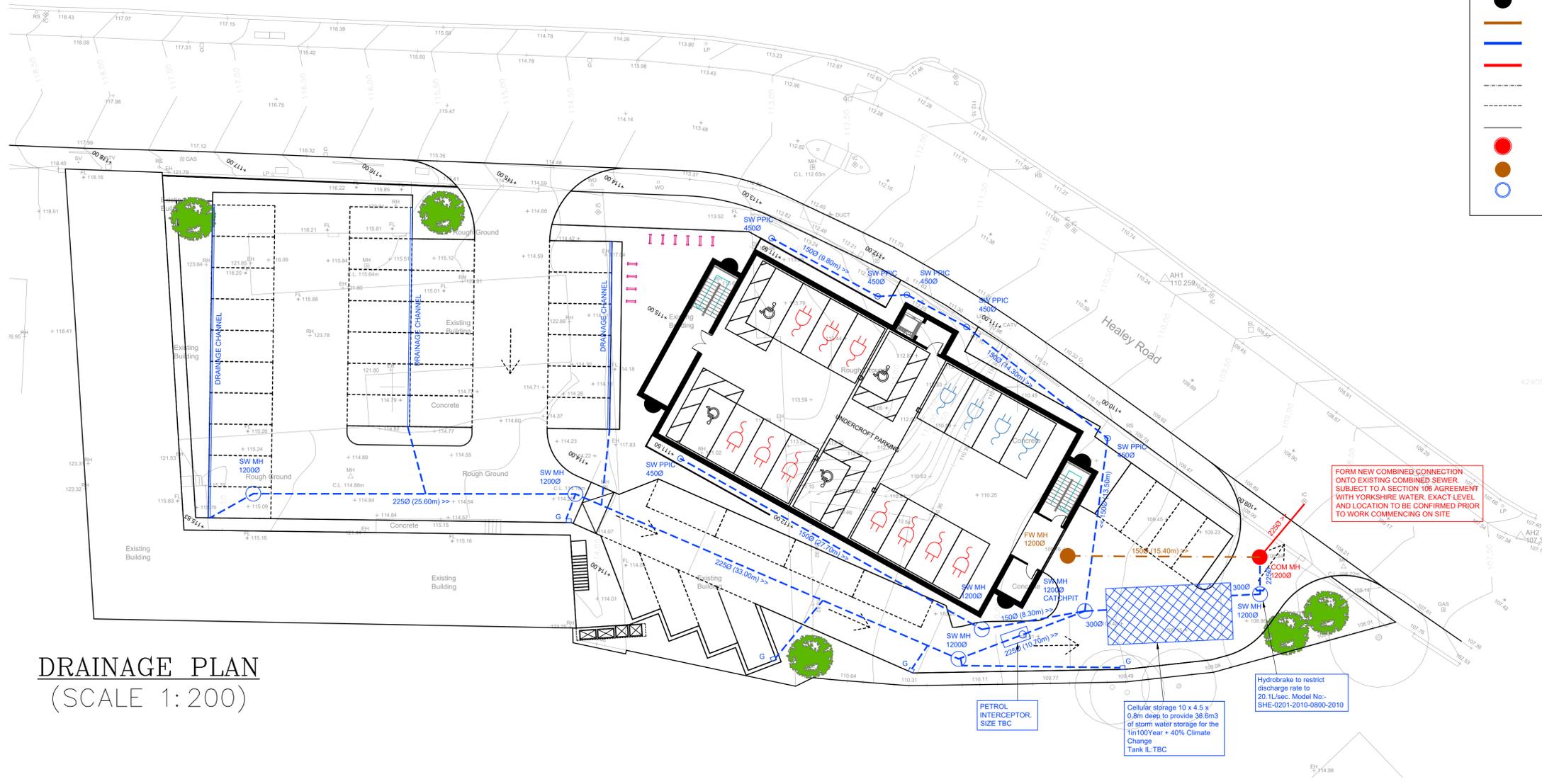
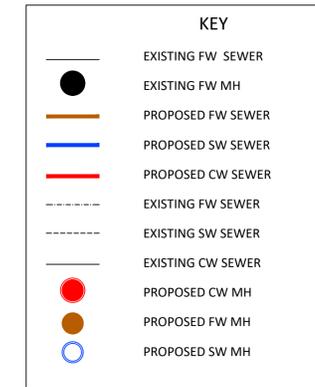


NOTES

- 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 SUPPORT, AND 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.

RWP AND SVP ARE SUBJECT TO CONFIRMATION FROM ARCHITECT



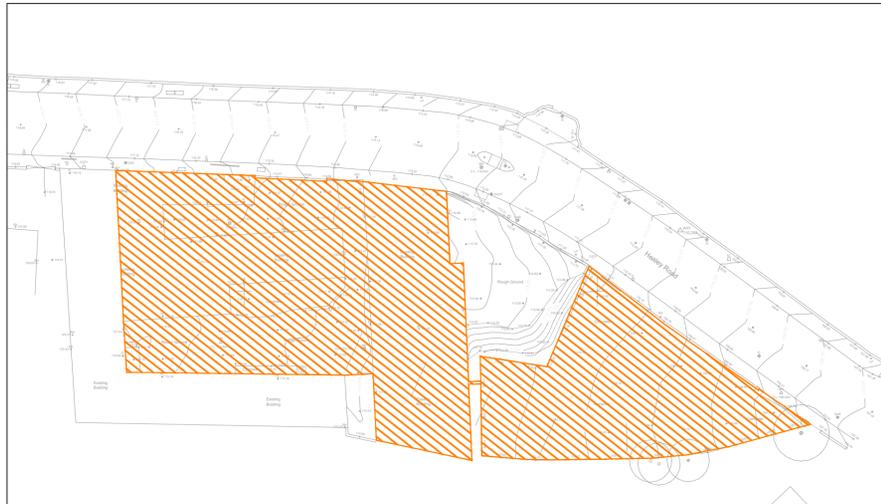
FORM NEW COMBINED CONNECTION ONTO EXISTING COMBINED SEWER SUBJECT TO A SECTION 106 AGREEMENT WITH YORKSHIRE WATER. EXACT LEVEL AND LOCATION TO BE CONFIRMED PRIOR TO WORK COMMENCING ON SITE

PETROL INTERCEPTOR SIZE TBC

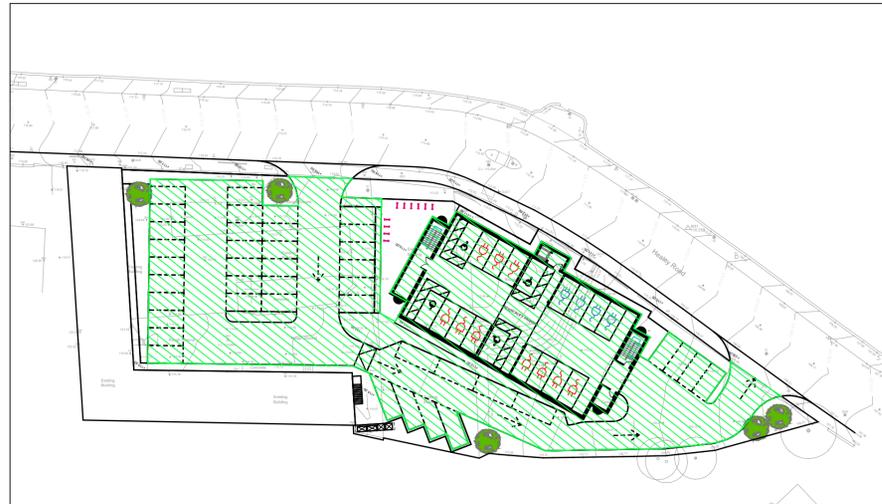
Cellular storage 10 x 4.5 x 0.8m deep to provide 38.8m³ of storm water storage for the 1in100Year + 40% Climate Change Tank IL.TBC

Hydrobrake to restrict discharge rate to 20.1l/sec. Model No. SHE-0201-2010-0800-2010

DRAINAGE PLAN
(SCALE 1:200)



EXISTING CATCHMENT AREA
(2160m²)



PROPOSED CATCHMENT AREA
(1970m²)

Drainage Strategy

The site is currently a brownfield site consisting of an existing building and hard standing parking area. The site has 2160m² of hard standing impermeable area which drains into the combined public sewer in within site. This has an existing surface water run off of 30.20L/sec for the 1in 1 year storm.

We therefore proposed a 30% betterment to the existing run off. Subject to agreement with Yorkshire Water

Surface Water:

Flow restriction 21.1l/s

The proposed impermeable area is 1970m². Based on a flow restriction of 21.1l/s and modelling using Causeway Flow software the attenuation requirement for a peak return period of 1 in 100year plus 40% climate change is 36.6m³.

Attenuation to be provided by **GEO-CELLULAR TANK 7x5x1.2m DEEP WITH 95% VOID RATIO**. The flows will be attenuated using a 201mm Hydrobrake ref: MD-SHE-0201-2010-0800-2010.

Foul Water:

Foul will be connected into the existing combined sewer in Healey Road subject to a section 106 agreement with Yorkshire Water.

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|----|----------|-----------|-----|-----|-----|
| P1 | 12.07.24 | 1st issue | MAC | ATH | ATH |
|----|----------|-----------|-----|-----|-----|

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| | | | | | |
|-------------|-------------------------------|--------------|----|-------|-----|
| CLIENT | | | | | |
| PROJECT | Healey Lane, Batley, WF17 7SH | | | | |
| TITLE | Drainage Strategy | | | | |
| SCALE | As Shown @ A1 | DRAWING SIZE | A1 | DRAWN | MAC |
| DRAWING No. | 580 / D01 | | | REV. | P1 |