

**Drainage Notes:**

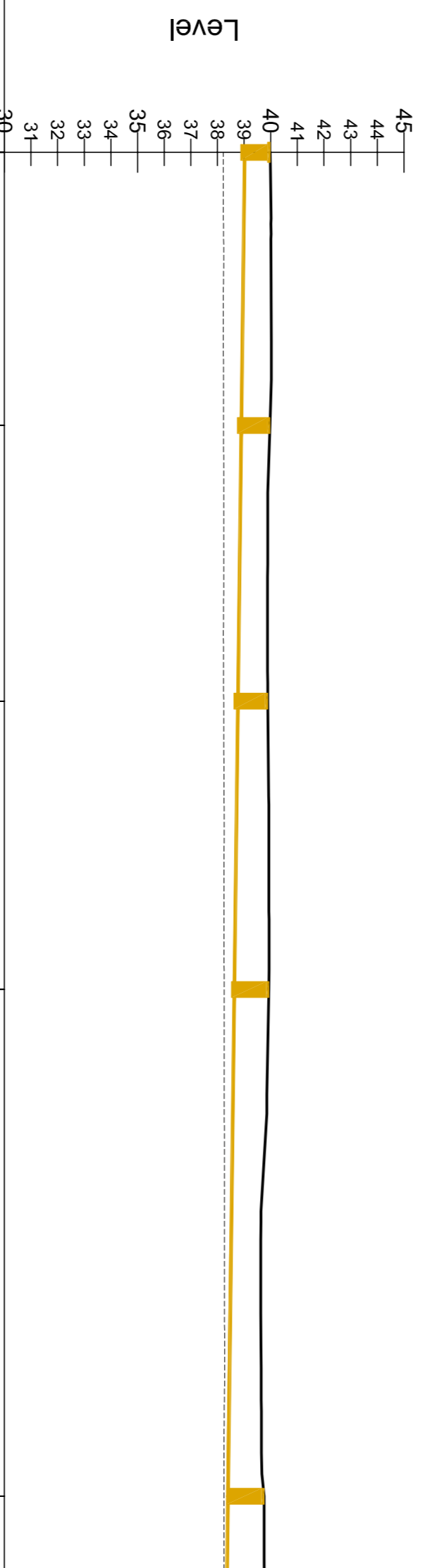
- This drawing is to be read in conjunction with all relevant Architects, Engineer's and other specialists' drawings
- The contractor is responsible for checking dimensions and levels and for confirming the given level of outfall into public sewer, watercourse or other detail
- Refer to architect for all setting out
- Work to figured dimension only. Do not scale
- All works to be in accordance with BS EN752: British Standard for drain and sewer systems outside buildings and the Building Regulations and Sewers for Adoption 7th Edition
- All clay pipework and fittings to be plain and vitrified clay with flexible polypropylene couplings as approved supervisor or Ndy for details etc. All concrete pipework to be to BS5911
- All gravity PVCU pipework to be to BS4660 or BS5481 where relevant unless noted otherwise
- Trenches for pipework under roads and access ways to be backfilled with granular material in accordance with the requirements of the local authority
- All pipes under roads, car parking and access ways with depth less than 1200mm to have 150mm concrete bed & surround
- All pipes to be laid on Class S granular bed and surround
- Polypropylene access chambers to be min. 225 dia for depths up to 600mm and a min. 450 dia. for depths up to 1000mm. 600 dia. ICS for 225/300mm pipe
- All chamber and manhole covers and frames in roads, foot paths and access ways to be to BS EN 124 class D400. In gardens, landscaped areas to be to class B125
- Surface Manhole provided with Hydrorake with a limited discharge of 2lit/s
- Minimum pipe diameter under roads and access ways to be 150mm unco
- Foul water - all pipes beneath buildings and from S/P's, gullies and WC connections to access chambers to be 100mm at a minimum gradient of 1:40 unless noted otherwise. Min. gradient of 100mm pipe between access chambers outside building to be 1:30 unco
- Surface water - Min. gradient of 100mm pipe between access chambers/rodding eyes outside buildings to be 1:100 unco
- Foul Water : minimum pipe gradients to achieve 0.75m/s at one third design flow. Surface Water : minimum pipe gradients to achieve 1.00m/s at pipe full flow
- Connection to existing public sewer manhole to be agreed with Welsh Water
- All materials are to fully comply with the requirements of clause "E" in sewers for adoption 7th edition, of which the contractor must fully acquaint himself with to ensure compliance.
- Subject to a section 104 Adoption Agreement being complete, a Section 106 application to connect must be made to DCWV, the developer shall give 21 days' notice prior to connection. The works may only be undertaken by an SSP health & safety approved contractor.
- The developer must self-levell 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, The Welsh Ministers Standards and the requirements of DCWV as the Statutory Sewerage Undertaker.

Name	FC1	FC2	FC3	FC4	FC5	FC6	FC7	FMH2	FMH1	FMH2	FW Outfall
Pipe Dia.	100mm	100mm	100mm	100mm	100mm	100mm	150mm	150mm	150mm	150mm	150mm
Cover and Invert	00.000 39.980	10.263 39.968	20.619 39.890	31.452 39.928	50.493 39.750	66.742 39.782	75.394 39.532	88.915 39.336	100.442 33.781	100.442 33.781	108.396 32.181
Pipe Length	2D = 10.263 3D = 10.263	2D = 10.356 3D = 10.357	2D = 10.833 3D = 10.834	2D = 19.042 3D = 19.043	2D = 16.249 3D = 16.250	2D = 8.652 3D = 8.653	2D = 13.521 3D = 13.565	2D = 11.526 3D = 12.437	2D = 7.954 3D = 7.955	2D = 11.469 3D = 11.522	2D = 11.171 3D = 11.172

Name	SIC1	SIC4	SMH1	SMH2	SMH4	SMH5	SMH6	SW Outfall
Pipe Dia.	150mm	150mm	150mm	1500mm	225mm	225mm	225mm	225mm
Cover and Invert	25.379 39.792	39.643 1.967	39.172 39.172	39.307 39.355	60.001 39.440	109.316 39.325	120.785 33.762	131.957 32.555
Pipe Length	2D = 23.379 3D = 23.411	2D = 6.368 3D = 6.603	2D = 7.205 3D = 7.205	2D = 42.135 3D = 42.137	2D = 8.694 3D = 8.694	2D = 19.315 3D = 19.315	2D = 11.469 3D = 11.522	2D = 11.171 3D = 11.172

SURFACE WATER - LONGSECTION  
SCALE: H 1:200, V 1:200. DATUM: 30.000



Name	FC1	FC2	FC3	FC4	FC5	FC6	FC7	FMH1	FMH2	FW Outfall	
Pipe Dia.	100mm	100mm	100mm	100mm	100mm	100mm	150mm	150mm	150mm	150mm	
Cover and Invert	00.000 39.980	10.263 39.968	20.619 39.890	31.452 39.928	50.493 39.750	66.742 39.782	75.394 39.532	88.915 39.336	100.442 33.781	100.442 33.781	108.396 32.181
Pipe Length	2D = 10.263 3D = 10.263	2D = 10.356 3D = 10.357	2D = 10.833 3D = 10.834	2D = 19.042 3D = 19.043	2D = 16.249 3D = 16.250	2D = 8.652 3D = 8.653	2D = 13.521 3D = 13.565	2D = 11.526 3D = 12.437	2D = 7.954 3D = 7.955	2D = 7.954 3D = 7.955	

FOUL WATER - LONGSECTION  
SCALE: H 1:200, V 1:200. DATUM: 30.000

Name	FC1	FC2	FC3	FC4	FC5	FC6	FC7	FMH1	FMH2	FW Outfall	
Pipe Dia.	100mm	100mm	100mm	100mm	100mm	100mm	150mm	150mm	150mm	150mm	
Cover and Invert	00.000 39.980	10.263 39.968	20.619 39.890	31.452 39.928	50.493 39.750	66.742 39.782	75.394 39.532	88.915 39.336	100.442 33.781	100.442 33.781	108.396 32.181
Pipe Length	2D = 10.263 3D = 10.263	2D = 10.356 3D = 10.357	2D = 10.833 3D = 10.834	2D = 19.042 3D = 19.043	2D = 16.249 3D = 16.250	2D = 8.652 3D = 8.653	2D = 13.521 3D = 13.565	2D = 11.526 3D = 12.437	2D = 7.954 3D = 7.955	2D = 7.954 3D = 7.955	

Client	Project	Drawing Title	Drawing Number	Rev	Date	Dm	Clk	Details
Northfield Property Developments Ltd	Oak Drive, Colwyn Bay - Plot 4 to 14	Drainage Long Sections	ODL-ENA-XX-XX-DR-C-5007	P4	06.08.23	DRB	DRB	Updated - Revised Plot FC's
			Purpose of Issue					
			Revision					
			P4					
			Status					
			P					

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