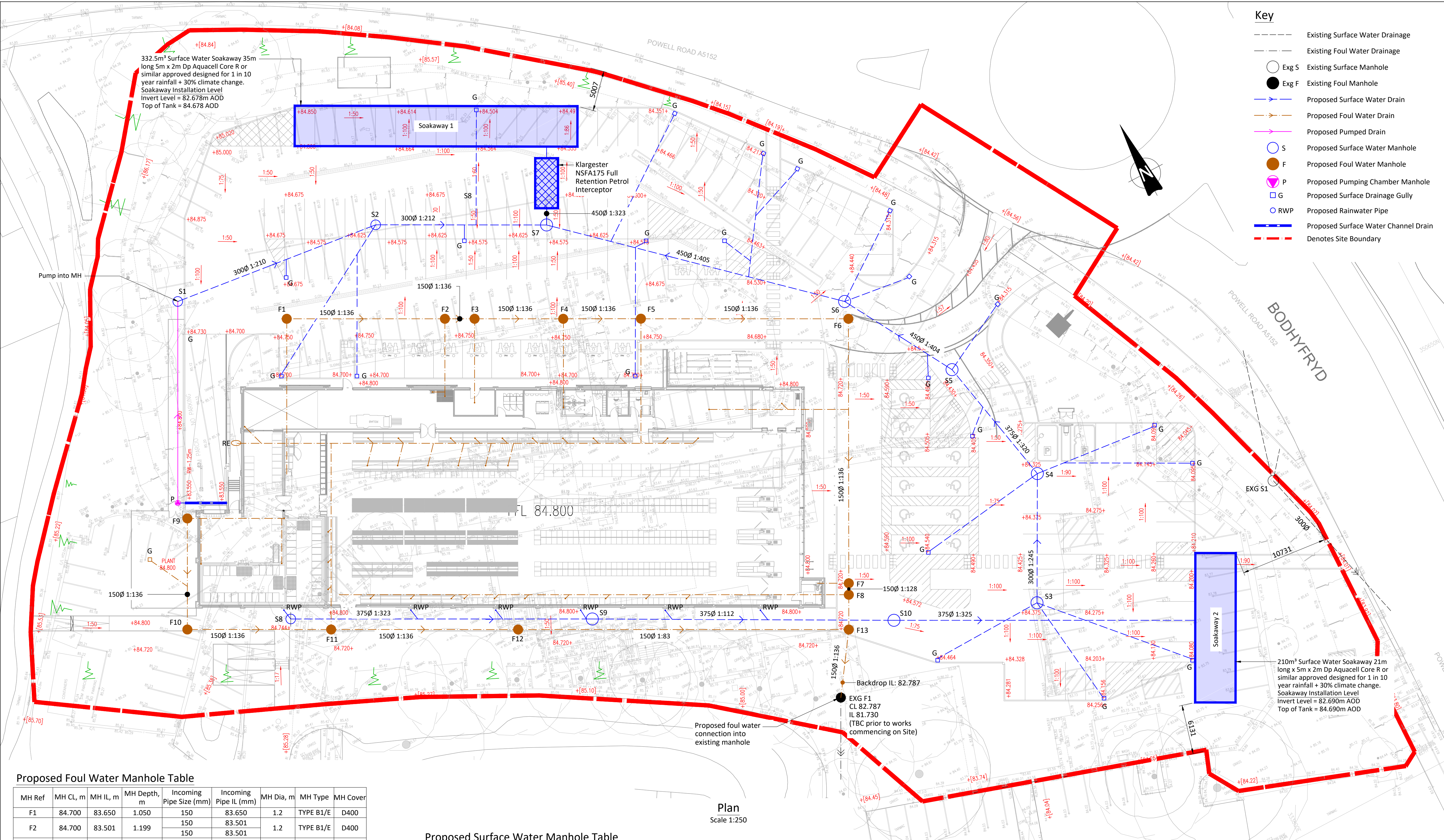




Proposed Foul Water Manhole Table

MH Ref	MH CL, m	MH IL, m	MH Depth, m	Incoming Pipe Size (mm)	Incoming Pipe IL (mm)	MH Dia, m	MH Type	MH Cover
F1	84.700	83.650	1.050	150	83.650	1.2	TYPE B1/E	D400
F2	84.700	83.501	1.199	150	83.501	1.2	TYPE B1/E	D400
F3	84.700	83.474	1.226	150	83.474	1.2	TYPE B1/E	D400
F4	84.700	83.393	1.307	150	83.393	1.2	TYPE B1/E	D400
F5	84.700	83.322	1.378	150	83.322	1.2	TYPE B1/E	D400
F6	84.700	83.134	1.566	150	83.134	1.2	TYPE B	D400
F7	84.720	82.893	1.827	150	82.893	1.2	TYPE B	D400
F8	84.720	82.882	1.838	150	82.882	1.2	TYPE B	D400
F9	84.800	83.750	1.050	150	83.750	1.2	TYPE B1/E	D400
F10	84.800	83.648	1.152	150	83.648	1.2	TYPE B1/E	B125
F11	84.800	83.517	1.283	150	83.517	1.2	TYPE B1/E	B125
F12	84.800	83.346	1.454	150	83.346	1.2	TYPE B1/E	B125
F13	84.720	82.850	1.870	150	82.850	1.2	TYPE B	D400

Exgisting Foul Water Manhole Table

MH Ref	MH CL, m	MH IL, m	MH Depth, m	Incoming Pipe Size (mm)	Incoming Pipe IL (mm)	MH Dia, m	MH Type	MH Cover
EXG F1	84.110	81.730	2.380	150	82.787		Exisiting Manhole depth to be confirmed on site	
				150	81.730			

Proposed Surface Water Manhole Table

MH ref	MH CL, m	MH IL, m	MH Depth, m	Incoming Pipe Size (mm)	Incoming Pipe IL (mm)	MH Dia, m	MH Type	MH Cover
S1	84.800	83.600	1.200	300	83.600	1.2	TYPE B1/E	B125
S2	84.675	83.475	1.200	300	83.475	1.2	TYPE B1/E	D400
S3	84.300	83.100	1.200	300	83.100	1.2	TYPE B1/E	D400
S4	84.300	82.959	1.361	300	83.034	1.5	TYPE B1/E	D400
S5	84.330	82.832	1.518	375	82.907	1.5	TYPE B	D400
S6	84.400	82.793	1.627	450	82.832	1.5	TYPE B	D400
S7	84.575	82.699	1.896	450	82.793	1.5	TYPE B	D400
S8	84.800	83.525	1.275	375	83.375	1.5	TYPE B1/E	B125
S9	84.800	83.409	1.403	375	82.699	1.5	TYPE B1/E	B125
S10*	84.350	83.075	1.275	375	83.525	1.5	TYPE B1/E	B125
				375	83.409	1.5	TYPE B1/E	B125
				375	83.075	1.5	TYPE B1/E	D400
				375	83.075	1.5	TYPE B1/E	D400

*' Denotes silt trap manhole

Plan
Scale 1:250

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A1

Drainage & Pipe Laying Notes

- All work is to be undertaken in accordance with the following standards;
BS EN 1610:2015 - Construction & Testing of Drains & Sewers.
Building Regulations Document Part H.
- All pipe laying works are to proceed upstream
- All pipe laying works are to proceed upstream unless noted otherwise.
- All drainage runs shall be completed in advance of the external works.
- Manhole locations where full setting out is not provided shall be fixed at the best location that suits the criteria indicated on the drawings (i.e. pipe gradients, lengths, incoming connections). Such manholes shall have their placement confirmed to the contract administrator.
- Flows into the network should be avoided until the outfalls are established. If water entry is unavoidable prior to this, a sump should be constructed to be pumped out as required.
- Existing invert levels at final discharge points to be checked prior to construction.
- Where additional connections to the network are instructed by others (or shown on their drawings) such connections shall not be made without confirmation from the contract administrator.
- Any existing pipes, french drains, streams or water entries encountered during pipe laying or elsewhere within the contract boundary should be reported to the contract administrator immediately.
- Manhole cover and frame to suit manhole/inspection chamber a, in accordance with EN 124.
- Concrete pipes to comply with the requirements of BS 5911 and to be flexibly jointed.
- Plastic pipes and fittings to the following;
UPVC - to BS EN 1401
Polypropylene - to BS EN 1852
- Clay pipes to be vitrified clay extra strength, plain end pipes and fittings with plastic sleeve joints to BS 65:1981.
- Pipes and fittings are to be laid in accordance with manufacturers recommendations.
- Pipe work beneath buildings to have concrete bed and surround.
- Where cover to adopted pipes is less than 1200mm and 900mm to private pipes in roads and hard standings concrete protection is to be provided. All drain runs near buildings shall also receive concrete protection - refer to details.
- Where surface water pipes cross foul water pipes both pipes to have concrete bed, surround and infill between.
- All pipe trenches shall have selected excavated material for backfill, except for those which pass beneath any buildings or external pavements which shall have type 2 material for backfill.
- Until final surface is placed, heavy traffic is not to be allowed over pipe trenches without special provisions
- All landscaping, footpaths and street furniture to architects specification and details.
- Existing Drainage information based on Technics survey drawing 4054-0318-01 dated 27.03.18
- All drainage connecting into SW system from road gullies/drainage channels to be 150Ø in minimum 1:150 gradient.
- All RWP's connecting into SW system from road gullies/drainage channels to be 150Ø in minimum 1:150 gradient
- Drainage gully locations to be confirmed by the Architect subject to levels .
- All cover levels TBC by Architect.
- Based on existing drainage information from Technics survey drawing 4054-0318-01 dated 27.03.2018

Pipe Material Table		
Dia. of Drain (mm)	Material	Manufacturer
100 - 225	uPVC	Polypipe
300 - 450	Polyethylene	Polypipe

Existing topography, proposed levels & dimensions added, petrol interceptor specification added in-line with comments from Welsh Water.	A	27/01/2021	KA	KGP
DESCRIPTION	REV	DATE	CHK	APR



Beam Consulting
14 Bond Street
Wakefield
WF1 2QP
Tel: 01924 361653
Fax: 01924 364631

PROJECT	Lidl Store Bodhydryd, Wrexham		
DRAWING TITLE	Detailed Design Proposed Drainage General Arrangement		
CLIENT	Lidl GmbH UK		
STATUS	Information		
DRAWN	JD	DATE	23.06.2020
CHECKED	KA	SCALE	AS SHOWN @ A1
APPROVED	KGP		
DRAWING NUMBER	09-124-510		REVISION A