

RWP AND SVP ARE SUBJECT TO CONFIRMATION FROM ARCHITECT

| KEY | |
|-------|-------------------|
| — | EXISTING FW SEWER |
| ● | EXISTING FW MH |
| — | PROPOSED FW SEWER |
| — | PROPOSED SW SEWER |
| — | PROPOSED CW SEWER |
| - - - | EXISTING FW SEWER |
| - - - | EXISTING SW SEWER |
| - - - | EXISTING CW SEWER |
| ● | PROPOSED CW MH |
| ● | PROPOSED FW MH |
| ○ | PROPOSED SW MH |

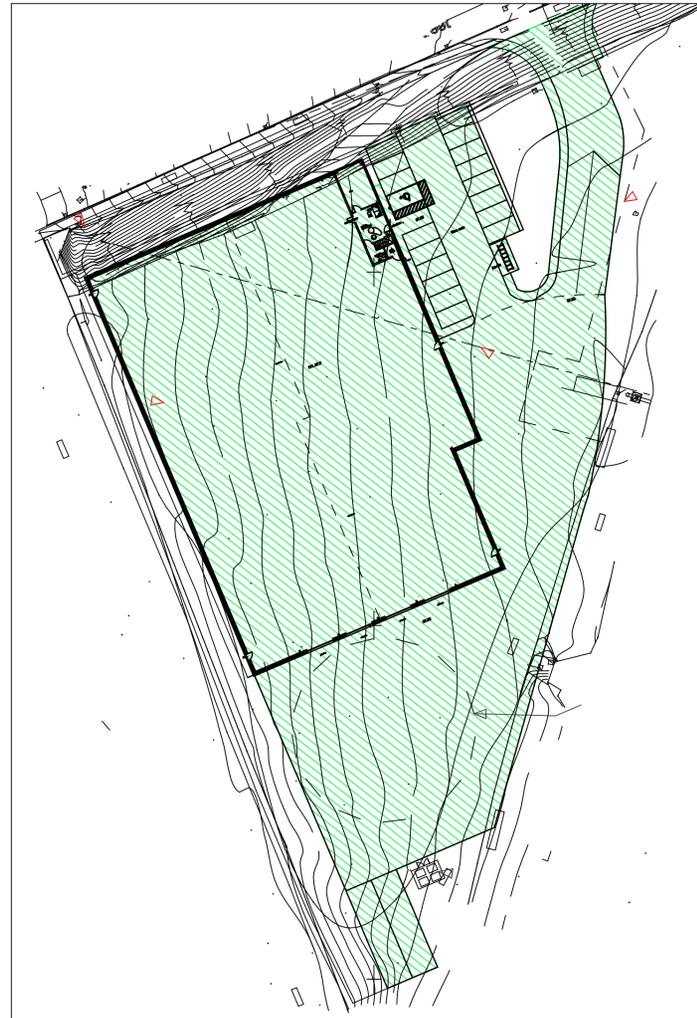
Drainage Strategy

Surface Water:
Flow restriction 2.5l/s

The proposed impermeable area is 5320m². Based on a flow restriction of 2.5l/s and modelling using Causeway Flow software the attenuation requirement for a peak return period of 1 in 100 year plus 40% climate change is **371m³**.

Attenuation to be provided via **GEO-CELLULAR TANK 23x10x1.6m DEEP WITH 95% VOID RATIO**. The flows will be attenuated using a 67mm Hydrobrake ref. MD-SHE-0067-2500-1600-2500.

Foul Water:
Foul will be treated on site and discharge into the Calder and Hebble Navigation subject to approval.



PROPOSED CATCHMENT AREA (5320m²)

DO NOT SCALE - IF IN DOUBT ASK

NOTES

- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ENG SPECIFICATION FOR DRAINAGE WORKS No.17 AND ANY OTHER SUBSEQUENT ADDITIONS TO THIS LIST.
- ALL BUILDING DRAINAGE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT BRITISH/EUROPEAN STANDARDS BSEN752, THE CURRENT BUILDING REGULATIONS AND THE LOCAL AUTHORITY BUILDING CONTROL OR NHBC SPECIFICATIONS AND REQUIREMENTS.
- FOR EXTERNAL FINISHED GROUND LEVELS REFER TO ARCHITECTS EXTERNAL WORKS DRAWING.
- ALL COVER LEVELS TO MANHOLES ARE APPROXIMATE ONLY AND MAY BE ADJUSTED ON SITE TO TIE IN WITH ARCHITECTS PROPOSED LEVELS.
- EXACT LOCATION OF RAINWATER DOWNPIPES AND ALL INTERNAL DRAINAGE POINTS TO BE CONFIRMED BY ARCHITECT. ALL NEW RAINWATER PIPE OUTLETS TO BE RODDABLE.
- FOR ALL SETTING OUT, DIMENSIONS AND CURRENT SITE LAYOUT REFER TO ARCHITECTS DRAWING. DO NOT SCALE FROM THIS DRAWING
- INVERT LEVELS OF ALL OUTFALL POINTS TO BE CLARIFIED PRIOR TO COMMENCING DRAINAGE WORKS. POSITION SIZE AND DEPTH OF ALL EXISTING DRAINS AND SERVICES SHALL BE ESTABLISHED PRIOR TO COMMENCEMENT ON SITE AND ANY DISCREPANCIES REPORTED TO ENGINEER.
- THE CONTRACTOR SHALL ALLOW FOR THE PROTECTION, TEMPORARY AND PERMANENT DIVERSION WORKS, AS NECESSARY TO ALL EXISTING SERVICES
- THE CONTRACTOR SHALL ALLOW FOR ALL TRAFFIC MANAGEMENT IN CONNECTION WITH ROAD AND SEWER WORKS
- THE CONTRACTOR SHALL ALLOW FOR KEEPING TRENCHES AND EXCAVATIONS AS DRY AS PRACTICABLE BY PUMPING FROM TEMPORARY SUMPS AND DEWATERING AS APPROPRIATE. THE POINT AND METHOD OF DISCHARGE TO BE AGREED WITH THE DRAINAGE AUTHORITY AND ENVIRONMENT AGENCY
- ALL DRAINAGE CHANNELS ARE TO BE SIZED BY MANUFACTURER FOR AREAS DRAINED AND TO HAVE BUILT IN FALLS AND SILT TRAP OUTLETS WITH HEAVY DUTY COVERS SUITABLE TO HGV's.
- ALL SW PIPES TO BE MIN. 150 DIA UNO. @ MIN 1:150. ALL FW PIPES TO BE 100 DIA UNO. @ MIN 1:80 UNO.
- CCTV SURVEY TO BE COMPLETED AFTER INSTALLATION BY CONTRACTOR. ANY UNSATISFACTORY AREAS TO BE REPAIRED AS REQUIRED AT CONTRACTORS EXPENSE, AND CONTINUE PROCESS UNTIL APPROVAL FROM KRYPTON.
- ALL GULLYS TO BE RODDABLE, ALL DOWNPIPES TO BE RODDABLE.

DRAINAGE PLAN (SCALE 1: 250)

| P1 | 28.03.25 | 1st issue | MAC | ATH | ATH |
|-----|----------|-------------|-----|-----|-----|
| Rev | Date | Description | By | Chk | App |

KRYPTON STRUCTURES
CIVIL & STRUCTURAL ENGINEERS

KEIGHLEY OFFICE
SHERATON SUITE, SUNDERLAND ENTERPRISE CENTRE,
SUNDERLAND STREET, KEIGHLEY, BD21 5LE

HARROGATE OFFICE
HAMMERBAIN HOUSE, HOOKSTONE AVENUE, HARROGATE, HG2 8ER

TEL: 01535 538014 | 0778924848
EMAIL: INFO@KRYPTONSTRUCTURE.COM
VIST: WWW.KRYPTONSTRUCTURE.COM

| | | | | | |
|-------------|--------------------------|--------------|----|-------|-----|
| CLIENT | A & K Properties | | | | |
| PROJECT | Bretton Street, Dewsbury | | | | |
| TITLE | Drainage Strategy | | | | |
| SCALE | As Shown @ A1 | DRAWING SIZE | A1 | DRAWN | MAC |
| DRAWING No. | KS826 / D01 | | | REV. | P1 |