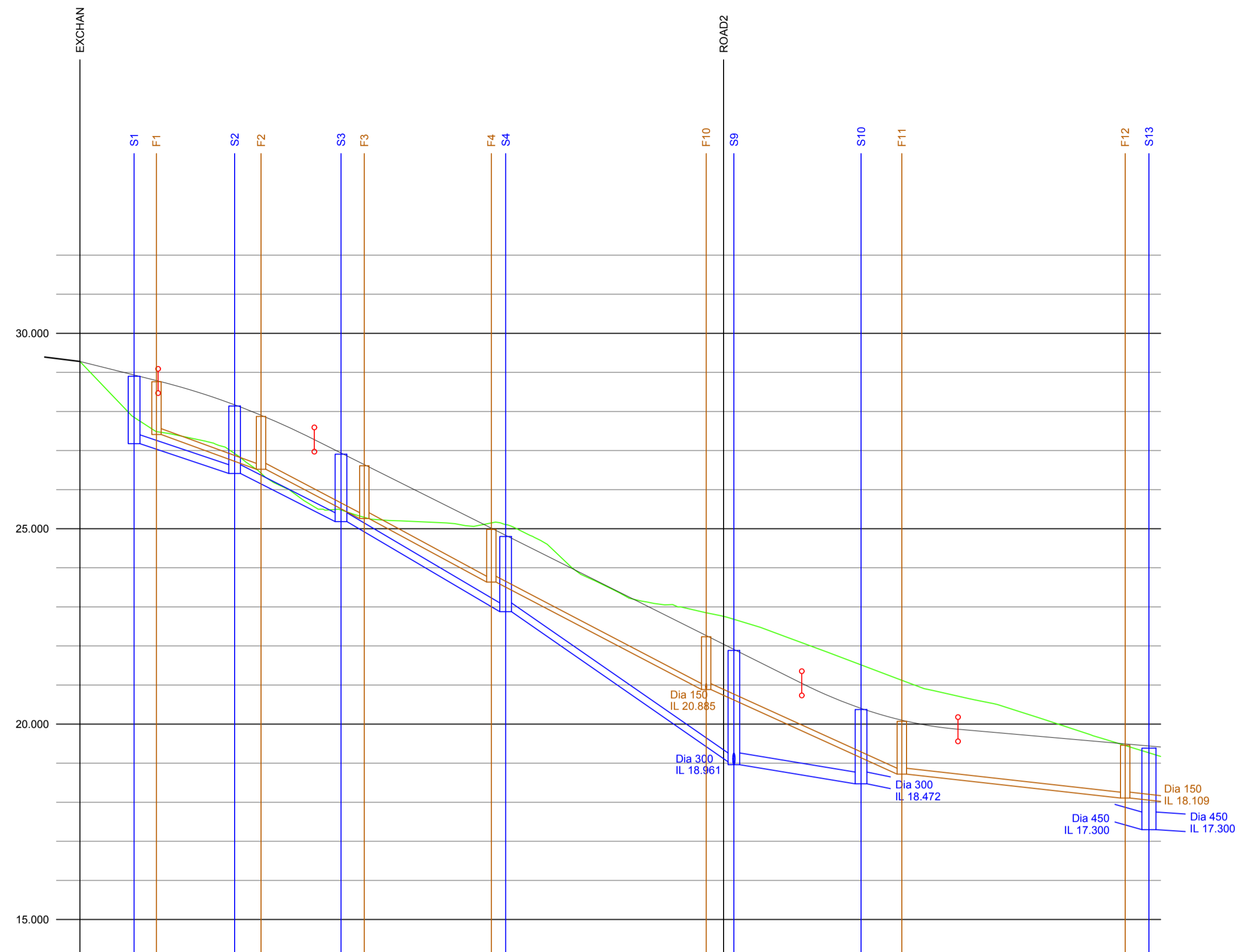
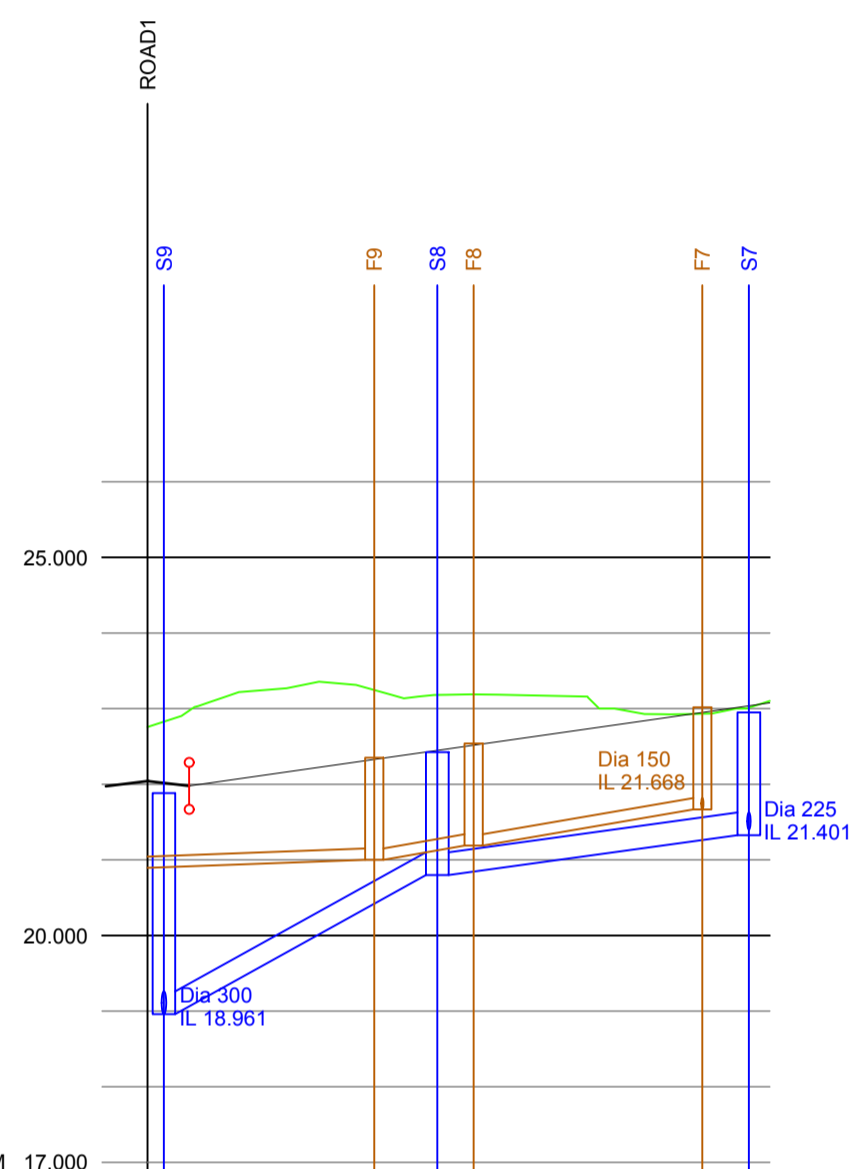


DO NOT SCALE



CHAINAGE	0.000	8.834	9.726	10.000	15.000	16.328	16.800	23.181	25.000	30.000	34.411	36.301	40.000	41.026	50.000	60.000	70.000	80.000	82.374	84.687	90.000	92.305	95.000	100.000	105.000	110.000	112.365	120.000	122.921	130.000	133.758	136.706	138.288		
EXISTING GROUND LEVEL	29.280	27.477	26.699	26.155	25.000	24.280	24.569	22.859	22.265	21.044	20.401	20.110	19.822	19.869	19.735	19.560	19.415	22.280	21.044	20.401	20.110	19.822	19.869	19.735	19.560	19.415	22.280	21.044	20.401	20.110	19.822	19.869	19.735	19.560	19.415
ALIGNMENT LEVEL	29.280	27.477	26.699	26.155	25.000	24.280	24.569	22.859	22.265	21.044	20.401	20.110	19.822	19.869	19.735	19.560	19.415	22.280	21.044	20.401	20.110	19.822	19.869	19.735	19.560	19.415	22.280	21.044	20.401	20.110	19.822	19.869	19.735	19.560	19.415
VERTICAL ALIGNMENT	G= -5.000% 1: -20.0		L= 20.000 KF= 4.0		G= -10.000% 1: -10.0												KF= 2.42418 L= 20.000		G= -1.750% 1: -57.2																
HORIZONTAL ALIGNMENT	R= 30.000		R= 200.000												R= 15.000																				
STORMWATER COVER LEVEL	28.902	28.139	26.906	25.153	24.801	22.854	20.372	21.884	19.006	18.961	18.472	20.070	19.384	22.235	20.885	20.885	20.720	18.720	18.720	22.351	22.539	21.188	21.109	21.668	23.018	21.668	23.018	21.668	23.018	21.668	23.018	21.668	23.018		
STORMWATER INVERT	27.177 Dia 1000 Circular CLAY 1 in 17 12.715	26.414 Dia 225 Circular CLAY 1 in 11 12.933	25.153 Dia 150 Circular CLAY 1 in 9 20.867	24.801 Dia 225 Circular CLAY 1 in 8 29.354	22.876 Dia 300 Circular CLAY 1 in 10 27.300	22.876 Dia 225 Circular CLAY 1 in 8 29.354	20.006 Dia 150 Circular CLAY 1 in 10 16.316	19.006 Dia 300 Circular CLAY 1 in 10 16.316	18.472 Dia 150 Circular CLAY 1 in 11 13.650	20.070 Dia 150 Circular CLAY 1 in 10 16.316	20.885 Dia 150 Circular CLAY 1 in 10 16.316	20.885 Dia 150 Circular CLAY 1 in 10 16.316	20.720 Dia 150 Circular CLAY 1 in 10 16.316	18.720 Dia 150 Circular CLAY 1 in 10 16.316	18.720 Dia 150 Circular CLAY 1 in 10 16.316	22.351 Dia 200 Circular CLAY 1 in 10 16.322	22.539 Dia 200 Circular CLAY 1 in 10 16.322	21.188 Dia 200 Circular CLAY 1 in 10 16.322	21.109 Dia 200 Circular CLAY 1 in 10 16.322	21.668 Dia 200 Circular CLAY 1 in 10 16.322	23.018 Dia 200 Circular CLAY 1 in 10 16.322	21.668 Dia 200 Circular CLAY 1 in 10 16.322	23.018 Dia 200 Circular CLAY 1 in 10 16.322	21.668 Dia 200 Circular CLAY 1 in 10 16.322	23.018 Dia 200 Circular CLAY 1 in 10 16.322	21.668 Dia 200 Circular CLAY 1 in 10 16.322	23.018 Dia 200 Circular CLAY 1 in 10 16.322	21.668 Dia 200 Circular CLAY 1 in 10 16.322	23.018 Dia 200 Circular CLAY 1 in 10 16.322	21.668 Dia 200 Circular CLAY 1 in 10 16.322	23.018 Dia 200 Circular CLAY 1 in 10 16.322				
FOULWATER COVER LEVEL	28.761	27.873	26.610	24.804	24.801	22.235	20.885	20.885	20.720	18.720	18.720	22.351	22.539	21.188	21.109	21.668	23.018																		
FOULWATER INVERT	27.411 Dia 150 Circular CLAY 1 in 15 13.628	26.523 Dia 150 Circular CLAY 1 in 11 13.650	25.290 Dia 150 Circular CLAY 1 in 10 16.316	24.804 Dia 150 Circular CLAY 1 in 10 16.316	22.876 Dia 150 Circular CLAY 1 in 10 16.316	22.876 Dia 150 Circular CLAY 1 in 10 16.316	20.885 Dia 150 Circular CLAY 1 in 10 16.316	20.885 Dia 150 Circular CLAY 1 in 10 16.316	20.720 Dia 150 Circular CLAY 1 in 10 16.316	18.720 Dia 150 Circular CLAY 1 in 10 16.316	18.720 Dia 150 Circular CLAY 1 in 10 16.316	22.351 Dia 200 Circular CLAY 1 in 10 16.322	22.539 Dia 200 Circular CLAY 1 in 10 16.322	21.188 Dia 200 Circular CLAY 1 in 10 16.322	21.109 Dia 200 Circular CLAY 1 in 10 16.322	21.668 Dia 200 Circular CLAY 1 in 10 16.322	23.018 Dia 200 Circular CLAY 1 in 10 16.322																		



CHAINAGE	0.000	2.746	10.000	14.394	15.000	20.000	23.156	30.000	40.000	41.026
EXISTING GROUND LEVEL	22.768	23.302	23.185	23.184	23.184	23.156	23.156	23.156	23.107	23.107
ALIGNMENT LEVEL	21.978	22.185	22.471	22.471	22.471	22.471	22.471	22.471	23.107	23.107
VERTICAL ALIGNMENT	G= 2.859% 1: 35.0									
HORIZONTAL ALIGNMENT	R= 15.000									
STORMWATER COVER LEVEL	21.884	22.425	22.425	22.425	22.425	22.425	22.425	22.425	22.425	22.425
STORMWATER INVERT	18.961 Dia 300 Circular CLAY 1 in 10 17.721	20.800 Dia 300 Circular CLAY 1 in 9 20.328	20.800 Dia 300 Circular CLAY 1 in 9 20.328	20.800 Dia 300 Circular CLAY 1 in 9 20.328	20.800 Dia 300 Circular CLAY 1 in 9 20.328	20.800 Dia 300 Circular CLAY 1 in 9 20.328	20.800 Dia 300 Circular CLAY 1 in 9 20.328	20.800 Dia 300 Circular CLAY 1 in 9 20.328	20.800 Dia 300 Circular CLAY 1 in 9 20.328	20.800 Dia 300 Circular CLAY 1 in 9 20.328
FOULWATER COVER LEVEL	22.351	22.539	21.188	21.109	21.668	23.018				
FOULWATER INVERT	18.961 Dia 150 Circular CLAY 1 in 15 16.322	21.001 Dia 150 Circular CLAY 1 in 11 15.240	21.001 Dia 150 Circular CLAY 1 in 11 15.240	21.001 Dia 150 Circular CLAY 1 in 11 15.240	21.001 Dia 150 Circular CLAY 1 in 11 15.240	21.001 Dia 150 Circular CLAY 1 in 11 15.240	21.001 Dia 150 Circular CLAY 1 in 11 15.240	21.001 Dia 150 Circular CLAY 1 in 11 15.240	21.001 Dia 150 Circular CLAY 1 in 11 15.240	21.001 Dia 150 Circular CLAY 1 in 11 15.240

Notes

- All dimensions are in millimetres unless otherwise shown.
- All adoptable drainage shall be constructed in accordance with 'Sewers for Adoption' 7th Edition, Welsh Ministers Standards and Welsh Water Details and Guidelines.
- All private drainage works are to comply fully with Part H of the Building Regulations.
- All existing invert levels to be checked by the contractor at the start of works and any other discrepancies notified to the Engineer prior to commencing works. All levels are based on topographical survey information provided by others.
- It is the responsibility of the Contractor to verify all information given with regards to existing services and drainage connections etc. prior to commencing the works.
- The Contractor shall adhere to the CDM Regulations at all times.
- Only trained personnel shall be permitted to enter confined spaces.
- All materials to bear the relevant B.S. Kitemark and comply fully with the Sewers for Adoption 7th Specification. All concrete & concrete products must use Sulphate resistant cement (unless the site investigation report proves that sulphate attack from soils and groundwater will not occur to withstand a class 3 condition).
- All opening notices etc. as required under Highways Acts etc. are to be obtained prior to commencement of works. All works are to be inspected by L.A., NHBC or Welsh Water as applicable.
- Trench backfill in highways to within 1m of highway shall, as directed by the Highway Authority be a suitable granular material all in accordance with Sewers for Adoption.
- Cover loadings shall be as detailed on the Manhole Schedule.
- Drain trenches should not be excavated lower than the foundations of any building nearby unless either:
 - The trench is within 1m of the foundation, the trench is filled with concrete up to the lowest level of the foundation, or
 - Where the trench is further than 1m from the building, the trench is filled with concrete to a level below the lowest level for the building equal to the distance from the build, less 150mm.
- All SVP and RWP connections are indicative and shall be confirmed by the client.
- Pipe gradients out of the building to connecting manhole to be laid at 1:40 in accordance with Building Regulations, Part H, Table 6.
- Where pipe sizes are not indicated :
 - 100Ø to be used for foul
 - 100Ø to be used for surface water unless stated otherwise.
- Minimum surface water gradients shall be:
 - 100Ø laid at 1:100 with the exception of the first connection which shall be minimum 1:60
 - 150Ø laid at 1:150
- Minimum 100Ø foul drainage gradient to be 1:80 with the exception of the first connection which shall be minimum 1:40.
- Manhole covers to be marked FWS or SW as appropriate.
- All manhole covers and frames shall comply with BS EN124. All adoptable manholes and chambers shall comply with Sewers for Adoption 7th Edition. Covers in roads to be grade D400 and be 150mm deep. Manhole covers in car parking areas and drives to be grade B125 and covers in landscaping areas to be grade A15. All to be sized in accordance with Building Regulations Part H, Tables 11 & 12. "In-fill" type covers should not be used. Where a cover is located in an area of block paving, the bottom of the frame should be 150mm deep.
- Precast concrete rings to be reinforced.
- Backdrops in private manholes / inspection chambers to be internal
- Private drains laid under adopted / private roads to be Class S granular bed and surround with a minimum of 1.2m cover, where this cannot be achieved a Class Z concrete bed and surround shall be provided.
- Private drains located under landscape areas or driveways / car parking bays to be Class B granular bed and surround with a minimum 0.6m cover, where this cannot be achieved a Class Z concrete bed and surround shall be provided.
- Pipes have not been designed to accommodate construction traffic loading. The contractor is responsible for providing adequate protection to the pipes during construction.
- Slab levels shall not be varied without reference to the Engineer for guidance.
- The developer must self-verify and certify that the design criteria, material standards and workmanship specifications for the proposed adoptable sewers are in accordance with those set out in "Sewers for Adoption" 7th Edition (SFA 7th), The Welsh Ministers Standards and the requirement of DCWW as the Statutory Sewerage Undertaker.
- Subject to a Section 104 Adoption Agreement being complete, a Section 106 application to connect must be made to DCWW the developer shall be given 21 days notice prior to connection. The works may only be undertaken by an SSIP Health & Safety approved contractor.

Class 'S' bed and surround to all pipes unless stated otherwise.
Class 'Z' bed and surround to pipes where cover < 1.2m as indicated on longsections.

All connections are soffit to soffit

STRATEGY



Tel: 01244 684910
Email: admin@coopers.co.uk
Web: http://coopers.co.uk



Project
**MIDNANT FARM,
PRESTATYN.**

Title
Highway Longsections

DRAWING NUMBER	SCALE at A1	1:500 H, 1:100 V
8007 / SK04	DATE	23.11.22
	DRAWN	PW
	CHECKED	AJ
	REVISION	-