



MAIN PUMPING STATION
 PUMPING STATION, RISING MAIN AND COMPOUND TO BE BUILT TO ANGLIAN WATER ADOPTABLE STANDARDS.

PROPOSED **PEAK FOUL FLOWS** FROM THE DEVELOPED SITE BASED ON THE DESIGN AND CONSTRUCTION GUIDELINES (DCG). NOTE THE DCG METHOD INCLUDES FOR DOMESTIC FLOWS FROM THE DEVELOPED SITE AND A SMALL ALLOWANCE FOR TRADE EFFLUENT ASSUMING A PROPORTION OF THE SITE IS ALLOCATED TO WET INDUSTRY.

TOTAL AREA IN ha = 28 ha
 DOMESTIC TYPE FLOW = AREA x 0.6 l/s
 COMMERCIAL / INDUSTRIAL TRADE EFFLUENT ALLOWANCE = AREA x 0.7 l/s
 THEREFORE TOTAL INCOMING FLOW = 28 x 1.3 = **36.4 l/s**

CL = 111.700
 IL (IN) = 107.190
 PEAK FLOW = 36.4l/s (USING DCG METHOD)
 DRY WEATHER FLOW (DWF) = 6l/s (ASSUMING PEAK FLOW IS 6 x DWF)

EMERGENCY STORAGE:
 BASED ON THE DCG METHOD ONE HOUR OF PEAK FLOW RATE TO BE STORED = 131,040 LITRES | 131 m³

UNIT 08 TO BE PUMPED INTO MAIN PUMPING STATION NORTH EAST OF SITE.

RISING MAIN TO CROSS THE MAIN ROAD

APPROXIMATE RISING MAIN LENGTH = 950m

STOKE LYNE SEWAGE WORKS

APPROX. 39m LONG EXISTING 1500 SEWER WITH 1:28 FALL. EXISTING FLOW CAPACITY USING A K VALUE OF 1.5 = 30 L/SEC.

EXISTING ANGLIAN WATER MANHOLE REF. 5301
 CL 110.790
 IL 109.550

STOKE LYNE VILLAGE

BREAK CHAMBER WITH MIN 5m OF 1500 GRAVITY SEWER
 CL 110.790 TBC
 IL 110.190

EXISTING ANGLIAN WATER MANHOLE REF. 5201
 CL 112.390
 IL 111.400

APPROX. 52m LONG EXISTING 1500 SEWER WITH 1:28 FALL. EXISTING FLOW CAPACITY USING A K VALUE OF 1.5 = 30 L/SEC.

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- LEGEND**
- SITE BOUNDARY
 - - - EXISTING FOUL WATER DRAIN WITH MANHOLE
 - EXISTING SEWAGE TREATMENT WORKS AT STOKE LYNE
 - - - NEW FOUL WATER DRAIN WITH MANHOLE
 - NEW PRIVATE PUMPING STATION LOCATED WITHIN THE SOUTHERN DEVELOPMENT
 - - - NEW PRIVATE RISING MAIN FROM SOUTHERN SITE TO MAIN PUMPING STATION
 - NEW MAIN PUMPING STATION BUILT TO ADOPTABLE STANDARDS
 - - - NEW ADOPTABLE STANDARD RISING MAIN FROM MAIN PUMPING STATION TO BREAK CHAMBER

FOUL WATER DRAINAGE STRATEGY

DOMESTIC FOUL WATER TO DISCHARGE VIA GRAVITY INTO A PUMPING STATION LOCATED ON THE EASTERN SIDE OF THE SITE BUILT TO ADOPTABLE STANDARDS.

THE COMPOUND WILL BE ACCESSED FROM THE END OF THE MAIN ACCESS ROAD.

THE CURRENT DEPTH OF THE PUMPING STATION IS ASCERTAINED ASSUMING FOUL SEWERS ARE REQUIRED TO THE FULL EXTENT OF EACH UNIT AND DRAINS VIA GRAVITY TO THIS LOCATION.

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Berkhamsford Office
 Bourne House
 Prince Edward Street
 Berkhamsford
 Herts, UK, SG2
 United Kingdom
 T: +44 (0)20 8669 1903
 E: info@hdr.co.uk
 W: www.hdr.co.uk

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 Project No: M40 JUNCTION 10
 Drawing No: FOUL WATER DRAINAGE STRATEGY
 Planning

Purpose of Issue: Information Preliminary Approval Tender Construction Record Copy Other