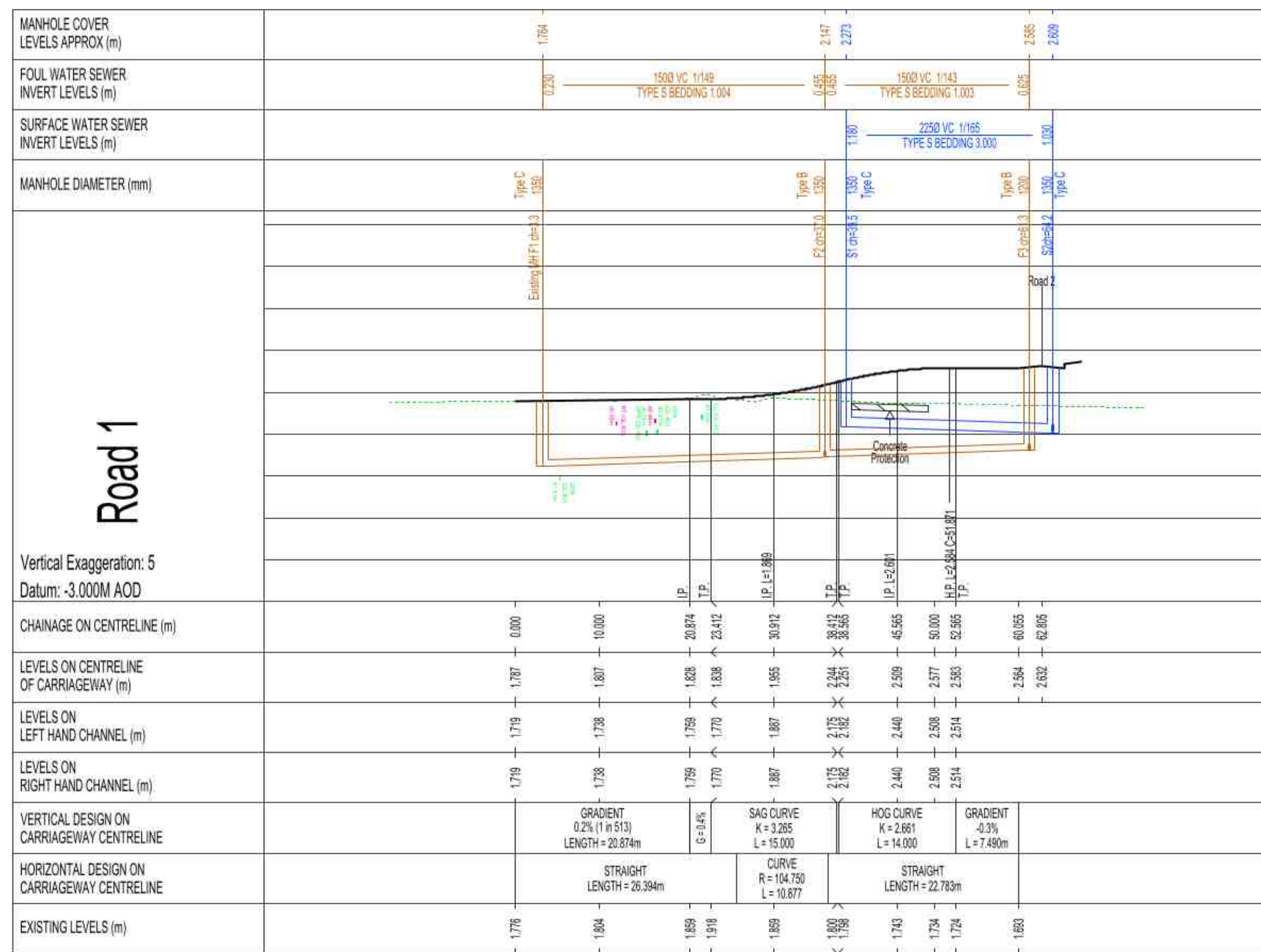


Road 1 Plan



UTILITIES ABBREVIATIONS & SYMBOLS

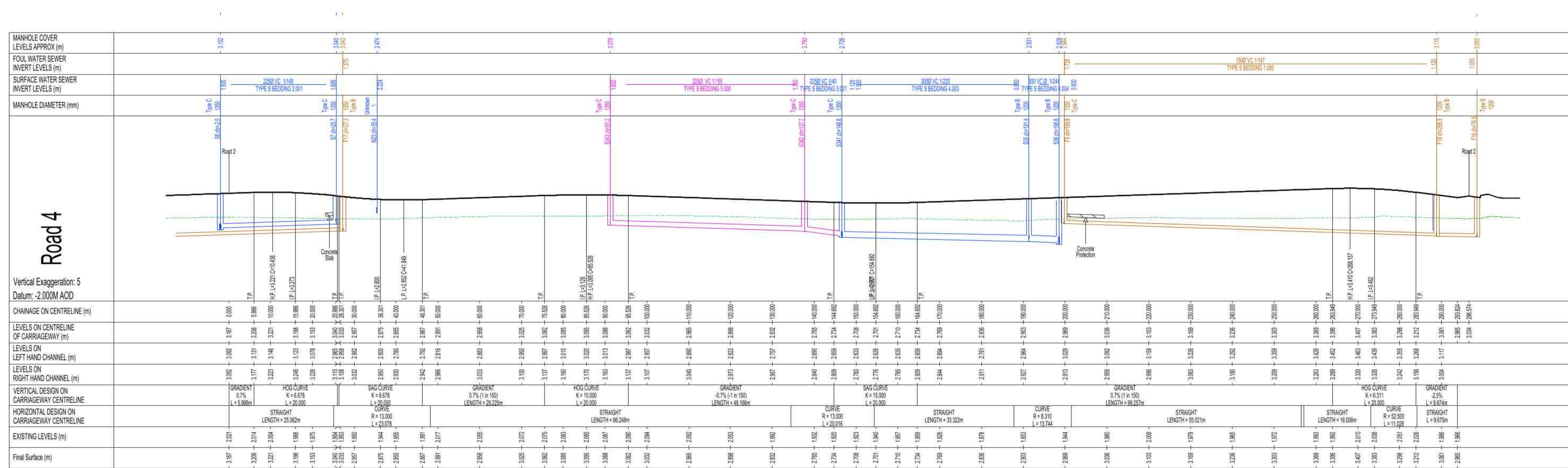
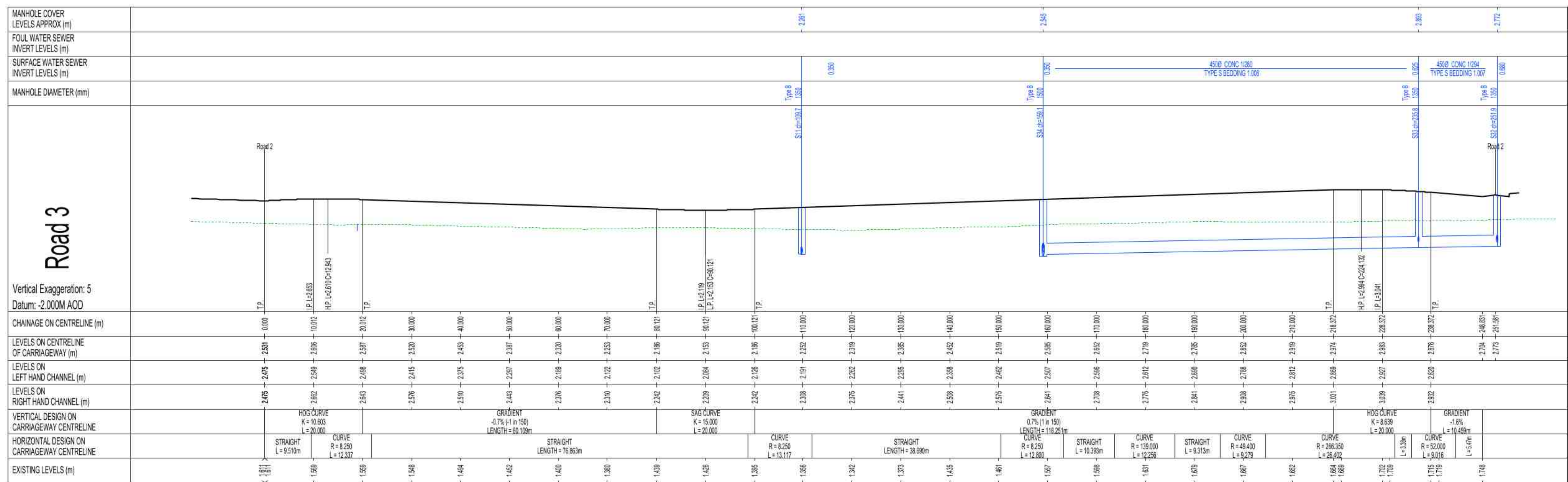
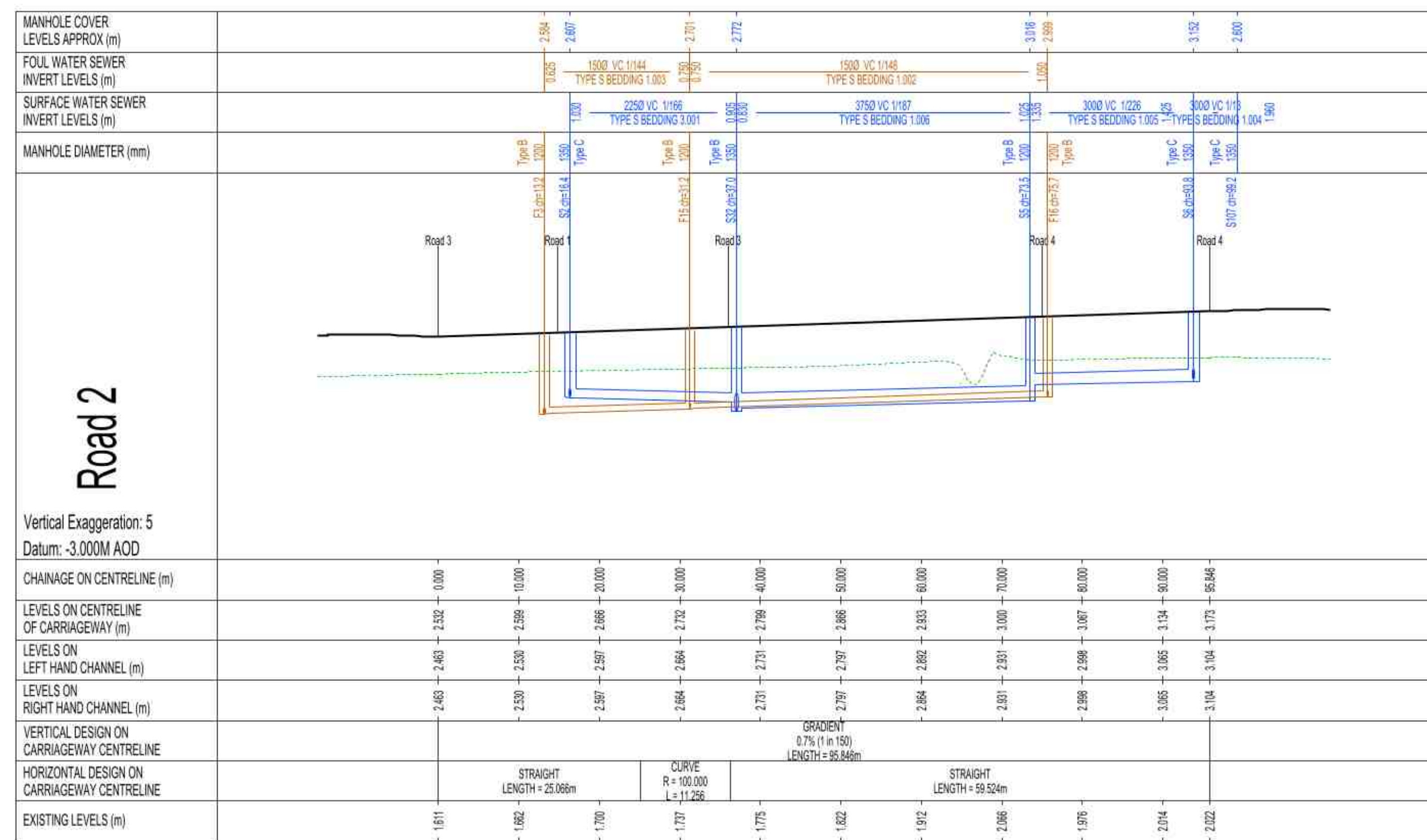
1D SC	1 Duct 5 Cables	DCr	Depth To Crown	RBC	Rectangular Brick Chamber
Ø	Diameter	DI	Depth To Invert	RCC	Rectangular Conc Chamber
AC	Audible Connection	DS	Depth To Silt	RE	Rodding Eye
AG	Above Ground	DTB	Depth To Base	SA	Survey Abandoned
AR	Assumed Route	DTW	Depth To Water	SL	Silt Level
BL	Base Level	DTS	Depth To Surcharge	SuL	Surcharge Level
CB	Concrete Benching	EBD	External Backdrop	TFR	Taken From Records
CBC	Circular Brick Chamber	EOT	End Of Trace	UTC	Unable To CCTV
CCC	Circular Conc Chamber	IBD	Internal Backdrop	UTDO	Unable To Determine Outfall
CL	Cover Level	IL	Invert Level	UTL	Unable To Lift
CPC	Circ Plastic Chamber	OH	Overhead	UTS	Unable To Survey
CrL	Crown Level	PDR	Poor Depth Response	UTT	Unable To Trace
CU	Camera Under Water	RB	Rest Bend	WL	Water Level

BT CABLE(S)	OVERHEAD BT CABLE(S)	COMMUNICATIONS CABLE(S)	CABLE TV CABLE(S)	EMPTY DUCT	ELECTRIC CABLE(S)	OVERHEAD ELECTRIC CABLE(S)	FIBROPTIC CABLE(S)	FUEL PIPE(S)	GAS MAIN	GAS SERVICE	GROUND PENETRATING RADAR (GPR) TRACE	HOT WATER PIPE	LIGHTING CIRCUIT	OIL PIPE(S)	VISIBLE SCARRING	SECURITY CABLING	TELECOM CABLE(S)	TRAFFIC SIGNAL	UNIDENTIFIED SERVICE	UNIDENTIFIED TRACE	WATER MAIN	WATER SERVICE	COMBINED SEWER	COMBINED WATER RISING MAIN	EFFLUENT WATER	FOUL SEWER	FOUL WATER RISING MAIN	RISING MAIN	SURFACE WATER SEWER	SURFACE WATER RISING MAIN	INVESTIGATION EXTENTS	AUDIBLE CONNECTION	SERVICE ABOVE GROUND	CAMERA UNDER WATER	SERVICE OVERHEAD
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NOTES.

- This drawing is to be read in conjunction with the Standard Details, the Layouts and schedules and specification for this project.
- A +1% gradient represents a rise of 1m in 100m.
- Left and Right hand channels are on the left and right side respectively, when standing at Chainage Zero and looking up the road.
- A level 'y' at a point 'x' m from the start of a vertical curve is given by the formula:

$$y = \text{Level at start of curve} + (A \times x/100) - [(A - B) \times x^2]/200L$$
 where: 'A' and 'B' are the gradients at the start and end of the curve respectively, and having the algebraic signs + or -.
 'L' is the length of vertical curve. A is denoted as the gradient given as a percentage divided by 100.
- Pipe sizes are shown in millimetres and levels shown in metres AOD.
- All pipes to have flexible joints with granular bed and surround (Class II) unless otherwise stated. Where cover under roads or vehicular access areas is less than 1200mm, then Concrete slab protection as per details should be used.
- All trenches under adopted highway should be backfilled with Type 1 subbase.
- Connections to existing sewers are to be Soffit to Soffit, unless otherwise noted.
- Channel Blocks required when gradient is less than 1%.
- Unless otherwise stated - all drainage to be adopted by Drainage Authority under a S104 Agreement of the Water Industry Act. Any Highway drainage or gully connections to be adopted under Section 38 of the Highways Act.
- All Adoptable Drainage Works shall comply with the Design and Construction Guidance for foul and surface water sewers offered for adoption under the Code for adoption agreements for water and sewerage companies operating wholly or mainly in England [The Code] Approved Version 2.0



KEY	
	Proposed Alignment Level
	Existing Ground Level
	S38 Highway Drainage
	S104 Surface Water Drainage
	S104 Foul Drainage