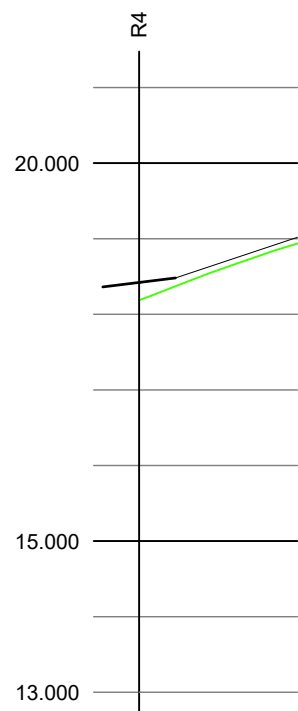
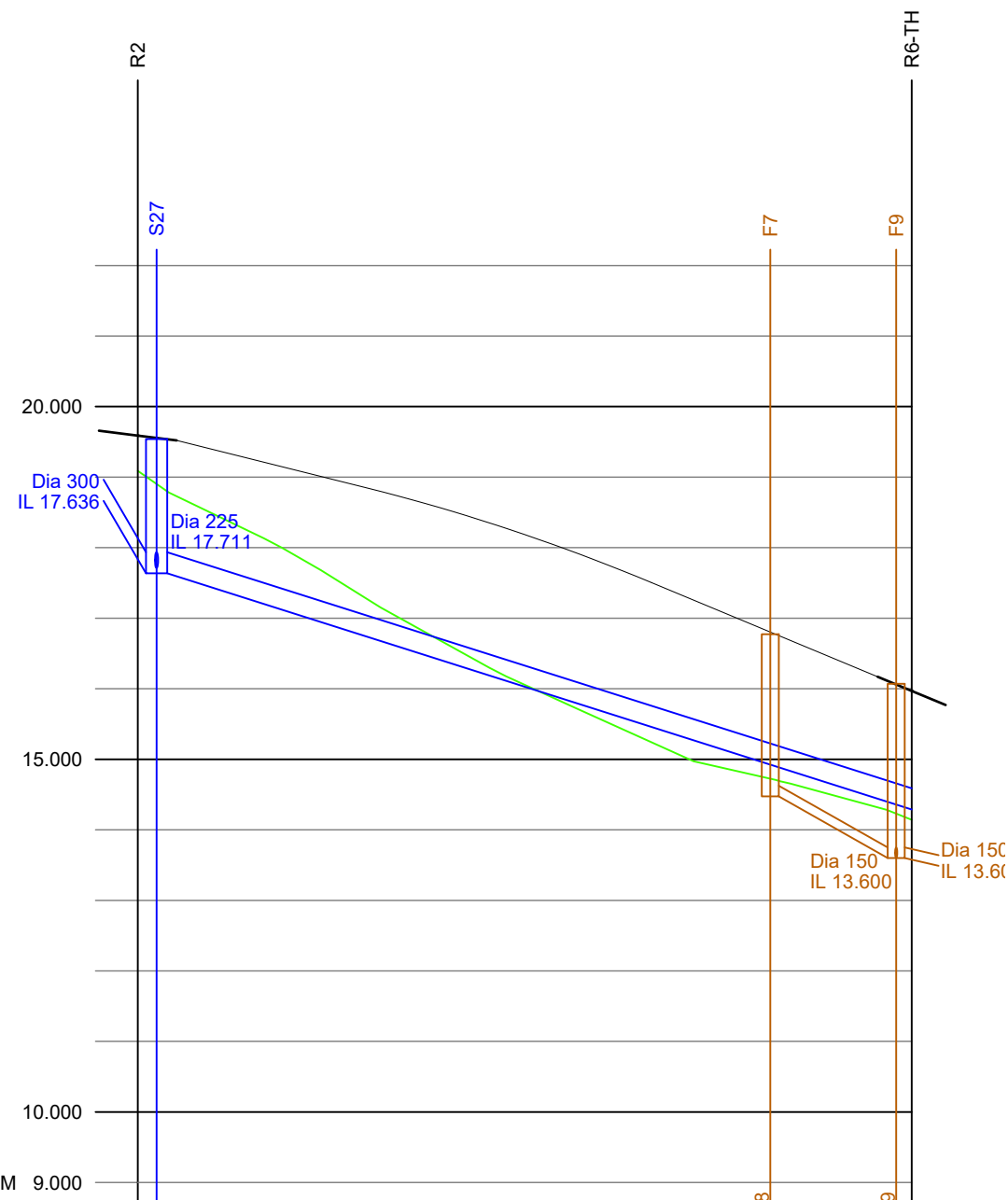


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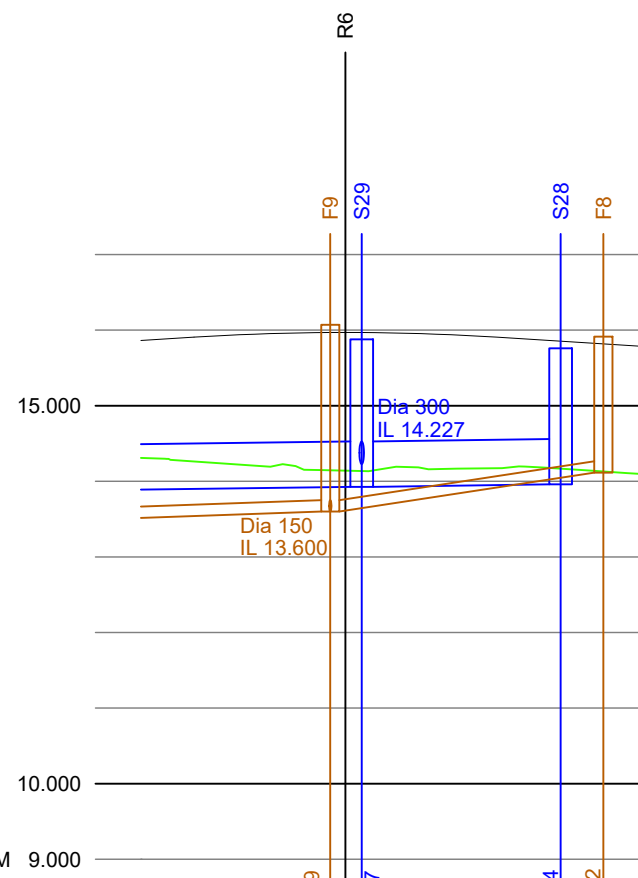
R4-TH

CHAINAGE	0.000	2.400	7.232	18.987
EXISTING GROUND LEVEL	18.187			18.987
ALIGNMENT LEVEL	18.481			18.987
VERTICAL ALIGNMENT	G= 6.667% 1: 15.0			
HORIZONTAL ALIGNMENT	R= 50.000			

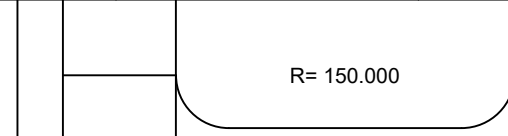


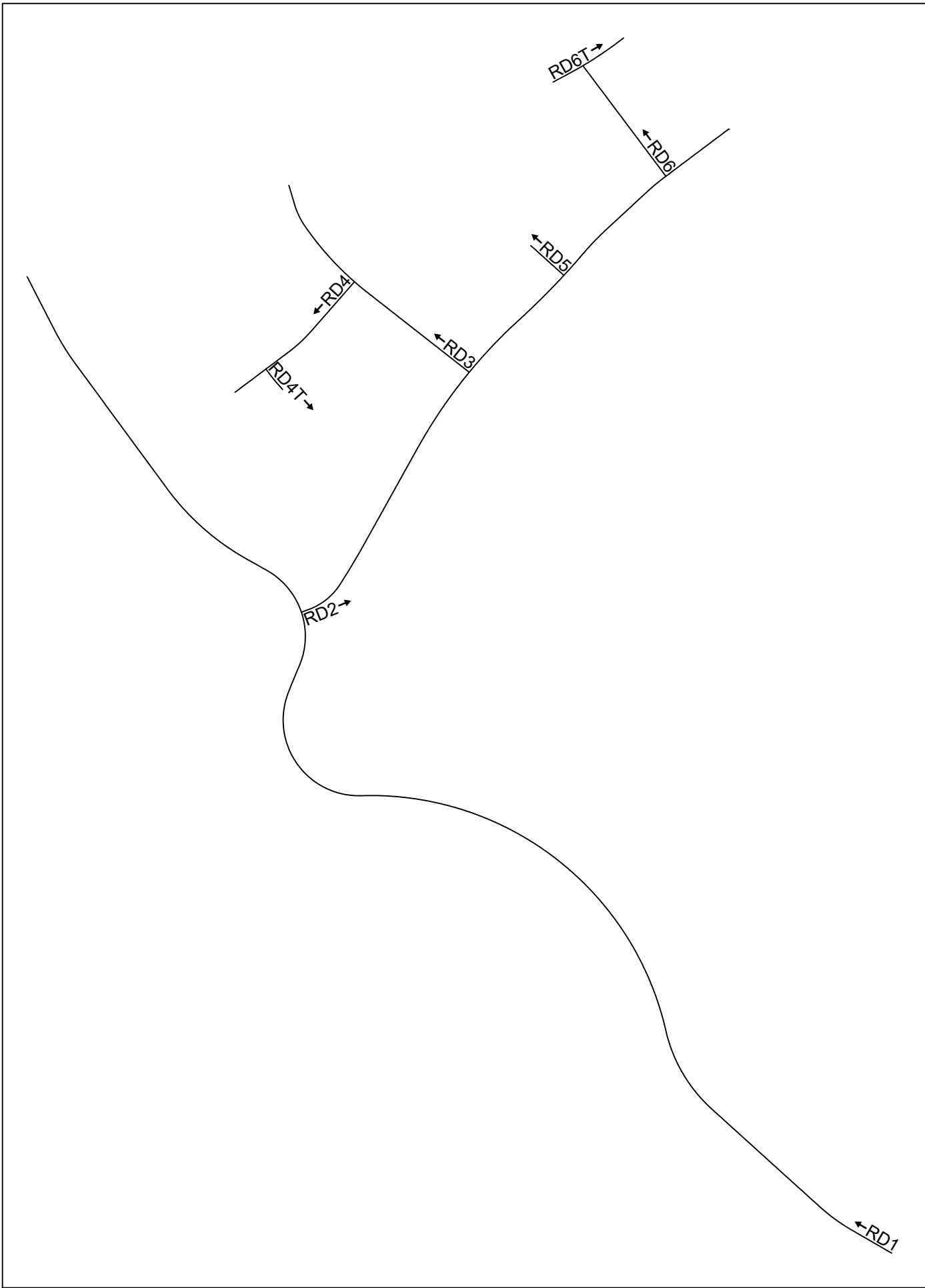
R6

CHAINAGE	0.000	2.750	10.000	16.394	20.000	25.000	30.000	35.000	36.384	40.000	44.618	50.000	54.838
EXISTING GROUND LEVEL	19.080		18.020		16.842		15.820			14.944		14.450	14.143
ALIGNMENT LEVEL	19.520		19.158	18.838	18.647	18.346	18.003	17.619	17.505	17.204		16.371	16.169
VERTICAL ALIGNMENT		G= -5.000% 1: -20.0			L= 20.000 KF= -6.0				G= -8.333% 1: -12.0				
HORIZONTAL ALIGNMENT													
STORMWATER COVER LEVEL	19.539												
STORMWATER INVERT	17.636	Pipe 4.001 Dia 300 Circular PVC-U 1 in 16 54.490											
FOULWATER COVER LEVEL											16.772		16.070
FOULWATER INVERT											14.742	Pipe 2.000 Dia 150 PVC-U 1 in 10 8.922	13.600



R6-TH

CHAINAGE	0.000	3.515	5.000	7.477	10.000	13.515	15.000	20.000	23.515	29.867	30.000	33.043
EXISTING GROUND LEVEL	14.309				14.209			14.164		14.138		14.098
ALIGNMENT LEVEL	15.862	15.904	15.927		15.961	15.969	15.983	15.943	15.906	15.825		15.787
VERTICAL ALIGNMENT	G= -1.250% 1: 80.0				L= 20.000 KF= -8.0				G= -1.250% 1: -80.0			
HORIZONTAL ALIGNMENT												
STORMWATER COVER LEVEL					15.877					15.760		
STORMWATER INVERT		Pipe 4.002 Dia 600 Circular CONC 1 in 397 26.209	13.927		13.927	Pipe 7.000 Dia 150 Circular CONC 1 in 400 13.055				13.960		
FOULWATER COVER LEVEL			16.070							15.914		
FOULWATER INVERT	Pipe 2.001 Dia 150 PVC-U 1 in 150 83.898		13.600		13.600	Pipe 3.000 Dia 150 Circular PVC-U 1 in 35 18.189				14.114		



KEY PLAN

Pipe Materials Table

Pipe Materials Table	Pipe Materials Table
100	CLAYWARE
150	CLAYWARE
225	CLAYWARE
300	CLAYWARE
375	CONCRETE
450	CONCRETE
525	CONCRETE

Contractor may elect to use thermoplastics pipes. These shall comply with the relevant provisions of BS EN 1401-1, BS EN 1852 and BS EN 12666-1 and should be Welsh Water approved products

Bedding and Surround Table

Depth to Soffit	Bedding and Surround Type
>1.2m	Class S
<1.2m	Class Z

**Note:**  
Adoptable materials / workmanship to conform to Part E of "Sewers for Adoption" 7th Edition.

## Notes

- Setting out shall be undertaken using only the information given. Distances should not be scaled from this drawing.
- All sewers shall be constructed in accordance with Sewers for Adoption 7th Edition and Welsh Water Details & Guidelines.
- The minimum gravity pipe diameter under adoptable highways shall be 150mm
- 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 rates shall include for hand dig around services where necessary. The Contractor shall adhere to the CDM Regulations at all times
- The outsides of all sewers shall be a minimum of 1.0m from kerb lines and the outside of manholes shall be a minimum of 0.5m from kerb lines
- Existing flows in watercourses, sewers and land drains shall be maintained 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 specifications. All concrete & concrete products must use Sulphate resistant cement to withstand Class 3 condition (unless the site investigation report proves that sulphate attack from soils and groundwater will not occur).
- 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 the Network Operator as applicable.
- Where "structured wall" UPVC pipes are used in adoptable drainage they shall be handled and laid in accordance with the manufacturers instructions and will be subject to post installation deformation testing prior to adoption. A Class S Bed and Surround must be used for such pipes
- 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.
- Slab levels shall not be varied without reference to the Engineer for guidance.
- Pipes have not been designed to accommodate construction traffic loading. The contractor is responsible for providing adequate protection to the pipes during construction.
- All works to be in accordance with Denbighshire County Council's Specification and Standard Details, and as agreed with Denbighshire County Council's representative.
- The developer must self-vet 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.

## STRATEGY



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

Park House  
Sandpiper Court  
Chester Business Park  
Chester  
CH4 9QU

Client



Project

MINDALE FARM,  
MELIDEN.

Title

Highway Longsections  
Sheet 3 of 3

DRAWING NUMBER

8658 / SK02-3

SCALE at A1

1:500 H & 1:100 V

DATE

09.12.25

DRAWN

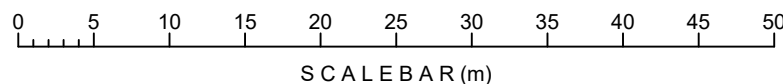
PW

CHECKED

AJ

REVISION

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