PLOT 1 Manhole Schedule:

MANHOLE	COVER LEVEL (m)	INVERT LEVEL (m)	MH DEPTH (m)	MH TYPE & DIA. (mm)	COVER CLASS
FWMH 1	2.135	1.640	0.495	Type "1" PCC-300mmØ	B125
FWMH 2	2.215	1.563	0.652	Type "2" PCC-300mmØ	C250
FWMH 3	2.215	1.400	0.815	Type "1" PCC-475mmØ	C250
FWMH 4	2.195	1.480	0.655	Type "1" PCC-475mmØ	B125
FWMH 5	2.500 TBC	1.320	1.180	Type "1" PCC-475mmØ	B125
SWMH 1	2.325 TBC	1.000	1.180	Type "2" PCC-475mmØ	C250
SWMH 2	2.200	1.022	1.178	Type "1" PCC-475mmØ	B125
SWMH 3	2.135	1.060	1.075	Type "1" PCC-475mmØ	B125
SWMH 4	2.135	1.905	1.030	Type "1" PCC-475mmØ	B125
SWMH 5	2.300 TBC	1.169	1.131	Type "1" PCC-475mmØ	B125
SWMH 6	2.140	1.069	1.071	Type "2" PCC- mmØ	C250

PLOT 2 Manhole Schedule:

MANHOLE	COVER LEVEL (m)	INVERT LEVEL (m)	MH DEPTH (m)	MH TYPE & DIA. (mm)	COVER CLASS
FWMH 1	2.135	1.775	0.360	Type "1" PCC-300mmØ	B125
FWMH 2	2.135	1.670	0.465	Type "1" PCC-300mmØ	B125
FWMH 3	2.135	1.495	0.640	Type "1" PCC-475mmØ	B125
FWMH 4	2.215	1.400	0.815	Type "1" PCC-475mmØ	B125
FWMH 5	2.230 TBC	1.270	0.960	Type "2" PCC-475mmØ	C250
FWMH 6	2.575 TBC	1.205	1.370	Type "2" PCC-475mmØ	C250
SWMH 1	2.350	1.000	1.350	Type "2" PCC-475mmØ	C250
SWMH 2	2.150	1.010	1.140	Type "2" PCC-475mmØ	C250
SWMH 3	2.135	1.040	1.095	Type "1" PCC-475mmØ	B125
SWMH 4	2.135	1.115	1.020	Type "1" PCC-475mmØ	B125

PLOT 3 Manhole Schedule:

MANHOLE	COVER LEVEL (m)	INVERT LEVEL (m)	MH DEPTH (m)	MH TYPE & DIA. (mm)	COVER CLASS
FWMH 1	2.135	1.700	0.435	Type "1" PCC-300mmØ	B125
FWMH 2	2.135	1.595	0.540	Type "1" PCC-300mmØ	B125
FWMH 3	2.135	1.420	0.715	Type "1" PCC-475mmØ	B125
FWMH 4	2.215	1.325	0.890	Type "1" PCC-475mmØ	B125
FWMH 5	2.230 TBC	1.195	1.035	Type "2" PCC-475mmØ	C250
FWMH 6	2.575 TBC	1.130	1.445	Type "2" PCC-475mmØ	C250
SWMH 1	2.590	1.037	1.553	Type "2" PCC-475mmØ	C250
SWMH 2	2.150	1.010	1.140	Type "2" PCC-475mmØ	C250
SWMH 3	2.135	1.040	1.095	Type "1" PCC-475mmØ	B125
SWMH 4	2.135	1.115	1.020	Type "1" PCC-475mmØ	B125

PLOT 2 Manhole Schedule:

MANHOLE	COVER LEVEL (m)	INVERT LEVEL (m)	MH DEPTH (m)	MH TYPE & DIA. (mm)	COVER CLASS
FWMH 1	2.135	1.775	0.360	Type "1" PCC-300mmØ	B125
FWMH 2	2.135	1.670	0.465	Type "1" PCC-300mmØ	B125
FWMH 3	2.135	1.495	0.640	Type "1" PCC-475mmØ	B125
FWMH 4	2.215	1.400	0.815	Type "1" PCC-475mmØ	B125
FWMH 5	2.230 TBC	1.270	0.960	Type "2" PCC-475mmØ	C250
FWMH 6	2.575 TBC	1.205	1.370	Type "2" PCC-475mmØ	C250
SWMH 1	2.350	1.000	1.350	Type "2" PCC-475mmØ	C250
SWMH 2	2.150	1.010	1.140	Type "2" PCC-475mmØ	C250
SWMH 3	2.135	1.040	1.095	Type "1" PCC-475mmØ	B125
SWMH 4	2.135	1.115	1.020	Type "1" PCC-475mmØ	B125

PLOT 5 Manhole Schedule:

MANHOLE	COVER LEVEL (m)	INVERT LEVEL (m)	MH DEPTH (m)	MH TYPE & DIA. (mm)	COVER CLASS
FWMH 1	2.135	1.775	0.360	Type "1" PCC-300mmØ	B125
FWMH 2	2.135	1.680	0.455	Type "1" PCC-300mmØ	B125
FWMH 3	2.135	1.515	0620	Type "1" PCC-475mmØ	B125
FWMH 4	2.135	1.415	0720	Type "1" PCC-475mmØ	B125
FWMH 5	2.550 TBC	1.275	1.275	Type "1" PCC-475mmØ	B125
SWMH 1	2.550 TBC	1.185	1.315	Type "1" PCC-475mmØ	C250
SWMH 2	2.150	1.020	1.130	Type "2" PCC-475mmØ	C250
SWMH 3	2.200	1.075	1.125	Type "1" PCC-475mmØ	B125
SWMH 4	2.150	1.110	1.040	Type "1" PCC-475mmØ	B125
SWMH 5	2.100	1.165	0.935	Type "1" PCC-475mmØ	B125

KEY

- FOUL WATER DRAIN & MANHOLE
- SURFACE WATER DRAIN & MANHOLE
- ST — SILT TRAP SHAFT 500MMØ PROPRIETARY RIBBED DUCTING CAST INTO BASE BY 40MM AQUACELL 618600 O.S.A.
- ORIFICE UNPROTECTED ORIFICE 500Ø UPVC FLOW CONTROL CHAMBER DESIGNED WITH RESTRICTED ORIFICE PLATE
- RE — RODDING EYE
- ALTHON 150 HDPE/SS FLAP VALVE REINFORCED CONCRETE HEADWALL WITH

ALTHON 150 HDPE/SS FLAP VALVE SPECIFICATION INFORMATION:

- THE VALVE PLATE AND THE BACK PLATE ARE PRODUCED USING HDPE/SS
- THE HINGE PIN AND BALLAST WEIGHT ARE PRODUCED IN SS316 AS STANDARD
- THE BALLAST WEIGHT CAN BE EASILY ADJUSTED IF REQUIRED
- THE SEALING ARRANGEMENT CONSISTS OF AN EPDM LIPS SEAL IN THE BACK PLATE
- THE VALVE PLATE IS ALSO INSTALLED ON AN ANGLE IN RELATION TO THE BACK PLATE TO ENSURE A GOOD SEAL

MATERIAL: HDPE, SS316, EPDM
OPENING: Ø160mm
MAX LOAD FROM BOTTOM INVERT LEVEL (B.I.): 13MWC LONG PERIOD (>50 YEARS) 5MWC SHORT PERIOD (<72HOURS)
NUMBER OF CHEMICAL ANCHORS M8: 4No. PIECES

NOTE:
REFER TO PCC CONSULTANTS LTD DRAWING NUMBER 10109/PD/02 & /03 FOR SURFACE WATER DRAINAGE TYPICAL DETAILS.



PROPOSED ATTENUATED SW & FW GENERAL ARRANGEMENT PLAN (SCALE 1:100)

CONTROL				
Name	Easting	Northing	Height	Remark
1	530966.112	312165.051	2.873	PK Nail
2	531020.458	312148.854	2.550	PK Nail
100	530930.999	312182.638	2.863	PK Nail

GENERAL NOTES

1. ALL EXISTING DRAINAGE NOT BEING REUSED TO BE GRUBBED OUT.

2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.

3. SHOULD THERE BE ANY CONFLICT BETWEEN THE DETAILS INDICATED ON THIS DRAWING AND THOSE INDICATED ON OTHER DRAWINGS THE ENGINEER SHOULD BE INFORMED PRIOR TO CONSTRUCTION ON SITE.

4. UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT AUTHORITY, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ISSUED ARE PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR COMMENCE SITE WORK PRIOR TO SUCH APPROVAL BEING GIVEN, IT IS ENTIRELY AT HIS OWN RISK.

5. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

6. THE RISK ASSESSMENTS FOR THIS PROJECT MUST BE REVIEWED PRIOR TO THE COMMENCEMENT OF ANY WORKS ON SITE.

7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXECUTE THE WORKS AT ALL TIMES IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE HEALTH AND SAFETY AT WORK ACT 1974, AND THE C.D.M. REGULATIONS 2007.

8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ANY SERVICE APPARATUS IN THE VICINITY OF THE WORKS. THE CLIENT WILL ACCEPT NO CLAIMS WHATSOEVER IN RESPECT OF LOSSES OR DAMAGE CAUSED IN RESPECT OF SUCH APPARATUS, HOWEVER CAUSED.

9. THE CONTRACTOR SHALL CHECK ALL TIE-INS FOR LINE AND LEVEL WITH EXISTING BEFORE COMMENCING ANY WORKS. THE ENGINEER SHOULD BE NOTIFIED IMMEDIATELY IN WRITING, SHOULD ANY ERRORS BE FOUND.

10. ALL LEVELS ARE RELATED TO ORDNANCE DATUM.

11. ALL PRIVATE DRAINAGE WORKS TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF BUILDING REGULATIONS 2000, PART H, "DRAINAGE AND WASTE DISPOSAL".

12. PIPES WITH LESS THAN 600MM COVER ARE TO BE PROTECTED IN ACCORDANCE WITH PART H.

13. ALL PIPES, CHAMBERS AND FITTINGS TO BE INSTALLED, BEDDED AND BACKFILLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.

14. PIPE WHICH RUN ADJACENT TO BUILDINGS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH PART H, CLAUSES 2.23 TO 2.25.

15. ALL DRAINS IN THE VICINITY OF EXISTING OR PROPOSED TREES TO BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF CURRENT NHBC STANDARDS.

16. ALL EXISTING LAND DRAINS ENCOUNTED ON SITE DURING CONSTRUCTION TO BE RE-CONNECTED.

17. SHOULD ANY CHANGE IN SLAB LEVEL BE CONSIDERED, AGREEMENT SHALL BE SOUGHT FROM THE CLIENTS ENGINEER PRIOR TO COMMENCEMENT AND SHALL TAKE FULL ACCOUNT OF ALL RESTRICTIONS TO THE SLAB LEVEL.

18. THE LAYOUT OF PIPELINES, MANHOLES ETC. IS DESIGNED TO SUIT THE PERMANENT CASE. ADDITIONAL LOADS OVER & ABOVE THOSE DESIGNED FOR MAY ARISE DURING THE CONSTRUCTION PROCESS. THE CONTRACTOR SHALL PROVIDE ANY NECESSARY TEMPORARY PROTECTION TO ENSURE THAT PIPELINES, MANHOLES ETC. ARE NOT DAMAGED AS A RESULT OF HIS METHOD OF WORKING.

19. ALL PROPOSED PRIVATE DRAINAGE TO BE 150Ø PIPEWORK UNLESS NOTED OTHERWISE. SW LAID AT 1:100, FW LAID AT 1:80, EXCEPT:-

19.1. PIPEWORK FROM GULLYS AND SUMP UNITS TO BE 150Ø LAID AT 1:150, UNLESS STATED OTHERWISE.
19.2. WHERE STATED OTHERWISE
19.3. DOWNSTREAM OF LARGER PIPEWORK.

20. ALL RWP'S TO HAVE RODDABLE ACCESS AND TO BE LOCATED BY THE ARCHITECT.

TEMPORARY WORKS

1) THE MAIN CONTRACTOR WILL BE RESPONSIBLE FOR ALL TEMPORARY WORKS. A SPECIALIST SUBCONTRACTOR SHOULD BE APPOINTED TO DESIGN AND INSTALL ALL TEMPORARY WORKS TO ADEQUATELY SUPPORT ALL APPLIED LOADS.
2) THE CONTRACTOR SHALL TAKE ALL APPROPRIATE MEASURES TO AVOID CAUSING INSTABILITY OR DAMAGE TO EXISTING STRUCTURES, SURFACE FINISHES ETC.

CONCRETE WORKS

1) ALL REINFORCED CONCRETE TO BE GRADE PAV2 MIX - IN ACCORDANCE WITH BS 8500/PART 1
2) ALL CONCRETE SHALL BE IN ACCORDANCE WITH BS 8500/PART 2 & BS EN 206-1.
3) ALL BAR REINFORCEMENT SHALL BE TO BS 8666: 2000
ALL FABRIC REINFORCEMENT SHALL BE TO BS 4483:1998 AND MINIMUM LAP LENGTH SHALL BE 450 MM.
4) ALL REINFORCEMENT SHALL BE SUFFICIENTLY SUPPORTED, POSITIONED AND RESTRAINED USING PROPRIETARY CHAIRS AND SPACERS TO ACHEVE THE REQUIRED COVER.
5) THE CONCRETE COVER REQUIREMENTS SHALL BE MINIMUM 40 MM TO ALL REINFORCEMENT (UNO). IF CAST WITHIN FORMWORK COVER SHALL BE MIN. 75MM IF CAST AGAINST GROUND.

EXCAVATIONS AND FILLING

1. ALL TRENCHES AND PITS EXCAVATED FOR THE CONSTRUCTION OF DRAINAGE AND FOUNDATIONS MUST BE ADEQUATELY SUPPORTED AT ALL TIMES TO SAFEGUARD THE STABILITY OF ADJACENT STRUCTURES AND PLANT AND THE SAFETY AND WELFARE OF SITE OPERATIVES.
2. ALL WORK IN OPEN EXCAVATIONS AND CONFINED SPACES SHALL BE CARRIED OUT IN ACCORDANCE WITH CURRENT HEALTH AND SAFETY REGULATIONS.
3. ALL STONE FILL SHALL BE CLEANED, WELL GRADED, CRUSHED STONE, 50 MM DOWN AND SHALL BE LAID AND COMPACTED IN LAYERS NOT EXCEEDING 150 MM THICKNESS.

NOTE:
CONCRETE GRADES :-

MASS CONCRETE: C16/20
BLINDING CONCRETE C16/20

CONCRETE FINISHES VISIBLE & WATER RETAINING FACES - FAIR WORKED. ALL FACES FROM 1450MM BELOW GL - ROUGH WALL TOPS - STEEL TROWEL

NOTE:
ALL BEDDING & SURROUND TO DRAINAGE TO BE CLASS "S" UNLESS NOTED OTHERWISE - PROVIDE CLASS "Z" CONCRETE BED & SURROUND BELOW TRAFFICKED AREAS/DRIVES ETC.

REV:	DETAILS:	DATE:	BY: CHK'D
A02	APPROVAL ISSUE - INVERT LEVELS AMENDED	23.07.21	PJ P.K.
A02	APPROVAL ISSUE - LAYOUTS AMENDED	13.04.21	PJ P.K.
A01	APPROVAL ISSUE	07.04.21	PJ P.K.

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PROJECT DETAILS:
PROPOSED RESIDENTAIL DEVELOPMENT
5 DETACHED DWELLINGS
LAND SOUTH OF DROVE ROAD
SHEPEAU STOW, SPALDING
PE12 0UQ

DRAWING TITLE:
PROPOSED SW & FW DRAINAGE GENERAL ARRANGEMENT/DETAILS
PLOTS 1 - 5 (DRAWING 2 OF 2)

STATUS:
APPROVAL

DRAWN BY:	PROJECT DESIGNERS:	PAPER SIZE:
PJ	PJC	A0
DATE:	SCALE:	CHECKED:
APRIL 20	AS NOTED	PJC
DRAWING NUMBER:		REVISION:
10109/PD/02		A03