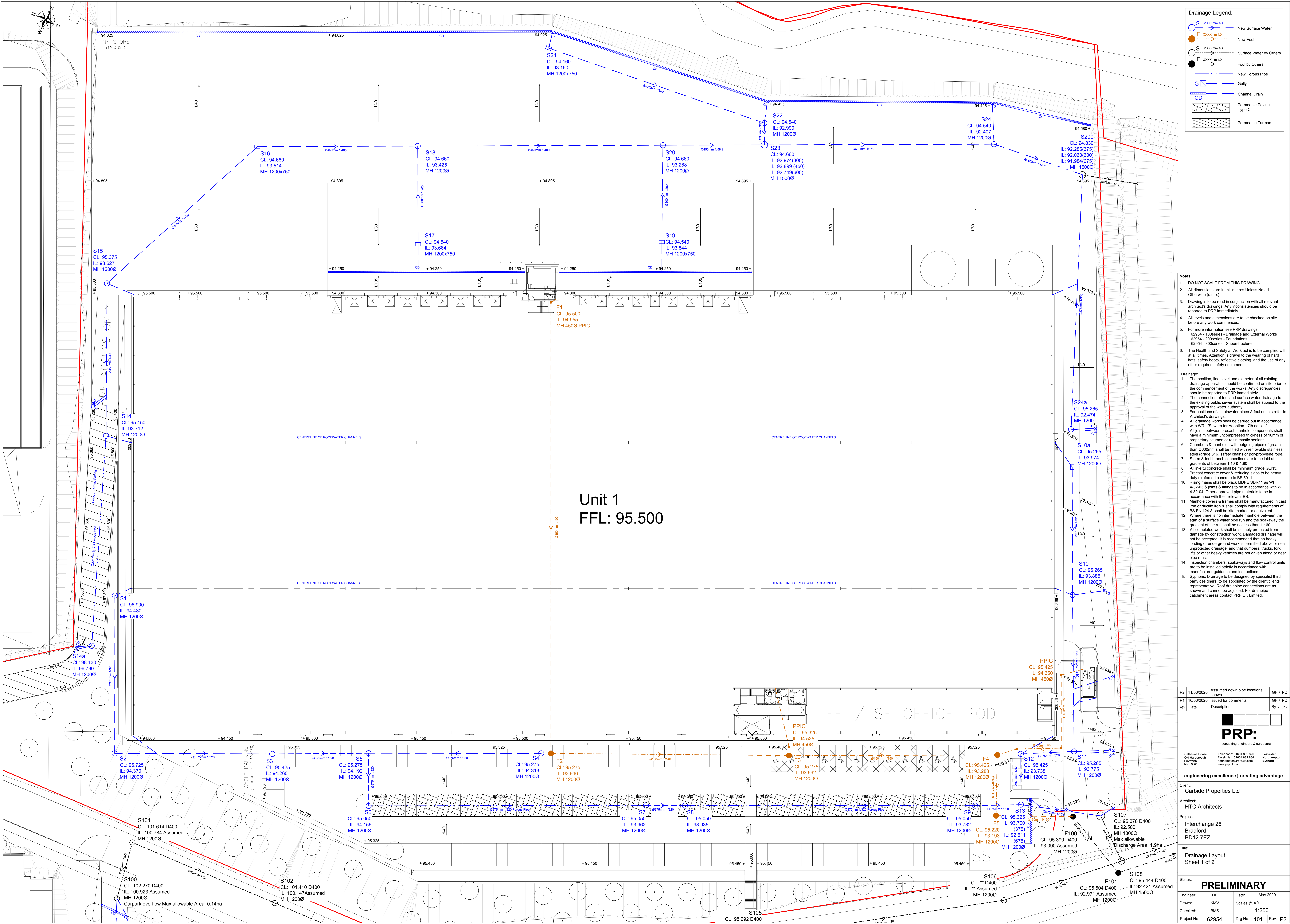




Drainage Legend:

- S Ø1000mm 1/X New Surface Water
- F Ø1000mm 1/X New Foul
- S Ø1000mm 1/X Surface Water by Others
- F Ø1000mm 1/X Foul by Others
- New Porous Pipe
- Gully
- Channel Drain
- Permeable Paving Type C
- Permeable Tarmac

- Notes:**
- DO NOT SCALE FROM THIS DRAWING.
 - All dimensions are in millimetres Unless Noted Otherwise (u.n.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 sealed.
 - 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 GEN3.
 - Precast concrete cover & reducing slabs to be heavy duty reinforced concrete to BS 5911.
 - Rising mains shall be black MDPE SDR11 with 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 kitemarked 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
 - Synphonic Drainage to be designed by specialist third party designers, to be appointed by the client/clients representative. Roof drainage connections are as shown and cannot be adjusted. For drainage catchment areas contact PRP UK Limited.

P2	11/06/2020	Assumed down pipe locations shown.	GF / PD
P1	10/06/2020	Issued for comments	GF / PD
Rev	Date	Description	By / Cnk

PRP:
consulting engineers & surveyors

Catherine House
Old Hartnough
Barnes
NN6 9EX

Telephone: 01604 899 870
Facsimile: 01604 882 834
www.prp.uk.com

Leicester
Northampton
Blythorn

engineering excellence | creating advantage

Client: Carbide Properties Ltd

Architect: HTC Architects

Project: Interchange 26
Bradford
BD12 7EZ

Title: Drainage Layout
Sheet 1 of 2

Status: **PRELIMINARY**

Engineer: HP	Date: May 2020
Drawn: KMV	Scales @ A0:
Checked: BMS	1:250
Project No: 62954	Drig No: 101 Rev: P2