

Manhole Number	Cover Level	Connections	Pipe			Manhole Size	Types	
			Pipework	Inverts	Diams		Manhole	Cover
F1	23.850		1 CLAY	23.050	100	450	LD PPIC	A15 475Ø
E. 249225.671	0.850							
N. 338075.814								
F2	23.779		1 CLAY 2 CLAY	22.924 22.974	150 100	450	LD PPIC	A15 475Ø
E. 249225.673	0.855							
N. 338081.919								
F3	23.625		1 CLAY 2 CLAY 3 CLAY	22.867 22.911 22.911	150 100 100	450	LD PPIC	A15 475Ø
E. 249225.675	0.758							
N. 338087.647								
F4	23.550		1 CLAY	22.781	150	450	LD PPIC	A15 475Ø
E. 249225.648	0.769							
N. 338096.243								
F5	23.626		1 CLAY	22.668	150	450	LD PPIC	A15 475Ø
E. 249214.645	0.958							
N. 338098.967								
F6	23.709		1 CLAY 2 CLAY	22.597 22.647	150 100	450	LD PPIC	A15 475Ø
E. 249207.586	1.112							
N. 338099.257								
F7	23.694		1 CLAY	22.530	150	450	LD PPIC	A15 475Ø
E. 249200.867	1.164							
N. 338099.078								
F8	23.753		1 CLAY 2 CLAY 3 CLAY	22.304 22.354 22.354	150 100 100	1050	TYPE B CONC	B125 600x600
E. 249200.858	1.449							
N. 338076.511								
F9	23.664		1 CLAY	22.155	150	1050	TYPE B CONC	B125 600x600
E. 249200.839	1.509							
N. 338061.586								
F10	23.806		1 CLAY 2 CLAY 3 CLAY	21.813 21.863 21.863	150 100 100	1200	TYPE B CONC	B125 600x600
E. 249209.419	1.993							
N. 338055.168								
F11	21.500		1 CLAY	20.792	150	450	HD PPIC	C250 600x600
E. 249191.688	0.708							
N. 338045.051								
F12	18.300		1 CLAY	17.296	150	450	HD PPIC	C250 600x600
E. 249150.905	1.004							
N. 337998.267								
F13	23.634		1 CLAY	22.734	150	450	HD PPIC	C250 600x600
E. 249259.202	0.900							
N. 338026.431								
F14	23.663		1 CLAY	22.309 22.442	150 150	1050	TYPE B CONC	B125 600x600
E. 249252.263	1.354							
N. 338030.424								

Manhole Number	Cover Level	Connections	Pipe			Manhole Size	Types	
			Pipework	Inverts	Diams		Manhole	Cover
F15	23.637		1 CLAY 2 CLAY	22.172 22.222	150 100	1050	TYPE B CONC	B125 600x600
E. 249240.079	1.465							
N. 338036.595								
F16	23.776		1 CLAY 2 CLAY	22.013 22.063	150 100	1050	TYPE B CONC	B125 600x600
E. 249226.693	1.763							
N. 338045.173								
F17	23.760		1 CLAY 2 CLAY	22.910 22.910	100 100	450	LD PPIC	A15 475Ø
E. 249250.595	0.900							
N. 338065.299								
F18	23.786		1 CLAY	22.767	150	450	LD PPIC	A15 475Ø
E. 249257.029	1.019							
N. 338061.551								
F19	23.822		1 CLAY 2 CLAY	22.648 22.698	150 100	450	LD PPIC	A15 475Ø
E. 249257.056	1.174							
N. 338049.603								
F20	23.847		1 CLAY 2 CLAY	22.531 22.581	150 100	1050	TYPE B CONC	B125 600x600
E. 249257.009	1.316							
N. 338037.904								

Manhole Number	Cover Level	Connections	Pipe			Manhole Size	Types	
			Pipework	Inverts	Diams		Manhole	Cover
S1	23.633					450	LD PPIC	A15 475Ø
E. 249199.662	0.648							
N. 338097.350								
S2	23.550		1 CLAY	22.608	150	450	LD PPIC	A15 475Ø
E. 249199.664	0.942							
N. 338059.665								
S3	23.679		CLAY			450	LD PPIC	A15 475Ø
E. 249231.422	0.679							
N. 338041.323								
S4	23.718		1 CLAY 2 CLAY	22.755 22.486	100 150	450	LD PPIC	A15 475Ø
E. 249210.236	1.232							
N. 338053.560								
S5	22.909		1 CLAY	22.400	150	450	LD PPIC	A15 475Ø
E. 249206.462	0.509							
N. 338047.019								
S6	22.582		1 CLAY	22.000	300	450	LD PPIC	A15 475Ø
E. 249246.475	0.582							
N. 338000.061								
S7	20.975		1 CLAY	20.000	300	450	HD PPIC	C250 600x600
E. 249243.249	0.975							
N. 337994.160								

Manhole Number	Cover Level	Connections	Pipe			Manhole Size	Types	
			Pipework	Inverts	Diams		Manhole	Cover
S8	19.760		1 CLAY	18.660	150	1500	FC MH CONC	C250 1220x675
E. 249198.476	1.600 (300mm Sump)							
N. 337982.812								
S9	17.410		1 CLAY 2 CLAY 3 CLAY	16.245 16.245 16.245	300 150 150	1200	TYPE B CONC	B125 600x600
E. 249137.344	1.165							
N. 337984.661								
S10	23.624		CLAY			450	LD PPIC	A15 475Ø
E. 249227.888	0.524							
N. 338085.033								
S11	23.676		1 CLAY	23.055	100	450	LD PPIC	A15 475Ø
E. 249227.880	0.621							
N. 338079.635								
S12	23.625		CLAY			1050	SOAK AWAY	D400 600x600
E. 249266.253	1.125 (300mm Sump)							
N. 338063.024								
S13	23.747		1 CLAY 2 CLAY	22.785 22.785	150 150	1050	TYPE B CONC	B125 600x600
E. 249258.441	0.962							
N. 338061.995								
S14	25.407		1 CLAY	24.072	100	1050	SOAK AWAY	D400 600x600
E. 249293.348	1.635 (300mm Sump)							
N. 338031.984								
S15	25.438		1 CLAY	23.971	100	1050	TYPE B CONC	B125 600x600
E. 249290.984	1.467							
N. 338026.487								
S16	24.157		1 CLAY 2 CLAY	22.600 22.600	100 150	1050	TYPE B CONC	B125 600x600
E. 249267.106	1.557							
N. 338035.831								
S17	22.885		1 CLAY	22.400	150	450	LD PPIC	A15 475Ø
E. 249256.916	0.485							
N. 338018.138								

NOTES

- ALL LEVELS AS SHOWN ARE AS PER TOPOGRAPHICAL SURVEY.
- CONSTRUCTION AND TESTING OF DRAINS AND SEWERS TO COMPLY WITH BS EN 1610. CONTRACTOR SHALL NOTE THAT TOLERANCES OF + OR - 5% OF THE PIPES INTERNAL DIAMETER MUST BE ACHIEVED UP TO A MAXIMUM OF 20mm
- FOR MANHOLE CONSTRUCTION INFORMATION REFER TO STANDARD DETAILS DRAWINGS.
- PRECAST MANHOLES SHALL COMPLY WITH BS EN 1917
- POLYPROPYLENE CHAMBERS TO COMPLY WITH BS 7158.
- BRICKWORK CHAMBERS WILL TO BE CONSTRUCTED FROM CLASS B ENGINEERING BRICKS COMPLYING WITH BS 3921. BRICKS SHALL ALSO BE FROST-RESISTANT CATEGORY F.
- CLAY PIPES TO COMPLY TO BS EN 295
- CONCRETE PIPES TO COMPLY TO BS EN 1916
- TYPE OF PIPE "PERF" REFERS TO PERFORATED FILTER DRAINS TO COMPLY TO BS 4962.
- PLASTIC PIPE ALTERNATIVES IN NON-AGGRESSIVE SOIL CONDITIONS PLASTIC PIPE ALTERNATIVES WILL BE DEEMED ACCEPTABLE IF THE CONTRACTOR INTENDS TO USE PLASTIC PIPEWORK IN ACCORDANCE WITH BS 4660 - THE FOLLOWING STANDARDS WILL BE REQUIRED:
DRAINAGE CONNECTIONS OF LESS THAN 150Ø SHALL BE SOLID WALL uPVC PIPES COMPLYING WITH BS EN 1401-1
PIPE SIZES 150-900Ø (TO BE USED IN FOUL OR COMBINED FLOW DRAINAGE SYSTEMS) SHALL BE THERMOPLASTIC STRUCTURED WALL PIPE COMPLYING WITH WIS 4-35-01
PIPE SIZES 150-900Ø (TO BE USED IN SURFACE WATER DRAINAGE SYSTEMS) SHALL BE THERMOPLASTIC STRUCTURED WALL PIPES WITH BBA & HAPAS ACCREDITATION.
- THE CONTRACTOR SHALL SUBMIT DETAILS OF THE PROPOSED PLASTIC PRODUCTS FOR APPROVAL BY THE ENGINEER.
- THE CONTRACTOR SHALL ALSO NOTE THAT CONNECTIONS TO PUBLIC SEWERS & MATERIALS USED IS SUBJECT TO AGREEMENT WITH THE ADOPTING AUTHORITY AND THE CONTRACTOR SHALL THEREFORE ASSUME THAT TRADITIONAL MATERIALS MUST BE USED UNLESS EXPRESSIVELY INFORMED OTHERWISE.
- MOULDED PPIC BASES HAVE A CAST IN SLOPE OF 20mm ACROSS THE MAIN CHANNEL AND A STEP OF 75mm FROM THE MAIN CHANNEL TO INCOMING BRANCHES WHERE PPIC MANHOLES ARE SHOWN. LEVELS HAVE BEEN CALCULATED TO REFLECT THE SLOPE / STEP AS NECESSARY.
- MOULDED MINI PPIC BASES HAVE A CAST IN SLOPE OF 20mm ACROSS THE MAIN CHANNEL AND A STEP OF 35mm FROM THE MAIN CHANNEL TO INCOMING BRANCHES. WHERE MINI PPIC MANHOLES ARE SHOWN, LEVELS HAVE BEEN CALCULATED TO REFLECT THE SLOPE / STEP AS NECESSARY.

P04	UPDATED TO LATEST LAYOUT	RAH	MM	JP	24.05.2021
P03	DIVERSION MANHOLES ADDED	MNM	RAH	JP	21.01.2021
P02	SEWER TREATMENT SYSTEM ADDED	MNM	RAH	JP	20.01.2021
P01	PRELIMINARY ISSUE	MN	RAH	JP	20.11.2020
REV	DESCRIPTION	BY	CHK	APR	DATE

JP Structural Design

PURPOSE OF ISSUE	STATUS	
PRELIMINARY	S1	
PROJECT		
YSGOL TREFERTHYR CRICCIETH		
TITLE		
PROPOSED DRAINAGE MANHOLE SCHEDULES		
CLIENT		
CYNGOR GWYNNEDD		
DRAWN BY	CHECKED BY	APPROVED BY
RH	MM	JP
DATE	SCALE (@ A1)	PROJECT NUMBER
20.11.2020	1:250	14016
DRAWING NUMBER		REV
YTC-JPS-XX-XX-DR-C-0506		P04