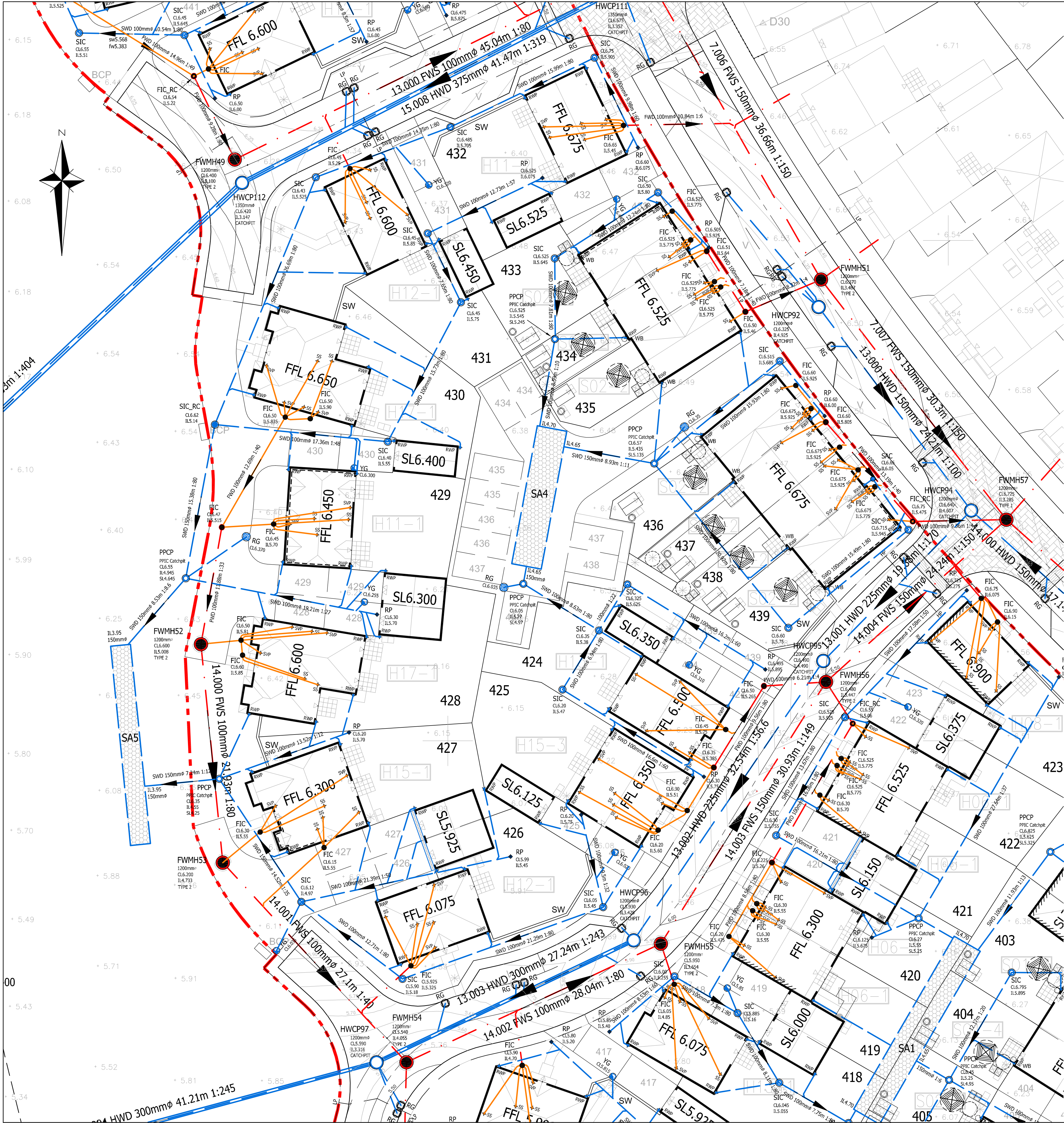




CONSTRUCTION NOTES

- ALL ADAPTABLE HIGHWAY CONSTRUCTION WORKS SHALL BE CARRIED OUT TO THE STANDARD LAID DOWN IN THE WEST SUSSEX COUNTY COUNCIL SPECIFICATIONS, WITH A VIEW TO ADOPTION UPON COMPLETION. REFER TO **gta civils ltd** DRAWINGS, SERIES 488 FOR ALL DETAILS OF ADAPTABLE HIGHWAY WORKS AND SPECIFICATIONS.
- ALL ADAPTABLE SEWERS AND SHARED DRAINS SHALL BE CONSTRUCTED TO THE STANDARDS LAID DOWN IN "SEWERS FOR ADOPTION" 7th EDITION, AND SOUTHERN WATER SPECIFICATIONS, WITH A VIEW TO ADOPTION UPON COMPLETION. REFER TO **gta civils ltd** DRAWINGS, SERIES 488 FOR ALL DETAILS OF ADAPTABLE INFRASTRUCTURE DRAINAGE.
- BEFORE CONNECTIONS ARE MADE TO EXISTING DRAINAGE, ITS LEVEL IS TO BE CHECKED AND CONFIRMED AGAINST LEVELS SHOWN ON THIS DRAWINGS AND THIS OFFICE INFORMED OF ANY SIGNIFICANT DIFFERENCE.
- ALL SEWERS WITH LESS THAN 1.2m OF COVER WHEN LAID BENEATH THE ROADS, OR 0.9m OF COVER IN OTHER AREAS, SHALL BE PROTECTED WITH CONCRETE IN ACCORDANCE WITH EITHER OF THE DETAILS SHOWN ON THE STANDARD DRAWING PROVIDED (FOR BEDDING TYPE LOCATIONS, REFER TO SEWER SECTIONS).
- THE MINIMUM SIZE OF PIPE CONNECTING GULLIES TO THE SOAKAWAYS SHALL BE 150mm DIA. LAID AT A MINIMUM GRADIENT OF 1 IN 80.
- ALL SOAKAWAYS TO BE CONSTRUCTED TO THE MINIMUM DEPTHS SHOWN ON THIS DRAWING AND THOSE SHOWN ON THE "STANDARD DRAWINGS".
- IN ORDER TO MAINTAIN THE SATISFACTORY FUNCTIONING OF SOAKAWAYS, ALL ROAD AND YARD GULLIES ARE TO BE "TRAPPED".
- THE DESIGN IS SUCH THAT WATER FROM PRIVATE AREAS DOES NOT SHED TO ADAPTABLE AREAS AND VICA VERSA.
- ALL PRIVATE SEWERS ARE TO BE 100mm DIA. UNLESS OTHERWISE STATED. THE PRIVATE DRAINAGE DESIGN ON THE PLAN HAS BEEN BASED ON THE PRINCIPLES OF A UPVC SYSTEM. IT CAN BE ADAPTED TO SUIT A STONWARE SYSTEM BUT REFERENCE SHOULD BE MADE TO THIS OFFICE BEFORE AMENDMENTS ARE MADE.
- ALL PRIVATE DRAINAGE TO BE IN ACCORDANCE WITH THE BUILDING REGULATIONS APPROVED DOCUMENT "H" BRITISH STANDARD 8301, AND TO THE SATISFACTION OF THE BUILDING CONTROL SECTION.
- MANHOLES SITUATED WITHIN AREAS ACCESSIBLE TO MOTOR VEHICLES ARE TO BE FITTED WITH SUITABLE STRENGTH COVERS AND FRAMES.
- WHERE DRAINS PASS THROUGH FOUNDATIONS, A FLEXIBLE JOINT SHOULD BE PROVIDED WITHIN 150mm OF THE FACE OF THE STRUCTURE, WHERE TYPE 2 MANHOLES ARE EMPLOYED OR CONCRETE SURROUND IS ADDED TO OTHER MANHOLES A ROCKER PIPE OF MAX 600mm IN LENGTH SHALL BE PROVIDED EITHER SIDE OF THE MANHOLE, LAID AT A SLIGHTLY STEEPER GRADIENT TO ALLOW FOR SETTLEMENT.
- STUB STACKS FITTED WITH AIR ADMITTANCE VALVES MAY BE USED INSTEAD OF SOIL AND VENT PIPES, SUBJECT TO THE ARCHITECTS APPROVAL (EXCEPT WHERE THE DRAINAGE CONNECTION EXCEEDS 10m BEFORE CONNECTING WITH ANOTHER VENTILATED DRAIN OR INSPECTION CHAMBER OR MANHOLE). HEAD OF DRAIN VENT PIPES MUST NOT BE FITTED WITH AIR ADMITTANCE VALVES.
- SHALLOW PRIVATE DRAINS MAY REQUIRE PROTECTION USING CONCRETE SURROUND OR PAVING SLABS BRIDGING THE TRENCH SUBJECT TO THE BUILDING INSPECTORS REQUIREMENTS.
- APPROPRIATE MEASURES (TO BE AGREED WITH THE BUILDING CONTROL SECTION) ARE TO BE TAKEN TO DISCOURAGE RODENT ENTRY INTO THE PROPERTIES.
- WHERE DRAIN RUNS PASS CLOSE TO BUILDINGS OR THEIR INVERT LEVELS ARE BELOW FOUNDATION LEVEL, THEN THE TRENCHES ARE TO BE BACKFILLED IN ACCORDANCE WITH THE STANDARD DETAIL PROVIDED.
- REFERENCE SHOULD BE MADE TO THE STRUCTURAL ENGINEERS DETAILS FOR ALL ASPECTS OF FOUNDATION DESIGN AND CONSTRUCTION.
- BEFORE DETERMINING THE AMOUNT OF FACE BRICKWORK TO EACH UNIT, CONSIDERATION MUST BE GIVEN TO THE PROPOSED FINISHED GROUND LEVELS IN THE VICINITY OF THE PROPERTY. THE LEVELS SHOWN ON THIS DRAWING HAVE BEEN DESIGNED UPON THE PARAMETERS SET DOWN IN THE APPROVED DOCUMENT "M" OF THE BUILDING REGULATIONS 2000 (2004 EDITION).
- THE CONTRACTOR IS TO KEEP A RECORD OF ANY VARIATIONS MADE ON SITE, INCLUDING THE RELOCATION OF SEWERS OR DRAINS, SO THAT AN AS CONSTRUCTED DRAWING CAN BE PREPARED UPON COMPLETION OF THE PROJECT.
- THE CONTRACTOR SHOULD CHECK ALL DIMENSIONS ON SITE.
- IT IS THE SUBCONTRACTORS RESPONSIBILITY TO ENSURE COMPLIANCE WITH CURRENT BUILDING REGULATIONS AND CODES OF PRACTICE.

GENERAL NOTES

- The location, size, depth and identification of existing services that may be shown or referred to on this drawing have been assessed from non-intrusive observations, record drawings or the like. The contractor shall safely carry out intrusive investigations, trial holes or soundings prior to commencing work to satisfy himself that it is safe to proceed and that the assessments are accurate. Any discrepancies shall be notified to gta prior to works commencing.
- Tender or billing drawings shall not be used for construction or the ordering of materials.
- Do not scale. All dimensions and levels to be site confirmed.
- This drawing shall be read in conjunction with all relevant architects, consultants drawings and specifications, together with H&S plan requirements.
- Copyright : This drawing must not be copied, amended nor reproduced without the prior written agreement of gta.
- All drawings specifications and recommendations made by gta are subject to Local Authority and other relevant Statutory Authorities approval. Any works or services made above due to the client proceeding prior to these approvals is considered wholly at the Clients risk. gta hold no responsibility for resulting abortive works or costs.

SOAKAWAY SCHEDULE

TANK SOAKAWAYS

REF	COVER LEVEL (m)	COVER AREA (sq m)	TOP LEVEL (m)	BASE LEVEL (m)	TOTAL DEPTH (m)	IMPERM. AREA (cu m)	MAX. STORED	INFILTR. RATE (m/hr)	SIZE
SA1	6.50		4.80	3.20	3.30	1202	83.3	0.029	20.0 x 3.0 x 1.6
SA2	6.00		4.80	3.20	2.80	484	32.2	0.029	11.0 x 2.0 x 1.6
SA3	5.50		4.10	2.50	3.00	1102	51.9	0.029	17.0 x 2.0 x 1.6
SA4	6.20		4.80	3.20	3.00	916	64.3	0.029	14.0 x 3.0 x 1.6
SA5	6.10		4.10	2.50	3.60	1281	60.2	0.029	20.0 x 2.0 x 1.6
SA9	6.00		4.10	2.50	3.50	911	61.9	0.029	20.0 x 2.0 x 1.6
SA11	6.50		4.10	3.00	3.50	260	17.1	0.029	6.0 x 2.0 x 1.6
SA12	6.30		4.10	3.00	3.30	795	54.2	0.029	15.0 x 2.5 x 1.6
SA13	6.60		4.10	3.00	3.60	547	37.0	0.029	12.5 x 2.0 x 1.6
SA16	6.85		4.10	3.00	3.85	849	57.6	0.029	19.0 x 2.0 x 1.6
SA19	7.20		4.10	3.00	4.20	305	35.1	0.029	8.0 x 3.0 x 1.6
SA20	7.30		4.10	3.00	4.30	368	24.7	0.029	8.5 x 2.0 x 1.6
SA21	7.30		4.10	3.00	4.30	434	28.8	0.029	6.5 x 3.0 x 1.6
SA22	7.60		4.10	3.00	4.60	272	17.9	0.029	6.0 x 2.0 x 1.6
SA23	7.60		4.10	3.00	4.60	366	38.0	0.029	14.0 x 2.0 x 1.6

RING SOAKAWAYS

REF	COVER LEVEL (m)	COVER AREA (sq m)	BASE LEVEL (m)	DEPTH (m)	IMPERM. RATE (sq m)	MAX. DIA VOLUME (cu m)	INFILTR. RATE (m/hr)	CHAMBER (m)	PIT (m)
SA6	6.75		3.00	3.75	122	7.1	0.029	1.5	2.25 x 2.25
SA7	6.75		3.00	3.75	198	12.0	0.029	1.8	3.25 x 3.25
SA8	7.00		3.00	4.00	67	3.9	0.029	1.2	1.7 x 1.7
SA10	6.80		3.00	3.80	148	8.4	0.029	2 x 1.2	2.0 x 2.0
SA14	6.90		3.00	3.90	174	11.0	0.029	1.8	2.7 x 2.7
SA15	7.50		3.00	4.50	67	5.1	0.029	1.2	1.7 x 1.7
SA17	6.95		3.00	3.95	125	7.1	0.029	1.5	2.25 x 2.25
SA18	7.00		3.00	4.00	153	7.1	0.029	1.5	2.6 x 2.6

KEY

- Infrastructure Highway Drainage
- Adaptable Foul Drainage S104
- Private Storm Drainage
- Private Foul Drainage
- FWMH
- HWCP
- Manholes fitted with Backdrop Connection
- Infrastructure Road Gully
- PPCP
- FIC_RC
- SIC_RC
- FIC
- FAC
- SAC
- RP
- SVP
- SS
- RWP
- RG
- YG
- Channel Drain
- LC1
- Lc1
- Direction of Fall
- SA
- SA
- Modular Soakaway

B	LOTS 424, 433-439 UPDATED AS LATEST SUBSTRUCTURE ISSUE / SA4, SA19 & SA20 ADJUSTED TO SUIT	25.07.14	DMS	NS
A	CODE ITEMS ADDED TO HA UNITS - ADDITIONAL RWP ADD TO PLOT 438 FOR WB	27.06.14	DMS	NS
Rev	GROUNDWORKS TENDER ISSUE	25.06.14	DMS	NS
Rev	Amendments	Date	Dsn	CHK
Status	CONSTRUCTION			
Client				
Project	PHASE 4a / 4b Courtwick Lane, Littlehampton			
Title	DRAINAGE LAYOUT SHEET 2 OF 4 PLOTS 424 - 439			
Date	JUNE 2014	Scale @ A1	1:200	
Base Layout Ref.		CAD File ref.		
Clients Ref.		Project Ref.	4650	
CONSULTING ENGINEERS gloucester house, 66a church walk, burgess hill, west sussex, rh15 9as tel.01444 871444 fax.01444 871401 web: www.gtacivils.co.uk				
Drawing Number	4650/2062			Rev.
				B