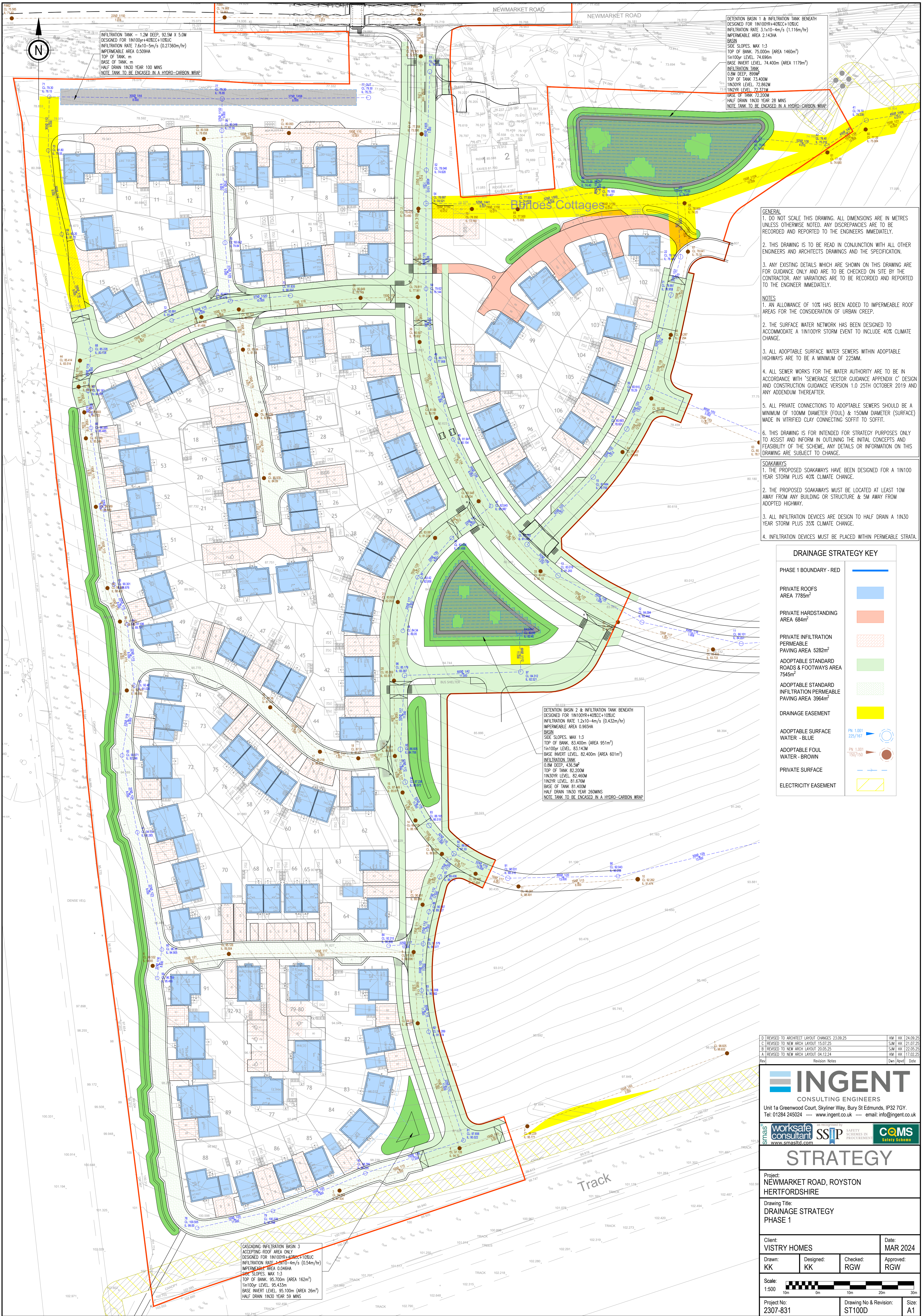




INFILTRATION TANK - 1.2M DEEP, 92.5M X 5.0M
DESIGNED FOR 11N100YR+40%CC+10%JC
INFILTRATION RATE 7.610-5m/s (0.27360m/hr)
IMPERMEABLE AREA 0.509HA
TOP OF TANK, m
BASE OF TANK, m
HALF DRAIN 1N30 YEAR 100 MINS
NOTE: TANK TO BE ENCASED IN A HYDRO-CARBON WRAP

DETENTION BASIN 1 & INFILTRATION TANK BENEATH
DESIGNED FOR 11N100YR+40%CC+10%JC
INFILTRATION RATE 3.1410-4m/s (1.116m/hr)
IMPERMEABLE AREA 2.143HA
BASIN
SIDE SLOPES, MAX 1:3
TOP OF BANK, 75.000m (AREA 1460m²)
11N100YR LEVEL, 74.696m
BASE INVERT LEVEL, 74.400m (AREA 1179m²)
INFILTRATION TANK
0.8M DEEP, 89.9M²
TOP OF TANK, 73.400m
11N30YR LEVEL, 72.862m
11N2YR LEVEL, 72.371m
BASE OF TANK, 72.200m
HALF DRAIN 1N30 YEAR 28 MINS
NOTE: TANK TO BE ENCASED IN A HYDRO-CARBON WRAP

Burrows Cottages

DETENTION BASIN 2 & INFILTRATION TANK BENEATH
DESIGNED FOR 11N100YR+40%CC+10%JC
INFILTRATION RATE 1.2410-4m/s (0.432m/hr)
IMPERMEABLE AREA 0.965HA
BASIN
SIDE SLOPES, MAX 1:3
TOP OF BANK, 83.400m (AREA 951m²)
11N100YR LEVEL, 83.143m
BASE INVERT LEVEL, 82.400m (AREA 601m²)
INFILTRATION TANK
0.8M DEEP, 436.5M²
TOP OF TANK, 82.200m
11N30YR LEVEL, 82.400m
11N2YR LEVEL, 81.676m
BASE OF TANK, 81.400m
HALF DRAIN 1N30 YEAR 260MINS
NOTE: TANK TO BE ENCASED IN A HYDRO-CARBON WRAP

CASCADING INFILTRATION BASIN 3
ACCEPTING ROOF AREA ONLY
DESIGNED FOR 11N100YR+40%CC+10%JC
INFILTRATION RATE 1.2410-4m/s (0.54m/hr)
IMPERMEABLE AREA 0.046HA
SIDE SLOPES, MAX 1:3
TOP OF BANK, 95.700m (AREA 162m²)
11N100YR LEVEL, 95.433m
BASE INVERT LEVEL, 95.100m (AREA 26m²)
HALF DRAIN 1N30 YEAR 59 MINS

- GENERAL
- DO NOT SCALE THIS DRAWING. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED. ANY DISCREPANCIES ARE TO BE RECORDED AND REPORTED TO THE ENGINEERS IMMEDIATELY.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER ENGINEERS AND ARCHITECTS DRAWINGS AND THE SPECIFICATION.
 - ANY EXISTING DETAILS WHICH ARE SHOWN ON THIS DRAWING ARE FOR GUIDANCE ONLY AND ARE TO BE CHECKED ON SITE BY THE CONTRACTOR. ANY VARIATIONS ARE TO BE RECORDED AND REPORTED TO THE ENGINEER IMMEDIATELY.
- NOTES
- AN ALLOWANCE OF 10% HAS BEEN ADDED TO IMPERMEABLE ROOF AREAS FOR THE CONSIDERATION OF URBAN CREEP.
 - THE SURFACE WATER NETWORK HAS BEEN DESIGNED TO ACCOMMODATE A 11N100YR STORM EVENT TO INCLUDE 40% CLIMATE CHANGE.
 - ALL ADOPTABLE SURFACE WATER SEWERS WITHIN ADOPTABLE HIGHWAYS ARE TO BE A MINIMUM OF 225MM.
 - ALL SEWER WORKS FOR THE WATER AUTHORITY ARE TO BE IN ACCORDANCE WITH 'SEWERAGE SECTOR GUIDANCE APPENDIX C' DESIGN AND CONSTRUCTION GUIDANCE VERSION 1.0 25TH OCTOBER 2019 AND ANY ADDENDUM THEREAFTER.
 - ALL PRIVATE CONNECTIONS TO ADOPTABLE SEWERS SHOULD BE A MINIMUM OF 100MM DIAMETER (FOU) & 150MM DIAMETER (SURFACE) MADE IN VITRIFIED CLAY CONNECTING SOFFIT TO SOFFIT.
 - THIS DRAWING IS FOR INTENDED FOR STRATEGY PURPOSES ONLY TO ASSIST AND INFORM IN OUTLINING THE INITIAL CONCEPTS AND FEASIBILITY OF THE SCHEME, ANY DETAILS OR INFORMATION ON THIS DRAWING ARE SUBJECT TO CHANGE.
- SOAKAWAYS
- THE PROPOSED SOAKAWAYS HAVE BEEN DESIGNED FOR A 11N100 YEAR STORM PLUS 40% CLIMATE CHANGE.
 - THE PROPOSED SOAKAWAYS MUST BE LOCATED AT LEAST 10M AWAY FROM ANY BUILDING OR STRUCTURE & 5M AWAY FROM ADOPTED HIGHWAY.
 - ALL INFILTRATION DEVICES ARE DESIGN TO HALF DRAIN A 1N30 YEAR STORM PLUS 35% CLIMATE CHANGE.
 - INFILTRATION DEVICES MUST BE PLACED WITHIN PERMEABLE STRATA.

DRAINAGE STRATEGY KEY	
PHASE 1 BOUNDARY - RED	
PRIVATE ROOFS AREA 7785m ²	
PRIVATE HARDSTANDING AREA 684m ²	
PRIVATE INFILTRATION PERMEABLE PAVING AREA 5282m ²	
ADOPTABLE STANDARD ROADS & FOOTWAYS AREA 7545m ²	
ADOPTABLE STANDARD INFILTRATION PERMEABLE PAVING AREA 3964m ²	
DRAINAGE EASEMENT	
ADOPTABLE SURFACE WATER - BLUE	
ADOPTABLE FOUL WATER - BROWN	
PRIVATE SURFACE	
ELECTRICITY EASEMENT	

CONSULTING ENGINEERS

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Tel: 01284 245024 — www.ingent.co.uk — email: info@ingent.co.uk

worksafe consultant

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COMS

Safety Scheme

STRATEGY

Project:
NEWMARKET ROAD, ROYSTON
HERTFORDSHIRE

Drawing Title:
DRAINAGE STRATEGY
PHASE 1

Client: VISTRY HOMES	Date: MAR 2024
Drawn: KK	Designed: KK
Checked: RGW	Approved: RGW

Scale:
1:500

Project No:
2307-831

Drawing No & Revision:
ST100D

Size:
A1