



PERMAVOID PAVING 1.0
 AREA 400 m²
 DEPTH OF STORAGE 0.60 m
 BASE LEVEL -0.30 m AOD
 MIN. COVER LEVEL 0.90 m AOD
 VOID RATIO 95%
 LONGITUDINAL SLOPE 1:600
 STORAGE VOLUME 228.0 m³
 225mmØ ORIFICE PLATE ON OUTFALL FROM PERMEABLE PAVING TO WIDER NETWORK.

PERMAVOID PAVING 2.0
 AREA 565 m²
 DEPTH OF STORAGE 0.60 m
 BASE LEVEL -0.20 m AOD
 MIN. COVER LEVEL 1.00 m AOD
 VOID RATIO 95%
 LONGITUDINAL SLOPE 1:600
 STORAGE VOLUME 322.1 m³
 225mmØ ORIFICE PLATE ON OUTFALL FROM PERMEABLE PAVING TO WIDER NETWORK.

POND 1.0
 TOP AREA 245 m²
 BASE AREA 14 m²
 DEPTH OF STORAGE 2.450 m
 BASE LEVEL -1.55 m AOD
 TWL (100yr. + CC) 0.574 m AOD
 MIN. COVER LEVEL 0.990 m AOD
 SIDE SLOPES 1:2 (STEPPEL)
 LONGITUDINAL SLOPE 1:600
 STORAGE VOLUME 262.6 m³

PERMAVOID PAVING 3.0
 AREA 700 m²
 DEPTH OF STORAGE 0.90 m
 BASE LEVEL -0.20 m AOD
 MIN. COVER LEVEL 1.00 m AOD
 VOID RATIO 95%
 LONGITUDINAL SLOPE 1:600
 STORAGE VOLUME 598.5 m³
 225mmØ ORIFICE PLATE ON OUTFALL FROM PERMEABLE PAVING TO WIDER NETWORK.

ASSUMED ROUTE OF EXISTING DITCH TO BE CULVERTED SUBJECT TO DETAILED SURVEY OF UPSTREAM AND DOWNSTREAM CONNECTIONS. SIZE OF CULVERT TO BE DETERMINED AT DETAILED DESIGN.

DRAINAGE TO BE ROUTED BELOW PROPOSED CULVERT SUBJECT TO DETAILED DESIGN

CONNECTION INTO EXISTING THAMES WATER FOUL WATER SEWER SUBJECT TO SURVEY TO DETERMINE INVERT LEVEL

ASSUMED ROUTE OF EXISTING CULVERT TO BE CLEARED AND SURVEYED TO DETERMINE CONDITION AND SOURCE

PROPOSED PUMPING STATION WITH 15m CORDON SANITAIRE CONSERVATIVELY INDICATED SUBJECT TO CAPACITY CHECK AND SURVEY OF INVERT LEVEL OF EXISTING THAMES WATER SEWER WITHIN YARNTON WAY

PROPOSED SURFACE WATER PUMPING STATION WITH 15m CORDON SANITAIRE. CL 0.950 IL -1.581 MAXIMUM DISCHARGE RATE - 3.7 l/s

ASSUMED BASE ROUTE OF EXISTING CULVERT TO BE CLEARED AND SURVEYED TO DETERMINE CONDITION CL 0.94 IL -0.70 LEVEL TAKEN FROM CCTV SURVEY UNDERTAKEN BY CADMAP IN JULY 2023. PLEASE NOTE: CULVERT COULD NOT BE SURVEYED DUE TO SILT BUILD-UP

DRAINAGE TO BE ROUTED BELOW EXISTING CULVERT SUBJECT TO ADDITIONAL SURVEY

OUTFALL INTO EXISTING DITCH AND CULVERT SUBJECT TO CONDITION SURVEY OF UPSTREAM AND DOWNSTREAM EXTENTS OF ORDINARY WATERCOURSE TO ASCERTAIN CONDITION AND CULVERT SIZING

- NOTES:**
- DO NOT SCALE FROM THIS DRAWING.
 - ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM AND ALL DIAMETERS IN MILLIMETRES UNLESS OTHERWISE STATED.
 - PROPOSED DRAINAGE IS SHOWN INDICATIVELY AND FOR INFORMATION ONLY.
 - LAYOUT BASED ON PROPOSED SITE PLAN PRODUCED BY STOCKWOOL IN AUGUST 2023 (REF. 3499-STO-SW-ZZ-PL-A-90100)
 - THIS DRAWING HAS BEEN BASED UPON TOPOGRAPHIC SURVEY DATA PRODUCED BY CADMAP IN JULY 2023 (REF. UNDERGROUND UTILITY SURVEY). LEVELS TO BE CONFIRMED ON SITE.
 - LOCATION OF EXISTING SEWERS HAVE BEEN TRANSCRIBED FROM THAMES WATER ASSET PLAN.
 - EXISTING SEWERS DETAILS (INCLUDING SIZE, LEVELS, & CONDITION) SHOULD BE CONFIRMED BY A CCTV DRAINAGE SURVEY.
 - LOCATIONS OF OTHER UTILITIES SHOULD BE CONFIRMED ON SITE AND CHECKED FOR CLASHES WITH PROPOSED DRAINAGE STRATEGY.
 - ALL PERMEABLE PAVING PROPOSED WITH 600mm DEEP STORAGE WITH A 30% VOID RATIO.

- KEY**
- SITE BOUNDARY
 - ASSUMED ROUTE OF EXISTING SURFACE WATER DRAIN / CULVERT TO BE REPAIRED FOR REUSE
 - PROPOSED SURFACE WATER SEWER & MANHOLE (MH) / INSPECTION CHAMBER (IC)
 - CATCHPIT MANHOLE / INSPECTION CHAMBER
 - PROPOSED FOUL WATER SEWER & MANHOLE (MH) / INSPECTION CHAMBER (IC)
 - PROPOSED PRIVATE FOUL WATER PUMPING STATION COMPOUND, RISING MAIN AND 15m CORDON SANITAIRE
 - PROPOSED 3m EASEMENT FROM PROPOSED PRIVATE RISING MAIN
 - PROPOSED PRIVATE FOUL WATER PUMPING STATION COMPOUND, RISING MAIN AND 15m CORDON SANITAIRE
 - PROPOSED PERMAVOID PAVING (95% VOID RATIO)
 - PROPOSED PERMEABLE PAVING (30% VOID RATIO)
 - PROPOSED DETENTION BASIN
 - PROPOSED HEADWALL
 - PROPOSED EXCEEDANCE FLOW ROUTES

DRAFT FOR PLANNING

Rev	Description	Drn	Chk	App	Date
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Client: **BELLWAY HOMES LIMITED**

Project Title: **YARNTON WAY, BELVEDERE**

Drawing Title: **PROPOSED DRAINAGE STRATEGY**

A1 Scale: 1:500	Date: August 2023	Designed by: LB
Drawn by: LB	Checked by: CC	Approved by: BC
Drawing Number: 194180-D-014	Rev: -	