THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED AND ONLY WRITTEN DIMENSIONS SHALL BE USED

JNM CIVIL ENGINEERING DESIGN CONSULTANTS

| STORM Network 1 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Pipe Code | Diameter (mm) | Gradient (1:) | Pipe Length | Upstream Manhole Number | Upstream Manhole Invert | Upstream Manhole Cover | Downstream Manhole Number | Downstream Manhole Invert | Downstream Manhole Cover |
| 1.000 | 150 | 40 | 13.644 | S1 | 125.220 | 127.350 | S2 | 124.875 | 127.500 |
| 1.001 | 150 | 37 | 6.733 | S2 | 124.875 | 127.500 | S3 | 124.691 | 127.414 |
| 1.002 | ATTEN | 299 | 37.952 | S3 | 124.541 | 127.414 | S4 | 124.414 | 126.535 |
| 1.003 | ATTEN | 269 | 28.560 | S4 | 124.414 | 126.535 | S5 | 124.308 | 125.853 |
| 1.004 | ATTEN | 294 | 15.363 | S5 | 124.308 | 125.853 | S6 | 124.256 | 125.499 |
| 1.005 | 300 | 300 | 23.990 | S6 | 124.256 | 125.499 | S7 | 124.176 | 125.300 |
| 1.006 | 300 | 300 | 19.833 | S7 | 124.176 | 125.300 | S8 | 124.110 | 125.300 |
| 1.007 | 300 | 300 | 2.979 | S8 | 124.110 | 125.300 | S9 | 124.100 | 125.000 |
| 2.000 | 150 | 50 | 17.232 | S10 | 125.220 | 127.350 | S2 | 124.875 | 127.500 |
| 3.000 | 150 | 103 | 16.010 | S11 | 125.220 | 127.000 | S12 | 125.065 | 127.000 |
| 3.001 | 150 | 20 | 7.667 | S12 | 125.065 | 127.000 | S3 | 124.691 | 127.414 |
| 4.000 | 150 | 135 | 14.220 | S13 | 124.722 | 126.700 | S14 | 124.617 | 126.700 |
| 4.001 | 150 | 136 | 7.191 | S14 | 124.617 | 126.700 | S4 | 124.564 | 126.535 |
| 5.000 | 150 | 136 | 8.537 | S15 | 124.680 | 126.700 | S14 | 124.617 | 126.700 |
| 6.000 | 150 | 134 | 8.449 | S16 | 124.638 | 125.700 | S17 | 124.575 | 125.700 |
| 6.001 | 150 | 135 | 9.205 | S17 | 124.575 | 125.700 | S18 | 124.507 | 125.700 |
| 6.002 | 150 | 135 | 6.615 | S18 | 124.507 | 125.700 | S5 | 124.458 | 125.853 |
| 7.000 | 150 | 136 | 8.006 | S19 | 124.566 | 125.700 | S18 | 124.507 | 125.700 |
| 8.000 | 150 | 135 | 16.310 | S20 | 124.645 | 125.550 | S21 | 124.524 | 125.550 |
| 8.001 | 150 | 136 | 11.805 | S21 | 124.524 | 125.550 | S22 | 124.437 | 125.600 |
| 8.002 | 150 | 133 | 4.118 | S22 | 124.437 | 125.600 | S6 | 124.406 | 125.499 |
| 9.000 | 150 | 135 | 14.481 | S23 | 124.659 | 126.000 | S24 | 124.552 | 126.000 |
| 9.001 | 150 | 134 | 15.466 | S24 | 124.552 | 126.000 | S22 | 124.437 | 125.600 |
| 10.000 | 150 | 149 | 11.794 | S25 | 124.668 | 125.300 | S26 | 124.589 | 125.300 |
| 10.001 | 150 | 150 | 16.241 | S26 | 124.589 | 125.300 | S27 | 124.481 | 125.300 |
| 10.002 | 150 | 151 | 3.463 | S27 | 124.481 | 125.300 | S28 | 124.458 | 125.300 |
| 10.003 | 150 | 150 | 5.853 | S28 | 124.458 | 125.300 | S29 | 124.419 | 125.453 |
| 10.004 | 150 | 153 | 1.988 | S29 | 124.419 | 125.453 | S6 | 124.406 | 125.499 |

## NOTES:

1. ALL DIMENSIONS IN METERS UNLESS STATED OTHERWISE.
2. ALL PRIVATE DRAINAGE WORKS ARE TO COMPLY WITH THE REQUIREMENTS OF BS 752 BUILDING DRAINAGE AND BUILDING REGULATIONS 2000 APPROVED DOCUMENT H 2002 EDITION. ALL ADOPTABLE DRAINAGE TO COMPLY WITH THE REQUIREMENTS OF SEVERN TRENT WATER AND SEWERS FOR ADOPTION (6th EDITION), INCLUDING THE RELEVANT PROVISIONS OF THE COMBINED ADDENDUM.
3. ALL MATERIALS, UNLESS SPECIFIED OTHERWISE, SHALL COMPLY WITH THE RELEVANT BRITISH STANDARD. SOURCES OF MATERIALS ARE TO BE AGREED WITH THE EMPLOYER'S REPRESENTATIVE/ENGINEER IN ADVANCE OF THE WORKS.
4. ANY DISCREPANCIES IN THE DETAILS SHOWN TO BE REPORTED TO THE EMPLOYER'S REPRESENTATIVE/ENGINEER PRIOR TO CONSTRUCTION.
5. LOCATION AND LEVELS OF EXISTING DRAINAGE RUNS ARE BASED UPON SEWER RECORD PLANS AND MUST BE CHECKED ON SITE PRIOR TO THE COMMENCEMENT OF ANY DRAINAGE WORKS.
6. ALL EXISTING SERVICES TO BE LOCATED PRIOR TO THE COMMENCEMENT OF ANY DRAINAGE WORKS WHERE NECESSARY PROTECTION OR DIVERSIONS TO BE UNDERTAKEN TO AVOID CONFLICT WITH THE PROPOSED WORKS.
7. ALL ADOPTABLE DRAINAGE AND FITTINGS TO BE FLEXIBLY JOINTED CLAYWARE TO BS EN295 OR CONCRETE TO BS5911 PART 100. FLEXIBLY JOINTED UPVC PIPES AND FITTINGS TO WIS No 4-13-05 MAY BE USED FOR PRIVATE BUILDING DRAINAGE SYSTEMS ONLY.
8. TYPICAL PIPE BEDDING TO DRAINAGE WHERE DEPTH TO SOFFIT IS GREATER THAN 600mm IN LANDSCAPED AREAS AND GREATER THAN 1200mm IN ADOPTABLE HIGHWAYS AND 900mm IN OTHER TRAFFICKED AREAS IS TO BE CLASS S (I.E. 10-14mm GRADED IMPORTED GRANULAR BED AND SURROUND FOR PIPES UP TO 525 Dia AND 20 - 40mm GRADED IMPORTED GRANULAR BED AND SURROUND FOR PIPES GREATER THAN 525 Dia)
9. BACKFILL TO DRAINAGE TRENCHES UNDER CARRIAGEWAYS TO BE TYPE 1 SUB-BASE MATERIAL, ELSEWHERE BACKFILL TO BE FREE DRAINING READILY COMPATIBLE MATERIAL, FREE FROM RUBBISH AND ORGANIC MATTER, FROZEN SOIL CLAY LUMPS AND LARGE STONES. TO BE COMPACTED IN LAYERS NOT EXCEEDING 150mm THICK.
10. CONCRETE MIXES INDICATED ON THIS DRAWING ARE DESIGNATED MIXES CONFORMING TO BS 8500-1, 2002.
11. A FLEXIBLE JOINT SHALL BE PROVIDED AS CLOSE AS IS FEASIBLE TO OUTSIDE FACE OF ANY STRUCTURE INTO WHICH A PIPE IS BUILT, COMPATIBLE WITH THE SATISFACTORY COMPLETION AND SUBSEQUENT MOVEMENT OF THE JOINT. THE LENGTH OF THE NEXT PIPE (ROCKER PIPE) AWAY FROM THE STRUCTURE SHALL BE AS SHOWN IN THE TABLE BELOW.
12.

| NOMINAL DIAMETER (mm) | EFFECTIVE LENGTH (m) |
|---|---|
| 150-600 | 1.0 |

13. ALL LEVELS, MEASUREMENTS AND CALCULATIONS ARE PRESUMED ARE TO BE CONFIRMED PRIOR TO CONSTRUCTION.
14. SVP AND RWP LOCATIONS ARE TO BE CONFIRMED PRIOR TO CONSTRUCTION.
15. THIS DRAWING HAS BEEN CREATED FOR PLANNING PURPOSES ONLY.
16. SOAKAWAY CALCULATIONS PROVIDED BY CLIENT AND ARE TO BRE365 SPECIFICATIONS.
17. DRAWING TO BE REVIEWED PRIOR TO ANY CONSTRUCTION.

KEY

| | |
|---|---|
| SWS | PRIVATE SURFACE WATER. REFER TO MICRO DRAINAGE SIMULATION RESULTS FOR MANHOLE SIZES AND NETWORK TABLE 1 FOR PIPE DETAILS. |
| RODDING EYE | |
| 1200mm (DIA MH) FWS | PRIVATE FOUL SEWER. PIPE TO BE 100mm IN DIAMETER UNLESS OTHERWISE STATED AND MANHOLE TO BE POLYTHENE 600mm IN DIAMETER UP TO 1m DEPTH AND 1200mm DIAMETER CONCRETE RINGS GRATER THAN 1m DEPTH OR WITHIN ROAD |
| 600mm (DIA MH) FWS | |

| Revision Details | By / Check | Date | Suffix |
|---|---|---|---|
| STORM REVISED | RAW/JJM | 07.12.21 | D |
| AMENDED NOTES | RAW/JJM | 12.10.21 | C |
| AMENDED NOTE | RAW/JJM | 04.10.21 | B |
| AMENDED FOUL DRAINAGE | RAW/JJM | 16.09.21 | A |

Drawing Number: J02167/A1/001 — Revision

# PEAR TREE FARM

Drawing Title: PROPOSED DRAINAGE LAYOUT

PRELIMINARY

| Scale at A1 | Detailed | | Approved |
|---|---|---|---|
| 1:200 | | | James Mewis |
| Drawn: RAW | Tech Chk: JJM | Det Chk | Date: 26.08.21 |


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