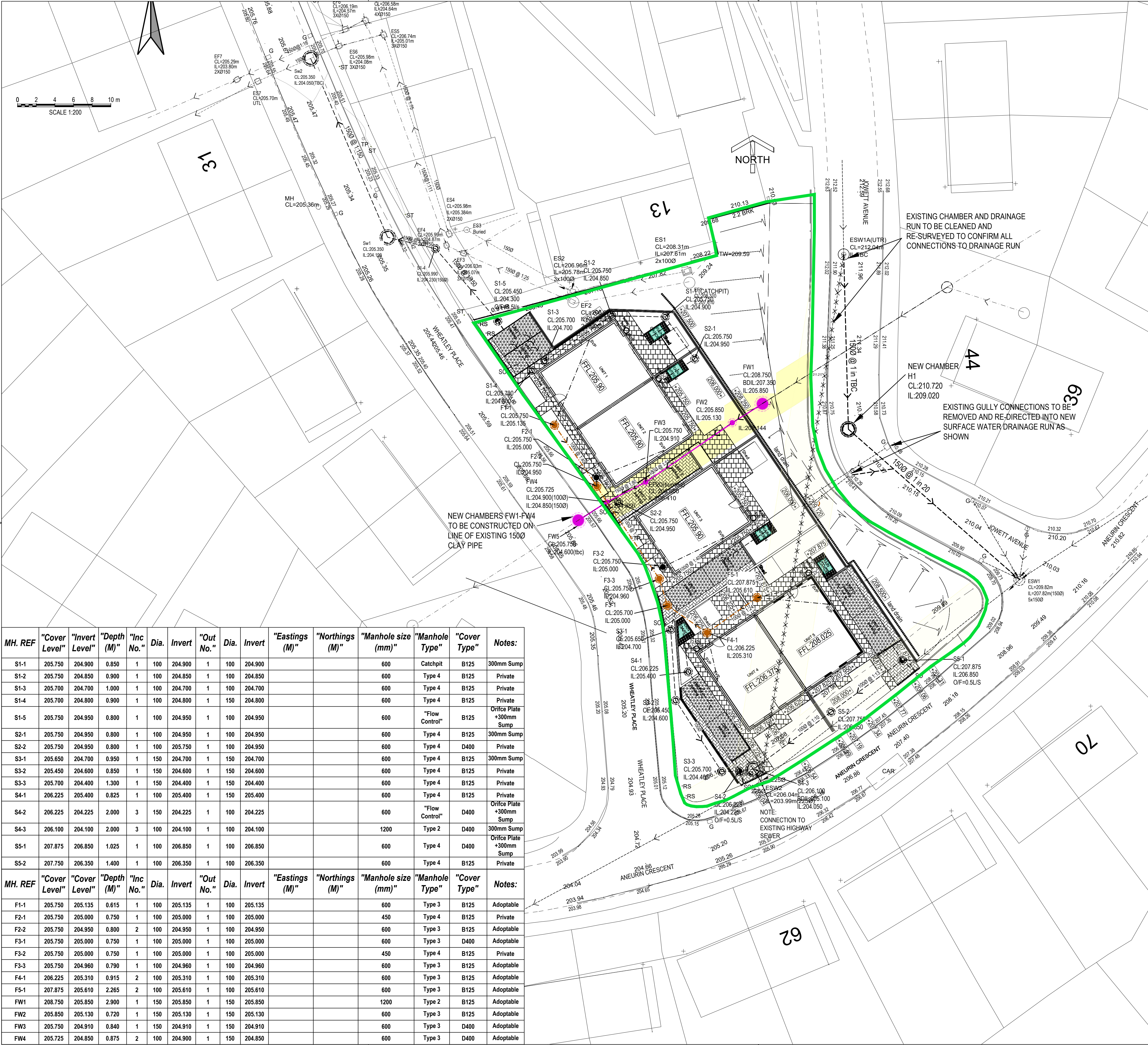




MH. REF	"Cover Level"	"Invert Level"	"Depth (M)"	"Inc No."	Dia.	Invert	"Out No."	Dia.	Invert	"Eastings (M)"	"Northings (M)"	"Manhole size (mm)"	"Manhole Type"	"Cover Type"	Notes:
S1-1	205.750	204.900	0.850	1	100	204.900	1	100	204.900			600	Catchpit	B125	300mm Sump
S1-2	205.750	204.850	0.900	1	100	204.850	1	100	204.850			600	Type 4	B125	Private
S1-3	205.700	204.700	1.000	1	100	204.700	1	100	204.700			600	Type 4	B125	Private
S1-4	205.700	204.800	0.900	1	100	204.800	1	150	204.800			600	Type 4	B125	Private
S1-5	205.750	204.950	0.800	1	100	204.950	1	100	204.950			600	"Flow Control"	B125	Orifice Plate +300mm Sump
S2-1	205.750	204.950	0.800	1	100	204.950	1	100	204.950			600	Type 4	B125	300mm Sump
S2-2	205.750	204.950	0.800	1	100	205.750	1	100	204.950			600	Type 4	D400	Private
S3-1	205.650	204.700	0.950	1	150	204.700	1	150	204.700			600	Type 4	B125	300mm Sump
S3-2	205.450	204.600	0.850	1	150	204.600	1	150	204.600			600	Type 4	B125	Private
S3-3	205.700	204.400	1.300	1	150	204.400	1	150	204.400			600	Type 4	B125	Private
S4-1	206.225	205.400	0.825	1	100	205.400	1	150	205.400			600	Type 4	B125	Private
S4-2	206.225	204.225	2.000	3	150	204.225	1	100	204.225			600	"Flow Control"	D400	Orifice Plate +300mm Sump
S4-3	206.100	204.100	2.000	3	100	204.100	1	100	204.100			1200	Type 2	D400	300mm Sump
S5-1	207.875	206.850	1.025	1	100	206.850	1	100	206.850			600	Type 4	D400	Orifice Plate +300mm Sump
S5-2	207.750	206.350	1.400	1	100	206.350	1	100	206.350			600	Type 4	B125	Private
MH. REF	"Cover Level"	"Cover Level"	"Depth (M)"	"Inc No."	Dia.	Invert	"Out No."	Dia.	Invert	"Eastings (M)"	"Northings (M)"	"Manhole size (mm)"	"Manhole Type"	"Cover Type"	Notes:
F1-1	205.750	205.135	0.615	1	100	205.135	1	100	205.135			600	Type 3	B125	Adoptable
F2-1	205.750	205.000	0.750	1	100	205.000	1	100	205.000			450	Type 4	B125	Private
F2-2	205.750	204.950	0.800	2	100	204.950	1	100	204.950			600	Type 3	B125	Adoptable
F3-1	205.750	205.000	0.750	1	100	205.000	1	100	205.000			600	Type 3	D400	Adoptable
F3-2	205.750	205.000	0.750	1	100	205.000	1	100	205.000			450	Type 4	B125	Private
F3-3	205.750	204.960	0.790	1	100	204.960	1	100	204.960			600	Type 3	B125	Adoptable
F4-1	206.225	205.310	0.915	2	100	205.310	1	100	205.310			600	Type 3	B125	Adoptable
F5-1	207.875	205.610	2.265	1	100	205.610	1	100	205.610			600	Type 3	B125	Adoptable
FW1	208.750	205.850	2.900	1	150	205.850	1	150	205.850			1200	Type 2	B125	Adoptable
FW2	205.850	205.130	0.720	1	150	205.130	1	150	205.130			600	Type 3	B125	Adoptable
FW3	205.750	204.910	0.840	1	150	204.910	1	150	204.910			600	Type 3	D400	Adoptable
FW4	205.725	204.850	0.875	2	100	204.850	1	150	204.850			600	Type 3	D400	Adoptable

GENERAL NOTES:

1. 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, THE WELSH MINISTERS STANDARDS AND THE REQUIREMENTS OF DCWW AS THE STATUTORY SEWERAGE UNDERTAKER.
2. SUBJECT TO A SECTION 104 ADOPTION AGREEMENT BEING COMPLETE, A SECTION 106 APPLICATION TO CONNECT MUST BE MADE TO DCWW. THE DEVELOPER SHALL GIVE 21 DAYS NOTICE PRIOR TO CONNECTION. THE WORKS MAY ONLY BE UNDERTAKEN BY A SIPS REGISTERED CONTRACTOR.
3. **HAZARDOUS WASTE:-** CONTRACTOR TO PROVIDE EVIDENCE OF THE PROPOSED REMOVAL OF THE EXISTING PITCH FIBRE DRAINAGE RUN.
4. CONTRACTOR TO CONFIRM PRIOR TO THE ABANDONMENT OF SEWER THAT NO EXISTING CONNECTION UPSTREAM EXIST. (TO ENSURE NO EXISTING USERS ARE CUT OFF.)
5. COMPLIANCE WITH HEALTH & SAFETY MATTERS ON ANY TRENCH/MANHOLE IS OBLIGATORY AND A PERMIT TO ENTER A CONFIRMED SPACE IS REQUIRED WHEN CONNECTING SITE DRAINAGE TO THE EXISTING PUBLIC SEWERAGE SYSTEM. A PERMIT TO ENTER A CONFINED SPACE WILL BE OBTAINED FROM DWR CYMRU/WELSH WATER PRIOR TO THE WORKS COMMENCING ON ANY PUBLIC SEWERAGE SYSTEM.
6. MH COVER & FRAMES SHALL BE DUCTILE IRON WITH A MINIMUM SQUARE OPENING OF 675x675mm. COVERS SHALL BE DOUBLE TRIANGLE FOR 675mm SQUARE OPENINGS AND BE PROVIDED WITH LOOSE BOLTED CONNECTIONS. FRAME DEPTH SHALL BE 150mm.
7. ALL IRONWORK TO BE KITE MARKED BY BSI OR CERTIFIED BY EQUAL INSPECTION AUTHORITY.
8. PLANTING CLOSE TO ADOPTABLE DRAINAGE RUNS INDICATED IS TO ACCORD WITH THE SPECIFICATIONS IN SFA 7th EDITION SECTION C3.1.13 TO COMPLY WITH THE REQUIREMENTS OF SFA 7th & THE WELSH MINISTERS STANDARDS.
9. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH DRAWING No. 11969/S104_555.

DISUSED SEWERS

1. EXISTING SEWERS WHICH ARE OR WILL BE DISUSED ARE TO BE TRACED, AND ANY DRAIN WHICH SHOWS SIGNS OF FLOW SHOULD BE INVESTIGATED TO ESTABLISH ITS ORIGIN AND AUTHENTICITY, AND REPORTED TO THE ENGINEER.

ABANDONMENT OF SEWERS

2. NO SEWER SHALL BE ABANDONED UNTIL THE CONTRACTOR HAS CONFIRMED THAT THERE ARE NO LIVE CONNECTIONS REMAINING.
3. NO CONSTRUCTION WORKS SHALL COMMENCE OVER OR WITHIN 6 METRES OF ANY SEWER THAT IS TO BE ABANDONED UNTIL THAT SEWER HAS BEEN FILLED AND SEALED WITH PFA/OPC GROUT TO THE SATISFACTION OF THE HIGHWAY AUTHORITY.
4. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE COST OF REMOVING ANY GROUT THAT HAS ACCIDENTALLY OR OTHERWISE AFFECTED ANY SEWER/DRAIN THAT IS NOT TO BE ABANDONED.
5. SEWER GROUTING SHALL CONSIST OF PFA MIXED WITH OPC RATIO 20:1 TO ENSURE A MIX THAT CAN BE PUMPED INTO THE SEWER. MIX STRENGTH 0.7 N/mm SQ. AT 28 DAYS.
6. ENDS OF THE SEWER SHALL BE SEALED WITH 225mm THICK BRICKWORK WALLS WITH SUITABLE PIPE CONNECTIONS FOR GROUT INJECTION. SACRIFICIAL STOPPERS MAY BE USED ON SMALL DIAMETER SEWERS.
7. SEWERS/DRAINS LESS THAN 7m IN DEPTH MAY BE "GRUBBED-UP" AND REMOVED.

LEGEND

- BLOCK PAVING TO ARCHITECTS DETAILS WITH TYPE EF EDGING TO SURROUND
- TRADITIONAL BLOCK PAVING/SERVICE CORRIDOR
- 80mm PERMEABLE PAVING SYSTEM WITH GEO-CELLULAR PERMAVOID SYSTEM
- GRASSED AREAS TO LANDSCAPE ARCHITECTS DETAILS
- RAINGARDEN

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS ARE SHOWN IN METRES UNLESS NOTED OTHERWISE.
3. DO NOT SCALE FROM THE DRAWING. USE FIGURED DIMENSIONS ONLY.
4. ANY DISCREPANCIES TO BE REPORTED IMMEDIATELY TO THE ENGINEER.
5. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS, SUBCONTRACTORS AND SPECIALISTS DRAWINGS AND SPECIFICATIONS.
6. EXISTING SERVICES HAVE NOT BEEN SHOWN BUT ARE PRESENT - THE CONTRACTOR IS TO LIAISE WITH ALL STATUTORY AUTHORITIES PRIOR TO THE COMMENCEMENT OF ANY WORKS.

DRAINAGE LEGEND

- COMBINED SEWER DRAINAGE
- EXISTING DRAINAGE TO BE ABANDONED
- PROPOSED SURFACE WATER DRAINAGE WITH PIPE SIZE AND GRADIENT (SEE LAYOUT)
- PROPOSED FOUL WATER DRAINAGE WITH PIPE SIZE AND GRADIENT (SEE LAYOUT)
- DENOTES PRIVATE FW DRAINAGE
- DENOTES PRIVATE SW DRAINAGE
- PROPOSED RAINWATER PIPE
- PROPOSED WATER BUTT
- PROPOSED SOIL & VENT PIPE
- PROPOSED STUB STACK
- PROPOSED FLOOR OUTLET
- PROPOSED BACK INLET GULLY
- RODDING EYE
- PROPOSED ROAD GULLY
- PROPOSED EASEMENT ZONE
- DENOTES FLOW CONTROL CHAMBER WITH ORIFICE PLATE
- FRENCH DRAIN
- PERFORATED SUMP DRAIN
- LINE DRAINAGE SYSTEM ACO NK100S OR SIMILAR APPROVED WITH RODDING ACCESS AND SUMP OUTLET

EXISTING DRAINAGE LEGEND

- EXISTING SURFACE WATER DRAINAGE
- EXISTING FOUL/COMBINED SEWER DRAINAGE
- EXISTING EASEMENT ZONE

09	AA	AA	SH	LR	All Surface Water Drainage amended to suit SAB adoption.
08	AA	AA	SH	LR	Drainage to suit new architects layout. New foul manholes on existing foul pipe run through site.
07	RGP	LR	JM	JM	Foul drainage amended to Architects Comments & F2-1 omitted
06	RGP	LR	JM	JM	Foul drainage amended to DCWW Comments.
05	RGP	LR	JM	JM	Foul drainage amended to DCWW Comments.
04	RGP	LR	JM	JM	Amended to suit Site arises.
03	RGP	LR	JM	JM	Amended to comments received from DCWW
02	RGP	LR	JM	JM	Highway Drainage non-adoptable
rev.	drawn	checked	approved	date	description

Client
MERTHYR VALLEYS HOMES

Project
DEVELOPMENT AT ANEURIN CRESCENT MERTHYR TYDFIL

Title
S104 AGREEMENT DRAINAGE LAYOUT

Vale Consultancy
CONSULTING CIVIL & STRUCTURAL ENGINEERS
29 Bocam Park, Old Field Road, Pencoed, Bridgend CF35 5LJ.
Phone: 01656 863794 Email: enquiries@vale-consultancy.co.uk

date	drawn	checked	approved
25.03.21	RGP	LR	JM
scale @ A1	project no.		
1:200	11969		
status	drw. no.	rev.	
P	11969/S104_550	09	

DRAWING STATUS
A - Approval, AB - As-Built, C - Construction, D - Draft, P - Preliminary, T - Tender