



**NOTES** A0

1. Do not scale this drawing. All dimensions must be checked / verified on site. If in doubt ask.
2. This drawing is to be read in conjunction with all relevant Architects, Engineers and Specialist drawings and specifications.
3. All dimensions in millimetres unless noted otherwise. All levels in metres unless noted otherwise.
4. Any discrepancies noted on site are to be reported to the Engineer immediately.
5. The base specification for drainage works shall be the Water Authority Association 'Sewers for Adoption' (7th Edition).
6. For details of ground conditions refer to the Ground Investigation Report.
7. The following pipe strengths shall be adopted unless noted otherwise:
  - Pipes 150mm diameter up to and including 225mm to be classed to BS EN 296 Class 100
  - Pipes over 300mm diameter to be classed to BS 5911 Class M.
8. All pipe runs to be laid with flexible joints.
9. All pipes entering and exiting manholes are to be connected with pipe soffits level unless noted otherwise.
10. Bedding and surrounds to be as follows:

Location	Cover to Soffit	Bedding
Roads	>1.2m	Class 'S' granular bed and surround.
	<1.2m	Class 'X' Concrete surround.
Head and soft landscaping	>0.6m	Class 'S' granular bed and surround.
	<0.6m	Class 'X' Concrete surround.

Location	Mx Reference
Concrete surround to pipes	5%a
Concrete base and surround to manholes	5%a

- The above concrete mixes have been selected for BS 5800 Class 2 Sulphates.
13. All precast concrete products (ie pipes, manholes rings etc.) shall be of suitable concrete mix to cater for Class 2 sulphates.
  14. Preformed channels are to be used in manholes unless applicable.
  15. Granolithic concrete bedding to be steel trowelled to a dense smooth face neatly shaped and finished to all branch connections and laid in accordance with the Specification.
  16. All connections to be formed in direction of flow using pipe bends.
  17. Manhole covers and frames to be ductile iron medium duty Grade D400 circular or rectangular to BS EN124 positions inside vehicle traffic areas.
  18. First flexible joint in pipe adjacent to a manhole shall be a maximum of 600mm from inside face of manhole, connecting to rockier soil.

The length of rockier pipe is as follows:-

Pipe Diameter	Length of Rockier pipe
150mm-400mm	600mm

19. Manholes with outgoing pipes greater than 600mm diameter shall be fitted with guard bars, safety chains or other safety devices.
20. The Principal Contractor shall be responsible for checking the existing lines and invert levels of any connection points for both the foul and surface water systems, prior to undertaking installation of any new drainage works. Any deviation to the levels and positions indicated on the drawing should be brought to the immediate attention of the Principal Engineer.
21. All inverts specified are outgoing (except backlogs). All pipes are to be laid soffits levels UN.O.
22. All foul connections to be 150mm dia. laid at a minimum gradient of 1:100 unless noted otherwise. All surface water pipe to be 225mm dia. UN.O.
23. All connections to be made by purpose made junctions as far as practicable.
24. Manhole covers in block paved areas to be recessed to receive required surface finish.

**KEY**

- PROPOSED IMPERMEABLE AREA
- PROPOSED PRECAST OPEN U CHANNEL  
MINIMUM DIMENSIONS:  
HEIGHT: 453mm  
BASE: 375mm  
TOP: 1281mm  
SIDE SLOPE: 1 IN 3
- PROPOSED STORM DRAINAGE
- PROPOSED CELLULAR TANK AS ACO STORMBRIXX OR SIMILAR APPROVED
- PROPOSED PETROL INTERCEPTOR AS PER KLARGESTER REF: NSF240 OR SIMILAR APPROVED
- AREA IN WHICH MINIMUM FINISHED LEVEL TO BE 83.310 AOD
- PROPOSED FLOW DIRECTION OF RUN OFF - SLAB LEVELS TO BE SUCH THAT FALLS ARE TOWARDS THE PROPOSED CHANNEL / SWALE
- PROPOSED SWALE
- PROPOSED CONCRETE HESSIAN BAG HEADWALL

**PRELIMINARY FOR CONSTRUCTION**

Rev	Date	Description	By	Chkd By
X	12/04/2021	AMENDED TO SUIT LIFA COMMENTS.	JH	GL
-	03/02/2021	FIRST ISSUE.	JH	GL

Revision Schedule

Project Title  
**WESTCOTT VENTURE PARK  
BUCKS RECYCLING**

Drawing Title  
**RECOMMENDED DRAINAGE PLAN BASED ON  
EXISTING CONCRETE SLAB FALLS**

Drawn by	JH	Checked by	GL	Project Engineer	GL
Date	FEB 2021	Scale	1:500	Project No	12767
				Drawing No	401
				Rev	A

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