

GENERAL
 Do not scale from this drawing.
 All dimensions are in millimetres unless noted otherwise.
 All setting out to architects drawings.
 Drawing to be read in conjunction with all other SEA drawings and architects drawings.
 This scheme has been designed using the survey information provided by others. It shall be the responsibility of the contractor to verify levels, boundaries etc prior to commencing any works on site. SEA Structural Engineers Ltd, shall not accept any responsibility for errors resulting from the survey.
 All setting out to be in accordance with the Architect's drawings. The Contractor to check all dimensions and levels prior to commencement of work and report any discrepancies to the Engineer, including any encountered during construction works.
 All dimensions should be checked on site prior to construction. Please notify the Engineer of any discrepancies before commencing or continuing any work.
HEALTH, SAFETY & THE ENVIRONMENT
 In accordance with the Health and Safety at Work etc Act 1974 and the Construction (Design and Management) Regulations 2015, designs and details on this drawing have been the subject of a Designers Risk Assessment, to identify risks to construction, use, or demolition of the scheme.
 It is not considered necessary for Designers to highlight obvious and/or common risks (such as deep excavations, manual handling and working around heavy plants) which Contractors should be familiar with.
 So far as is reasonably practicable, risks inherent in the design have been eliminated. Where it has been considered that elimination of a risk (or part of a risk) is not reasonably practicable, it has been reduced.
 Significant unusual residual risks are identified below, beside the measures which have been adopted to eliminate and/or reduce them:
 • Existing services unknown must be confirmed prior to construction
DRAWING KEY:
 - - - Existing surface water
 - - - Proposed surface water
 Proposed extent of permeable paving
 Proposed filter drain
 Overland Flow routes

Manhole Schedule				Manhole Schedule			
Node	CL (m)	Depth (m)	Dia (mm)	Node	CL (m)	Depth (m)	Dia (mm)
S1	66.000	1.425	1200	S39	63.997	1.725	1500
S2	65.250	1.500	1200	S40	69.108	1.425	1200
S3	65.250	1.672	1200	S41	68.797	1.500	1200
S4	65.250	1.000	450	S42	68.630	1.500	1200
S5	65.250	1.364	450	S43	68.757	1.704	1200
S6	65.250	1.734	600	S44	68.657	1.872	1200
S7	65.150	1.713	1200	S45	66.907	1.500	1200
S8	65.000	1.616	1200	S46	66.117	1.375	1500
S9	65.300	2.087	1200	S47	65.822	1.375	1500
S10	64.800	1.661	1200	S48	65.363	1.375	1500
S11	64.904	2.571	1200	S49	64.744	1.375	1500
S12	65.250	1.425	1200	S50	64.245	1.375	1500
S13	65.000	1.575	1350	S51	63.681	1.375	1500
S14	64.500	1.425	1200	S52	63.310	1.725	1500
S15	64.750	2.754	1350	S53	64.684	1.425	1200
S16	63.109	1.659	1350	S54	64.577	1.425	1200
S17	63.500	2.189	1350	S55	64.128	1.425	1200
S18	63.750	1.500	1200	S56	62.000	1.575	1350
S19	63.000	1.500	1200	S57	62.546	2.294	1350
S20	62.500	1.650	1350	S58	62.896	2.734	1350
S21	62.250	1.425	1200	S59	63.118	3.303	1500
S22	62.000	1.655	1350	S60	61.979	2.236	1500
S23	61.750	2.575	1350	S61	60.200	1.875	1500
S24	56.050	Head	Wall	S62	56.050	Head	Wall
S25	70.239	1.425	1200	S63	56.050	Head	Wall
S26	69.848	1.500	1200				
S27	69.614	1.500	1200				
S28	68.746	1.575	1350				
S29	68.567	1.500	1350				
S30	68.288	1.575	1350				
S31	68.003	1.575	1350				
S32	67.461	1.575	1350				
S33	66.785	1.575	1350				
S34	66.159	1.575	1350				
S35	66.459	1.425	1200				
S36	66.192	1.425	1200				
S37	65.805	1.425	1200				
S38	65.352	1.650	1350				



EMPLOYMENT DEVELOPMENT PART OF SEPARATE PLANNING APPLICATION BUT LINKED STORM WATER STRATEGY

Online Detention Basin for Residential and Industrial Developments
 IL = 54.000
 Permanent water depth of 500mm to be provided
 Outlet IL = 54.500
 maximum water level = 55.516, as per calculations for the 100-100-40% storm event.
 Basin crest at 1.500
 Providing a total storage volume of 300.0m³ in the 10-100 year event plus a 40% allowance for climate change.

Proposed flow control chamber retaining flows to 8.3/s
 Design Head = 1.200m
 Hydracalc Ref. SHE-01306-8300-1261-8300

Existing flow control chamber retaining flow to 8.3/s as per drawings and design by Blackwell
 Existing online detention basin designed for a drained area of 0.64ha as per drawings and design by Blackwell. Proposals do not increase drained area therefore no impact on design.

A 23.06.23 WMA Updated on site amended drainage following comments

Rev	Date	By	Description
1	23.06.23	WMA	Updated on site amended drainage following comments

SEA
 CONSULTING ENGINEERS
 (CONSULTING CIVIL & STRUCTURAL ENGINEERS)
 E: warren@seae.co.uk
 T: 07976310054

PROJECT: RESIDENTIAL DEVELOPMENT BRICK KILN ROAD RAUNDS
 DRAWING: PROPOSED DRAINAGE LAYOUT

SCALE: 1:500@A0 DATE: 29.06.2023
 DRAWING BY: WMA REV: A
 STATUS: FOR APPROVAL

DWG No: 00103/E02 A