KEY

- Structures(s); 3D Retro-targets top & bottom of wall (Final locations to be agreed)
- Surface levelling studs (~5m c/c)

The limits given in the table are the maximum and not to be exceeded and if at any time it is deemed that the movement are likely to be exceeded, the contractor is to make all necessary arrangement to bring the movement back to within the acceptable limits for the relevant phase or works.

The contractor is to immediately notify the Supervising Officer and Design Team of any such situation and the proposed remedial works.

Stated movement limits and responses are subject to final agreement as part of the party wall process with adjoining party wall surveyors

Movement Limits and Responses (Adjoining Property)

Action Level	Response	Ground Surface Level Vert., mm	Horiz., mm
Green	No Action	<5	<5
Green / Amber	Re-assess and agree course of action	5 to 8	5 to 8
Red	Stop works and secure adjoining the area	>8	>8

All readings are to be reported to the Supervising Officer and additional members of the team (TBC) within 48 hours of them being made.

The surveying company is to provide a movement survey report with all readings to be provided in a spreadsheet format with accompanying graphs indication the development of each observation with time and appropriate suitable profiles. The accompanying text is to be provided highlighting any trends that are or are likely to be encountered and also record against them the type of work undertaken prior to the readings. Each report is to be dated and referenced and have the site location plan included for easy of locating survey points

If any unusual observations or observations suggesting excessive deformation and/or possible instability are made these should be checked and if confirmed, reported to the Contractor and Engineer immediately.

The survey company is to review the positions show are suitable for surveying from agreed base positions and positions are subject to final site survey.

The survey company is to provide a method statement confirming how the works are to be undertaken giving details of all equipment to be used with data sheets confirming up to date equipment calibration.

Timing of readings (grd level, survey & monitoring)

An initial base reading is to be undertaken 1 month prior to and at start on site and then every 2 weeks from start of piling works.
Readings are to be taken every 2 weeks during basement excavation works.
If casting of slabs or removal of propping falls within the 2 week period then take additional reading in between at 1 week.
Once the basement box is completed above ground level readings are to be taken every 2 weeks for 3 months and if a trend of reducing rate of movement is established then revert to readings every 4 weeks
If during any of the readings excessive movement is noted revert back to 1 week readings until 2 weeks after readings show excessive movement has stop.
Then revert back to readings every 4 weeks.

Ref.	Revisions	By	Date

3 KIDDERPORE AVENUE
LONDON
NW3 7SX

FOR CONSTRUCTION (D&B)

Monitoring of Movement to Surrounding Areas and buildings

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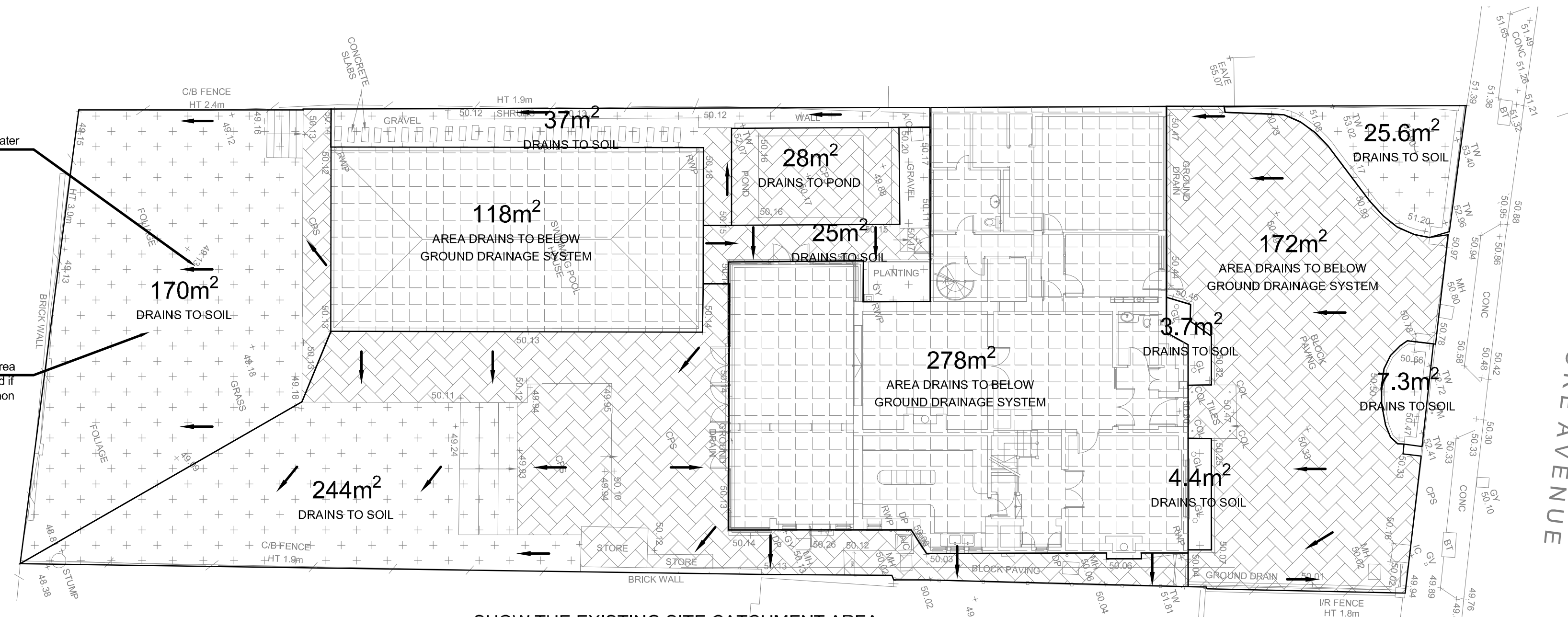
Scale at A1	Date	Drawn By	
1:100	15.12.14	AK	

Project No.	Drg No.	Rev.
8148	MT01	-



SHOW THE EXISTING SITE CATCHMENT AREA
FLOW DIRECTIONS TO ADJOINING PROPERTIES

SCALE 1:150

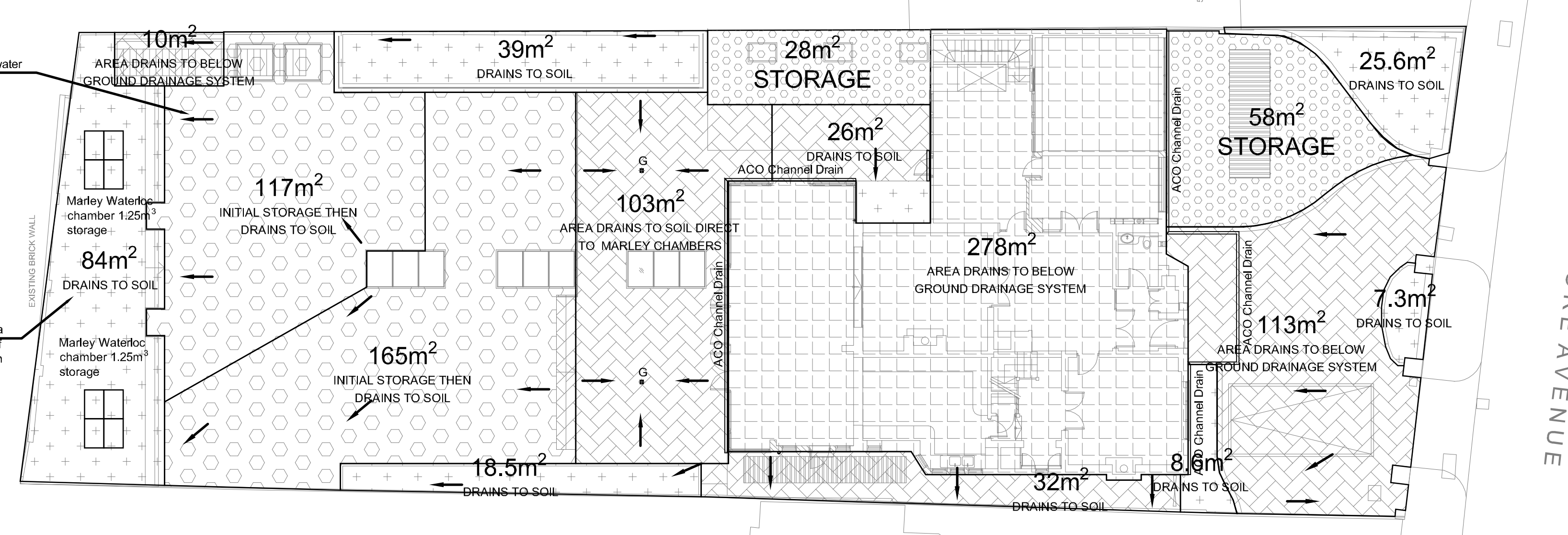
Landscaped Area

Peraquik 6100 System D40 Inverted Intensive Roof Garden

Existing Building

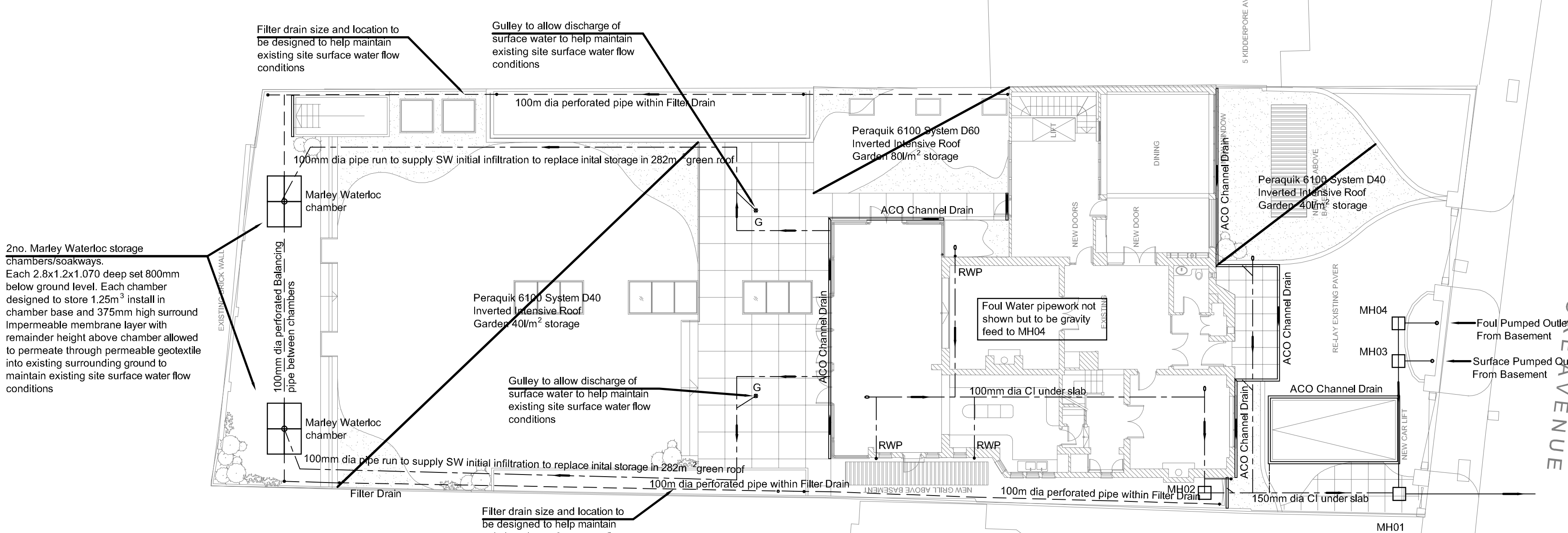
Peraquik 6100 System D60 Inverted Intensive Roof Garden

Block Paved Area



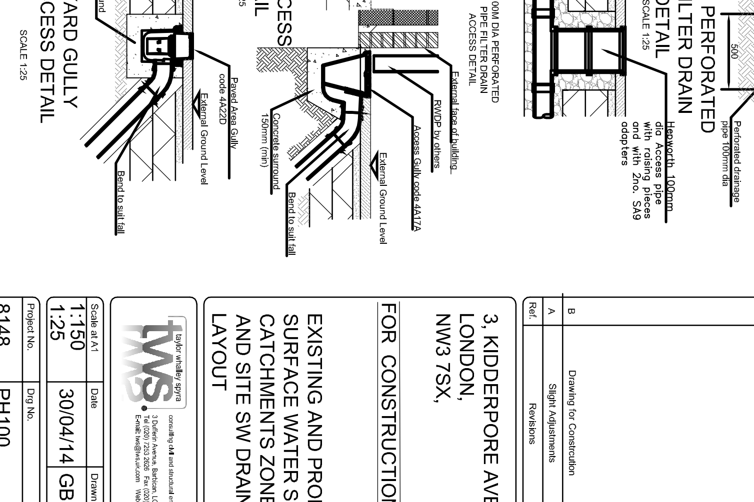
SHOW THE PROPOSED SITE CATCHMENT AREA
FLOW DIRECTIONS TO ADJOINING PROPERTIES

SCALE 1:150



SURFACE WATER DRAINAGE
GROUND FLOOR LAYOUT

SCALE 1:150



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EXISTING SITE CONDITION

Data:-
Hydrology:-
Location = Hampstead, Grid reference = TQ2686
M5-60 (mm) = 21.2, r = 0.44
WRAP/Soil = 4 / 0.45, SAAR (mm/yr) = 660
Return period = 100, Mean intensity = 43.0mm/hr for a 1 hour storm

Percentage runoff = 40.4% calculated from:-
Percentage runoff = (0.829*PIMP)+(25*SOIL)+(0.078*UCWI)-20.7
where
PIMP = ImpervArea*100/(ImpervArea+PervArea) = 53.5
UCWI = Calculated value for Wetness Index = 69.3

Imperv. area = 596 m², Pervious area = 517 m²
Total area = 1113 m², Equiv area = 449 m²
Total runoff = 19.3 m³, Discharge rate = 5.00 l/s
Storage (m³) = 7.4 m³ (Sum of all balance quantities)

PROPOSED SITE CONDITION

Data:-
Hydrology:-
Location = Hampstead, Grid reference = TQ2686
M5-60 (mm) = 21.2, r = 0.44
WRAP/Soil = 4 / 0.45, SAAR (mm/yr) = 660
Return period = 100, Mean intensity = 43.0mm/hr for a 1 hour storm

Percentage runoff = 27.2% calculated from:-
Percentage runoff = (0.829*PIMP)+(25*SOIL)+(0.078*UCWI)-20.7
where
PIMP = ImpervArea*100/(ImpervArea+PervArea) = 53.0
UCWI = Calculated value for Wetness Index = 69.3

Imperv. area = 590 m², Pervious area = 523 m²
Total area = 1113 m², Equiv area = 444 m²
Total runoff = 19.1 m³, Discharge rate = 3.00 l/s
Storage (m³) = 9.9 m³ (Sum of all balance quantities)

NOTES:
The above surface water calculations are based on actual site walkover and site survey confirming the existing site surface water discharge areas to permeable areas and to existing on site below ground drainage discharging to the public sewer.

A number of hard standing areas at the rear of the site, discharge to permeable areas.

The existing discharge rate of 5l/s has been reduced to 3l/s for the proposed works taking into account the hard site permeable and non permeable areas based on a 1:100 year storm event, the on-site storage required is 2.5m³. This is to be stored within the Marley Waterloc Chambers which will also act as permeable soakaways above a level of 375mm within the chambers.

The green roof areas have initial storage prior to any SW runoff. It is assumed with best practice that this will generally always have storage within due to regular irrigation of grassed areas, therefore initial surface water down fall will top this up and an allowance of a 103m² area will discharge directly to the Marley Waterloc Chambers to compensate for this initial storage capacity prior to surface water flow. This will maintain the existing surface water runoff/permeable site condition to the boundary line and adjoining properties.

Of the hard standing area of surface water run off that discharges directly to the public sewer there is a reduction in area of 58m² which is stored on site within the Peraquik 6100 system D60.

To the two sides and rear of the property a filter drain is to be installed to maintain the below ground water flow within the shallow strata overlaying the London Clay across the site to maintain the below ground water flow paths.

MAINTENANCE OF DRAINAGE
All drainage is to be CCTV'd after completion to confirm no defects.
Any defects found are to be made good and the section of run CCTV'd again to confirm.
All drainage is to be visually inspected every 3 months for the first year and the every 6 months for the second year then once every year.
The inspections are to be undertaken to check that there is no build up of debris/soils within the drainage system and that there is free flow of water within.
If any debris is noticed it is to be removed and if the build up is significant the joints up stream are to be checked by CCTV to confirm these are not the ingress points if they are then joints are to be sealed to stop any further ingress.
The inspections will require the lifting of all manholes and access pints/ gully points.
The Marley Waterloc Chambers are to be inspected as above, they are also to be checked to confirm that the standing water within chambers is maintained at 375mm high to confirm the storage capacity, if these leak for any reason they are to be made good and reinstated as necessary.

Rev	Description	By	Date
B	Drawing for Construction	AK	16.12.14
A	Slight Adjustments	GB	21.07.14
Ref.	Revisions	By	Date

3, KIDDERPORE AVENUE
LONDON,
NW3 7SX,

FOR CONSTRUCTION (D&B)

EXISTING AND PROPOSED SURFACE WATER SITE CATCHMENTS ZONES AND SITE SW DRAINAGE LAYOUT

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Scale at A1	Date	Drawn By
1:150 1:25	30/04/14	GB

Project No.	Drg No.	Rev.
8148	PH100	B

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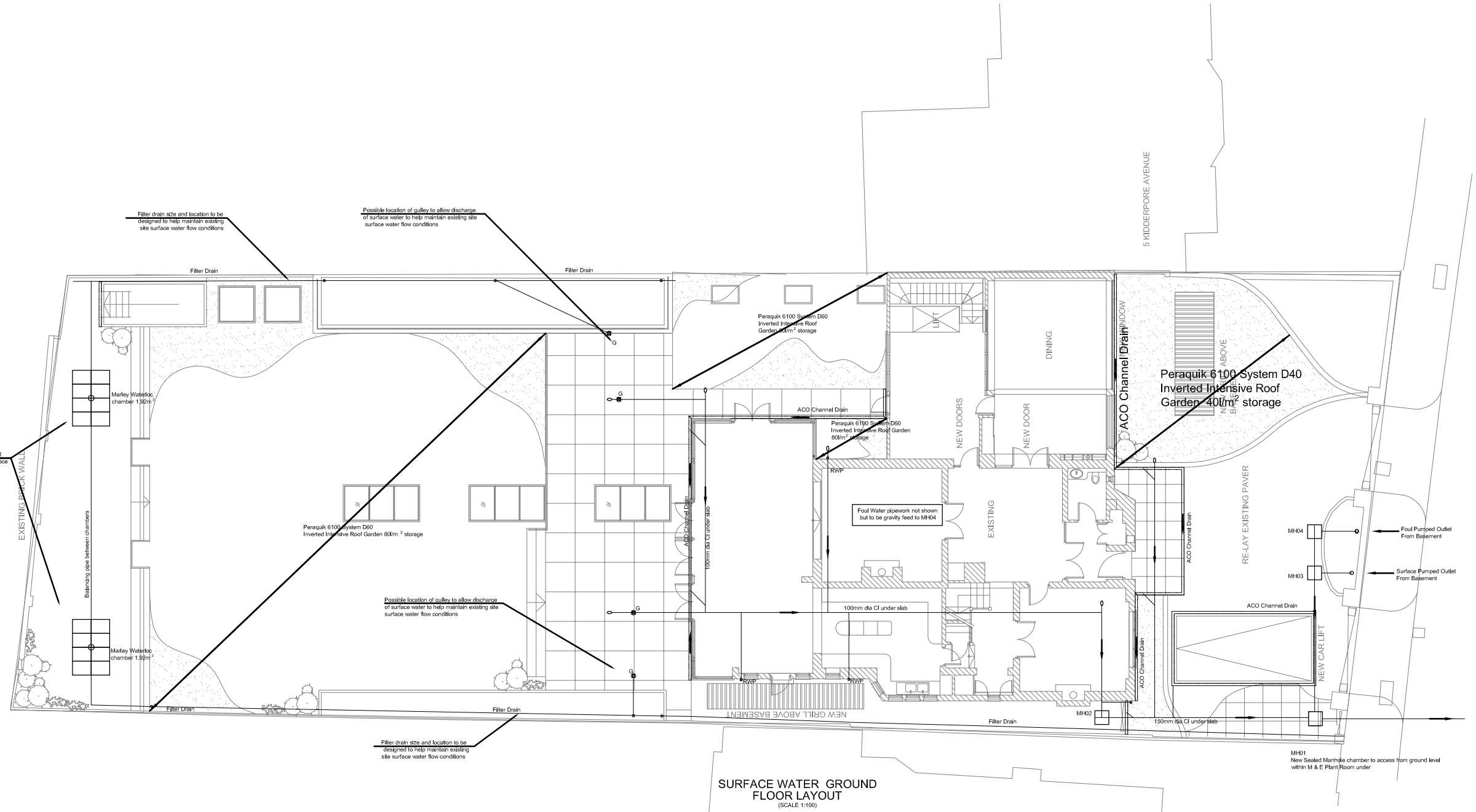

SURFACE WATER GROUND FLOOR LAYOUT
(SCALE 1:100)

Ref.	Revisions	By	Date
A	Drawing For Constrcution	AK	16.12.14

3, KIDDERPORE AVENUE
LONDON, NW3 7SX

FOR CONSTRUCTION (D&B)

SURFACE WATER ABOVE AND BELOW GROUND DRAINAGE FOR GROUND FLOOR LEVEL

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Scale at A1	Date	Drawn By	
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8148	PPH01	A

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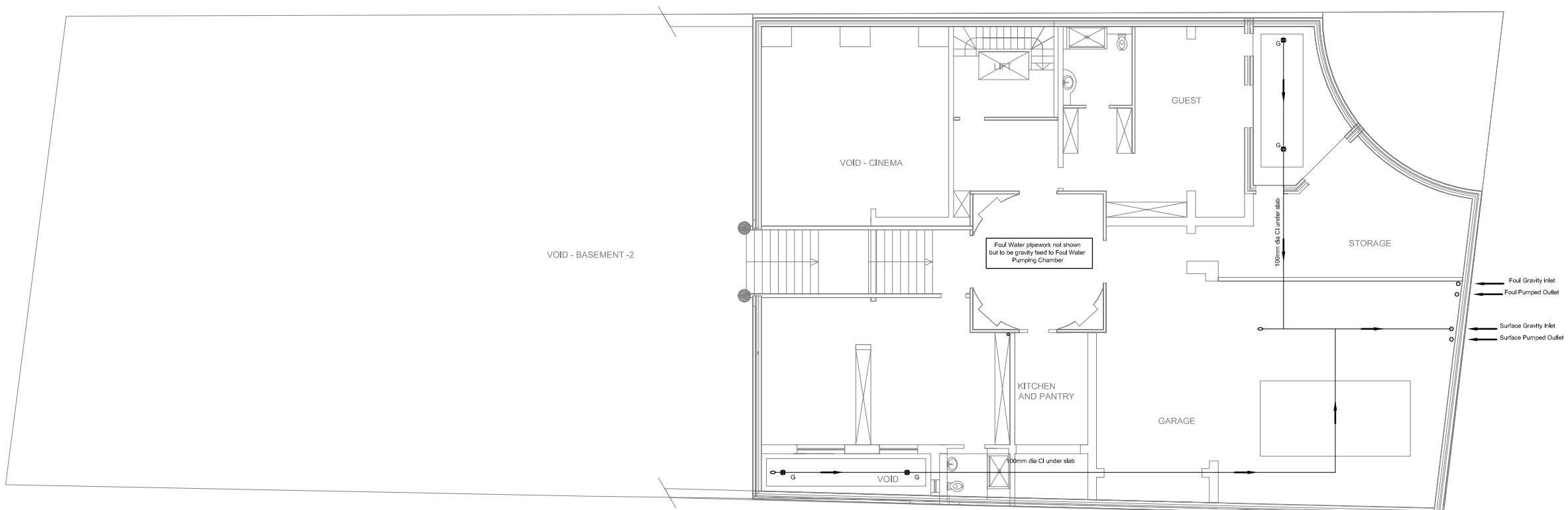
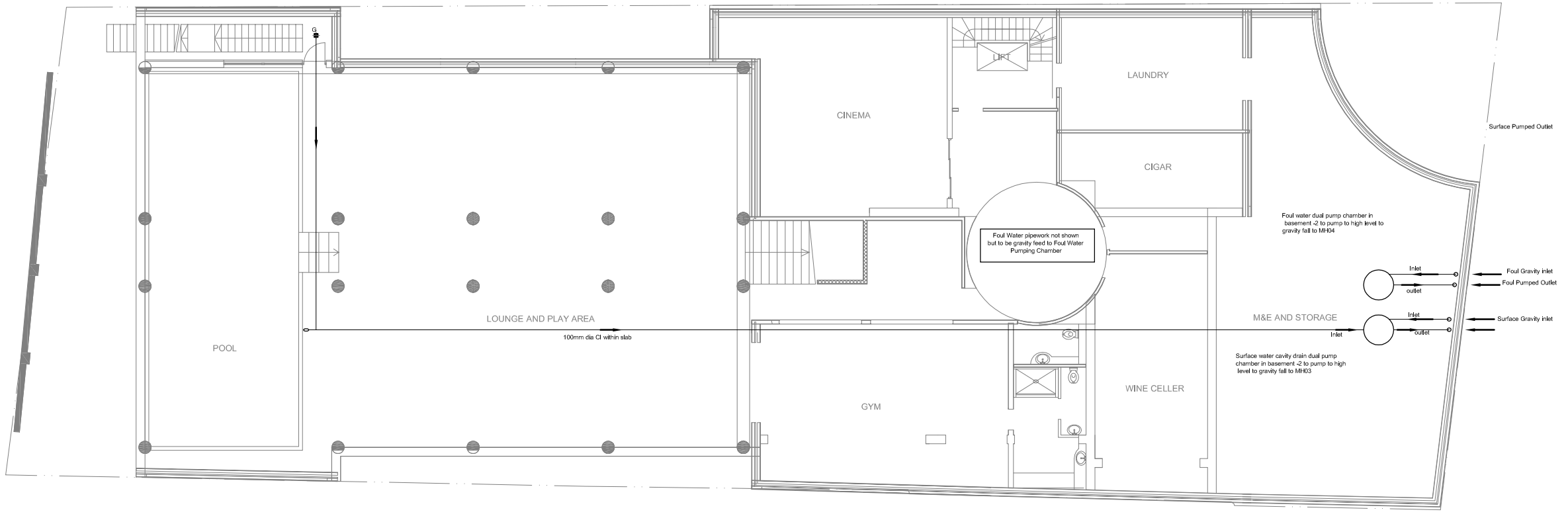


SURFACE WATER -1 BASEMENT
FLOOR LAYOUT
(SCALE 1:100)



SURFACE WATER -2 BASEMENT
FLOOR LAYOUT
(SCALE 1:100)

Ref.	Revisions	By	Date
A	Drawing For Constrcution	AK	16.12.14

3, KIDDERPORE AVENUE
LONDON, NW3 7SX

FOR CONSTRUCTION (D&B)

SURFACE WATER ABOVE AND BELOW GROUND DRAINAGE FOR BASEMENTS -1 & -2

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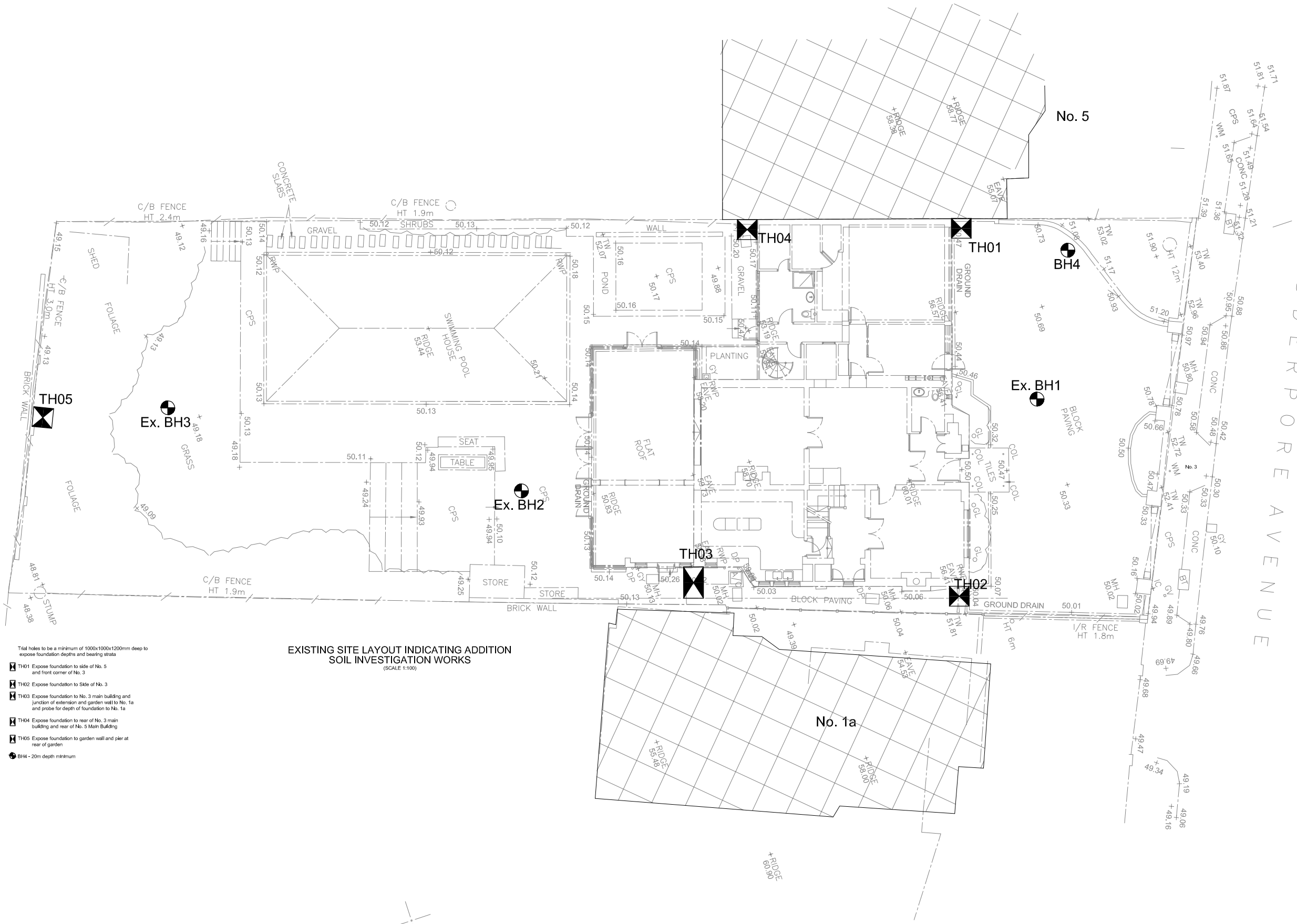
Scale at A1	Date	Drawn By	
1:100	27.06.11	GB	

Project No.	Drg No.	Rev.
8148	PPH02	A



Trial holes to be a minimum of 1000x1000x1200mm deep to expose foundation depths and bearing strata

- TH01 Expose foundation to side of No. 5 and front corner of No. 3
- TH02 Expose foundation to Side of No. 3
- TH03 Expose foundation to No. 3 main building and junction of extension and garden wall to No. 1a and probe for depth of foundation to No. 1a
- TH04 Expose foundation to rear of No. 3 main building and rear of No. 5 Main Building
- TH05 Expose foundation to garden wall and pier at rear of garden
- BH4 - 20m depth minimum

EXISTING SITE LAYOUT INDICATING ADDITION SOIL INVESTIGATION WORKS
(SCALE 1:100)

GENERAL NOTES:
Allowance is to be made for all health and safety measures necessary to ensure safety of personnel and stability of the structures/ground.

Method statements should be Issued for approval of the SO prior to commencement.

The contractor should take all reasonable steps to prevent damage to the existing services, his operatives and the general public.

Safety barriers are to be provided to prevent public access to the area of the works

The contractor shall provide all necessary plant to allow the excavations to be carried out safely.

Where mechanical diggers are used the Contractor shall allow for suitably qualified personnel to prevent damage to existing services and operatives.

After completion of the boreholes they are to be back filled with excavated materials,and enclosed with finish material as for existing.

REQUIREMENT FOR ADDITIONAL SITE INVESTIGATION.

The object of carrying out the additional investigation is to supplement the existing 3 boreholes which show that the ground at the site is consistently London Clay and that there is little variation in soil strength across the site. The additional investigation must address the issues and criticisms raised by First Steps and ensure that the requirements of the Camden are met as described in the Arup report.

It is proposed that there is one additional borehole which is to be carried out using cable percussion methods to a depth of 20 metres. This borehole should be located in the front garden close to the western site boundary.

In order to examine in detail the condition of the ground near to the surface it is proposed that U 100 samples are taken at 500 mm intervals over the top 5 metres. Disturbed samples are to be taken between these. Beyond 5 metres depth the U100s shall be taken at 1.0 metre intervals and SPTs between the samples at 1 metre intervals to 10 metres depth and 1.5 metre intervals beyond that. Disturbed samples to be retained from SPTs.

Allowance should be made for the installation of a standpipe at a depth of 6 metres below ground level.

The work is to be supervised by chartered geologist or engineer (cv to be provided).

The samples are to be taken back to the lab immediately and extruded under the supervision of GCG and an agreed log prepared. Samples will be selected for testing. These samples are to be split, described and photographed after testing.

An allowance is to be made for undertaking unconsolidated undrained tests on 100 mm samples on 15 undisturbed samples.

It is suggested that a number of trial pits are dug to examine the existing foundations and the near surface soil conditions, particularly along the uphill boundary. This will help in defining the conditions with respect to drainage. The trial pits along the boundaries should be dug to a depth of at least one metre and should be photographed and logged by a suitably qualified engineer.

Ref.	Revisions	By	Date
A	Drawing For Constrcution	AK	16.12.14

3 KIDDERPORE AVENUE
LONDON
NW3 7SX

FOR CONSTRUCTION (D&B)

EXISTING SITE LAYOUT INDICATING ADDITION SOIL INVESTIGATION WORKS

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Scale at A1	Date	Drawn By	
1:100	31.01.11	GB	

Project No.	Drg No.	Rev.
8148	SI-02	A

IMAGE 01

5 Kidderpore Avenue

IMAGE 02

4 Kidderpore Avenue

IMAGE 03

2 Kidderpore Avenue

IMAGE 04

1a Kidderpore Avenue

IMAGE 05

1a Kidderpore Avenue

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Ref.	Revisions	By	Date
A	Drawing For Constrcution	AK	16.12.14

3 Kidderpore Avenue,
Hampstead
London, NW3 7SX,

FOR CONSTRUCTION (D&B)

Site Location Plan Also Indicating Adjacent Properties

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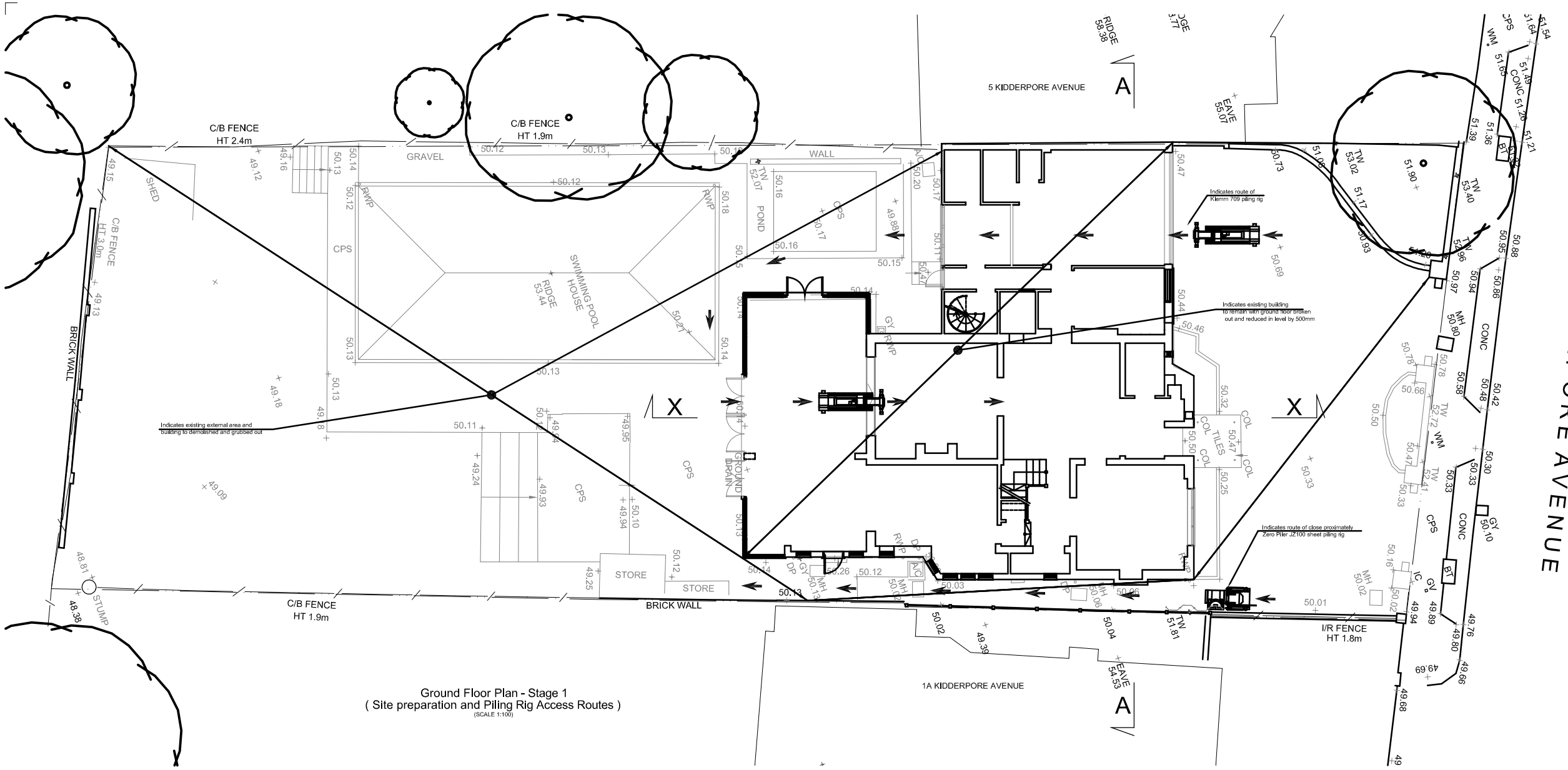
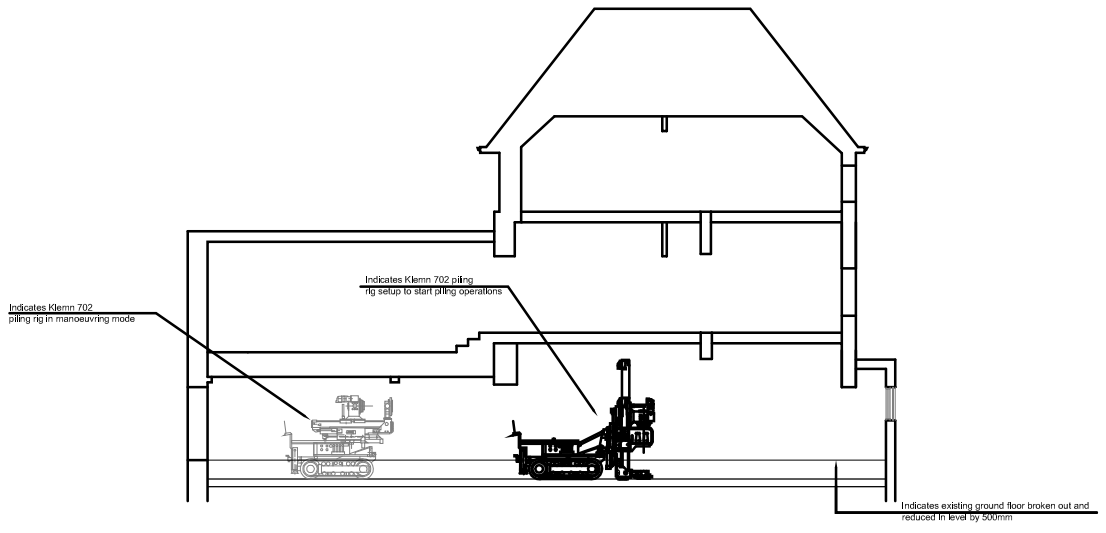
Scale at A1	Date	Drawn By	
NTS	02.09.09	GB	

Project No.	Drg No.	Rev.
8148	SL01	A



Ground Floor Plan - Stage 1
(Site preparation and Piling Rig Access Routes)
(SCALE 1:100)



SECTION X _ X

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Ref.	Revisions	By	Date
B	Drawing For Constrcution	AK	16.12.14
A	Changes due to planning requirement	GB	15.1.13

3 KIDDERPORE AVENUE,
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NW3 7SX

FOR CONSTRUCTION (D&B)

SEQUENCE OF WORKS
STAGE 1

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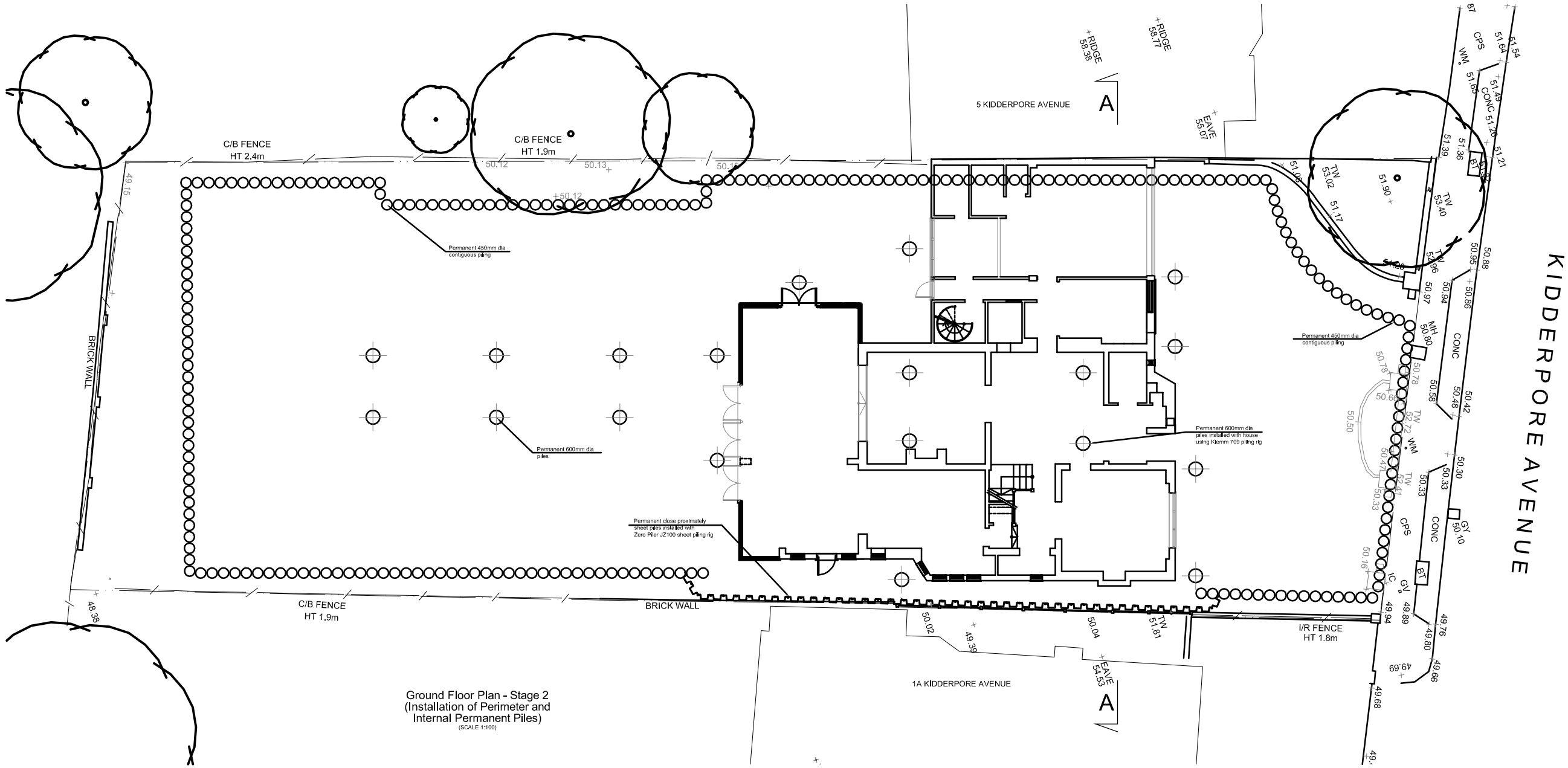
Project No.	Drg No.	Rev.
8148	ST01	B



Ground Floor Plan - Stage 2
(Installation of Perimeter and Internal Permanent Piles)
(SCALE 1:100)

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PILE LOADING DATA

Diam.mm	0.25u_cA kN	600kN	900kN	1000kN	1100kN	1250kN	-500kN
508/450	1392	22	27	29	30	32	20
600/550	2472	20	25	26	27	29	18

Klemm 702
Klemm 709

Ref.	Revisions	By	Date
B	Drawing For Constrcution	AK	16.12.14
A	Changes due to planning requirement	GB	15.1.13

3 KIDDERPORE AVENUE,
LONDON,
NW3 7SX

FOR CONSTRUCTION (D&B)

SEQUENCE OF WORKS
STAGE 2

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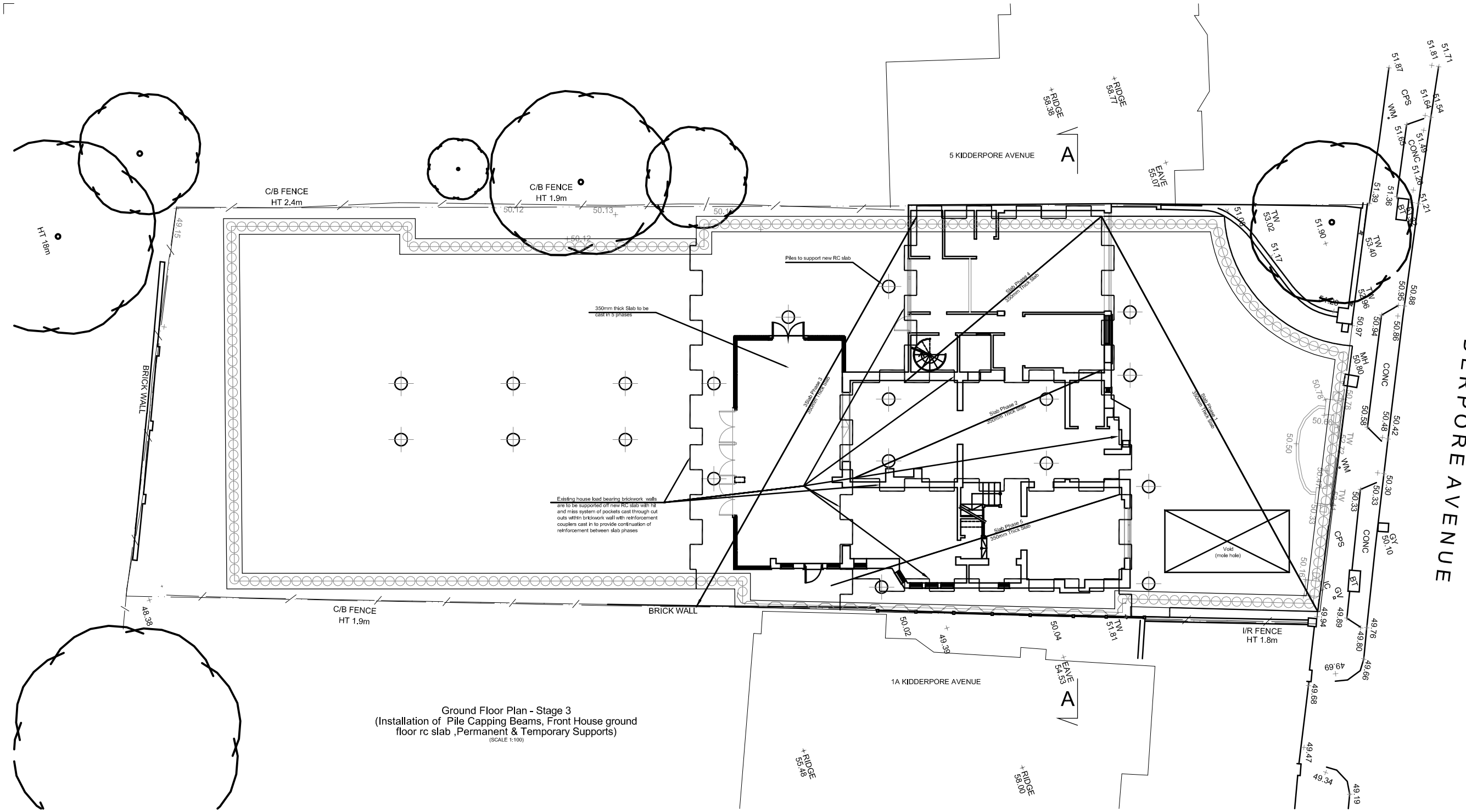
8148	ST02	B



Ground Floor Plan - Stage 3
(Installation of Pile Capping Beams, Front House ground floor rc slab ,Permanent & Temporary Supports)
(SCALE 1:100)

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Ref.	Revisions	By	Date
B	Drawing For Constrcution	AK	16.12.14
A	Changes due to planning requirement	GB	15.1.13

3 KIDDERPORE AVENUE,
LONDON,
NW3 7SX

FOR CONSTRUCTION (D&B)

SEQUENCE OF WORKS
STAGE 3

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8148	ST03	B

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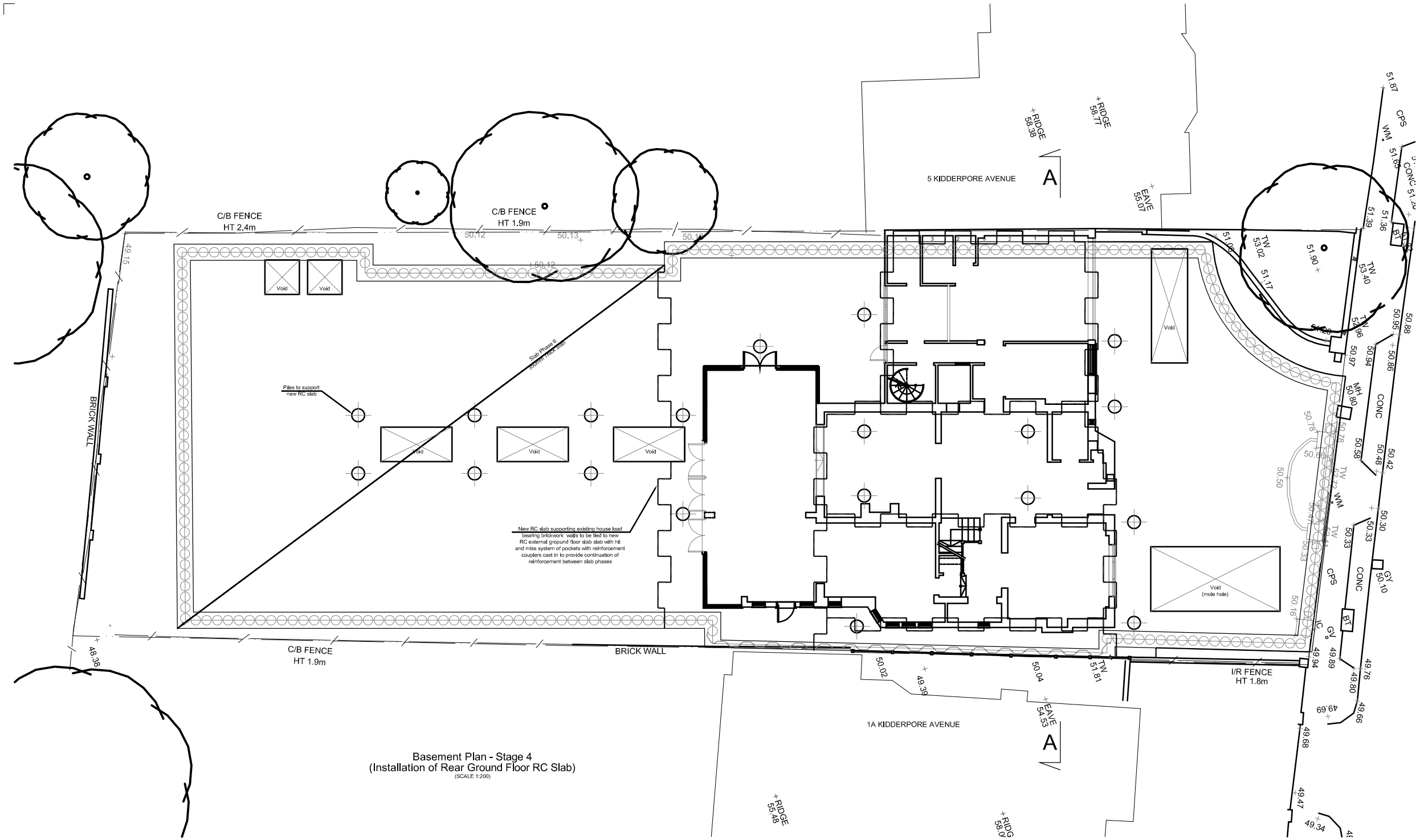

Basement Plan - Stage 4
(Installation of Rear Ground Floor RC Slab)
(SCALE 1:200)

Ref.	Revisions	By	Date
B	Drawing For Constrcution	AK	16.12.14
	Changes due to planning requirement	GB	15.1.13

3 KIDDERPORE AVENUE,
LONDON,
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FOR CONSTRUCTION (D&B)

SEQUENCE OF WORKS
STAGE 4

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Scale at A1	Date	Drawn By	
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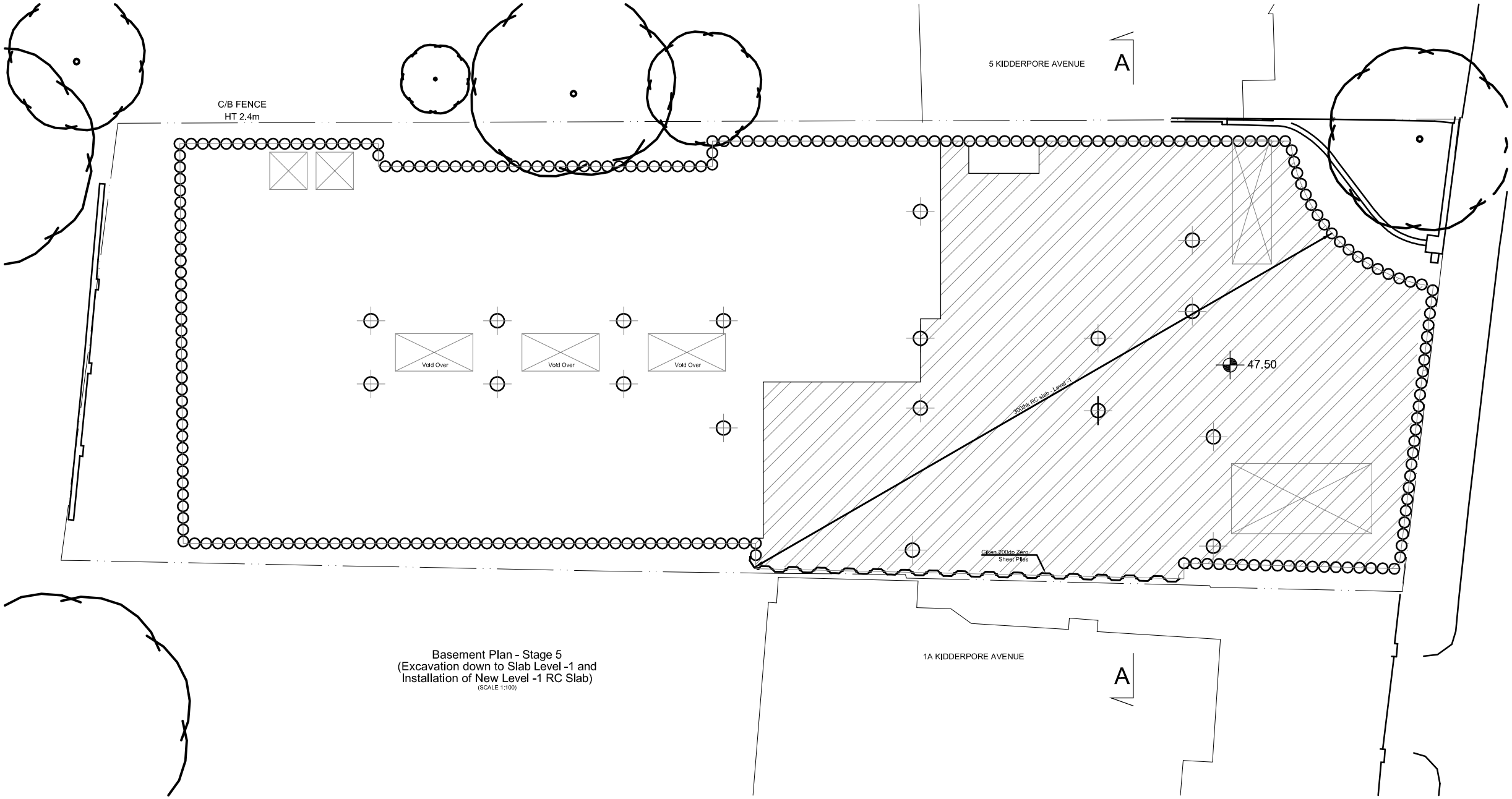
Project No.	Drg No.	Rev.
8148	ST04	B



Basement Plan - Stage 5
(Excavation down to Slab Level -1 and Installation of New Level -1 RC Slab)
(SCALE 1:100)

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B	Drawing For Constrcution	AK	16.12.14
A	Changes due to planning requirement	GB	15.1.13

3 KIDDERPORE AVENUE,
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NW3 7SX

FOR CONSTRUCTION (D&B)

SEQUENCE OF WORKS
STAGE 5

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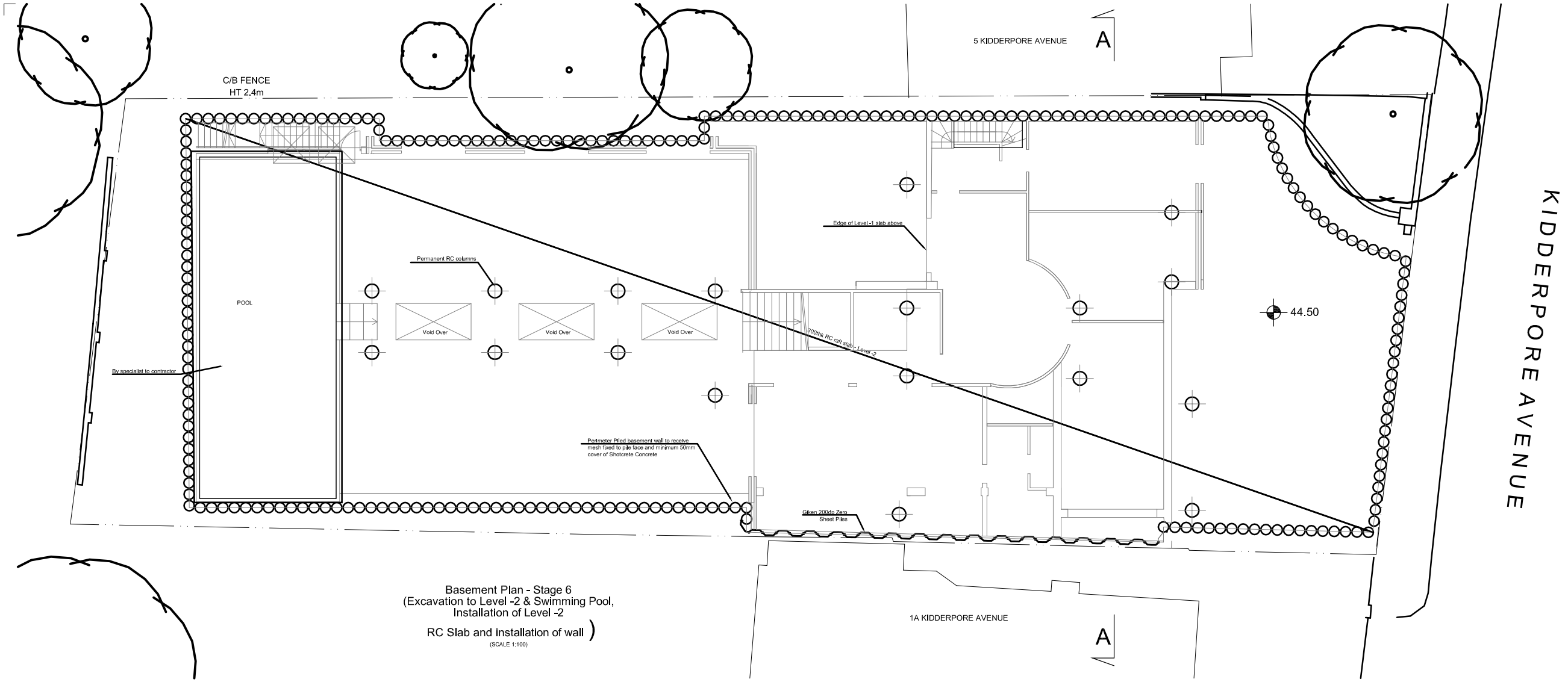
1:200	16.02.11	GB	

Project No.	Drg No.	Rev.
8148	ST05	B



Basement Plan - Stage 6
(Excavation to Level -2 & Swimming Pool, Installation of Level -2
RC Slab and installation of wall)
(SCALE 1:100)

1. This Drawing to be read in conjunction with all other Engineers, Architects and Specialists drawings and specifications.
2. No dlmenslons are to be scaled from this drawlng.
3. No deviation may be made from the details shown on this drawing without prior agreement of the Engineers.
4. Any discrepancy between this drawing and any other document should be referred immediately to the Engineer.

Estlmated Welghts of Reinforcement	
Item	Cubic Weights
300mm RC Slab	130kg/m³
400mm RC Slab	150kg/m³
General Floor Slab	120kg/m³
Columns	150kg/m³
Walls	100kg/m³
Stairs	110kg/m³

Ref.	Revisions	By	Date
B	Drawing For Constrcution	AK	16.12.14
A	Changes due to planning requirement	GB	15.1.13

3 KIDDERPORE AVENUE,
LONDON,
NW3 7SX

FOR CONSTRUCTION (D&B)

SEQUENCE OF WORKS
STAGE 6

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E-mail: tws@tws.uk.com Website: www.tws.uk.com

Scale at A1	Date	Drawn By	
1:200	16.02.11	GB	

Project No.	Drg No.	Rev.
8148	ST06	B

1. This Drawing to be read in conjunction with all other Engineers, Architects and Specialists drawings and specifications.
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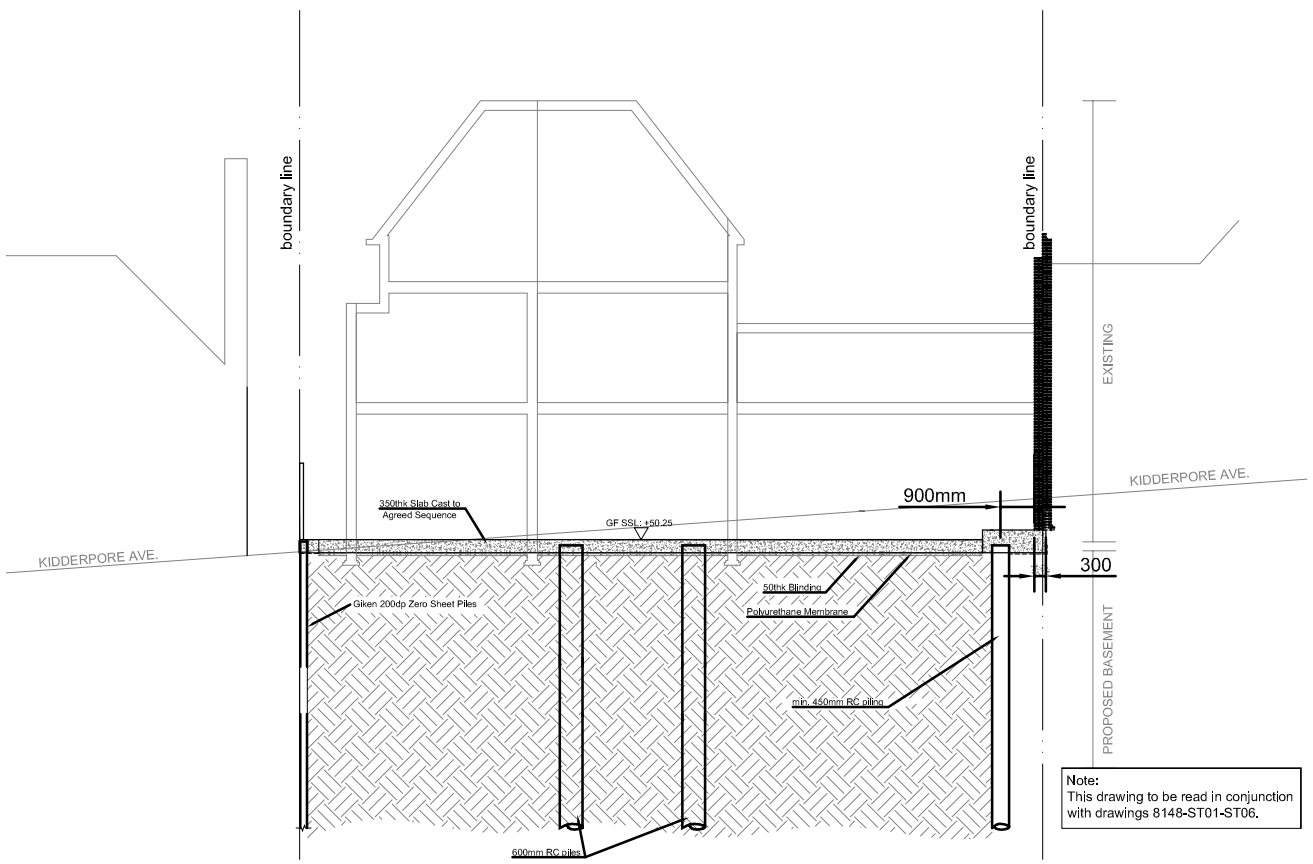
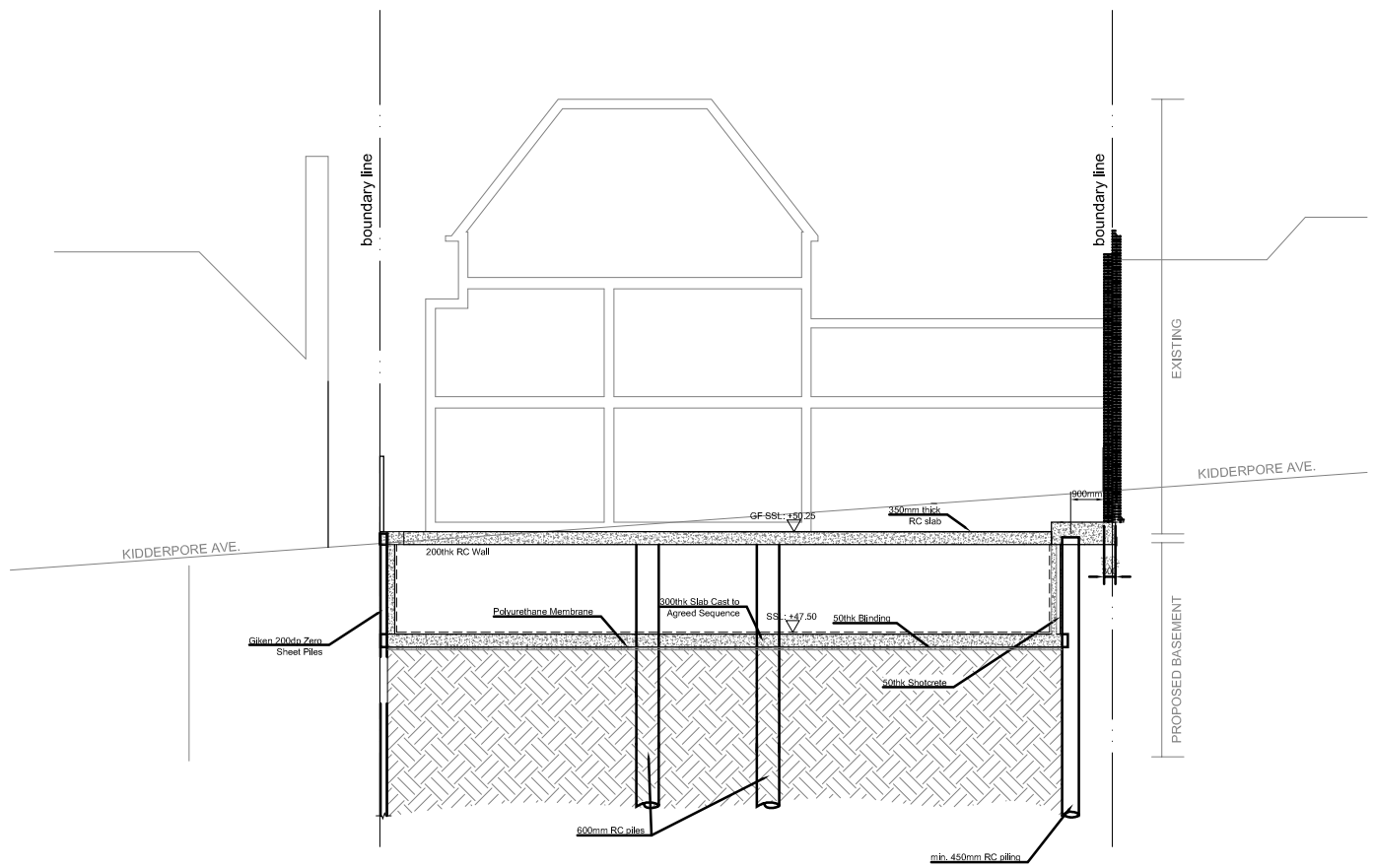
Stage 1,2,3, & 4

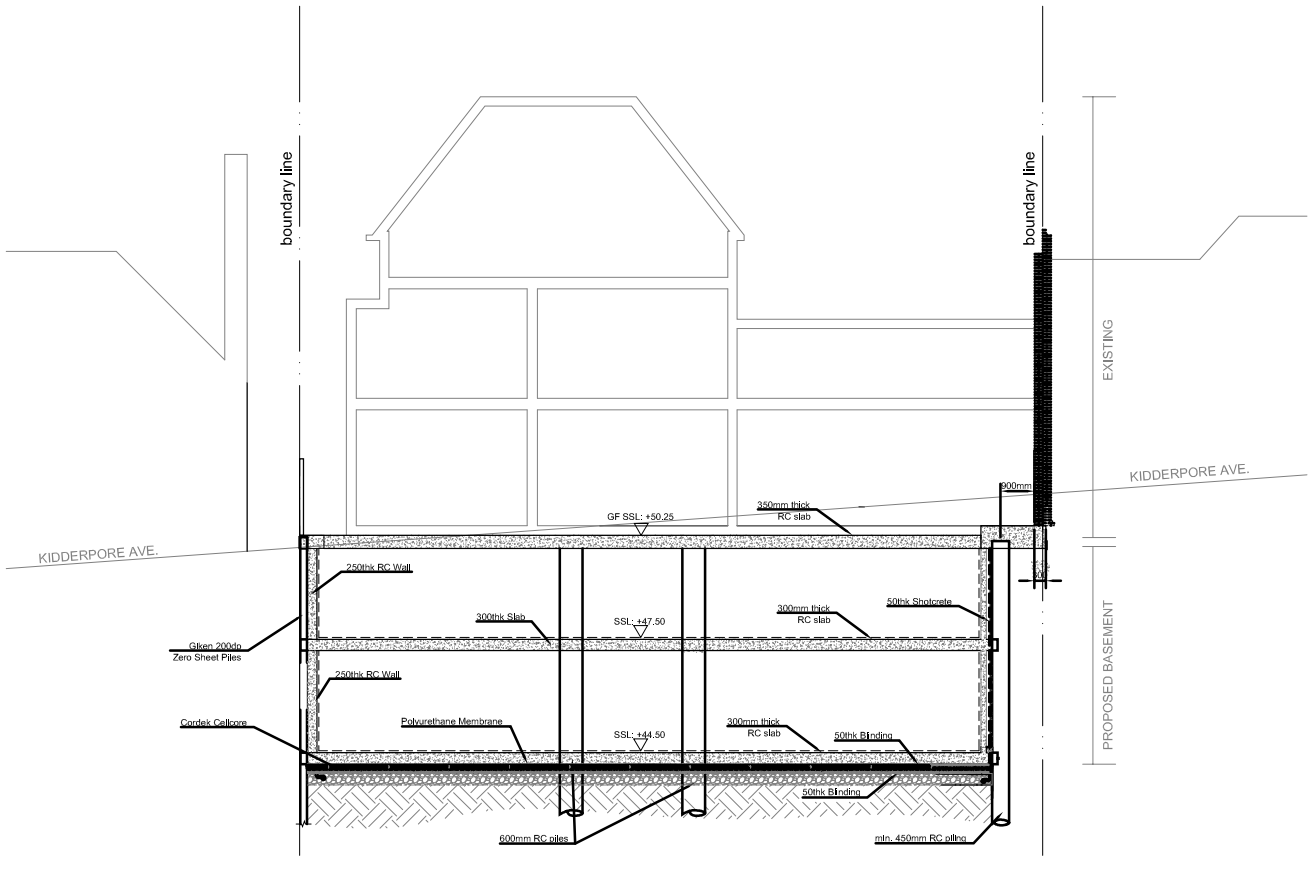


Note:
This drawing to be read in conjunction with drawings 8148-ST01-ST06.

Stage 5



Stage 6



Ref.	Revisions	By	Date
B	Drawing For Constrcution	AK	16.12.14
A	Changes due to planning requirement	GB	15.1.13

3 KIDDERPORE AVENUE,
LONDON,
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FOR CONSTRUCTION (D&B)

SECTION A-A
SEQUENCE OF WORKS AT ALL STAGES

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Scale at A1	Date	Drawn By	
1:100 1:25	16.02.11	GB	

Project No.	Drg No.	Rev.
8148	ST07	B

1. This Drawing to be read in conjunction with all other Engineers, Architects and Specialists drawings and specifications.
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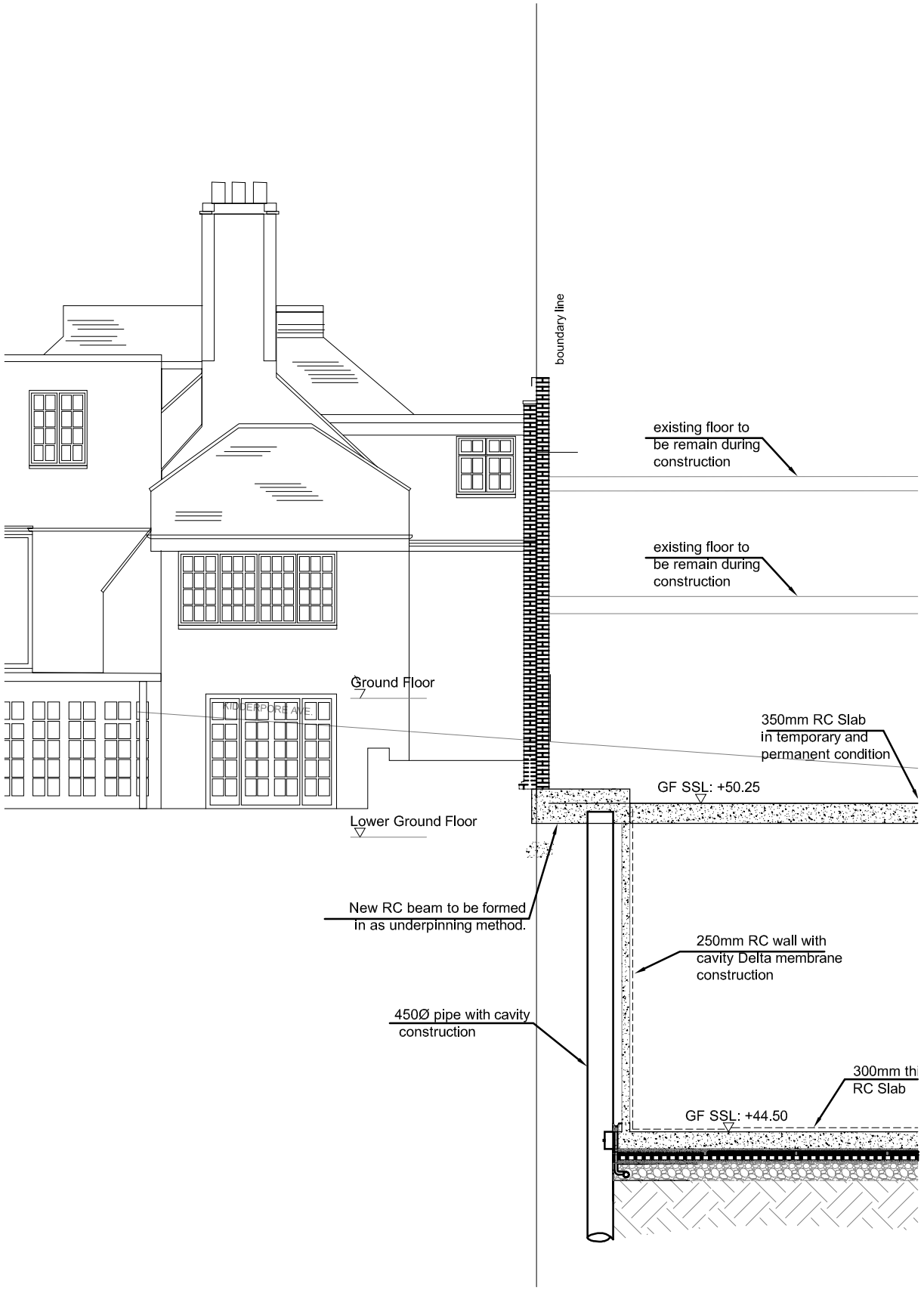
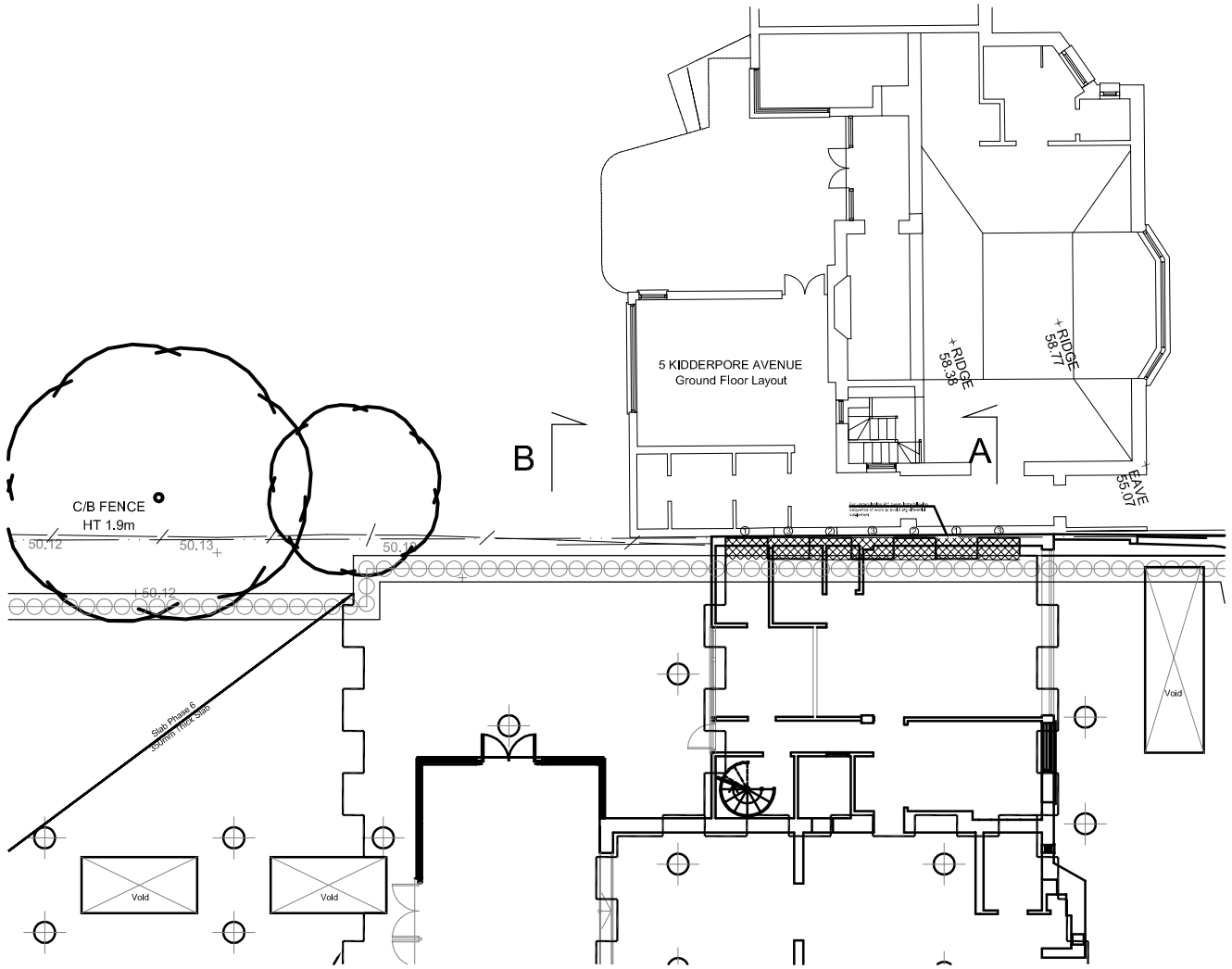
4. Any discrepancy between this drawing and any other document should be referred immediately to the Engineer.





Ref.	Revisions	By	Date
A	Drawing For Constrcution	AK	16.12.14

3 KIDDERPORE AVENUE
LONDON NW3 7SX

FOR CONSTRUCTION (D&B)

SECTION B-B

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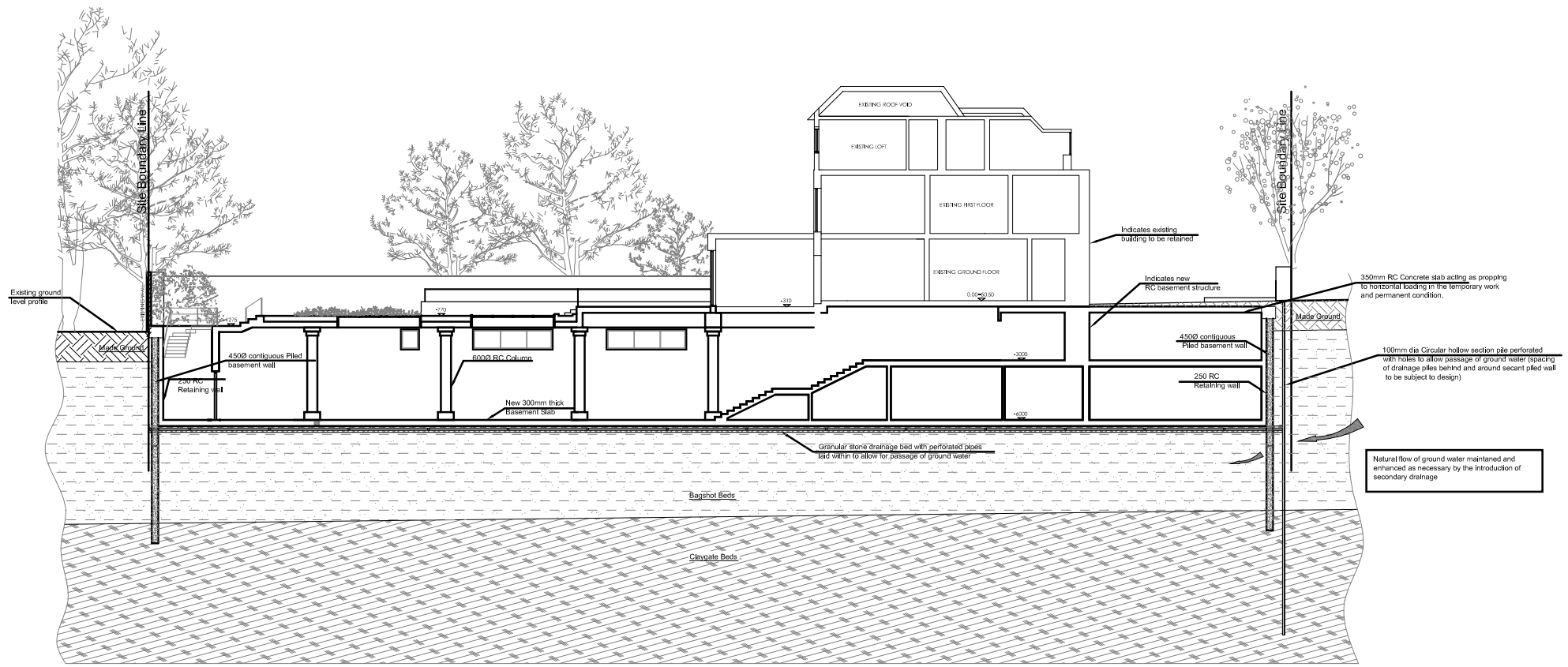
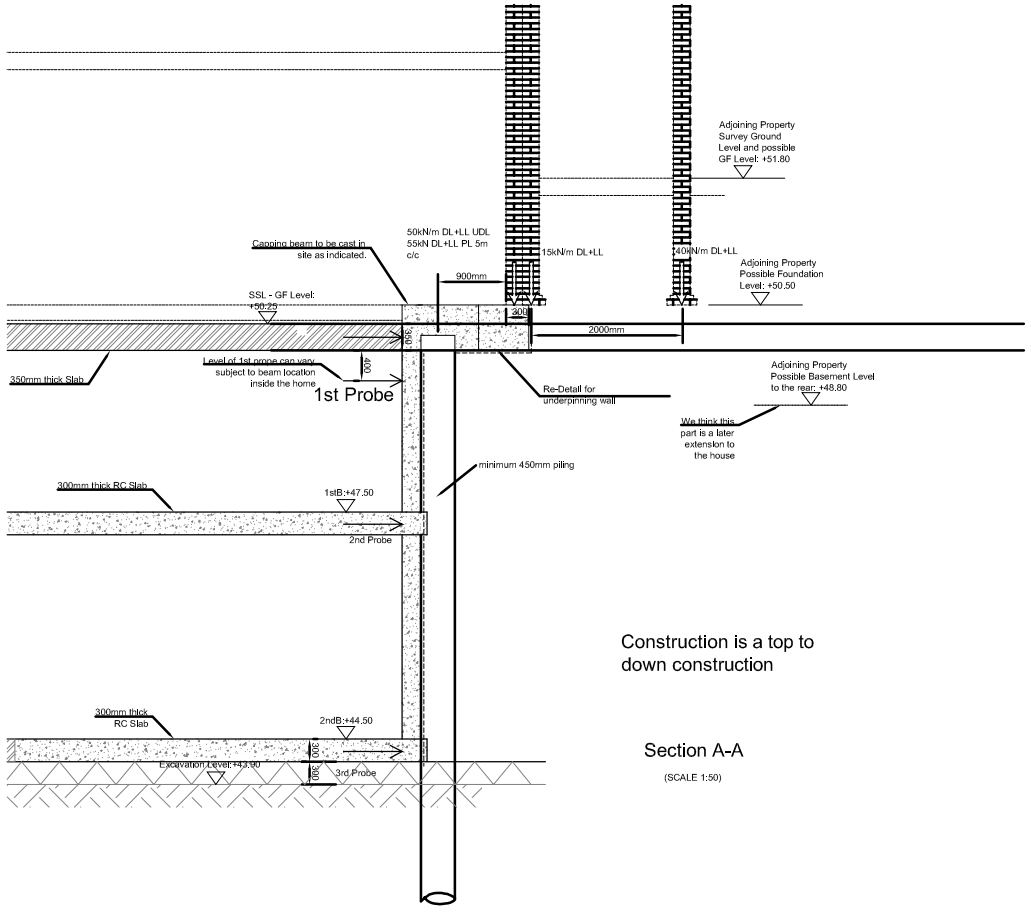
Scale at A1	Date	Drawn By	
1:100, 1:50	12/04/14	GB	

Project No.	Drg No.	Rev.
8148	ST08	A

1. This Drawing to be read in conjunction with all other Engineers, Architects and Specialists drawings and specifications.
2. No dimensions are to be scaled from this drawing.
3. No deviation may be made from the details shown on this drawing without prior agreement of the Engineers.
4. Any discrepancy between this drawing and any other document should be referred immediately to the Engineer.

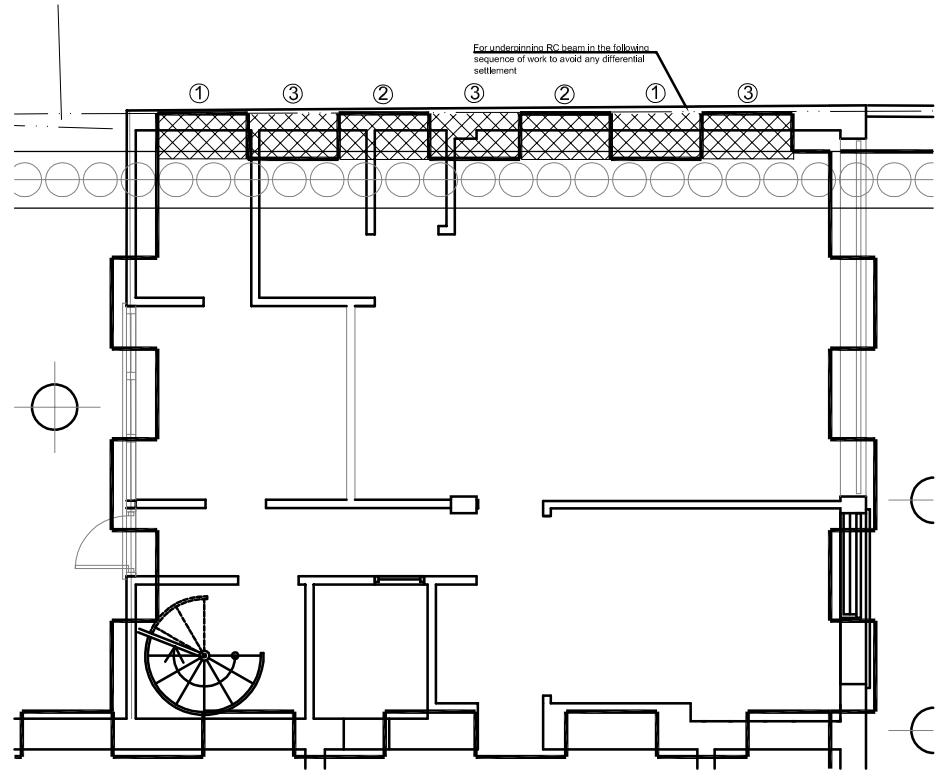


Building Section Indicating Drainage and Geology
(SCALE 1:150)



Construction is a top to down construction

Section A-A
(SCALE 1:50)



Enlarge plan for boundary wall at No.5
(SCALE 1:50)

Ref.	Revisions	By	Date
A	Drawing For Constrcution	AK	16.12.14

3 Kidderpore Avenue,
Hampstead
London, NW3 7SX,

FOR CONSTRUCTION (D&B)

Building Section Indicating Drainage and Geology & Section A-A

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Scale at A1	Date	Drawn By	
1:100	02.09.09	GB	

Project No.	Drg No.	Rev.
8148	TM01	A