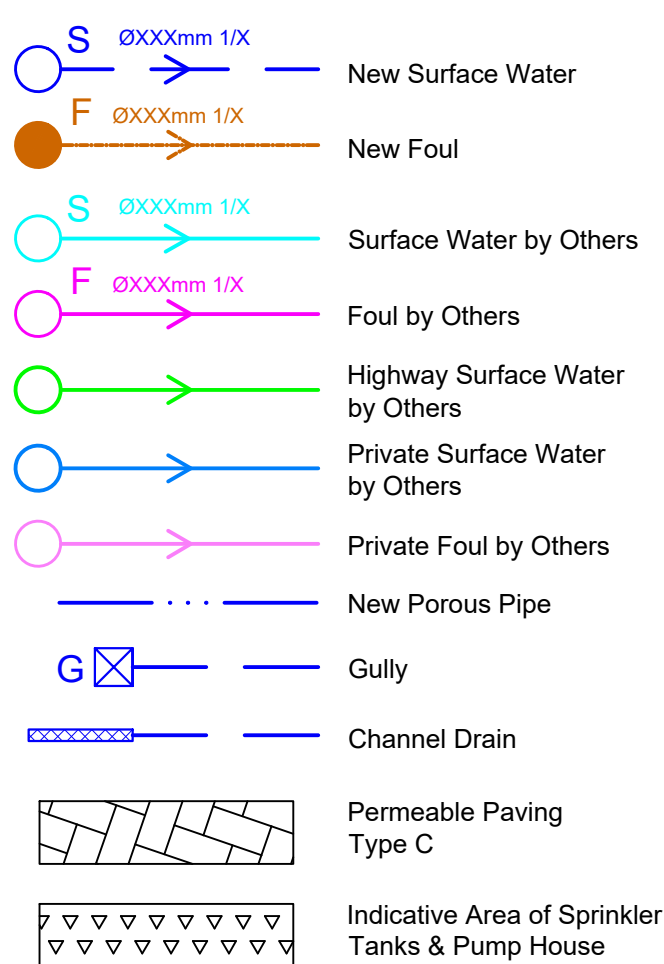


Unit 1
FFL: 95.

Drainage Legend:



SAFETY HEALTH & ENVIRONMENTAL HAZARD
INFORMATION BOX.

The hazards noted below are in addition to the normal hazards and risks faced by a competent contractor when dealing with the types of works detailed on this drawing.

CONSTRUCTION RISKS:

Deep Excavations

DEMOLITION RISKS:

MAINTENANCE / CLEANING RISKS:

Access to Deep Manholes

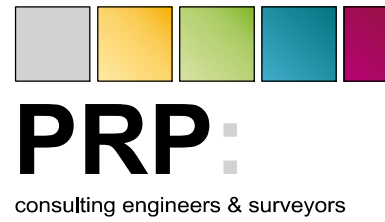
Notes:

- DO NOT SCALE FROM THIS DRAWING.
- All dimensions are in millimetres Unless Noted Otherwise (u.t.o.)
- Drawing is to be read in conjunction with all relevant architect's drawings. Any inconsistencies should be reported to PRP immediately.
- All levels and dimensions are to be checked on site before any work commences.
- For more information see PRP drawings: 62954 - 100series - Drainage and External Works 62954 - 200series - Foundations 62954 - 300series - Superstructure
- The Health and Safety at Work act is to be complied with at all times. Attention is drawn to the wearing of hard hats, safety boots, reflective clothing, and the use of any other required safety equipment.

Drainage:

- The position, line, level and diameter of all existing drainage apparatus should be confirmed on site prior to the commencement of the works. Any discrepancies should be reported to PRP immediately.
- The connection of foul and surface water drainage to the existing public sewer system shall be subject to the approval of the water authority
- For positions of all rainwater pipes & foul outlets refer to Architect's drawings
- All drainage works shall be carried out in accordance with WRc "Sewers for Adoption - 7th edition"
- All joints between precast manhole components shall have a minimum uncompressed thickness of 10mm of proprietary bitumen or resin mastic sealant. Chambers & manholes with outgoing pipes of greater than Ø600mm shall be fitted with removable stainless steel (grade 316) safety chains or polypropylene rope. Storm & foul branch connections are to be laid at gradients of between 1:10 & 1:80
- All in-situ concrete shall be minimum grade C25
- Precast concrete cover & reducing slates to be heavy duty reinforced concrete to BS 5911
- Rising mains shall be black MDPE SDR11 as WI 4-32-03 & joints & fittings to be in accordance with WI 4-32-04. Other approved pipe materials to be in accordance with their relevant BS
- Manhole covers & frames shall be manufactured in cast iron or ductile iron & shall comply with requirements of BS EN 124 & shall be kile marked or equivalent.
- Where there is no intermediate manhole between the start of a surface water pipe run and the soakaway the gradient of the run shall be not less than 1:80
- All completed work shall be suitably protected from damage by construction work. Damaged drainage will not be accepted. It is recommended that no heavy loading or underground work is permitted above or near unprotected drainage, and that dumpers, trucks, fork lifts or other heavy vehicles are not driven along or near pipe runs
- Inspection chambers, soakaways and flow control units are to be installed strictly in accordance with manufacturer guidance and instructions
- Syphonic Drainage to be designed by specialist third party designers, to be appointed by the client/client representative. Roof drainpipe connections are as shown and cannot be adjusted. For drainpipe catchment areas contact PRP UK Limited.

C02	07/12/2021	Issued for Construction	GF / HP
C01	01/12/2021	Issued for Construction	GF / HP
P11	03/11/2021	Layout updated to suit comments from Contractor and Syphonic specialist	GF / HP
P10	24/09/2021	Layout and level amended	GF / HP
P09	10/09/2021	Levels amended	GF / HP
P08	05/08/2021	Layout Updated	GF / HP
P07	26/07/2021	FFL updated, overflow drainage updated.	GAJ / HP
P06	13/07/2021	Layout Updated	GF / HP
P05	29/06/2021	BIM numbering	KMW/ HP
Rev	Date	Description	By / Chk



Catherine House
Old Harborough Rd
Bicester OX6 8BX

Telephone: 01864 889 870
northampton@prp.uk.com
www.prp.uk.com

Leicester
Northampton
London

engineering excellence | creating advantage

Client: **TUNGSTEN**
PROPERTIES LTD

Architect:
HTC Architects

Project:
Interchange 26
Bradford
BD12 7EZ

Title:
Drainage Layout
Sheet 2 of 2

Status: **CONSTRUCTION**

Engineer: HP Date: May 2020
Drawn: KMW Scales @ A0:
Checked: BMS 1:250

PRP Ref No: 62954 Software: 2D AutoCAD 2010

Dwg No: P21025-PRP-EX-00-DR-C-0102 Rev: C02

Unit 1
FFL: 95.810

NOTE: All drainage cover levels to be amended following confirmation of building and external finished levels

CONCRETE SURROUND TO BE PROVIDED TO MAIN SEWER PIPE DUE TO LOCATION OF RETAINING WALL IN THIS AREA

160 CAR PARKING SPACES

