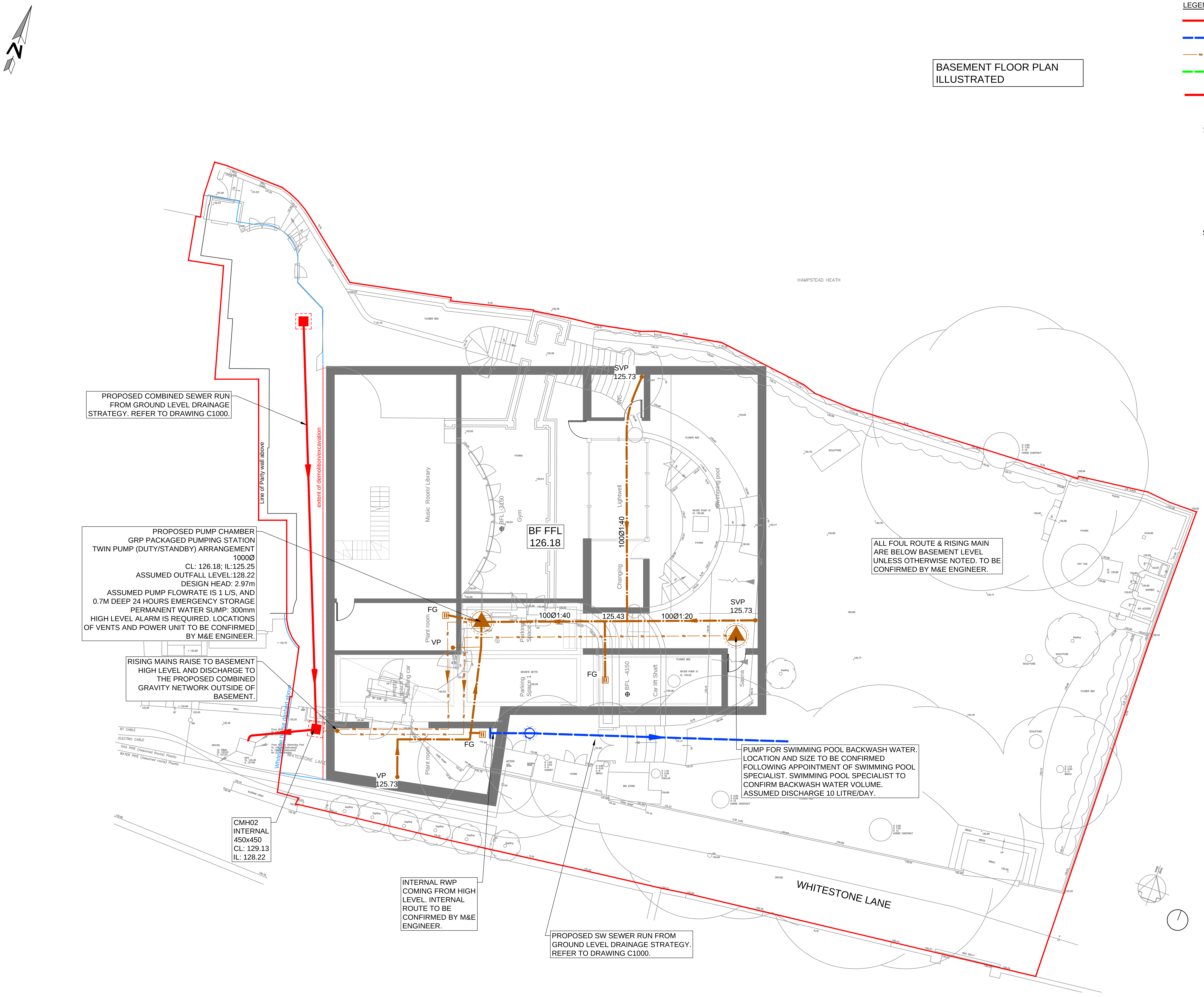

PROPOSED COMBINED SEWER RUN FROM GROUND LEVEL DRAINAGE STRATEGY. REFER TO DRAWING C1000.

PROPOSED PUMP CHAMBER
GRP PACKAGED PUMPING STATION
TWIN PUMP (DUTY/STANDBY) ARRANGEMENT
1000Ø
CL: 126.18; IL:125.25
ASSUMED OUTFALL LEVEL:128.22
DESIGN HEAD: 2.97m
ASSUMED PUMP FLOWRATE IS 1 L/S, AND 0.7M DEEP 24 HOURS EMERGENCY STORAGE
PERMANENT WATER SUMP: 300mm
HIGH LEVEL ALARM IS REQUIRED. LOCATIONS OF VENTS AND POWER UNIT TO BE CONFIRMED BY M&E ENGINEER.

RISING MAINS RAISE TO BASEMENT HIGH LEVEL AND DISCHARGE TO THE PROPOSED COMBINED GRAVITY NETWORK OUTSIDE OF BASEMENT.

CMH02
INTERNAL
450x450
CL: 129.13
IL: 128.22

INTERNAL RWP COMING FROM HIGH LEVEL. INTERNAL ROUTE TO BE CONFIRMED BY M&E ENGINEER.

PROPOSED SW SEWER RUN FROM GROUND LEVEL DRAINAGE STRATEGY. REFER TO DRAWING C1000.

PUMP FOR SWIMMING POOL BACKWASH WATER. LOCATION AND SIZE TO BE CONFIRMED FOLLOWING APPOINTMENT OF SWIMMING POOL SPECIALIST. SWIMMING POOL SPECIALIST TO CONFIRM BACKWASH WATER VOLUME. ASSUMED DISCHARGE 10 LITRE/DAY.

ALL FOUL ROUTE & RISING MAIN ARE BELOW BASEMENT LEVEL UNLESS OTHERWISE NOTED. TO BE CONFIRMED BY M&E ENGINEER.

LEGEND

🟥	Proposed Combined Sewer
🟦	Proposed Surface Sewer
▶	Proposed Foul Raising Main
🟩	Indicative Routes From Internal M&E
🟥	Site Boundary
○ ○	Proposed Surface Water Manhole
■	Internal Inspection Chamber
▲	Private Pumping station
SVP ● SS	Soil Vent Pipe/stub Stack
RWP ●	Proposed Rainwater Pipe
FG ▨	Proposed Floor Gully

GENERAL 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. ALL MEASUREMENTS ARE IN METRES UNLESS OTHERWISE NOTED. ALL LEVELS ARE IN RELATION TO THE ORDNANCE DATUM.

GENERAL DRAINAGE NOTES

1. 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.
1. ALL DRAINAGE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY, THE ENVIRONMENT AGENCY AND IN CONJUNCTION WITH ALL RELEVANT BRITISH STANDARDS, CODES OF PRACTICE AND 'SEWERS FOR ADOPTION' 7TH EDITION AND ANY ADDENDUMS AS APPROPRIATE.
2. ALL DRAINAGE SHALL COMPLY WITH THE TYPICAL DETAILS AND THE REQUIREMENTS OF BS EN 752 AND PART H OF THE BUILDING REGULATIONS.
3. 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.
4. ALL FOUL AND RWP CONNECTIONS SHALL BE 100MM DIAMETER UNLESS OTHERWISE SPECIFIED.
5. ALL PRECAST CONCRETE UNITS USED IN THE DRAINAGE WORKS SHALL BE MANUFACTURED USING SULPHATE RESISTING CEMENT.
6. 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.
7. ALL INTERNAL INSPECTION CHAMBERS TO BE RECESSED, DOUBLE SEALED WITH SCREW DOWN COVERS.
8. COVER LEVELS ARE TO BE ADJUSTED LOCALLY TO SUIT FINISHED GROUND LEVELS.
9. AT LEAST ONE SOIL PIPE AT THE HEAD OF EACH FOUL RUN SHALL VENT TO THE ATMOSPHERE.
10. 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.
11. 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.
12. ALL MANHOLES / INSPECTION CHAMBERS IN BLOCK PAVED AREAS, TO HAVE RECESSED COVERS. MH COVERS IN PAVED AREAS TO HAVE COVER & FRAME ORIENTATED 'SQUARE' WITH PAVING TO MINIMISE CUT SLABS OR BLOCKS.
13. 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. PIPES BELOW STRUCTURAL BUILDING SLABS OR BASEMENTS SHALL BE CAST IRON TO BS 437.
14. ALL PROPOSED TREES TO HAVE APPROPRIATE TREE BARRIER DETAILS LINKING PITS TO ENSURE ROOTS ARE DIRECTED AWAY FROM DRAINAGE.
15. WHERE NEW SEWERS ARE CONSTRUCTED WITHIN 5M OF A NEW OR EXISTING TREE THE SEWER SHALL BE CONCRETE ENCASED AGAINST ROOT INTRUSION. REFER TO DRAINAGE DETAILS.
16. 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.
17. ALL EXISTING DRAINAGE WITHIN SITE BOUNDARY FOR THE PROPOSED DWELLING TO BE REMOVED UNLESS OTHERWISE STATED.

0 1 2 3 4 5 6
Meters 1:100

NOT FOR CONSTRUCTION

Rev	Date	Description	Drawn	Check
P1	12.04.19	ISSUED FOR COMMENTS.	CN	AC

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Drawing Status
PRELIMINARY

Project
WHITESTONE HOUSE
WHITESTONE LANE, NW 3 1EA

Date APR 2019
Scale 1:100@A1
Drawn CN
Engineer CN

Title
PROPOSED BASEMENT LEVEL DRAINAGE STRATEGY

Project No
190015

Drawing No
190015-CON-X-00-DR-C-1001

Revision
P1