



- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
  2. ALL LEVELS ARE SHOWN IN METRES UNLESS NOTED OTHERWISE.
  3. DO NOT SCALE FROM THE DRAWING. USE FIGURED DIMENSIONS ONLY.
  4. ANY DISCREPANCIES TO BE REPORTED IMMEDIATELY TO THE ENGINEER.
  5. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS, SUBCONTRACTORS AND SPECIALISTS DRAWINGS AND SPECIFICATIONS.
  6. EXISTING SERVICES HAVE NOT BEEN SHOWN BUT ARE PRESENT - THE CONTRACTOR IS TO LIAISE WITH ALL STATUTORY AUTHORITIES PRIOR TO THE COMMENCEMENT OF ANY WORKS.

## DRAINAGE LEGEND

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- 1500 @ 1:150
- PROPOSED SURFACE WATER DRAINAGE  
WITH PIPE SIZE AND GRADIENT (SEE LAYOUT)
- RWP
- PROPOSED RAINWATER PIPE
- RA
- PROPOSED A/C MID/100 DRAINAGE CHANNEL
- CONCRETE FILLED SANDBAG HEADWALL
- G
- OSMA 49000 BOTTLE GULLY, BEND TO SUIT,  
INSTALLED ON A PRE-CAST CONCRETE OR  
BRICK BASE.
- IMPERMEABLE ASPHALT
- GRAVEL SURFACE
- SWALE DITCH
- GRASS / SOFT LANDSCAPING
- +11.300
- PROPOSED SPOT LEVEL
- +6.92
- EXISTING SPOT LEVEL
- +10.280
- DRAINAGE FORMATION LEVEL
- SAB BOUNDARY

- NOTES:**
1. MH COVERS AND FRAMES TO CONFORM TO BS EN 124:  
-HIGHWAYS AND FOOTWAYS TO FRONT OF BUILDINGS (D400)  
-FOOTWAYS TO REAR OF BUILDINGS (C250)
  2. TYPE S BEDDING AND SURROUND TO ALL PIPES EXCEPT IN THE FOLLOWING CIRCUMSTANCES, IN WHICH TYPE Z BEDDING AND SURROUND ARE TO BE USED:  
-IN BACK GRADINGS OF HOUSES WHERE DEPTH TO CROWN OF PIPE IS LESS THAN 0.35m.  
-IN AREAS OF THE REAR OF FLATS AND PARKING WHERE DEPTH TO CROWN IS LESS THAN 0.9m.  
-IN AREAS OF ROAD WHERE DEPTH IS LESS THAN 1.2m.
  3. ALL EXISTING MANHOLE INVERTS TO BE CHECKED AND REPORTED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF DRAINAGE WORKS. EXISTING PIPE CONNECTIONS ARE TO BE CCTV SURVEYED AND INSPECTED BY THE ENGINEER AND LOCAL AUTHORITY. IF THE PIPE CONNECTION IS FOUND TO BE DAMAGED OR IN DISTRESS, THE CONTRACTOR IS TO CARRY OUT REMEDIAL WORKS OR PROVIDE A NEW CONNECTION TO THE EXISTING SEWER (PIPE SIZE AND GRADIENT TO BE DETERMINED BY THE ENGINEER.
  4. THE GRADIENTS INDICATED AGAINST THE DRAIN RUNS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL INSTALL DRAINS TO THE INVERT LEVELS SHOWN FOR EACH MANHOLE OR OTHER INDICATED POSITION.
  5. ALL PLOT FOUL DRAINAGE TO BE MINIMUM 100mm DIAMETER UNLESS OTHERWISE NOTED.
  6. ALL ADAPTABLE THERMOPLASTIC STRUCTURED WALL SEWER PIPE SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 13476-1 AND WIS 4-35-01 AND BS EN 13476-2 OR BS EN 13476-3. PIPES SHALL BE BSI KITEMARKED OR HAVE EQUIVALENT THIRD PARTY CERTIFICATION. PIPES LESS THAN OR EQUAL TO 500mm DIA. SHALL HAVE A SHORT-TERM RING STIFFNESS OF NOT LESS THAN 8kNm<sup>2</sup> (SNG).
  7. ALL JOINTING IN ACCORDANCE WITH MANUFACTURERS TECHNICAL ADVICE & SPECIFICATION.
  8. NO NON ADAPTABLE DRAINAGE TO BE THE STANDARD UPVC 110mm, 160mm DRAINAGE AND MANUFACTURED TO BS-EN 1401 AND BS 4660 UNLESS NOTED OTHERWISE.
  9. ALL PERMEABLE PAVING CELLS TO HOUSE LATERAL FIN DRAIN ALONG LOWER EDGE WITH 1500 CONNECTION PIPE.
  10. ALL STORM WATER DRAINAGE TO BE A MINIMUM OF 150mm DIAMETER UNLESS OTHERWISE NOTED.
  11. SOIL & VENT PIPE LOCATION AND NUMBER TO BE CONFIRMED WITH ARCHITECT.
  12. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEERS DRAWINGS, TOGETHER WITH THEIR LATEST SPECIFICATIONS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER (VALE CONSULTANCY) AS SOON AS POSSIBLE.
  13. FIGURED DIMENSIONS ONLY TO BE USED. ANY QUERIES OR DISCREPANCIES TO BE REFERRED TO THE ENGINEER (VALE CONSULTANCY) IMMEDIATELY.
  14. PRIOR TO ORDERING ANY MATERIALS THE CONTRACTOR IS TO CONFIRM MANUFACTURER/PIPE MATERIAL AND GRADE PROPOSED WITH WATER AUTHORITY.
  15. TEMPORARY WORKS DESIGN BY OTHERS.
  16. DESIGN RISK ASSESSMENTS AND METHOD STATEMENTS ARE TO BE PROVIDED TO THE PRINCIPLE CONTRACTOR PRIOR TO THE COMMENCEMENT OF ANY WORKS.

**APPROVAL**

[illegible]

Client  
GBV PROPERTIES

Project  
MARDON PARK PHASE 3

Title  
SAB DRAINAGE LAYOUT



date	drawn	checked	approved
18.02.21	SU	MJ	LR
scale @ A1		project no.	
1:200		11250	
status	drwg. no.		rev.
A	11250_SAB_500		02

**DRAWING STATUS**  
Approval, AB - As-Built, C - Construction, D - Draft, P - Preliminary, T - Tender