N

## SURFACE WATER MANHOLE SCHEDULE

| MH REF | EASTINGS | NORTHINGS | SIZE | CL | IL | BASE | DEPTH TO IL | DEPTH TO SOFFIT | TYPE | COVER |
|---|---|---|---|---|---|---|---|---|---|---|
| S2 | 496244.036 | 104000.831 | 1240 x 900mm | 9.769 | 8.369 | | 1.400 | 0.950 | SFA TYPE D | D400, 600 x 600 |
| S3 | 496233.319 | 104046.516 | 1240 x 900mm | 9.801 | 8.327 | | 1.474 | 1.024 | SFA TYPE C | D400, 600 x 600 |
| S4 | 496221.046 | 104033.134 | 1240 x 900mm | 9.933 | 8.282 | | 1.651 | 1.201 | SFA TYPE C | D400, 600 x 600 |
| S5 | 496218.552 | 104014.406 | 1240 x 900mm | 10.112 | 8.235 | | 1.877 | 1.427 | SFA TYPE C | D400, 600 x 600 |
| S6 | 496215.656 | 103965.849 | 1240 x 900mm | 9.792 | 8.111 | | 1.591 | 1.141 | SFA TYPE C | D400, 600 x 600 |
| S10 | 496330.884 | 104032.067 | 1240 x 900mm | 10.033 | 8.407 | | 1.626 | 1.176 | SFA TYPE C | D400, 600 x 600 |
| S11 | 496306.330 | 103963.897 | 1240 x 900mm | 9.825 | 8.228 | | 1.597 | 1.147 | SFA TYPE C | D400, 600 x 600 |
| S15 | 496209.947 | 104000.551 | 1240 x 685mm | 9.681 | 8.500 | | 1.181 | 0.881 | SFA TYPE D | D400, 600 x 600 |
| S17 | 496142.371 | 103968.842 | 900 x 675mm | 9.903 | 8.616 | | 1.287 | 1.062 | SFA TYPE C | D400, 600 x 600 |
| CONTROL MH 496298.811 | | 103941.387 | 1200mm | 9.300 | 7.956 | 7.576 | 1.724 | 1.274 | D202.20 | D400, 600 x 600 |
| HWYH1 | 496298.915 | 104088.462 | 1200mm | 9.926 | 8.766 | 8.216 | 1.610 | 1.160 | WSCC Type B Catchpit | D400, 600 x 600 |
| HWHHSA | 496317.573 | 104120.425 | 1500mm | 9.025 | 7.960 | 7.660 | 1.365 | 0.915 | WSCC Type B Catchpit | D400, 600 x 600 |
| HWYH16 | 496275.336 | 104091.148 | 1200mm | 9.588 | 8.688 | 8.138 | 1.430 | 0.980 | WSCC Type B Catchpit | D400, 600 x 600 |

## FOUL MANHOLE SCHEDULE

| MH REF | EASTINGS | NORTHINGS | SIZE | CL | IL | DEPTH TO IL | DEPTH TO SOFFIT | TYPE | COVER |
|---|---|---|---|---|---|---|---|---|---|
| F2 | 496304.423 | 104126.866 | 1200mm | 8.850 | 6.532 | 2.318 | 2.168 | SFA TYPE B | D400, 600 x 600 |
| F3 | 496289.646 | 104090.625 | 1200mm | 9.731 | 6.795 | 2.936 | 2.786 | SFA TYPE B | D400, 600 x 600 |
| F4 | 496273.729 | 104052.935 | 1200mm | 9.567 | 6.902 | 2.665 | 2.515 | SFA TYPE B | D400, 600 x 600 |
| F5 | 496263.078 | 104004.885 | 1200mm | 9.684 | 6.991 | 2.693 | 2.543 | SFA TYPE B | D400, 600 x 600 |
| F6 | 496237.864 | 104048.632 | 1200mm | 9.737 | 7.285 | 2.452 | 2.302 | SFA TYPE B | D400, 600 x 600 |
| F7 | 496222.486 | 104032.888 | 1200mm | 9.935 | 7.432 | 2.503 | 2.353 | SFA TYPE B | D400, 600 x 600 |
| F8 | 496215.720 | 104005.839 | 1200mm | 10.078 | 7.587 | 2.491 | 2.341 | SFA TYPE B | D400, 600 x 600 |
| F9 | 496218.163 | 103971.854 | 1200mm | 9.790 | 7.840 | 1.950 | 1.800 | SFA TYPE B | D400, 600 x 600 |
| F16 | 496218.690 | 104063.324 | 1200mm | 9.409 | 8.059 | 1.350 | 1.200 | SFA TYPE B | D400, 600 x 600 |
| F20 | 496306.757 | 103971.182 | 1200mm | 9.840 | 7.600 | 2.240 | 2.090 | SFA TYPE B | D400, 600 x 600 |
| F21 | 496328.826 | 104032.321 | 1200mm | 10.044 | 7.162 | 2.882 | 2.732 | SFA TYPE B | D400, 600 x 600 |
| F22 | 496334.108 | 104051.089 | 1200mm | 9.765 | 7.032 | 2.733 | 2.583 | SFA TYPE B | D400, 600 x 600 |
| F23 | 496330.354 | 104062.268 | 1200mm | 9.847 | 6.953 | 2.894 | 2.744 | SFA TYPE B | D400, 600 x 600 |
| F24 | 496323.111 | 104073.210 | 1200mm | 9.968 | 6.866 | 3.102 | 2.952 | SFA TYPE B | D400, 600 x 600 |

## SPECIFICATION NOTES

1. ALL DRAINAGE SHALL BE CONSTRUCTED AND COMMISSIONED IN ACCORDANCE WITH BS EN 295 & BS EN752, BUILDING REGULATIONS DOC. H AND ANY PARTICULAR REQUIREMENTS OF THE BUILDING CONTROL OFFICER.

2. DRAIN BEDDING IS TO BE PROVIDED AS D200.0, D200.1 and D200.2 AS SHOWN ON THE DRAINAGE DETAILS SHEETS.

3. 'EFFECTIVE COVER' IS THE MINIMUM DEPTH OF COVER OVER THE PIPE CROWN AT ANY TIME DURING THE CONSTRUCTION PROCESS.

4. ALL CONCRETE PIPEWORK, MANHOLES AND FITTINGS SHALL BE TO BS 5911 (ALL RELEVANT PARTS), ALL CONCRETE PIPEWORK TO BE TO HIGH STRENGTH

5. WHERE CONNECTIONS ARE TO BE MADE TO EXISTING MANHOLES/SEWERS, INVERT LEVELS, PIPE SIZES & ORIENTATION SHALL BE CHECKED PRIOR TO THE COMMENCEMENT OF THE WORKS AND ANY VARIANCE REPORTED TO THE ENGINEER IMMEDIATELY.

6. WHERE PIPELINES CROSS, EACH IS TO BE SURROUNDED WITH GRADE ST4 MASS CONCRETE FOR A DISTANCE NOT LESS THAN 1m CENTRED ON THE CROSSING POINT. LENGTH OF SURROUND TO BE EXTENDED AS NECESSARY TO WITHIN 150mm OF THE NEXT NEAREST FLEXIBLE JOINTS.

7. THE CONTRACTOR IS TO ENSURE THAT PROTECTIVE MEASURES ARE TAKEN TO ENSURE THAT DRAINAGE PIPEWORK AND FITTINGS ARE NOT DAMAGED BY SITE TRAFFIC PRIOR TO OVERSITE FILLING OPERATIONS BEING COMPLETED AROUND BUILDINGS.

8. ALL PRIVATE DRAINAGE PIPEWORK SHALL BE PVCu. ALL ADOPTED DRAINAGE TO BE VC. ALL UNDERBUILDING DRAINS TO BE LAID AT A GRADIENT OF 1:40

9. WHERE DRAINS PASS THROUGH FOUNDATIONS OR CONNECT TO MANHOLES, FLEXIBLE PIPE JOINTS ARE TO PROVIDED WITHIN 150mm OF THE FACE OF THE STRUCTURE AND WITHIN A FURTHER 600mm TO FORM A ROCKER PIPE.

10. WHERE PIPES PASS THROUGH SCREEN WALLS, FOOTINGS OR RETAINING WALLS, LINTELS ARE TO BE PROVIDED.

11. WHERE PIPELINES PASS WITHIN 1m OF BUILDINGS OR WALLS THE FOUNDATIONS ARE TO BE TAKEN DOWN BELOW THE BOTTOM OF THE TRENCH

12. 450mm DIA. INSPECTION CHAMBERS (FSC/SIC) MAY BE USED:
- WITH 350mm REDUCED OPENING WHERE THE DEPTH FROM COVER TO INVERT EXCEEDS 1000mm.

300mm DIA. POLYPROPYLENE ACCESS CHAMBERS (PAC/SAC) MAY BE USED
- WHERE THE DEPTH FROM COVER TO INVERT DOES NOT EXCEED 600mm AND WHERE THE PIPE SIZE DOES NOT EXCEED 100mm DIA

13. STEEL COVERS WITHIN PROPERTY BOUNDARIES SHALL BE:
(UNLESS NOTED ON DRAWING OR MANHOLE SCHEDULE)
-ON PRIVATE DRIVEWAYS: FACTA GRADE B (BS EN ISO 1461: 1999)
-ON PRIVATE PATHWAYS, VERGES OR ON GARDENS: FACTA GRADE A (BS EN ISO 1461: 1999)

DUCTILE IRON COVERS OUTSIDE PROPERTY BOUNDARIES SHALL BE:
(UNLESS NOTED ON DRAWING OR MANHOLE SCHEDULE)
-ON ACCESS ROADS AND CAR PARKS: GRADE D400 (BS EN 124:1994)
-ON SHARED PATHWAYS, VERGES: GRADE A15 (BS EN 124:1994)

14. COVER LEVELS SHOWN 'CL' AND INVERT LEVELS SHOWN 'IL' ARE IN METRES ABOVE ORDNANCE DATUM.

15. ALL DRAINS TO BE 100mm DIAMETER UNLESS NOTED OTHERWISE

16. ALL DRAINS MARKED 'FWS' OR 'SWS' ARE PROPOSED ADOPTED SEWERS AND ARE TO BE CONSTRUCTED IN ACCORDANCE WITH 'SEWERS FOR ADOPTION, 7TH EDITION'

17. DRAINAGE CONNECTIONS NOT DIRECT TO A CHAMBER TO BE VIA AN OBLIQUE 45° JUNCTION

18. ALL CONNECTIONS INTO MANHOLES TO BE MADE SOFFIT TO SOFFIT UNLESS STATED OTHERWISE.

## DESIGN NOTES

1. STORAGE DESIGN BASED ON 1 IN 100 YR STORM + 40%.

2. DRAIN POINTS AND LOCATIONS TO BE CONFIRMED BY ARCHITECT.

3. CONTRACTOR TO ESTABLISH LOCATIONS OF ALL EXISTING SERVICES PRIOR TO COMMENCING.

4. EXISTING TREES TO BE PROTECTED WHERE EXCAVATIONS RUN CLOSE.

5. APPROVAL TO BE GAINED FROM SOUTHERN WATER FOR CONNECTIONS TO SEWERS

## GENERAL NOTES:

1. DIMENSIONS ON THIS DRAWING SHALL NOT BE SCALED. ALL DIMENSIONS TO BE CHECKED ON SITE. ALL DETAILS AND DIMENSIONING RELATING TO SUB-CONTRACTOR'S OR SUPPLIER'S WORK MUST BE CHECKED AND AGREED BETWEEN THE SUB-CONTRACTOR OR THE SUPPLIER AND THE GENERAL CONTRACTOR
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECT'S AND ENGINEERS DRAWINGS AND SPECIFICATION.
3. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL SITE DIMENSIONS BEFORE COMMENCING WORK.
4. THE MAIN CONTRACTOR IS RESPONSIBLE FOR ENSURING THE STABILITY OF THE STRUCTURE WHILST THE WORKS ARE IN PROGRESS.
5. DIFFERENCES BETWEEN THIS DRAWING AND THE SITE CONDITIONS ENCOUNTERED MUST BE REPORTED TO THE ENGINEER.

NOTATION:—

T.O.S.— TOP OF STEEL. F.G.L. — FINISH GROUND LEVEL. T.O.C. — TOP OF CHIMNEY. T.O.F. — TOP OF FOUNDATION. F.L. — FORMATION LEVEL. S.S.L.— STRUCTURAL SLAB LEVEL. F.F.L. — FINISHED FLOOR LEVEL. T.O.S.F.—

## KEY

- Private surface water drain
- Private foul drain
- Adoptable foul sewer
- Adoptable highway drain
- FIC — Foul Plastic Inspection Chamber - D202.6
- SIC — Surface Water Plastic Inspection Chamber - D202.6
- SCP — 500# SEL Control chamber SUDS02005 with orifice plate. Refer to plan for size.
- SCP — 500# SEL Wasp catchpit
- SAC — 300mm diameter Surface Water Access Chamber - D202.18
- FAC — 300mm diameter Foul Water Access Chamber - D202.18
- FWMH — Private Foul Manhole
- SWMH — Private Surface Water Manhole
- FWSMH — Adoptable Foul water Sewer Manhole
- HWMH — Adoptable Highway Manhole
- SVP — Foul drain point D307.0
- RWP — SW Drain point for RWP D203.5
- Drainage channel
- Permeable paving
- +0.400 — Proposed external levels
- DT — Distribution tank (inlet) from roof drainage in permeable paving sub-base. See detail on org 5101
- DT — Distribution tank (Outfall) in permeable paving sub-base. See detail on org 5101

## ABBREVIATIONS

| | |
|---|---|
| D307.0 | DETAIL NUMBER - SEE DRAINAGE DETAIL SHEET |
| FD | FOUL DRAIN |
| SWD | SURFACE WATER DRAIN |
| FWS | ADOPTABLE FOUL WATER SEWER |
| SWS | ADOPTABLE SURFACE WATER SEWER |
| MH | MANHOLE |
| IC | INSPECTION CHAMBER |
| SA | SOAKAWAY |
| FSC | 450mm DIA. FOUL INSPECTION CHAMBER - D202.6 |
| SSC | 450mm DIA. SURFACE WATER INSPECTION CHAMBER - D202.6 |
| FAC | 300mm DIA. FOUL ACCESS CHAMBER - D202.18 |
| SAC | 300mm DIA. SURFACE WATER ACCESS CHAMBER - D202.18 |
| CI | CAST IRON |
| VC | VITRIFIED CLAY |
| CONC | CONCRETE |
| PVC-U | POLYVINYL CHLORIDE - UNPLASTICISED |
| G | SMALL GULLY - D209.0 |
| YG | YARD GULLY - D209.2 |
| RG | ROAD GULLY - D209.1 |
| CPG | CAR PARK GULLY - D208.2 |
| DP | BELOW GROUND DRAIN POINT |
| SVP | SOIL VENT PIPE DROP |
| RP | EXTERNAL ACCESSING POINT - D213.1 |
| DT | SURFACE WATER DISTRIBUTION TANK |
| FFL | FINISHED FLOOR LEVEL |
| SSL | STRUCTURAL SLAB LEVEL |
| GL | GROUND LEVEL |
| CL | COVER LEVEL |
| IL | INVERT LEVEL |
| SL | SOFFIT LEVEL |
| BL | BASE LEVEL |
| HL | HIGH LEVEL |
| BD | BACKDROP |
| CBS | CONCRETE BED & SURROUND |
| CLASS S | GRANULAR BED & SURROUND |
| CLASS S | GRANULAR BED |

NOTE
All ditches on the site for which Redrow has riparian responsibility to be cleared/desilted to the satisfaction of the ADC drainage engineer

| REV | DATE | DESCRIPTION | BY | CHK | APP |
|---|---|---|---|---|---|
| P4 | 02.07.20 | REVISED TO ADC DRAINAGE COMMENTS | SDL | MR | |
| P3 | 25.06.20 | REVISED TO ADC DRAINAGE COMMENTS | SDL | MR | |
| P2 | 29.05.20 | REVISED TO ADC DRAINAGE COMMENTS | SDL | MR | |
| P1 | 06.03.20 | PLANNING ISSUE | SL | MR | |


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CLIENT: REDROW HOMES

ARCHITECT: RHP

JOB TITLE: ANGEL & HYDE NURSERIES, YAPTON ROAD, BARNHAM

DRAWING TITLE: SITE DRAINAGE SHEET 2 OF 2

| JOB No | SCALE @ A0 | DATE |
|---|---|---|
| H19812 | 1/200 | MARCH 2020 |

| DRAWN | ENGINEER | CHECKED | APP |
|---|---|---|---|
| MR | GTA | | |

STATUS: S3 — DRAWING SUITABILITY: SUITABLE FOR REVIEW

REVISION: P4 — RDH STATUS: STAGE 4 – TECHNICAL DESIGN

DRAWING No.: 19812-GS-Z1-XX-DR-C-1061


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