FOR EXTERNAL HARD SURFACING DETAILS REFER TO DRG. No. SRP1140-DBS-00-ZZ-D-C-1631

DRAWING TO BE READ IN CONJUNCTION WITH GENERAL ARRANGEMENT SUSTAINABLE DRAINAGE PLAN DRAWING No. SRP1140-DBS-00-ZZ-D-C-2031

DRAWING LAYOUT SHOWN AS PER:
- SUBADRA GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS EXTENDED UNDERGROUND UTILITY SURVEY DRAWING U1560, SHEETS 1-6, DATED OCT 2024.
- GREENHATCH GROUP:
  - TOPOGRAPHICAL & UNDERGROUND UTILITY SURVEY (PAS128) DRG. S3990_T_UG_E_REV3 RECEIVED 15.09.2025
  - CCTV DRG.S3990_T_UG_CCTV_REV1. RECEIVED 15.09.2025.
- SEVERN TRENT ASSET PLANS.
- WYNNE-WILLIAMS ASSOCIATES LANDSCAPE ARCHITECTS:
  - SITE LANDSCAPING PLAN - WEST SRP1140-WWA-00-ZZ-DL-1501-A4-C02 DATED 05.02.2026
  - SITE LANDSCAPING PLAN - WEST SRP1140-WWA-00-ZZ-DL-1501-A4-C02 DATED 05.02.2026

KIER DO NOT ACCEPT ANY LIABILITY AS TO THE ACCURACY OF THE INFORMATION SHOWN.

## DRAINAGE KEY:

- EXISTING SURFACE WATER DRAINAGE
- EXISTING SURFACE WATER MANHOLE
- EX.RWP — EXISTING RAIN WATER PIPE
- EX.G — EXISTING GULLY
- EXISTING FOUL DRAINAGE
- EXISTING FOUL MANHOLE
- NEW SURFACE WATER DRAINAGE
- NEW SURFACE WATER PERFORATED PIPE
- NEW SURFACE WATER MANHOLE MAC / INT / PPIC / PCC / PPCP WITH 150 CONCRETE SURROUND
- RWP — NEW RAIN WATER PIPE ACCESS FOR RODDING OF THE BELOW GROUND BRANCH DRAIN IS TO BE PROVIDED AT ALL RWP LOCATIONS.
- IE — NEW SURFACE WATER CHANNEL DRAIN WITH SUMP (S.) / GULLY (G.) AT CHANGE IN CHANNEL SIZE
- TH.DR. — NEW SURFACE WATER THRESHOLD DRAIN (TH.DR.) WITH PERFORATED PIPE OUTFALL TO SOFT LANDSCAPE AREAS
- RGGYG — NEW ROAD GULLY / YARD GULLY
- A — UNDER-DRAIN GRAVEL TRENCH TO POROUS SURFACING WITH 100 DIA. PERFORATED PIPE LAID AT 1:200 FALL TOWARD POLYPROPYLENE CATCH PIT WITH R.E. AT HEAD
- FALL DIRECTION OF FORMATION TO POROUS SURFACING LAID AT 1:200 FALL TOWARDS UNDER-DRAIN U.N.O.
- NEW FOUL WATER MANHOLE MAC / INT / PPIC / PCC WITH 150 CONCRETE SURROUND
- NEW FOUL DRAINAGE
- NEW FOUL POP-UP IF / SVP / SS / SG / FGI. REFER TO ARCHITECTS/SERVICES CONSULTANT FOR SETTING OUT AND TYPE OF APPLIANCE/FITTING. ACCESS FOR RODDING OF THE BELOW GROUND DRAIN IS TO BE PROVIDED AT ALL FOUL POP-UP LOCATIONS.

## NOTES

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## GENERAL NOTES:

1. ALL DIMENSIONS IN MILLIMETRES UNLESS STATED OTHERWISE.
2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS FOR THE SCHEME.
3. ALL DIMENSIONS SHALL BE CONFIRMED BY THE CONTRACTOR AND ANY DISCREPANCIES BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER AND CONTRACT ADMINISTRATOR PRIOR TO COMMENCEMENT OF THE WORKS OR AS SOON AS THE DISCREPANCY ARISES.

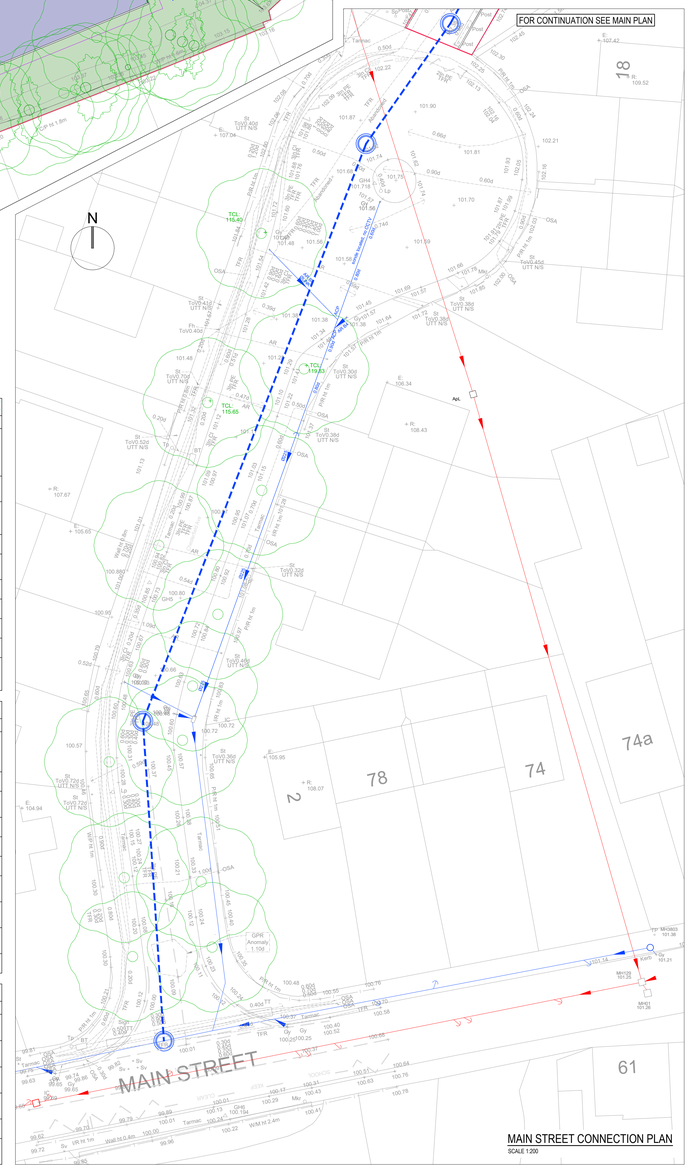
## GENERAL NOTES:

1. THE SCHOOL IS RESPONSIBLE FOR MAINTAINING THE PRIVATE DRAINAGE AND ASSOCIATED EXTERNAL SURFACES IN ACCORDANCE WITH THE INSPECTION AND MAINTENANCE SCHEDULES PROVIDED
2. NEW TREES AND LAY SHRUBS ARE NOT TO BE PLANTED OVER OR ADJACENT TO THE LINE OF ANY EXISTING DRAINAGE.
3. MANHOLE COVERS SHALL NOT BE LIFTED WITHOUT APPROPRIATE LIFTING EQUIPMENT.
4. CARE SHALL BE TAKEN TO ENSURE THAT PERSONNEL UNDERTAKING MANHOLE COVER LIFTING OPERATIONS DO NOT DO SO IN CONTRAVENTION OF CURRENT HEALTH AND SAFETY WEIGHT RESTRICTIONS.
5. IN ALL INSTANCES, INSPECTION AND CLEANING SHOULD BE CARRIED OUT ONLY BY A SPECIALIST CONTRACTOR AND IN ACCORDANCE WITH THE GUIDELINES GIVEN IN "SAFE WORKING IN SEWERS AND AT SEWAGE WORKS" PUBLISHED BY NATIONAL JOINT HEALTH AND SAFETY COMMITTEE FOR THE WATER SERVICES.
6. PERSONNEL SHOULD NOT ENTER MANHOLES OR ANY OTHER PART OF THE DRAINAGE SYSTEM WITHOUT FIRST RECEIVING THE APPROPRIATE TRAINING IN WORKING IN CONFINED SPACES AND SHOULD BE IN POSSESSION OF ALL APPROPRIATE PROTECTIVE AND SAFETY EQUIPMENT AND WHERE NECESSARY BREATHING APPARATUS.
7. UNDER NO CIRCUMSTANCES SHOULD UNPROTECTED PERSONNEL ENTER THE FOUL OR STORM WATER DRAINAGE SYSTEMS.
8. ALL WORKS TO BE RECORDED IN WRITING IN A LOG THAT IS TO BE RETAINED IN THE SCHOOL OFFICE. COPIES OF THE LOG RECORDS MAY BE REQUESTED BY THE PLANNING AUTHORITY.

## MAINTENANCE ITEMS - SEE TABLE

- A — SILT TRAP
- B — BELOW GROUND STORAGE TANK
- C — FLOW CONTROL
- D — PERMEABLE SURFACING
- E — GREEN ROOF
- F — BIORETENTION AREA

MAIN PLAN
SCALE 1:200




MAIN STREET CONNECTION PLAN
SCALE 1:200

## A - SILT TRAPS

| MAINTENANCE SCHEDULE | REQUIRED ACTION | TYPICAL FREQUENCY |
|---|---|---|
| MONITORING | INITIAL INSPECTION | MONTHLY FOR THREE MONTHS AFTER INSTALLATION |
| | INSPECT FOR EXCESS SILT - IF REQUIRED, TAKE REMEDIAL ACTION | GENERALLY EVERY SIX MONTHS, HOWEVER CHECK 48 HOURS AFTER LARGE STORMS |
| | INSPECT FOR BLOCKAGES (LARGE DEBRIS SUCH AS LEAVES AND DEBRIS) | IF SURFACE PONDING OCCURS AFTER 48 HOUR PERIOD |
| REGULAR MAINTENANCE | SILT TRAP MANHOLES HAVE A SUMP, WHICH COLLECTS SILTS OVER TIME. THE SUMP WILL NEED EMPTYING OF SILTS USING A PROPRIETARY GULLY SUCKER. THE WATER AND DEBRIS REMOVED FROM THE SILT TRAP WILL NEED TO BE DISPOSED OF AT A LICENSED WASTE DISPOSAL SITE. THE GULLY SUCKER CAN ACCESS SITE USING THE ACCESS ROAD AND THE HOSE FROM THE UNIT WILL NEED TO BE SIZED TO REACH THE SILT TRAP FROM THE ACCESS ROAD. | AS REQUIRED BY THE INSPECTION REGIME ABOVE, HOWEVER ANNUALLY AS A MINIMUM |
| REMEDIAL ACTIONS | REMOVAL OF SILT AND WATER-JET CLEANED | AS REQUIRED |
| | REMOVAL OF LARGE BLOCKAGES SUCH AS LEAVES AND DEBRIS | AS REQUIRED |

## B - BELOW GROUND STORAGE SOAKAWAY TANKS

| MAINTENANCE SCHEDULE | REQUIRED ACTION | TYPICAL FREQUENCY |
|---|---|---|
| MONITORING | INSPECT SILT TRAPS AND NOTE RATE OF SEDIMENT ACCUMULATION | MONTHLY IN THE FIRST YEAR AND THEN ANNUALLY |
| | CHECK STORAGE STRUCTURE / INFILTRATION TRENCH TO ENSURE EMPTYING IS OCCURRING | ANNUALLY |
| REGULAR MAINTENANCE | INSPECT FOR SEDIMENT AND DEBRIS IN PRE-TREATMENT COMPONENTS AND FLOOR OF INSPECTION CHAMBER | ANNUALLY |
| | UNDERTAKE CCTV SURVEY OF STORAGE STRUCTURE / INFILTRATION TRENCH USING INSPECTION CHAMBER AND INSPECTION CELLS AT BASE OF STORAGE STRUCTURE OR PERFORATED PIPES. JET AND ROD AS REQUIRED TO REMOVE ANY BLOCKAGES | EVERY 10 YEARS OR IF INSPECTIONS DICTATE OTHERWISE |
| OCCASIONAL MAINTENANCE | REMOVE SEDIMENT AND DEBRIS FROM PRE-TREATMENT COMPONENTS AND FLOOR OF INSPECTION PIPE AND CHAMBER | AS REQUIRED, BASED ON INSPECTIONS |
| REMEDIAL ACTIONS | UNDERTAKE CCTV SURVEY OF STORAGE STRUCTURE / INFILTRATION TRENCH USING INSPECTION CHAMBER AND INSPECTION CELLS AT BASE OF STORAGE STRUCTURE OR PERFORATED PIPE. JET AND ROD AS REQUIRED TO REMOVE ANY BLOCKAGES | AS REQUIRED, BASED ON INSPECTIONS |

## C - FLOW CONTROL CHAMBER

| MAINTENANCE SCHEDULE | REQUIRED ACTION | TYPICAL FREQUENCY |
|---|---|---|
| MONITORING | INITIAL INSPECTION | MONTHLY FOR THREE MONTHS AFTER INSTALLATION |
| | INSPECT FOR BLOCKAGES (LARGE DEBRIS SUCH AS LEAVES AND DEBRIS) | IF SURFACE PONDING OCCURS AFTER A 48 HOUR PERIOD |
| | GENERAL INSPECTION FOR CLEANLINESS AND TO CHECK DEVICE IS OPERATIONAL | ANNUALLY |
| REGULAR MAINTENANCE | THE FLOW CONTROL CHAMBER CONTAINS A HYDROBRAKE VORTEX FLOW CONTROL DEVICE. ANY LITTER OR DEBRIS IN THE MANHOLE SHOULD BE REMOVED | AS REQUIRED BY THE INSPECTION REGIME ABOVE, HOWEVER ANNUALLY AS A MINIMUM |
| REMEDIAL ACTIONS | THE HYDROBRAKE VORTEX FLOW CONTROL DEVICE IS FITTED WITH A BY-PASS DOOR. SHOULD THE MANHOLE BE FULL, THE BY-PASS DOOR SHOULD BE OPENED IN ORDER TO DRAIN DOWN THE MANHOLE. THE DEVICE SHOULD THEN BE RODDED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. | AS REQUIRED |
| | REMOVAL OF LARGE BLOCKAGES SUCH AS LEAVES AND DEBRIS | AS REQUIRED |

## D - BLOCK PAVING & PERMEABLE TARMAC SURFACING

| MAINTENANCE SCHEDULE | REQUIRED ACTION | TYPICAL FREQUENCY |
|---|---|---|
| MONITORING | INITIAL INSPECTION | MONTHLY FOR THREE MONTHS AFTER INSTALLATION |
| | INSPECT FOR EVIDENCE OF POOR OPERATION AND/OR WEED GROWTH - IF REQUIRED, TAKE REMEDIAL ACTION | THREE-MONTHLY, 4th AFTER LARGE STORMS IN FIRST SIX MONTHS |
| | INSPECT SILT ACCUMULATION RATES AND ESTABLISH APPROPRIATE BRUSHING FREQUENCIES | ANNUALLY |
| | MONITOR INSPECTION CHAMBERS | ANNUALLY |
| REGULAR MAINTENANCE | BRUSHING AND VACUUMING (STANDARD COSMETIC SWEEP OVER WHOLE SURFACE) USING A BRUSH AND SUCTION CLEANER, SUCH AS A PRECINCT SWEEPER. IT IS ALSO POSSIBLE TO CLEAN THE SURFACE USING LIGHTWEIGHT ROTATING BRUSH CLEANERS COMBED WITH POWER SPRAYING USING HOT WATER. CLEANING CHEMICALS SHOULD NOT BE USED. REPLACE ANY LOST JOINTING MATERIAL (DO NOT REPLACE THE JOINTING GRIT WITH KILN DRIED SAND AS THIS WILL BLOCK THE JOINTS AND PREVENT INFILTRATION. DO NOT STORE MATERIALS WHICH MAY CLOG UP THE PERMEABLE JOINTS SUCH AS SOIL AND MULCH ON TOP OF THE PAVING.) | ONCE A YEAR, AFTER AUTUMN LEAF FALL, OR REDUCED FREQUENCY AS REQUIRED, BASED ON SITE-SPECIFIC OBSERVATIONS OF CLOGGING. PAY PARTICULAR ATTENTION TO AREAS WHERE WATER RUNS ONTO PERVIOUS SURFACE FROM ADJACENT IMPERMEABLE AREAS AS THIS AREA IS MOST LIKELY TO COLLECT SEDIMENT. |
| OCCASIONAL MAINTENANCE | STABILISE AND MOW CONTRIBUTING AND ADJACENT AREAS OF PLANTING. | AS REQUIRED |
| | REMOVAL OF WEEDS | AS REQUIRED |
| REMEDIAL ACTIONS | REMEDIATE ANY LANDSCAPING WHICH, THROUGH VEGETATION MAINTENANCE OR SOIL SLIP, HAS BEEN RAISED TO WITHIN 50mm OF THE LEVEL OF THE PAVING. | AS REQUIRED |
| | REHABILITATION OF SURFACE AND UPPER SUBSTRUCTURE BY REMEDIAL SWEEPING | EVERY 10 TO 15 YEARS OR AS REQUIRED (IF INFILTRATION PERFORMANCE IS REDUCED DUE TO SIGNIFICANT CLOGGING) |

## E - GREEN ROOF SYSTEM

| MAINTENANCE SCHEDULE | REQUIRED ACTION | TYPICAL FREQUENCY |
|---|---|---|
| REGULAR INSPECTIONS | INSPECT ALL COMPONENTS INCLUDING SOIL SUBSTRATE, VEGETATION, DRAINS, IRRIGATION SYSTEMS (IF APPLICABLE), MEMBRANES AND ROOF STRUCTURE FOR PROPER OPERATION, INTEGRITY OF WATERPROOFING AND STRUCTURAL STABILITY. | ANNUALLY, AND AFTER SEVERE STORMS |
| | INSPECT SOIL SUBSTRATE FOR EVIDENCE OF EROSION CHANNELS AND IDENTIFY ANY SEDIMENT SOURCES | ANNUALLY, AND AFTER SEVERE STORMS |
| | INSPECT DRAIN INLETS TO ENSURE UNRESTRICTED RUNOFF FROM THE DRAINAGE LAYER TO THE CONVEYANCE OR ROOF DRAIN SYSTEM | ANNUALLY, AND AFTER SEVERE STORMS |
| | INSPECT UNDERSIDE OF ROOF FOR EVIDENCE OF LEAKAGE | ANNUALLY, AND AFTER SEVERE STORMS |
| REGULAR MAINTENANCE | REMOVE DEBRIS AND LITTER TO PREVENT CLOGGING OF INLET DRAINS AND INTERFERENCE WITH PLANT GROWTH | SIX MONTHLY AND ANNUALLY OR AS REQUIRED |
| | DURING ESTABLISHMENT (IE YEAR ONE), REPLACE DEAD PLANTS AS REQUIRED | MONTHLY (BUT USUALLY RESPONSIBILITY OF MANUFACTURER) |
| | POST ESTABLISHMENT, REPLACE DEAD PLANTS AS REQUIRED (WHERE > 5% OF COVERAGE) | ANNUALLY (IN AUTUMN) |
| | REMOVE FALLEN LEAVES AND DEBRIS FROM DECIDUOUS PLANT FOLIAGE | SIX MONTHLY OR AS REQUIRED |
| | REMOVE NUISANCE AND INVASIVE VEGETATION, INCLUDING WEEDS | SIX MONTHLY OR AS REQUIRED |
| | MOW GRASSES, PRUNE SHRUBS AND MANAGE OTHER PLANTING (IF APPROPRIATE) AS REQUIRED – CLIPPINGS SHOULD BE REMOVED AND NOT ALLOWED TO ACCUMULATE | SIX MONTHLY OR AS REQUIRED |

## F - BIORETENTION AREAS

| MAINTENANCE SCHEDULE | REQUIRED ACTION | TYPICAL FREQUENCY |
|---|---|---|
| REGULAR INSPECTIONS | INSPECT INFILTRATION SURFACES FOR SILTING AND PONDING, RECORD DE-WATERING TIME OF THE FACILITY AND ASSESS STANDING WATER LEVELS IN UNDERDRAIN (IF APPROPRIATE) TO DETERMINE IF MAINTENANCE IS NECESSARY | QUARTERLY |
| | CHECK OPERATION OF UNDERDRAINS BY INSPECTION OF FLOWS AFTER RAIN | ANNUALLY |
| | ASSESS PLANTS FOR DISEASE INFECTION, POOR GROWTH, INVASIVE SPECIES ETC AND REPLACE AS NECESSARY | QUARTERLY |
| | INSPECT INLETS AND OUTLETS FOR BLOCKAGE | QUARTERLY |
| REGULAR MAINTENANCE | REMOVE LITTER AND SURFACE DEBRIS AND WEEDS | QUARTERLY (OR MORE FREQUENTLY FOR TIDINESS OR AESTHETIC REASONS) |
| | REPLACE ANY PLANTS, TO MAINTAIN PLANTING DENSITY | AS REQUIRED |
| | REMOVE SEDIMENT, LITTER AND DEBRIS BUILD-UP FROM AROUND INLETS OR FROM FOREBAYS. EMPTY SILT BUCKET AS NECESSARY. | QUARTERLY TO BI-ANNUALLY |
| OCCASIONAL MAINTENANCE | INFILL ANY HOLES OR SCOUR IN THE FILTER MEDIUM, IMPROVE EROSION PROTECTION IF REQUIRED | AS REQUIRED |
| | REPAIR MINOR ACCUMULATIONS OF SILT BY RAKING AWAY SURFACE SILCH, SCARIFYING SURFACE OF MEDIUM AND REPLACING MULCH | AS REQUIRED |
| REMEDIAL ACTIONS | REMOVE AND REPLACE FILTER MEDIUM AND VEGETATION ABOVE | AS REQUIRED BUT LIKELY TO BE > 20 YEARS |

## G - ARTIFICIAL GRASS

| MAINTENANCE SCHEDULE | REQUIRED ACTION | TYPICAL FREQUENCY |
|---|---|---|
| REGULAR INSPECTIONS | CHECK EDGES AND SEEMS TO ENSURE INTEGRITY. INSPECT FOR MOSS OR WEED GROWTH, ESPECIALLY IN SHADY AREAS. | MONTHLY / AS NEEDED |
| REGULAR MAINTENANCE | DEBRIS REMOVAL - USE A LEAF BLOWER, PLASTIC RAKE, OR STIFF BRUSH TO REMOVE LEAVES, TWIGS, AND DUST. DO NOT USE METAL RAKES. | WEEKLY / MONTHLY |
| | BRUSHING - USE A STIFF BRUSH OR POWER BRUSH TO LIFT FLATTENED FIBRES AND DE-COMPACT SAND INFILL. | QUARTERLY / AS NEEDED |
| | PROFESSIONAL SERVICE - PROFESSIONAL CHECK ON SAND INFILL LEVELS, DEEP CLEANING, AND RE-FLUFFING. | ANNUAL / BI-ANNUAL |
| OCCASIONAL MAINTENANCE | HOSING DOWN - WASH DOWN TO REMOVE DUST AND PREVENT ODOURS. | DRY SPELLS - AS REQUIRED |
| | WASTE CLEANUP - REMOVE SOLID WASTE AND RINSE THE AREA. USE SPECIALIZED SANITIZERS IF NEEDED. | IMMEDIATELY |

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