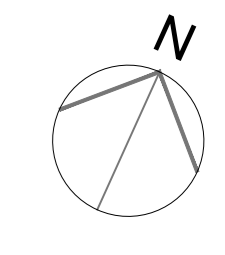


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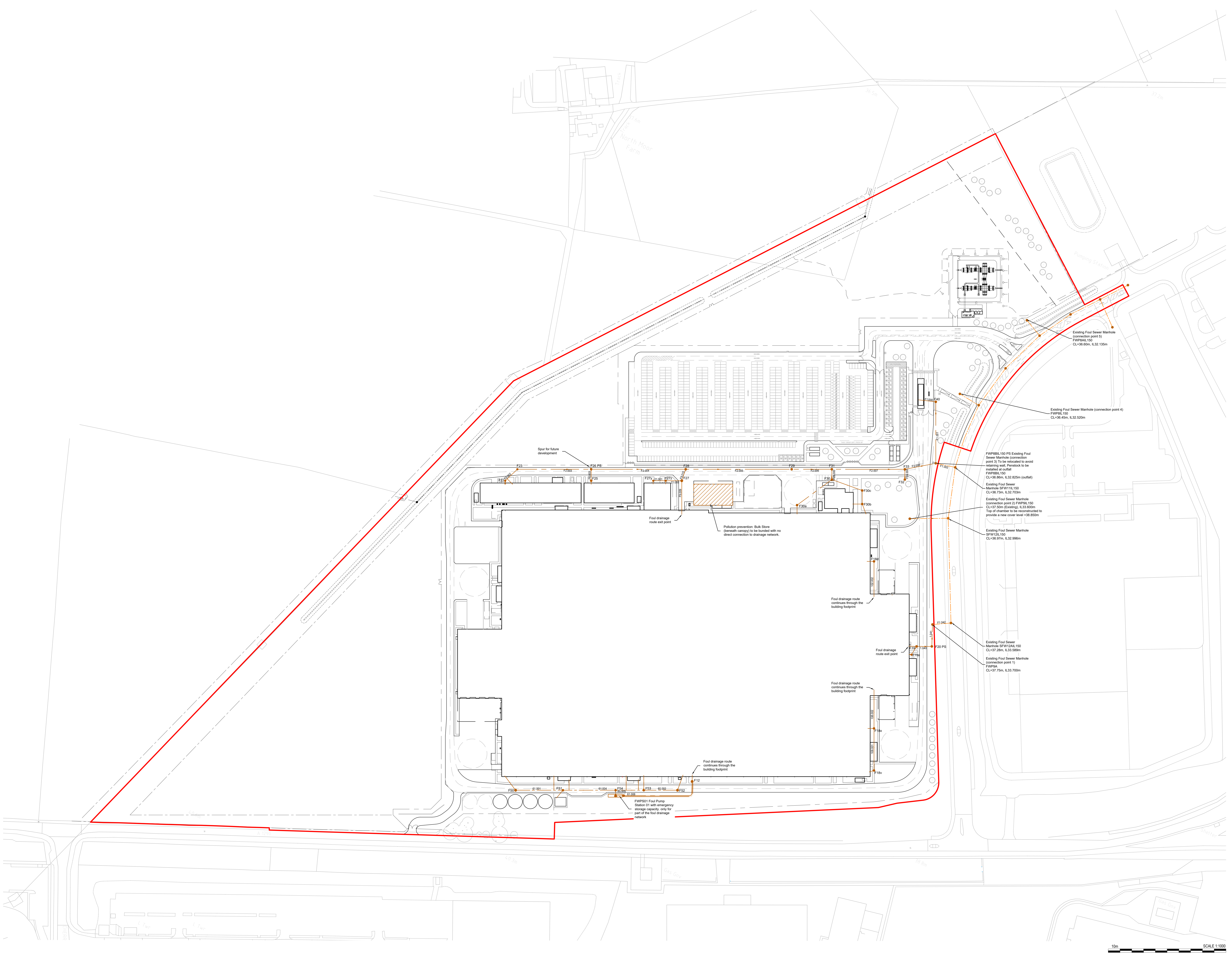


Key:

— Planning Boundary

- Foul Drainage Requirements**
- Internal manholes to be double sealed with internal plates.
 - Pump Stations:
 - Duty and standby pump arrangements in pump stations.
 - Variable pump rates where required (i.e. duty and standby).
 - Pumps to be linked to BMS/GasHouse for remote shut down in emergencies.
 - Back up power supply to be provided for pumpstations/provision for standby generators to be brought to site in event of power outage.
 - Domestic Foul Water Design Details:
 - Project maximum discharge rates: Allowable DWF = 0.14l/s/ha
Developed site area 10ha. Allowable DWF = 2.24l/s max Allowable peak = 14.72l/s
 - No. of Staff per day
Office staff (1 shift/day) = 102
Factory staff (2 shift/day) = 231 shift
 - Daily Flow per person = 100 l/person/day
 - Peak Flow based on shift change = 564 staff changeover in 30 minutes.
 - Fire Fighting Water
 - The volume of firefighting water required to be attenuated is subject to agreement with local fire authority.
No allowance is made for a dedicated spent fire water tank.

- Drainage Key:**
- 5.000 FW Sewer (Pipe reference)
 - F1 FW Manhole
 - Existing drainage to be removed
 - Pump station
 - Pressure main
 - Existing FW sewer
 - OB Outlet Box
 - G Gully / Pup up
 - PS Penstock valve



P01 Planning Submission	LMA	MM	10/05/23
Rev	Description	By	Ckd

rps MAKING COMPLEX EASY
A TETRA TECH COMPANY

Sherwood House, Sherwood Avenue,
Newark, Nottinghamshire, NG24 1QQ
T: 01652 695 700 E: rpsnewark@rpsgroup.com

Client: *[Redacted]*

Project: **Envision AESC Giga Factory**

Title: **Proposed Foul Drainage Layout**

RPS Project Number NK020439P	Scale @ A0 1:1000	Date Created 10/05/23
Task Team Manager T4	Information Author LMA	Task Information Manager MM

Sheet: **S4 (Suitable for Approval)**

Document Number 161	Revision P01
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Project Code - Originator - Function - Spec - Type - Risk - Number
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