



KEY

- SITE BOUNDARY
- EXISTING FOUL WATER SEWER
- SURFACE WATER SEWER
- FOUL WATER DRAIN
- EXISTING SEWER EASEMENT
- BIORETENTION AREA
- SWALE WITH UNDERGRAIN
- ROOT PROTECTION
- MODELLED 1% AEP + 35% CLIMATE CHANGE FLOOD EXTENT
- APPROXIMATE LEVEL DIFFERENCE FROM EXISTING TO PROPOSED (m)

- DRAINAGE STRATEGY :**
- SURFACE WATER DRAINAGE STRATEGY BASED ON NO INFILTRATION POSSIBLE ACROSS THE SITE DUE TO HIGH GROUNDWATER LEVELS AND INSUFFICIENT FREEBOARD BETWEEN THE BASIN AND GROUNDWATER LEVELS.
 - DISCHARGE TO RIVER LODDON TO GREENFIELD RUNOFF RATE OF 2/3/70, BASED ON A PROPOSED IMPERMEABLE AREA OF 3.528ha. PEAK FLOW RATE FROM SITE WILL BE RESTRICTED TO 7.0/s.
 - MAIN ATTENUATION STORAGE PROVIDED WITHIN AN ATTENUATION BASIN. ROADSIDE SWALES FEATURES ACROSS THE SITE INCLUDE SWALES AND BIORETENTION.
 - FOUL DISCHARGE BASED ON THREE SEPARATE OUTFALLS INTO THE EXISTING THAMES WATER FOUL WATER SEWER NETWORK WITHIN THE SITE.

SURFACE WATER DETAILS
IMPERMEABLE AREA = 3.528ha
GREENFIELD RATE = 2/3/70
DISCHARGE RATE = 7.0/s

F	MINOR ROADSIDE SWALE UPDATES	JOK	06.05.25
E	MINOR LEVEL UPDATES	JOK	07.03.25
D	MINOR LAYOUT UPDATES, ADDITIONAL LEVELS ADDED	JOK	09.03.25
C	ATTENUATION CAPACITY RECALCULATED	JOK	24.01.25
B	MINOR DRAINAGE UPDATES	JOK	11.11.24
A	OFFLINE STORAGE ADDED	JOK	08.11.24
Rev	Description	Rev	Date
1	REVISIONS		
1	Preliminary Issue	✓	Submitted for S104
2	Planning Issue		Issued for Tender
3	Submitted for S38		Issued for Construction
4	Submitted for S278		As Built
DRAWING STATUS			

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BRIDGE FARM
TWYFORD

OVERALL
DRAINAGE STRATEGY

DATE: OCT 24 DRAWN BY: JOK CHECKED BY: JOK
SCALE: 7236.401 F 1:500 © A0

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