

**FWPS01**  
PRIVATE PACKAGED TWIN-PUMP STATION EDINCARE MAGNAPRO 2400-4000-D-3-2-3 (OR EQUIVALENT). PEAK FLOW 6.47l/s. PUMP AND RISING MAIN TO MANUFACTURERS DESIGN AND SPECIFICATION. LOCATION FOR CONTROL PANEL TO BE CONFIRMED BY ARCHITECT / M&E ENGINEER. INCOMING ELECTRICITY SUPPLY / TELEMETRY ROUTING TO BE CONFIRMED BY M&E ENGINEER.  
CL: 143.875  
INLET: 142.975  
CHAMBER Ø2400, 4.0m deep

TEMPORARY CONNECTION POINT FOR FOUL RISING MAIN PRIOR TO DEMOLITION OF EXISTING BUILDING

**SA01**  
AQUACELL ECO (OR EQUIVALENT) GEOCELLULAR SOAKAWAY STRUCTURE 9.0 x 3.5 x 0.8m  
VOLUME 23.9m<sup>3</sup> @ 95% VOID RATIO  
INFILTRATION RATE: 2.13 x 10<sup>-5</sup>m/s  
IL = 143.450

**SA03**  
AQUACELL ECO (OR EQUIVALENT) GEOCELLULAR SOAKAWAY STRUCTURE 8.5 x 2.0 x 0.8m  
VOLUME 12.9m<sup>3</sup> @ 95% VOID RATIO  
INFILTRATION RATE: 2.13 x 10<sup>-5</sup>m/s  
IL = 142.050

**SA02**  
AQUACELL ECO (OR EQUIVALENT) GEOCELLULAR SOAKAWAY STRUCTURE 8.0m x 3.0m x 0.8m  
VOLUME 18.2m<sup>3</sup> @ 95% VOID RATIO  
INFILTRATION RATE: 3.36x10<sup>-5</sup>m/s  
IL = 143.600

EXISTING SURFACE WATER DRAINAGE AND SOAKAWAY TO BE RETAINED.

EXISTING DRAIN TO BE ABANDONED AND REPLACED WITH NEW CONNECTION AS INDICATED.

EXISTING DRAINAGE TO BE ABANDONED AND REPLACED WITH NEW CHAMBERS AS INDICATED.

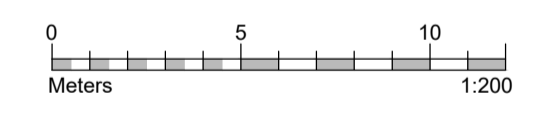
EXISTING CHAMBER TO BE ABANDONED AND REPLACED WITH Ø450 PPIC CONSTRUCTED ON EXISTING DRAIN.

**LEGEND**

- SITE BOUNDARY
- EXISTING BUILDING TO BE DEMOLISHED
- EXISTING BUILDING TO BE RETAINED
- FW-FW EXISTING FOUL DRAIN
- SW-SW EXISTING SURFACE WATER DRAIN
- CW-CW EXISTING COMBINED DRAIN
- EXISTING DRAIN TO BE ABANDONED
- PROPOSED FOUL DRAIN
- PROPOSED FOUL MANHOLE / INSPECTION CHAMBER
- SVP STUB STACK / SOIL VENT PIPE
- FLOOR GULLY
- ▲ PROPOSED FOUL PUMPING STATION
- PROPOSED SURFACE WATER DRAIN
- PROPOSED SURFACE WATER MANHOLE / INSPECTION CHAMBER
- RWP RAIN WATER PIPE
- FILTER DRAIN AND INFILTRATION TRENCH WITH PERFORATED PIPE
- LINEAR DRAINAGE CHANNEL
- POROUS NATRATX PAVING TO LANDSCAPE ARCHITECTS SPECIFICATION
- GEOCELLULAR SOAKAWAY, AQUACELL ECO (OR EQUIVALENT)

**NOTES**

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS AND SPECIALIST DRAWINGS AND SPECIFICATIONS
2. DO NOT SCALE FROM THIS DRAWING IN EITHER PAPER OR DIGITAL FORM. USE WRITTEN DIMENSIONS ONLY.
3. INVERT LEVELS AND POSITIONS OF EXISTING DRAINS / CHAMBERS / SEWERS WHERE NEW CONNECTIONS ARE TO BE MADE MUST BE CHECKED AND CONFIRMED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF ANY WORKS.
4. ALL DRAINAGE SHALL COMPLY WITH THE TYPICAL DETAILS AND THE REQUIREMENTS OF BS EN 752 AND PART H OF THE BUILDING REGULATIONS.
5. ANY PART OF THE EXISTING DRAINAGE SYSTEM TO BE RETAINED AS PART OF THE NEW SCHEME SHALL BE CLEANED AND INSPECTED. ANY STRUCTURAL DEFECTS SHALL BE REPAIRED USING APPROPRIATE AND APPROVED MEANS.
6. FOR SETTING-OUT DIMENSIONS OF SVP'S, RWP'S ETC, REFER TO ARCHITECT'S OR MECHANICAL ENGINEER'S DRAWINGS. POSITIONS SHOWN ARE INDICATIVE AND SUBJECT TO FINAL DESIGN.
7. ALL FOUL AND RWP CONNECTIONS SHALL BE 100mm DIAMETER UNLESS OTHERWISE SPECIFIED.
8. ALL PRECAST CONCRETE UNITS USED IN THE DRAINAGE WORKS SHALL BE MANUFACTURED USING SULPHATE RESISTING CEMENT.
9. MANHOLE COVERS AND FRAMES SHALL BE TO BS EN 124 AND SHALL BE KITEMARKED. COVERS AND FRAMES SHALL BE HEAVY DUTY D400 IN CARRIAGEWAYS AND VEHICULAR AREAS AND MEDIUM DUTY B125 IN FOOTWAYS AND SOFT LANDSCAPING. IN BLOCKED/CONCRETE PAVED AREAS COVERS SHALL BE RECESSED FABRICATED STEEL. ALL RECESSED COVERS SHALL IN ACCORDANCE WITH THE FACTA ASSOCIATION GRADINGS.
10. COVER LEVELS ARE TO BE ADJUSTED LOCALLY TO SUIT FINISHED GROUND LEVELS.
11. AT LEAST ONE SOIL PIPE AT THE HEAD OF EACH FOUL RUN SHALL VENT TO THE ATMOSPHERE.
12. EXISTING DRAINAGE TO BE REMOVED IS TO BE BROKEN OUT TO BED LEVEL AND VOID BACKFILLED WITH GRANULAR MATERIAL. COMPACTED IN LAYERS NOT EXCEEDING 250mm.
13. ALL DRAIN RUNS FROM SVP'S, STUB STACKS OR FW GULLIES TO BE LAID AT 1:40 GRADIENT UNLESS OTHERWISE STATED. ALL RWP'S TO BE LAID 1:80 MIN UNLESS OTHERWISE STATED.
14. ALL PRIVATE DRAINAGE TO BE LAID TO LEVELS SHOWN USING FLEXIBLY JOINTED PIPES, EITHER UPVC TO BS 4660 AND BS 5481 OR VITRIFIED CLAYWARE TO BS EN 295.
15. ALL PROPOSED TREES TO HAVE APPROPRIATE TREE BARRIER DETAILS LINKING PITS TO ENSURE ROOTS ARE DIRECTED AWAY FROM DRAINAGE.
16. WHERE NEW SEWERS ARE CONSTRUCTED WITHIN 5m OF A NEW OR EXISTING TREE THE SEWER SHALL BE PROTECTED AGAINST ROOT INTRUSION. REFER TO DRAINAGE DETAILS.
17. ALL NEW DRAINAGE TO BE JETTED AND CCTV SURVEYED ON COMPLETION. CONTRACTOR TO MAKE SURE THAT THE DRAINAGE IS FULLY OPERATIONAL. REFER TO DRAINAGE MAINTENANCE MANUAL FOR MAINTENANCE DETAILS.



**NOT FOR CONSTRUCTION**

P02 26.01.24	LANDSCAPE ARCHITECT LAYOUT AMENDED	JT	AM
P01 08.12.23	STAGE 3A ISSUE	JT	AM
Rev Date	Description	Drawn	Check

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Drawing Status	
<b>S3 - SUITABLE FOR REVIEW &amp; COMMENT</b>	
Project	Date DEC 2023
UPPINGHAM SCHOOL MEADHURST	Scale 1:200@A1
Drawn	JT
Engineer	AM
Title	Project No
<b>DRAINAGE STRATEGY MEADHURST ARRANGEMENT</b>	<b>230021</b>
Drawing No	Revision
<b>230021-CON-XX-00-DR-C-1000</b>	<b>P02</b>

1. DRAWING BASED ON TOPOGRAPHIC SURVEY BY AIMCON SURVEYS, REF. 01-1538, REV. G, DATED 05.02.2023.
2. PROPOSED LANDSCAPE LAYOUT BASED ON LIVINGSTON EYRE ASSOCIATES DRAWING REF. 4403-LEA-00-00-DR-L-1001, REV. P10, DATED 23.01.2024.
3. EXISTING DRAINAGE INFORMATION BASED ON UNDERGROUND UTILITY SURVEY BY AIMCON SURVEYS, REF. 01-1822, REV. F, DATED 02.02.2023.
4. RWP / SVP / SS POSITIONS ARE SHOWN INDICATIVELY AND SUBJECT TO FINAL DESIGN.