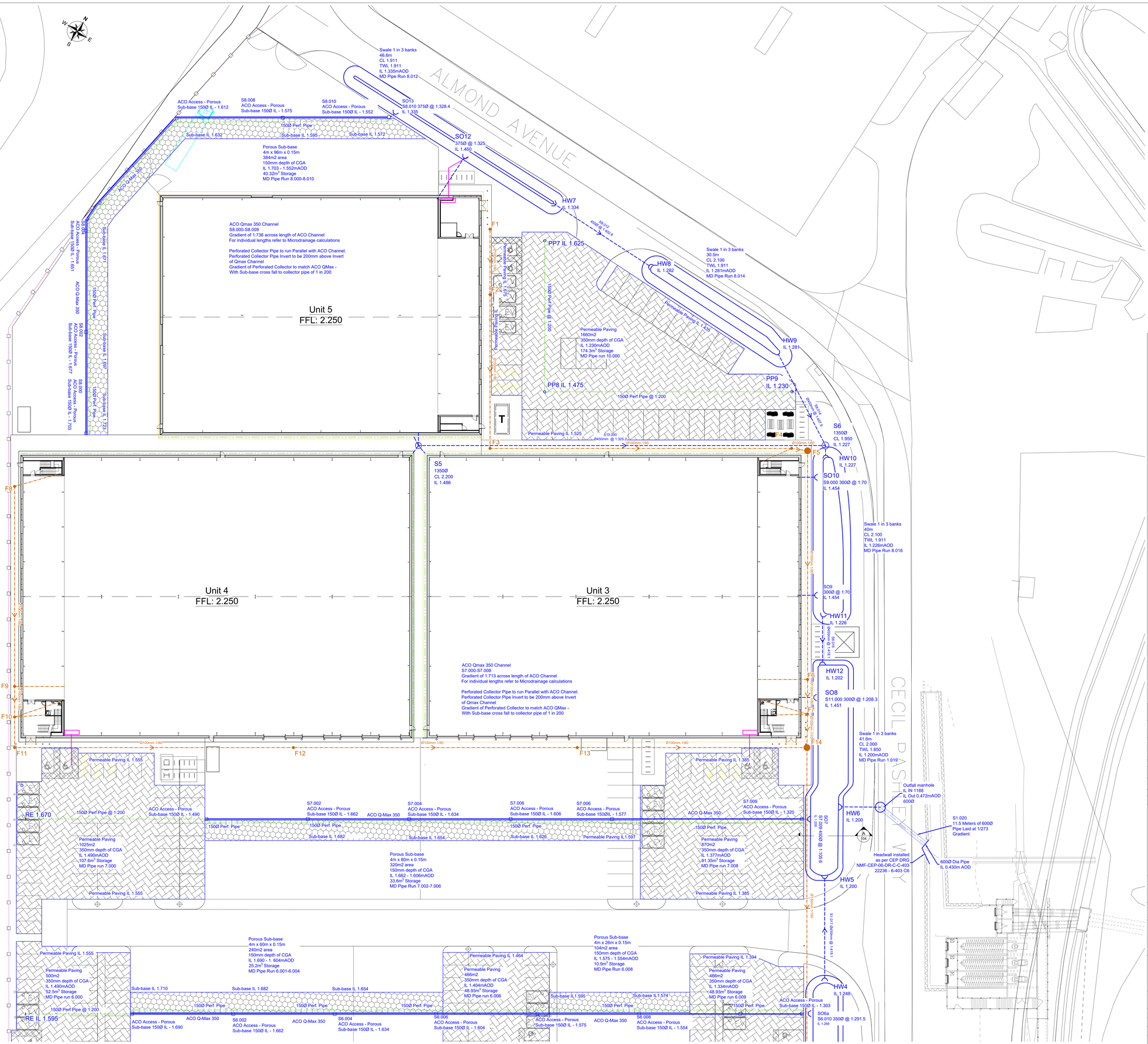

Ø XXXmm 1/X — New Surface Water
F Ø XXXmm 1/X — New Foul
Porous Sewer
Permeable Block Paving and Porous Sub-base
Porous sub-base
Headwall
New Rising Sewer
Gully
ACO / Channel Drain

HW - Headwalls for the swales to be Althon H6C or Other Similarly approved

SO - Siphonic Outlet Headwalls for the swales to be
Althon Swale Inlet Headwalls or Other similarly approved - Size subject to Siphonic Discharge Pipe Diameter

PP - Permeable Paving Precast Plastic inspection chamber 450Ø with 300mm Catchpit - to connect to Qmax Channel at Invert level where adjacent to channel drainage

ACO Qmax 350 - Drainage Design & Calculations carried out reflected limited gradients and inverts to outfalls. Therefore ACO Qmax 350 were modeled and applied

Swales to be max 1:3 Graded Banks

Notes:

1. DO NOT SCALE FROM THIS DRAWING.
2. All dimensions are in millimetres Unless Noted Otherwise (u.n.o.)
3. Drawing is to be read in conjunction with all relevant architect's drawings. Any inconsistencies should be reported to PRP immediately.
4. All levels and dimensions are to be checked on site before any work commences.
5. For more information see PRP drawings:
   62886 - 100series - Drainage and External Works
   62886 - 200series - Foundations
   62886 - 300series - Superstructure
6. 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:

1. 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.
2. The connection of foul and surface water drainage to the existing public sewer system shall be subject to the approval of the water authority
3. For positions of all rainwater pipes & foul outlets refer to Architect's drawings.
4. Drainage designed in accordance with the Sewerage Sector Guidance, Design and Construction Guidance ("the Code") Approved Version 2.0, 10 March 2020.
5. All joints between precast manhole components shall have a minimum uncompressed thickness of 10mm of proprietary bitumen or resin mastic sealant.
6. Chambers & manholes with outgoing pipes of greater than Ø600mm shall be fitted with removable stainless steel (grade 316) safety chains or polypropylene rope.
7. Storm & foul branch connections are to be laid at gradients of between 1:10 & 1:80
8. All in-situ concrete shall be minimum grade GEN3.
9. Precast concrete cover & reducing slabs to be heavy duty reinforced concrete to BS 5911.
10. 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.
11. Manhole covers & frames shall be manufactured in cast iron or ductile iron & shall comply with requirements of BS EN 124 & shall be kite marked or equivalent.
12. 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 : 60.
13. 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.
14. Inspection chambers, soakaways and flow control units are to be installed strictly in accordance with manufacturer guidance and instructions

Rev	Date	Description	By / Chk
P7	01/06/2022	Annotation updated to address latest LLFA Comments rec. 31.05.2022	MAS/BMS
P6	13/05/2022	Drainage layout and annotation amended to reflect FFL change. Additional Annotation provided	MAS/ JM
P5	08/04/2022	Drainage Swales inverts lifted. Qmax adjacent Porous Sub-base storage added. channels repositioned	MAS/ JM
P4	08/03/2022	Outfall Pipe amended to 600Ø	MAS/ JM
P3	17/09/2021	Swales Amended to suit latest Architect Site Layout	MAS/ JM
P2	06/09/2021	Foul water & swales moved. Sections added	JD / JM
P1	20/08/2021	Issued for comments	MAS/ JM

PRP
consulting engineers & surveyors
Catherine House, Old Harborough Road, Brixworth, NN6 9BX
Telephone: 01604 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: Brighton City Airport

Title: Drainage Layout Sheet 1

Status: **PRELIMINARY**

Engineer:	MAS	Date:	August 2021
Drawn:	MAS	Scales @ A0:	1:250
Checked:	BMS		
Project No:	62886	Drg No: 101	Rev: P7

● copyright all rights reserved PRP UK Ltd 2010