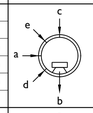
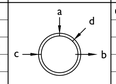
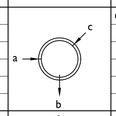
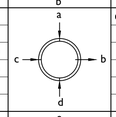
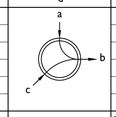
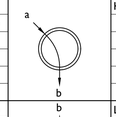
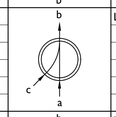
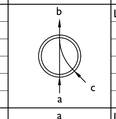
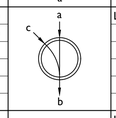
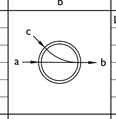
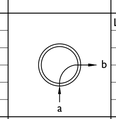
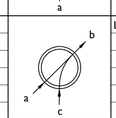
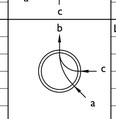
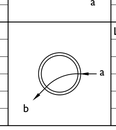
SURFACE WATER MANHOLES

MH Ref.	MANHOLE DETAILS							COVER DETAILS		PIPE DETAILS				MANHOLE LAYOUT	COMMENTS / DETAILS
	Internal Size	Type			Levels		Depth (m)	BS EN 124 Cover Ref.	Cover Size Clear Opening	Type of Pipe	Size In	Size Out	Invert Level		
		Brick	Conc	PPIC	Cover	Invert									
SMH 1.0	1350Ø		*		33.600	30.695	2.905	D400	1220x675	CLAY	225a		31.195		TYPE B - FC, TYPE B MANHOLE
	TYPE B - FC					(base)				CLAY		150b	31.195		WITH FLOW CONTROL DEVICE
										CLAY	150c		32.800		LIMITED TO 5 l/s @ 0.8m HEAD
										CLAY	100d		32.800		
										CLAY	100e		32.800		
SMH 1.1	1200Ø		*		33.350	30.985	2.365	C250	600x600	CLAY	225a		31.285		CATCHPIT WITH 300mm SUMP
	TYPE B - CP					(base)				CLAY		225b	31.285		
										CLAY	150c		31.360		
										CLAY	100d		31.410		
SMH 1.2	1200Ø		*		33.450	31.120	2.330	C250	600x600	CLAY	225a		31.420		CATCHPIT WITH 300mm SUMP
	TYPE B - CP					(base)				CLAY		225b	31.420		
										CLAY	150c		31.495		
SMH 1.3	1200Ø		*		33.450	31.225	2.225	C250	600x600	CLAY	225a		31.525		CATCHPIT WITH 300mm SUMP
	TYPE B - CP					(base)				CLAY		225b	31.525		
										CLAY	150c		31.600		
										CLAY	150d		31.600		
SMH 1.4	1050Ø		*		33.300	32.025	1.275	C250	600x600	CLAY	150a		32.025		
										CLAY		150b	32.025		
										CLAY	150c		32.025		
SMH 1.5	475Ø			*	33.250	32.250	1.000	C250	600x600	CLAY	150a		32.325		HD, HEAVY DUTY PPIC DETAIL
	HD									CLAY		150b	32.250		
SMH 1a	475Ø			*	33.350	32.500	0.850	A15	475Ø	CLAY	100a		32.520		LD, LIGHT WEIGHT PPIC DETAIL
	LD									CLAY		150b	32.500		
										CLAY	100c		32.575		
SMH 1b	475Ø			*	33.350	32.500	0.850	A15	475Ø	CLAY	100a		32.520		LD, LIGHT WEIGHT PPIC DETAIL
	LD									CLAY		150b	32.500		
										CLAY	100c		32.575		
SMH 2.0	475Ø			*	33.700	33.000	0.700	A15	475Ø	CLAY	100a		33.020		LD, LIGHT WEIGHT PPIC DETAIL
	LD									CLAY		150b	33.000		
										CLAY	100c		33.075		
SMH 3.0	475Ø			*	33.350	32.600	0.750	A15	475Ø	CLAY	100a		33.020		LD, LIGHT WEIGHT PPIC DETAIL
	LD									CLAY		150b	33.000		
										CLAY	100c		33.075		
SMH 4.0	475Ø			*	33.450	32.600	0.850	A15	475Ø	CLAY	100a		32.675		LD, LIGHT WEIGHT PPIC DETAIL
	LD									CLAY		150b	32.600		
SMH 5.0	475Ø			*	33.350	32.490	0.860	A15	475Ø	CLAY	150a		32.510		LD, LIGHT WEIGHT PPIC DETAIL
	LD									CLAY		150b	32.490		
										CLAY	100c		32.565		
SMH 5.1	475Ø			*	33.350	32.600	0.750	A15	475Ø	CLAY	150a		32.675		LD, LIGHT WEIGHT PPIC DETAIL
	LD									CLAY		150b	32.600		
										CLAY	100c		32.675		
SMH 6.0	475Ø			*	33.425	32.750	0.675	A15	475Ø	CLAY	100a		32.825		LD, LIGHT WEIGHT PPIC DETAIL
	LD									CLAY		150b	32.750		

NOTES

1. ALL LEVELS AS SHOWN ARE AS PER TOPOGRAPHICAL SURVEY.

2. 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 UPTO A MAXIMUM OF 20mm

3. FOR MANHOLE CONSTRUCTION INFORMATION REFER TO STANDARD DETAILS DRAWINGS.

4. PRECAST MANHOLES SHALL COMPLY WITH BS EN 1917

5. POLYPROPYLENE CHAMBERS TO COMPLY WITH BS 7158.

6. BRICKWORK CHAMBERS WILL TO BE CONSTRUCTED FROM CLASS B ENGINEERING BRICKS COMPLYING WITH BS 3921. BRICKS SHALL ALSO BE FROST-RESISTANT CATEGORY F.

7. CLAY PIPES TO COMPLY TO BS EN 295

8. CONCRETE PIPES TO COMPLY TO BS EN 1916

9. TYPE OF PIPE "PERF" REFERS TO PERFORATED FILTER DRAINS TO COMPLY TO BS 4962.

10. PLASTIC PIPE ALTERNATIVES
IN NON-AGRESSIVE 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.

11. 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.

12. 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.

13. 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.

REV	DESCRIPTION	BY	CHK	APR	DATE
-	-	-	-	-	-

JPS CIVIL + STRUCTURAL ENGINEERS
+44 (0)1244 893430 | www.jpstructural.co.uk | info@jpstructural.co.uk

PURPOSE OF ISSUE: PRELIMINARY
STATUS: P

PROJECT: FORMER GREENFINCH PUBLIC HOUSE
LAPWING LANE
DIDSBURY

TITLE: DRAINAGE SCHEME
SW MANHOLE SCHEDULE

CLIENT: Churchill Retirement Living

DRAWN BY	CHECKED BY	APPROVED BY
RH	MM	JP
DATE	SCALE (@ A1)	PROJECT NUMBER
31.03.2026	NTS	90023
DRAWING NUMBER		REV
0604		P01