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

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.
- ORIFLO UNPROTECTED ORIFICE 500Ø UPVC FLOW CONTROL CHAMBER DESIGNED WITH RESTRICTED ORIFICE PLATE
- RE — RODDING EYE
- ALTHON H&C PRE CAST CONCRETE 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.

N

HONEY POT COTTAGE

FLOW

DENOTES EXISTING ADOPTED IDB OPEN WATER COURSE DRAIN MAINTAINED BY SOUTH HOLLAND INTERNAL DRAINAGE BOARD ALONG THE SITE BOUNDARY

1550 DITCH TOP

~0.280 DITCH INVERT EXITG

1550 DITCH TOP

1550 DITCH TOP

DISCHARGE PIPE INVERT LEVEL INTO HEADWALL = 0.800m AOD

A02

ALTHON H&C HEADWALL INSTALLATION

H&C PRE-CAST CONCRETE HEADWALL WITH 150mmØ FLAP VALVE + CRANKED GRATING, WITH KEE KLAMP BARRIER TO 3 SIDES TO PROVIDE PROTECTION FROM FALLING.

OPENING IN BACK WALL CAST TO SUIT OUTSIDE DIAMETER OF THE PIPEWORK

HEADWALL INSTALLATION
UNITS SHOULD BE BEDDED ON MINIMUM 150MM OF SEMI-DRY CONCRETE. SIT THE HEADWALL LEVEL OR WITH A SLIGHT FALL 150 FROM PIPE TO SPILL MOUTH.

FOR FULL DETAILED INSTALLATION INSTRUCTIONS CONTACT ALTHON LTD, 01603 488700
MATERIAL: REINFORCED CONCRETE WEIGHT APPROXIMATELY 1400KG

REFER TO PCC CONSULTANTS LTD DRAWING NUMBER 10109/PD /03 FOR DETAILS.

150ø uPVC SW @ 1546 concrete encased

A02

SwMH'C'
TYPE "3" MH
450Ø uPVC
Cl=2.000
IL=0.878
MH depth=1.122

A02

150ø uPVC SW @ 1546 concrete encased

A02

SwMH'B'
TYPE "3" MH
450Ø uPVC
Cl=1.800
IL=0.957
MH depth=0.843m

A02

SwMH'A'
TYPE "3" MH
450Ø uPVC
Cl=2.445
IL=1.000
MH depth=1.445m

A02

SwMH'B'
ORIFLO UNPROTECTED ORIFICE 500Ø UPVC FLOW CONTROL CHAMBER REF: OFCP500/1 DESIGNED WITH RESTRICTED ORIFICE PLATE TO PROVIDE MAXIMUM OUTFLOW OF 3 LITRES PER SECOND WITH A MAXIMUM DESIGN HEAD OF 600mm.
DESIGN TBC BY MANUFACTURER
Cl=2.445 (PROVIDE CLASS D400 COVER & FRAME)
IL=1.000 (150mmØ INLET)
IL=0.960 (150mmØ OUTLET)
IL=0.660 (SUMP IN CHAMBER)
NOTE: PROVIDE 250x250mm CAPPING TO MH COVER, MIN 150mm CONCRETE BASE & ENCASEMENT - REFER TO PCC CONSULTANTS DRAWING NUMBER 10109/PD/03 FOR DETAILS.

150ø uPVC SW @ 1546 concrete encased

A02

NOTE:
DENOTES EXISTING GROUND LEVELS - REFER TO TOPO DRAWING

100

TP

2.62

2.59

Grass Bank

2.76

312200N

312180N

312160N

312140N

530860E

530880E

530900E

530920E

530940E

CONTINUED ON PCC CONSULTANTS LTD DRAWING NUMBER 10109/PD/01

CONTINUED ON PCC CONSULTANTS LTD DRAWING NUMBER 10109/PD/01

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

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: (CHECK)
A02	INVERT LEVELS UPDATED	23.07.21	PJ / PJC
A01	APPROVAL ISSUE	07.04.21	PJ / PJC

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©

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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 1 0F 2)

STATUS:
APPROVAL

DRAWN BY:	PROJECT DESIGNERS:	PAPER SIZE:
PJ	PJC	A0
DATE:	SCALE:	CHECKED:
APRIL 20	AS NOTED	PJC

DRAWING NUMBER: 10109/PD/01 REVISION: A02