

## SURFACE WATER DRAINAGE STRATEGY

THE SITE BOUNDARY ACCOUNTS FOR 203ha HOWEVER, OF THE EXISTING SITE, IT IS CONSIDERED THAT THE DEVELOPED AREA CONTRIBUTING TO CHANGES IN THE DRAINING CHARACTERISTICS OF THE EXISTING GREENFIELD SITE ACCOUNTS FOR A TOTAL AREA OF 107ha. EXISTING WATERCOURSE DETAILS, LOCATION AND LEVELS TO BE CONFIRMED BY FURTHER SITE INVESTIGATIONS TO AID WITH DESIGN FOR DISCHARGE CONNECTIONS. NO DITCHES OR WATERCOURSES HAVE BEEN IDENTIFIED AS REQUIRING DIVERSION AS PART OF THE DEVELOPMENT PROPOSALS.

THE PROPOSED SITE WIDE DRAINAGE STRATEGY WILL COMPLY WITH THE BELOW INCLUSIONS FOR ON SITE SURFACE WATER MANAGEMENT AND MITIGATE FLOOD RISK OFF SITE.

- PROPOSED DISCHARGE RATE IS TO RETAIN GREENFIELD RUNOFF RATES TO BE RESTRICTED TO Q90 = 203.30m<sup>3</sup>/s. REQUIRED FOR THE MAIN SITE TO MANAGE STORM EVENTS UP TO AND INCLUDING THE 1:100 YEARS STORM EVENT WITH THE INCLUSION FOR THE REMAINING ATTENUATION IS ESTIMATED TO BE = 52.11m<sup>3</sup>/s ADD: THE TOTAL STORAGE ACCOMMODATED AS PART OF THE SITE WIDE STRATEGY THROUGH DETENTION BASINS/B BELOW GROUND STORAGE TANKS IS = 36.98m<sup>3</sup>

PROPOSED SURFACE WATER DRAINAGE STRATEGY IS BASED ON DISCHARGE RATE OF 50% OF THE GREENFIELD SITE. RESTRICTING EXISTING GREENFIELD RUNOFF TO Q90 FOR THE PROPOSED DEVELOPMENT THROUGH THE USE OF ATTENUATION. IT IS NOT ANTICIPATED THAT THE STORAGE VOLUME IDENTIFIED ABOVE WOULD BE SUFFICIENT ON ITS OWN TO BE MANAGE WITHIN THE OVERALL SITE WIDE STORAGE AS SHOWN. IT WILL THEREFORE BE NECESSARY FOR THE REMAINING ATTENUATION TO BE PROVIDED WITHIN THE DEVELOPMENT PLOTS. VS SUSTAINABLE DRAINAGE MEASURES OF BOTH SOURCE CONTROL AND ATTENUATION TO MATCH THE RETAINING SITE DESIGN AND STORAGE NEEDS. THE BELOW SIDS FEATURES ARE RECOMMENDED AS PART OF THE ON PLOT AND SITE WIDE DRAINAGE:

- DETENTION BASINS
- BELOW GROUND TANKS
- SWALES
- FILTER TRENCHES
- BLUE/GREEN ROOFS
- RAIN GARDENS
- OVERSIZE PIPES

FOR CONTINUATION SEE DRAWING RAM-XX-DR-C-0101

PROPOSED CROSSING POINT  
BRENT MAIN SEWER ROAD TO  
RUSPER ROAD

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PROPOSED CROSSING POINT  
BRENT MAIN SEWER ROAD TO  
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ADDITIONAL TANK  
THIS WILL BE A  
DEVICE BEFORE  
A HEADWALL

Notes

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2. ALL DIMENSIONS ARE MILLIMETRES U.N.C.

3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.

4. ALL DRAWDRAWS WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH 'SEWERAGE SECTOR GUIDANCE APPENDIX C' FORMERLY KNOWN AS SEWERS FOR ADDITIONAL BUILDING REGULATIONS PART H AND CIVIL ENGINEERING SPECIFICATION FOR THE WATER INDUSTRY WHERE APPROPRIATE.

DRAWINGS HAVE BEEN PRODUCED BASED ON:

PRIOR & PARTNERS' MASTERPLAN LAYOUT - 23/08/2028. NO SITE DETAILED STUDIES

OS BASE MAP

5. DRAWINGS HAVE BEEN PRODUCED BASED ON:

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