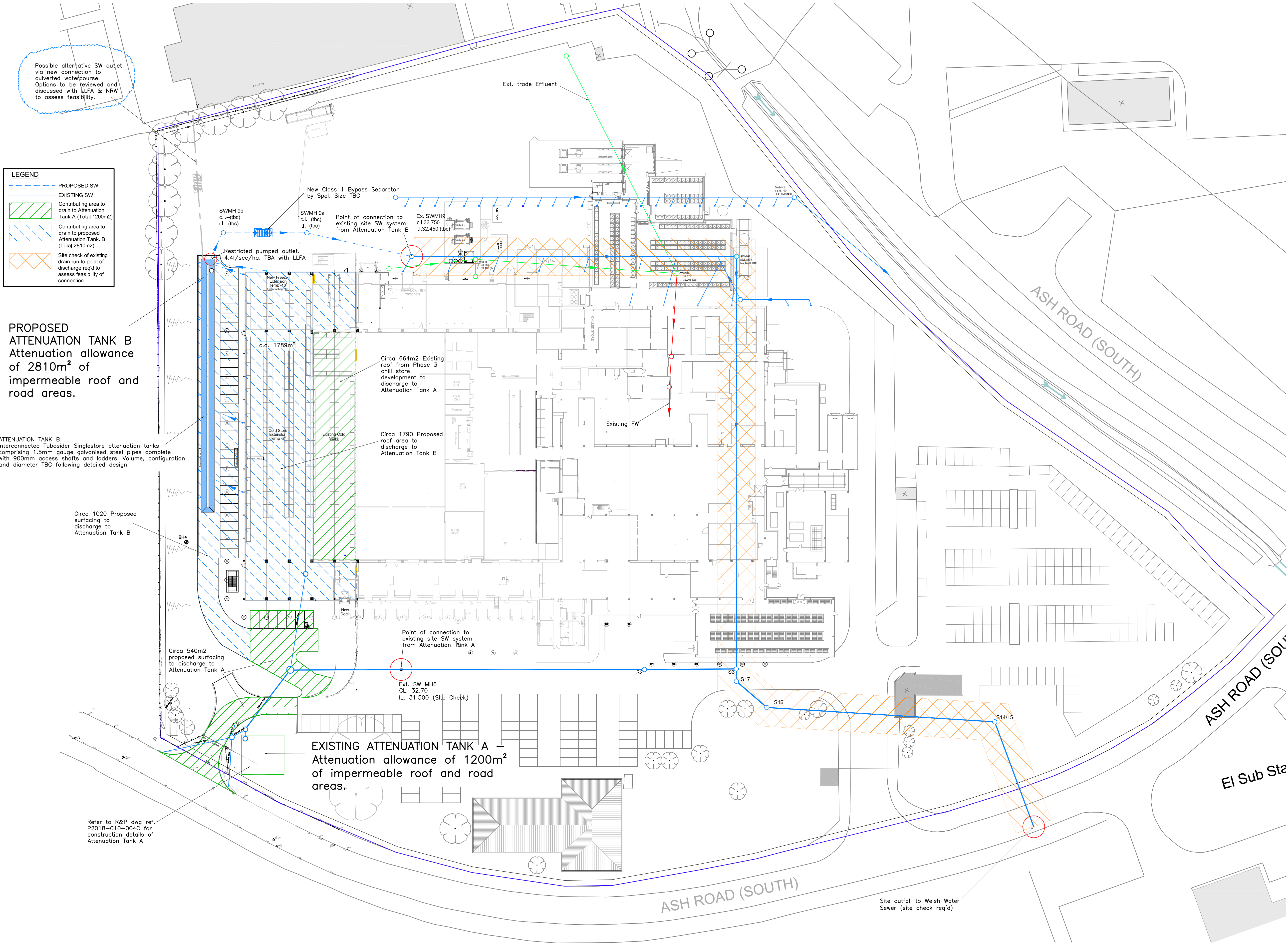




Drainage Notes

- All works to be carried out in accordance with BSEN 752 & BS 8000: 1989 Part 14 Workmanship on Building Sites.
- All workmanship to BSEN 752. MAXIMUM TEMPERATURE FOR V.C. = 60-70°.
- All trenches within trafficked areas to be backfilled with 75mm down graded stone, placed and compacted in 150mm layers. All pipes in roadways, service yards and car parks less than 1200mm deep to be encased in concrete (class Z). Provide flexible joints at 3m c/c.
- Drains under buildings and within 300mm of underside of floor slab to be encased in 150mm concrete (class Z) surround. Casing to have flexible fibre board joints as recommended by pipe supplier.
- A flexible joint shall be provided as close as is feasible to the outside face of any structure into which a pipe is built, compatible with the satisfactory completion and subsequent movement of the joint. the length of the next pipe (rocker pipe) away from the structure shall be as shown in the table below

Nominal Diameter	Effective Length (m)
150-600	0.6
675-750	1.0
825 & above	1.25

- CCTV survey of existing drains required prior to works.
- All existing services to be located and full clash check to be undertaken prior to works
- SW discharge from new impermeable surfaces initially restricted to previously agreed rate of 4.4l/s/ha via a pumped outlet within Attenuation Tank B. TBA following discussion with LLFA.
- Attenuation to be designed to cater for all events up to 1 in 100yr event plus 40% CC.
- SW attenuation provided by interconnected 1.5mm gauge galvanised steel Tubosider Singlestore attenuation tanks. Volume, configuration and diameter TBC.
- Oil/petrol interception provided by Spel Class 1 bypass separator located downstream of attenuation tanks prior to connection into existing site SW system.

12. SUDS OPTIONS

Due to nature of the client's operations associated with the food industry, food safety and hygiene are of paramount importance. Following review of the available traditional "Soft SuDS" options and the associated flora and fauna that they attract they have largely been discounted as the available space on site for their location is limited and would inevitably be situated too close to the buildings and associated food manufacturing processes. This is considered to represent an unacceptable level of risk from a hygiene perspective due to them providing habitat for vermin. On this basis the drainage scheme has been based on sealed below ground attenuation tanks to control discharge volume. If after further review and discussion with the LLFA it is considered that additional water quality improvements are required prior to discharge the suitability of additional proprietary systems can be reviewed and incorporated downstream of the class 1 separator.

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REV	DESCRIPTION	DATE	BY

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CLIENT

Rowan Foods

PROJECT

Project Sunbeam

TITLE

Outline Drainage Strategy

A1	SCALE	DATE	DRAWN	CHECKED
	1:500	05.02.20	LM	

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GENERAL SITE PLAN — DRAINAGE INFO
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