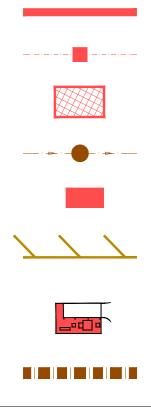


LEGEND



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 BUILT TO ADOPTABLE STANDARDS

NEW ADOPTABLE STANDARD RISING MAIN FROM MAIN PUMPING STATION TO BREAK CHAMBER TOTAL AREA IN ha = **28 ha** DOMESTIC TYPE FLOW = AREA x 0.6 I/s COMMERCIAL / INDUSTRIAL TRADE EFFLUENT ALLOWANCE = AREA x 0.7 I/s THEREFORE TOTAL INCOMING FLOW = 28 x 1.3 = **36.4 I/s**

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

> STOKE LYNE SEWAGE WORKS

APPROX. 39m LONG EXISTING 150Ø SEWER WITH 1:28 FALL. EXISTING FLOW CAPACITY USING A K VALUE OF 1.5 = 30 L/SEC.

> BREAK CHAMBER WITH MIN 5m OF 150Ø GRAVITY SEWER CL 110.790 TBC IL 110.190

APPROX. 52m LONG EXISTING 150Ø SEWER WITH 1:28 FALL. EXISTING FLOW CAPACITY USING A K VALUE OF 1.5 = 30 L/SEC.

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FOUL WATER DRAINAGE STRATEGY

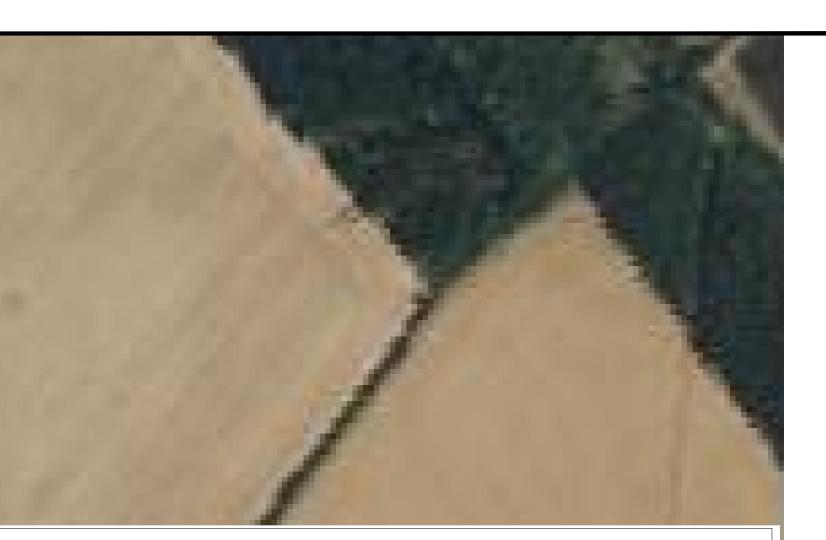
DOMESTIC FOUL WATER TO DISCHARGE VIA GRAVITY INTO A PUMPING STATION LOCATED ON THE EASTERN SIDE OF THE SITE BUILT TO ADOPTABLE STANDARDS.

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.

APPROXIMATE RISING MAIN LENGTH = 950m

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.

