

NOTES:

- 1) LARGER SIZES MAY BE REQUIRED FOR MANHOLES ON BENDS OR WHERE THERE ARE JOINTS.
- 2) MANHOLE SIZES SHALL BE 675 BY 675 WHERE REQUIRED BY HIGHWAY LOADING CONSIDERATIONS, SUBJECT TO A SAFE SYSTEM OF WORK BEING SPECIFIED.
- 3) NOT APPLICABLE BUE TO WORKING SPACE NEEDED.
- 4) MINIMUM HEIGHT OF CHAMFER IN SHAFTED MANHOLE 2M FROM BENCHING TO UNDERSIDE OF REDUCING SLAB.
- 5) MIN CLEAR SPACE BETWEEN LADDERS OR STEPS AND THE OPPOSITE FACE OF THE SHAFT SHALL BE APPROXIMATELY 300MM.
- 6) WINCH ONLY - NO STEPS OR LADDERS, PERMANENT OR REMOVABLE.
- 7) THE MINIMUM SIZE OF ANY MANHOLE SERVING A SEWER (E.G. ANY DRAIN SERVING MORE THAN ONE PROPERTY) SHOULD BE 1200 MM X 675 MM RECTANGULAR OR 1200 MM DIAMETER.

COPIES OF DELIVERY NOTES FOR CONCRETE AND PIPE BEDDING WILL BE REQUIRED INTERMITTENTLY AS THE JOB PROGRESSES. ALL OTHER COMPONENT UNITS MUST BE KITE-MARKED.

IRONWORK IN MANHOLES

IF THE CHAMBER IS LESS THAN 3M DEEP WE REQUIRE DOUBLE ENCAPSULATED STEP RUNGS UNLESS OTHERWISE APPROVED. IF THE CHAMBER IS OVER 3M DEEP WE REQUIRE **HOT DIPPED GALVANISED MILD STEEL LADDERS**. THERE MUST BE 900MM BETWEEN LADDER AND BACK OF SHAFT. DEPTH IS MEASURED FROM FINISHED COVER LEVEL TO THE TOP OF THE BECHING. THE MAXIMUM DISTANCE BETWEEN COVER LEVEL AND THE FIRST STEP MUST BE 675MM.

COVER AND FRAMES

COVER SLAB OPENING, COVER AND FRAMES MUST BE 675 X 675 UNLESS OTHERWISE APPROVED.

DN400 SHALL BE USED AT ALL LOCATIONS. ON SPINE ROADS MUST BE 1500M DEEP. ON RESIDENTIAL CUL-DE-SACS 100MM MAY BE USED SUBJECT TO APPROVAL. FRAMES FOR MANHOLE COVERS SHOULD BE BEDDED IN A POLYESTER RESIN BEDDING MORTAR IN ALL SITUATIONS WHERE COVERS ARE SITED IN NSWRA ROAD CATEGORIES I, II OR III.

INFILL TYPE COVERS SHOULD NOT BE USED.

IN BLOCK PAVED AREAS 150MM DEEP FRAMES MUST BE USED (IN ACCORDANCE WITH DESIGN AND CONSTRUCTION GUIDANCE P22)

LATERALS

THEY SHOULD BE LAID TO THE SAME STANDARD AS PUBLIC SEWERS. THEY SHOULD HAVE NO CHANGES OF LINE OR GRADIENT BETWEEN THE SEWER AND THE DEMARCATION CHAMBER. THEY SHOULD HAVE AN ADAPTABLE MANHOLE AS THE DEMARCATION CHAMBER UNLESS THERE IS ONLY A PROPERTY WHEN A PLASTIC CHAMBER TO BS EN 13598-2:2009 IS ALLOWED. LOCKABLE B125 AND A15 COVERS MAY BE ALLOWED IN CERTAIN LOCATIONS SUBJECT TO APPROVAL. THE DEMARCATION SHOULD BE INSIDE THE BOUNDARY OF THE PROPERTY, NO MORE THAN 1M INSIDE THE PROPERTY. PROPERTY OWNERS MUST BE ADVISED TO KEEP THE DRIVEWAY AND NOT IN THE WHEEL TRACKS OF VEHICLES.

ANY POND BED LINING AND / OR BANK STABILISATION METHODS REQUIRED FOR BALANCING POND TO BE ASSESSED BY STRUCTURAL ENGINEER

MATERIALS FOR ADAPTABLE SEWERS

PIPES 150mm - 300mm DIA :-

SURFACE AND FOUL WATER PIPES ARE TO BE EXTRA STRENGTH VITRIFIED CLAY WITH FLEXIBLE MECHANICAL JOINTS. PIPES MUST COMPLY WITH THE RELEVANT REQUIREMENTS OF BS EN 295-1:2013 AND BS 65:1991 (surface water pipes only).

PIPES > 300mm:-

DIA SURFACE AND FOUL WATER PIPES ARE TO BE HIGH STRENGTH CONCRETE. CONCRETE PIPES AND FITTINGS WITH FLEXIBLE JOINTS SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS 5911-1:2002.

DRAINAGE KEY

FILL WATER
Marble

Pipe line

Pipe line to be adopted by others

Rising Main

SURFACE WATER
Marble

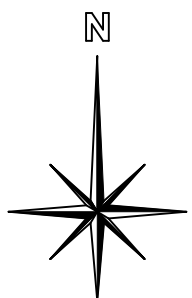
Pipe line

Pipe line to be adopted by others

Headwall

HIGHWAY DRAINAGE
Highway Drain /
Gully Connection

MISCELLANEOUS
Creek, Lagoon, etc.
up to 3000 ft. - 5 ft
3000 ft. and above - 10 ft



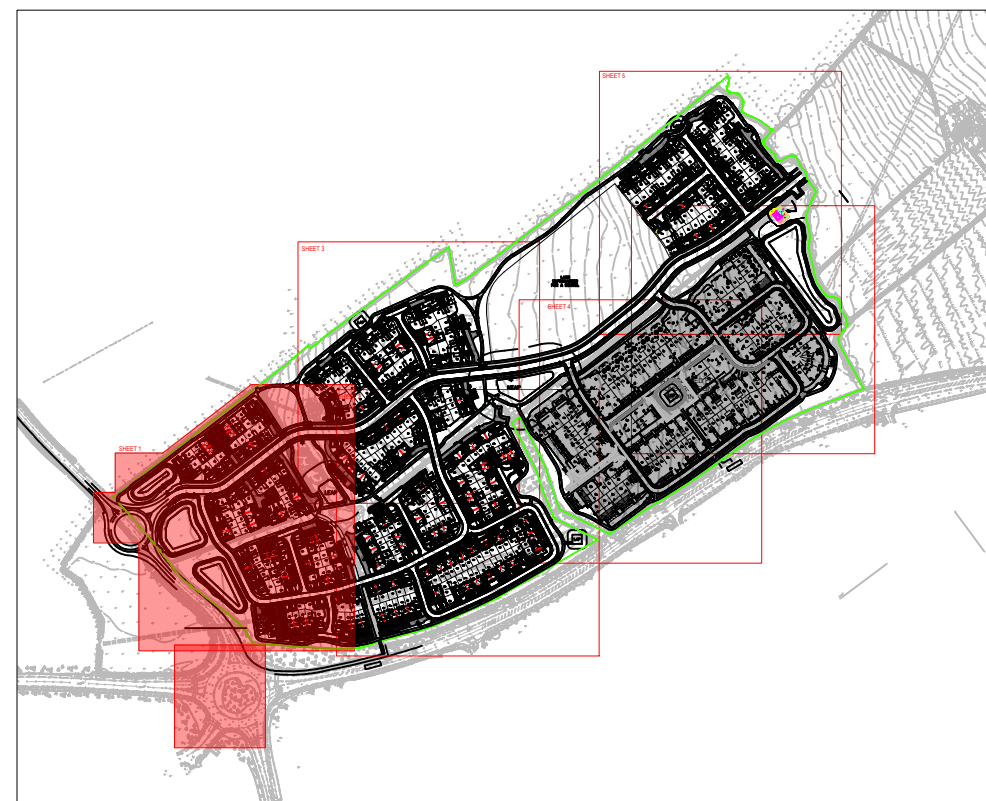
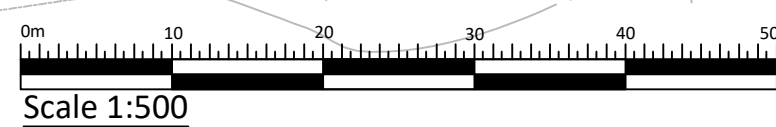
THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL
RELEVANT DESIGN DRAWINGS AND OTHER INFORMATION

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POND 2
TOP OF BASIN - 106.060m
BASIN IL - 104.310m
 1 IN 3 BANKS
 FEATURE DEPTH - 1.750m
 MAX WATER LEVEL (1 in 100yr + 40% CC) - 105.733
 FREEBOARD DEPTH - 336mm

POND 3
TOP OF BASIN - 106.109m
BASIN IL - 104.529m
 1 IN 3 BANKS
 FEATURE DEPTH - 1.580m
 MAX WATER LEVEL (1 in
 100yr + 40% CC) - 105.733
 FREEBOARD DEPTH - 385mm

POND 4
TOP OF BASIN - 106.204m
BASIN IL - 104.604m
 1 IN 3 BANKS
 FEATURE DEPTH - 1.600m
 MAX WATER LEVEL (1 in
 100yr + 40% CC) - 105.733
 FREEBOARD DEPTH - 471mm



1. THIS DRAWING IS COPYRIGHT AND SHOULD NOT BE REPRODUCED IN WHOLE OR PART WITHOUT THE WRITTEN CONSENT OF AJP MIDLANDS LTD.
2. DO NOT SCALE FROM THIS DRAWING.
3. ALL DIMENSIONS TO BE CHECKED ON SITE AND CO-ORDINATE WITH RELEVANT ARCHITECT'S DRAWINGS, ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER PRIOR TO CONSTRUCTION.
4. ALL DIMENSIONS IN METRES UNLESS NOTED OTHERWISE.
5. ALL LEVELS IN METRES.
6. SIZES HEREON SHALL NOT BE MODIFIED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
7. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEERS DRAWINGS & SPECIFICATIONS.

P05	20.04.2026	POND 3 DETAILS UPDATED	KG	KG	CG
P04	09.04.2026	LATEST DRAINAGE DESIGNS SHOWN AND DRAWING UPDATED TO SUIT S104 COMMENTS	KG	KG	CG
P03		GULLY LOCATIONS AMENDED	AQ	KG	CG
P02	04.12.2025	UPDATED TO SUIT LATEST LAYOUT	KG	KG	CG
P01	18.08.2025	INITIAL ISSUE FOR CLIENT REVIEW	LP	KG	CG
REV	DATE	DESCRIPTION	BY	CHK	APP

DRAWING STATUS: **S2 - ISSUED FOR INFORMATION**

CLIENT: VISTRY SOUTH EAST MIDLANDS

ARCHITECT: N/A

PROJECT: STOKES ROAD, HINCKLEY

S104 DRAINAGE GENERAL ARRANGEMENT
SHEET 1

STATUS:	PROJECT No.	PROJECT	ORIGINATOR	VOL/SYS	LEVEL	TYPE	ROLE	DRAWING No.	REV:
S2	M224-138	SRH -	AJP -	ZZ -	00 -	DR -	C -	2000	P05

SCALE @ A1: 1:500	DESIGNED: KG/LP	DRAWN: LP	CHECKED: KG	APPROVED: CS	DATE: 18.08.2025
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