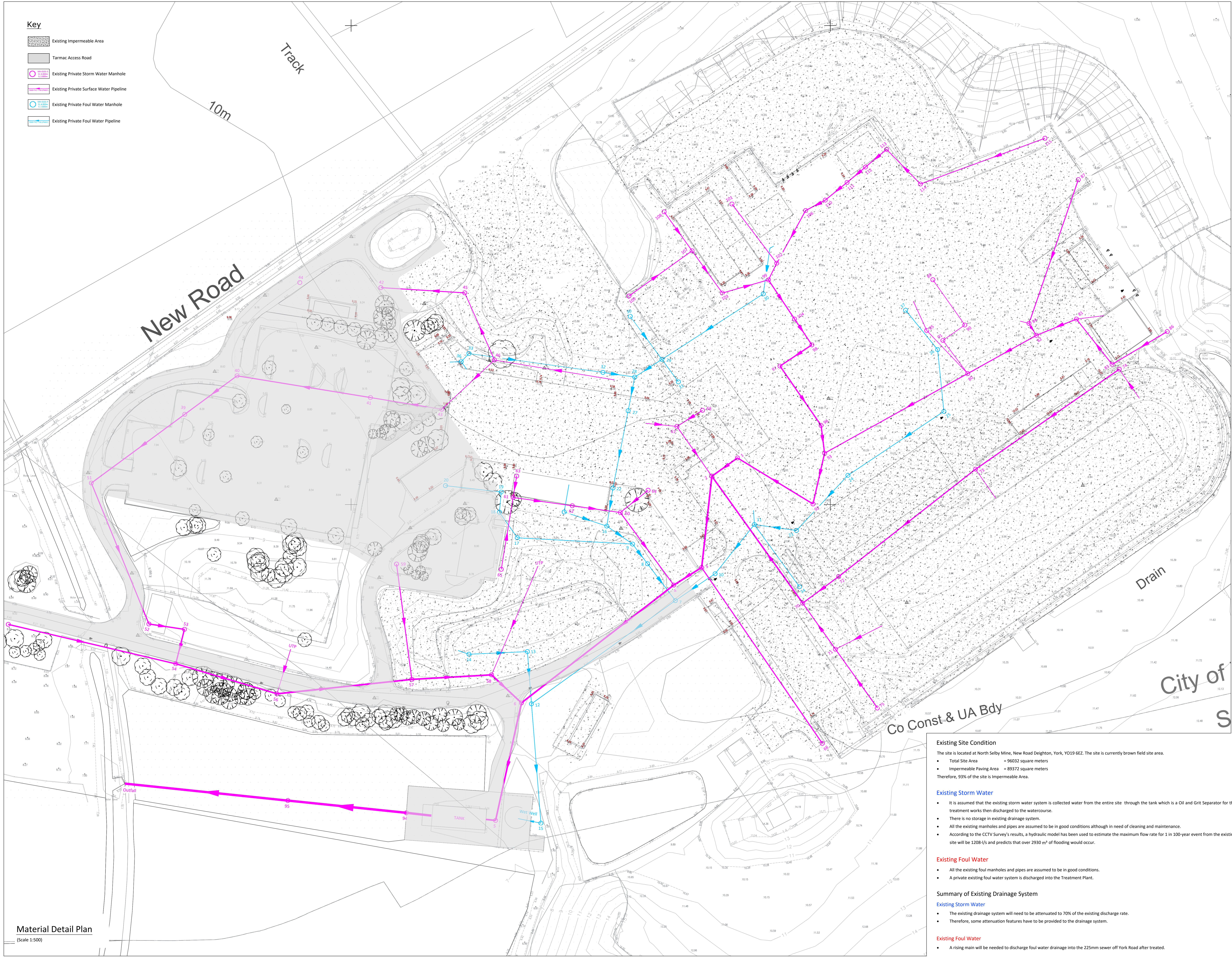


- Key**
- Existing Impermeable Area
  - Tarmac Access Road
  - Existing Private Storm Water Manhole
  - Existing Private Surface Water Pipeline
  - Existing Private Foul Water Manhole
  - Existing Private Foul Water Pipeline



**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.
  5. The Existing Storm Water Drainage System is used for the Proposed Caravan Park then discharge into the existing drain.
  6. 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) All the pipe sizes of PN-25-S to PN-30-S are assumed 225mm diameter verified clay pipes.
    - (ii) The depths of the following manholes are assumed: (MH-4-S, MH-39-S, MH-40-S, MH-41-S, MH-42-S, MH-43-S, MH-44-S, MH-45-S, MH-46-S, MH-60-S, MH-61-S, MH-62-S, and MH-63-S, MH-64-S, MH-65-S, MH-66-S, MH-67-S, MH-68-S, MH-81-S, MH-83-S, MH-85)
- 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 m<sup>2</sup> 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 sub-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 DESIGN AND MANAGEMENT REGULATIONS 2015**

THE CONTRACTOR'S ATTENTION IS DRAWN TO THE ABNORMAL RISKS IDENTIFIED BELOW. APPROPRIATE ACTION ON THE DRAWINGS AND EXPLAINED IN THE ASSOCIATED DESIGN RISK REGISTER.

**LEGEND**

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

ABNORMAL RISKS IDENTIFIED:

PO2 Amendments Drainage Plan EP 15-03-23

Client  
**Regent Parks**

Project  
**Selby Park**

Title  
**Material Detail Plan & Existing Drainage Plan**

Job No: **22121**

Drawing No: **22121-011**

Status: **Preliminary** Rev: **P02**

Scale: **1:500@A0** Date: **09-01-2023**

Project Engineer: **TBP** Drawn By: **EP**  
Checked By: **TBP** Approved By:



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**Existing Site Condition**

- The site is located at North Selby Mine, New Road Deighton, York, YO19 6EZ. The site is currently brown field site area.
  - Total Site Area = 96032 square meters
  - Impermeable Paving Area = 89372 square meters
- Therefore, 93% of the site is impermeable Area.

**Existing Storm Water**

- It is assumed that the existing storm water system is collected water from the entire site through the tank which is a Oil and Grit Separator for the treatment works then discharged to the watercourse.
- There is no storage in existing drainage system.
- All the existing manholes and pipes are assumed to be in good conditions although in need of cleaning and maintenance.
- According to the CCTV Survey's results, a hydraulic model has been used to estimate the maximum flow rate for 1 in 100-year event from the existing site will be 1208-l/s and predicts that over 2930 m<sup>3</sup> of flooding would occur.

**Existing Foul Water**

- All the existing foul manholes and pipes are assumed to be in good conditions.
- A private existing foul water system is discharged into the Treatment Plant.

**Summary of Existing Drainage System**

**Existing Storm Water**

- The existing drainage system will need to be attenuated to 70% of the existing discharge rate.
- Therefore, some attenuation features have to be provided to the drainage system.

**Existing Foul Water**

- A rising main will be needed to discharge foul water drainage into the 225mm sewer off York Road after treated.

**Material Detail Plan**  
(Scale 1:500)