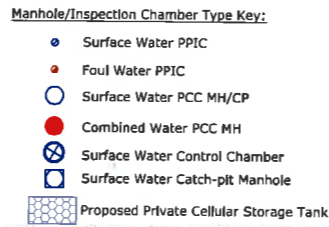
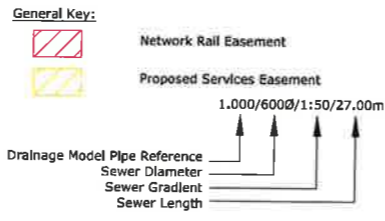
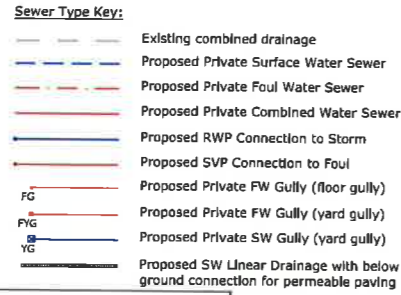


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General notes:

- This drawing is to be read in conjunction with all the relevant contract documentation.
- All dimensions are in mm unless otherwise stated.
- Drawings marked Preliminary are for guidance/approval only.
- The developer is responsible for locating any existing services, for making provision for access to lay service to serve adjacent sites and for protecting any services to the satisfaction of the relevant utility company.
- The developer is to obtain all necessary licences/permissions before making connecting to existing sewers.
- Pipes to be connected soffit to soffit.
- All Invert levels are to be checked on site prior to work commencing and any discrepancies reported immediately.
- Levels indicated are Invert levels unless noted otherwise and are of lowest connection in manhole.
- Drawing based on:
 - Site Layout General Arrangement, 1952-GA-SP-L00, rev.P3, produced by Alan Camp Architect
 - Block A General Arrangement Drawing, 1952-GA-P-A-L00, rev.P12, produced by Alan Camp Architect
 - Block B1 General Arrangement Drawing, 1952-GA-B1-C-L00, rev.P9, produced by Alan Camp Architect
 - Block B2 General Arrangement Drawing, 1952-GA-B2-C-L00, rev.P8, produced by Alan Camp Architect
 - Block C General Arrangement Drawing, 1952-GA-P-C-L00, rev.P8, produced by Alan Camp Architect
 - Landscape Design drawings: HO-439_DA_001_R00, HO-439_HI_CY105_R00, HO-439_HI_CY205_R00, dated 05/03/2014, produced by Hannah Oakden Landscape Design

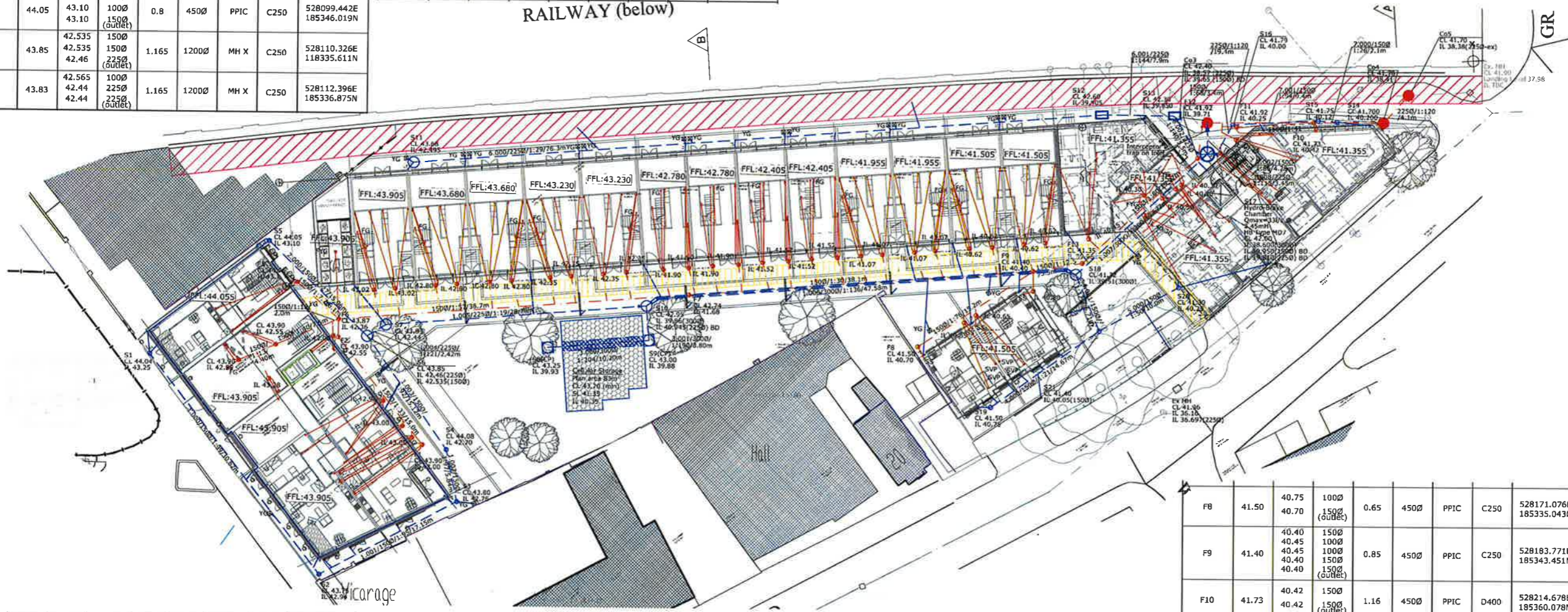
Private drainage notes:

- All specifications and installations are to comply with the latest edition of the Building Regulations approved documents (part H), relevant BS and manufacturers recommendations.
- All connections below the slab and from the building to be at an approximate minimum gradient of 1:40.
- Drawing to be read in conjunction with construction details drawings 12-0083/INF/30-32
- Pipes to be 100mm dia. PVCU to BS4660 laid on class S granular bed and surround and backfilled in accordance with detail on drawing unless otherwise shown. Pipes with less than 0.6m cover in un-trafficked areas or 0.9m cover in trafficked areas to have min. of 100mm concrete surround class Z.
- Pipes running under buildings to have a min. of 100mm granular surround.
- Drainage run connecting into the adoptable manholes needs to be Class 120 concrete or vitrified Clay as stated in the notes for the adoptable drainage.
- Inspection chambers and manholes. Brickwork Class B engineering to BS 3921, pre-cast concrete sections to BS 5911, plastic relevant BBA certificate.
- Rodding eyes and access fittings to be in accordance with BS 4660 and relevant BBA certificate.
- Inspection chambers and manholes to have removable non-ventilating covers to a load class as indicated on the manhole schedule.
- All drainage adjacent to the Network Rail easement and above ground anchors to be encased in concrete (Class 2)

Storm Water Manhole Schedule

Manhole No.	Cover Level	Inverts	Pipe Ø	MH depth to soffit of pipe	MH Ø	MH Type	Cover	Coordinates
S1	44.04	43.3 43.3 43.25	100Ø 100Ø 150Ø (outlet)	0.64	450Ø	PPIC	C250	528086.435E 185333.472N
S2	43.75	42.94 42.94	150Ø 150Ø (outlet)	0.66	450Ø	PPIC	C250	528105.272E 185309.321N
S3	43.80	42.81 42.76 42.76	100Ø 150Ø 150Ø (outlet)	0.89	450Ø	PPIC	C250	528120.368E 185317.464N
S4	44.08	42.70 42.70	150Ø 150Ø (outlet)	1.23	450Ø	PPIC	C250	528119.175E 185323.181N
S5	44.05	43.10 43.10 43.10	100Ø 100Ø 150Ø (outlet)	0.8	450Ø	PPIC	C250	528099.442E 185346.019N
S6	43.85	42.535 42.535 42.46	150Ø 150Ø 225Ø (outlet)	1.165	1200Ø	MH X	C250	528110.326E 185335.611N
S7	43.83	42.565 42.44 42.44	100Ø 225Ø 225Ø (outlet)	1.165	1200Ø	MH X	C250	528112.396E 185336.875N

S10	42.95	40.95 (BD) 39.86 39.86	225Ø 300Ø 300Ø (outlet)	2.79	1200Ø	MH B	C250	528141.078E 185339.216N
S11	43.68	42.62 42.62 42.495	100Ø 100Ø 225Ø (outlet)	0.96	1200Ø	MH X	C250	528115.254E 185354.800N
S12	42.60	39.905 39.905	225Ø 225Ø (outlet)	2.695	1200 x 675	MH B	C250	528191.204E 185360.733N



CONNECTION TO THE EXISTING SEWER SUBJECT TO THAMES WATER APPROVAL

- CR 28.10.14 Drainage to block C amended to suit with SDP foundation crossings. Hydrostrike updated
- C7 08.10.14 Foul drainage to block C revised. Alternative outlet MH C02 and C04 added
- CE 11.07.14 F7 and F9 invert levels revised
- CS 15.05.14 Manhole schedule added. Block A SW location revised. Drainage outlet location amended
- CA 28.04.14 SW drainage layout revised between S13 and C1. SW drainage revised between F10 & C1
- CI 07.04.14 New site layout and GF layouts attached. FFLs and drainage revised.
- C2 17.02.14 Storage tank location and Hydrostrike details. SDP updated. Inspector trap moved. Pipe references 3.000, 3.001, 4.000, 4.001, 1.006 adjusted
- C1 28.11.13 Construction issue. Drainage layout revised following changes to proposed site & building layouts
- T1 03.06.13 Detailed storm & foul drainage details added for TENDR purposes only
- P3 16.05.13 Proposed surface water drainage added
- P2 26.03.13 Risk Assessment Reference amended
- P1 18.09.12 Preliminary Issue

S13	42.30	39.850 39.850	225Ø 225Ø (outlet)	2.225	1200 x 675	MH B	D400	528199.270E 185360.702N
S14	41.700	40.250 40.200	100Ø 150Ø (outlet)	1.35	450Ø	PPIC	D400	528217.235E 185360.115N
S15	41.75	40.120 40.120	150Ø 150Ø (outlet)	1.38	450Ø	PPIC	D400	528215.143E 185360.227N
S16	41.79	40.00 40.00	150Ø 150Ø (outlet)	1.64	450Ø	PPIC	D400	528205.697E 185359.758N
S17	42.00	39.350 39.810	150Ø BD 225Ø BD 300Ø (outlet)	3.10	1500Ø	HB Chamber	D400	528202.906E 185356.513N
S18	41.32	39.66 39.51 39.51	150Ø 300Ø 300Ø (outlet)	1.51	1200Ø	MH B	D400	528188.495E 185343.113N

S19	41.50	40.80 40.75	100Ø 150Ø (outlet)	0.60	450Ø	PPIC	D400	528179.180E 185328.412N
S20	41.30	40.30 40.30 40.25	100Ø 100Ø 150Ø (outlet)	0.90	450Ø	PPIC	D400	528199.853E 185341.792N
S21	41.40	40.05 40.05 40.05	150Ø 150Ø 150Ø (outlet)	1.20	450Ø	PPIC	D400	528188.495E 185343.113N

Reduced access PPIC

Foul Water Manhole Schedule
Continued

Manhole No.	Cover Level	Inverts	Pipe Ø	MH depth to soffit of pipe	MH Ø	MH Type	Cover	Coordinates
F1	43.90	43.05 43.05 43.00	100Ø 100Ø 150Ø (outlet)	0.75	450Ø	PPIC	C250	528116.483E 185323.702N
F2	43.90	42.55 42.55	150Ø 150Ø (outlet)	1.20	450Ø	PPIC	C250	528107.161E 185335.483N
F6	43.87	42.41 42.36 42.36 42.36	100Ø 150Ø 150Ø 150Ø (outlet)	1.36	450Ø	PPIC	C250	528107.192E 185337.471N
F7	42.74	41.68 41.68	150Ø 150Ø (outlet)	0.91	450Ø	PPIC	C250	528145.804E 185340.486N

F8	41.50	40.75 40.70	100Ø 150Ø (outlet)	0.65	450Ø	PPIC	C250	528171.076E 185335.043N
F9	41.40	40.40 40.45 40.40 40.40	150Ø 100Ø 100Ø 150Ø (outlet)	0.85	450Ø	PPIC	C250	528183.771E 185343.451N
F10	41.73	40.42 40.42	150Ø 150Ø (outlet)	1.16	450Ø	PPIC	D400	528214.678E 185360.078N
F11	41.92	40.25 40.25	150Ø 150Ø (outlet)	1.52	450Ø	PPIC	D400	528206.147E 185359.520N
F12	41.92	39.71 39.71	150Ø 150Ø (outlet)	2.08	450Ø	PPIC	D400	528201.850E 185356.055N
F13	41.35	39.96 39.96	150Ø 150Ø (outlet)	1.24	450Ø	PPIC	D400	528189.167E 185344.371N
Co3	42.40	38.570 39.650 38.570	225Ø SW (inlet) 150Ø (inlet) 225Ø (outlet)	3.605	1200Ø	MH A	D400	528202.890E 185359.966N
Co4	41.70	38.41 38.41	225Ø 225Ø (outlet)	3.065	1200Ø	MH A	D400	528222.330E 185360.079N
Co5	41.70	38.38 38.38 ex	225Ø 225Ø (outlet)	3.095	1200Ø	MH A	D400	528225.081E 185363.130N

Issue Purpose:
CONSTRUCTION

Project:
Bacton Low Rise Camden

Drawing Title:
Proposed Drainage Layout

DHO site
Designer's Risk Assessment Reference:
12-0083 XDRA 001

Specification Reference:

Drawn By: **AJM** Checked By: **SDP**

Scales: 1:250@A1 Date: **Sept 12**
1:500@A3

Drawing No. **12-0083/INF/11 C8** Rev.

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