

**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

**CONSTRUCTION**  
 C1 - Contaminated ground materials may exist site wide.  
 C2 - Existing ground sewer is present on site. Caution should be exercised during excavation.

**MAINTENANCE/CLEANING**

**DECOMMISSIONING/DEMOLITION**

It is assumed that all work will be carried out by a competent contractor working, where appropriate, to an approved method statement.

**NOTES:**  
 1. DO NOT SCALE FROM THIS DRAWING  
 2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE  
 3. ALL LEVELS ARE TO ORDINANCE DATUM.  
 4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS.

**KEY:**  
 MU - MOVEMENT JOINT WITH ANCON DSD SHEAR CONNECTORS (3NO). PER COLUMN + @ 1800 cc BETWEEN AND AWAY FROM COLUMNS)

COLUMN REF	SIZE (mm)
C1	400x300
C2	350x300
C3	750x300
C4	1025x375
C5	650x350
C6	600x250
C7	600x350
C8	250x250
C9	800x375
C10	600x275
C11	1150x375
C12	450x350
C13	450x375
C14	450x275
C15	600x375

Rev.	Date	Description	By	CHKD	App'd
P05	27/09/13	FOR INFORMATION	BH	CO	PO
P04	12/08/13	FOR INFORMATION	BH	CO	PO
P03	22/07/13	FOR INFORMATION	AM	CO	PO
P02	22/07/13	FOR INFORMATION	AM	CO	PO
P01	14/06/13	FOR INFORMATION	MJT	CO	PO

FOR INFORMATION	
<b>S2</b>	Submittal

FOR INFORMATION	
<b>S2</b>	Submittal

**ATKINS**  
 Euston Tower  
 286 Euston Road  
 London  
 NW1 3AT  
 Tel: +44 (0)20 7121 2000  
 Fax: +44 (0)20 7121 2111  
 www.atkinsglobal.com

Project Title  
**ABBEY AREA REGENERATION  
 LONDON  
 PHASE 1**

Drawing Title  
**BASEMENT LEVEL  
 GENERAL ARRANGEMENT**

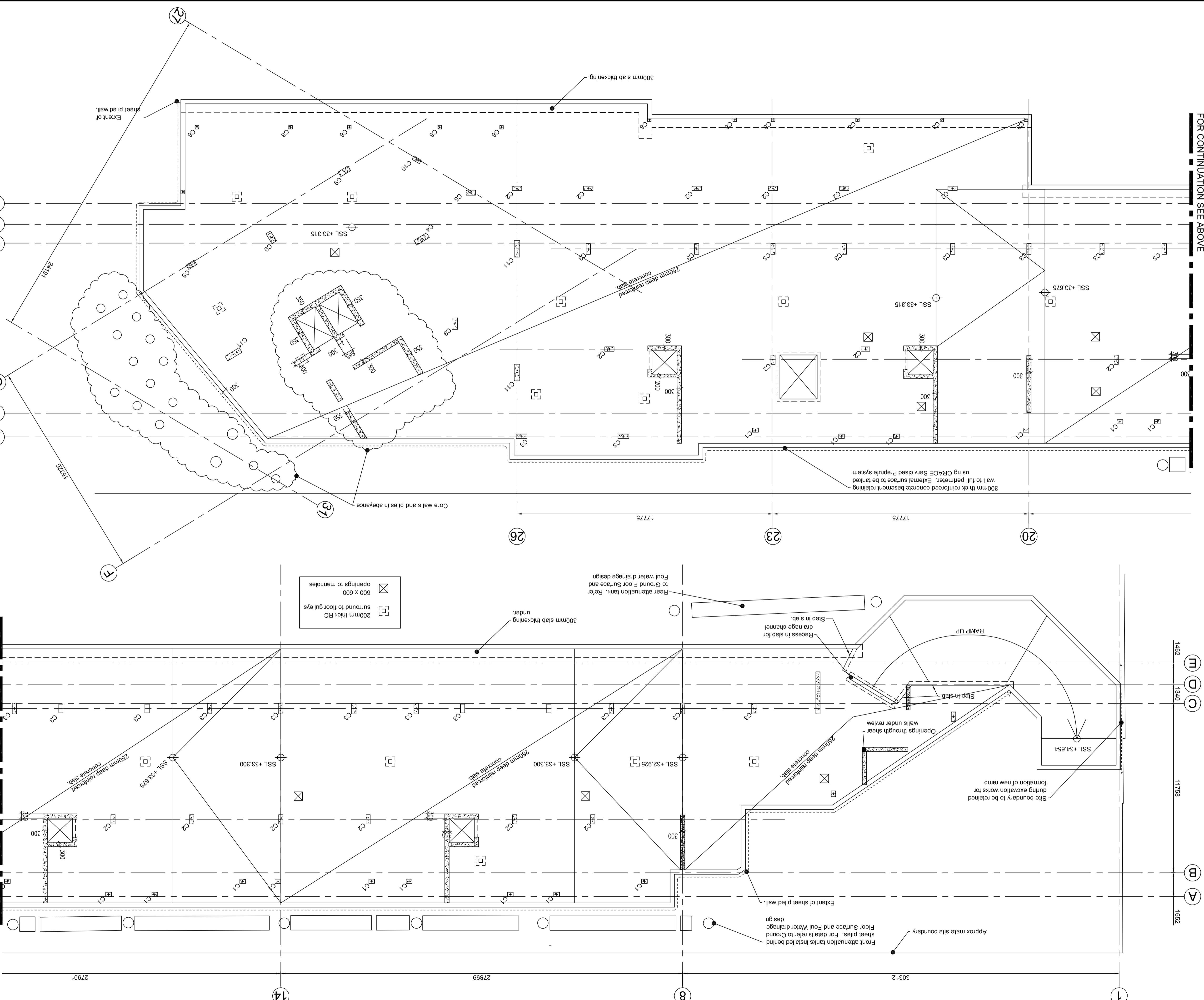
Scale	1:125
Drawn	MJT
Checked	CO
Approved	PO

Revision  
**P05**

**DO NOT SCALE**

FOR CONTINUATION SEE BELOW

FOR CONTINUATION SEE ABOVE



FOR CONTINUATION SEE ABOVE

100  
0 10  
Millimetres

DO NOT SCALE

**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

**CONSTRUCTION**

- CONSTRUCTION ABOVE EXISTING THAMES WATER LIVE SEWER

**MAINTENANCE/CLEANING**

**DECOMMISSIONING/DEMOLITION**

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

**GENERAL NOTES:**

- DO NOT SCALE FROM THIS DRAWING.
- ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL, ELECTRICAL, MECHANICAL, PUBLIC HEALTH AND STRUCTURAL DRAWINGS.
- THE DRAINAGE SERVICES INSTALLATIONS SHALL COMPLY WITH THE REQUIREMENTS OF THE BUILDING REGULATIONS, BS EN 12056 AND ALL MANUFACTURERS INSTRUCTIONS
- ALL BELOW SLAB AND CASTING THROUGH STRUCTURE PIPEWORK TO BE CAST IRON
- THAMES WATER DRAINAGE STRATEGY AND CONNECTION TO SEWER APPROVALS ARE TO BE OBTAINED PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION WORKS.
- UNRESTRICTED FOUL WATER DISCHARGE INTO THAMES WATER SEWER HAS BEEN ASSUMED, SUBJECT TO FORMAL THAMES WATER APPROVAL.
- SURFACE WATER DRAINAGE DISCHARGE INTO THAMES WATER SEWER IS TO MEET EXISTING OFF SITE DISCHARGE RATES REDUCED BY 50% (EQUIVALENT OF 14.7L/S UP TO AND INCLUDING 1 IN 100 YEAR STORM EVENT).
- FLOOR GULLIES TO BE TRAPPED WITH DN 100 OUTLET.
- BASEMENT PUMPS ARE TO BE FITTED WITH ALARM SYSTEM LINKED WITH BMS
- FULL RETENTION SEPARATOR CLASS 2 IS TO DISCHARGE INTO FOUL WATER DRAINAGE AND TO BE FITTED WITH HIGH LEVEL ALARM LINKED WITH BMS.

**LEGEND:**

- SURFACE WATER MANHOLE
- SURFACE WATER PIPE
- FOUL WATER MANHOLE
- FOUL WATER PIPE
- + RAIN WATER DOWNPIPE
- FOUL WATER GULLY
- FLANGE JOINT
- SURFACE WATER ATTENUATION TANK

P01	16/08/13	STAGE D ISSUE	PV	MS	RNS
Rev.	Date	Description	By	Chk'd	App'd

Drawing Status	<b>FOR INFORMATION</b>	Suitability	<b>SO</b>
----------------	------------------------	-------------	-----------

**ATKINS** Euston Tower  
285 Euston Road  
London  
NW1 3AT

Tel: +44 (0)2071 212000  
Fax: +44 (0)2071 212001  
www.atkinsglobal.com

Copyright © Atkins Limited (2013)

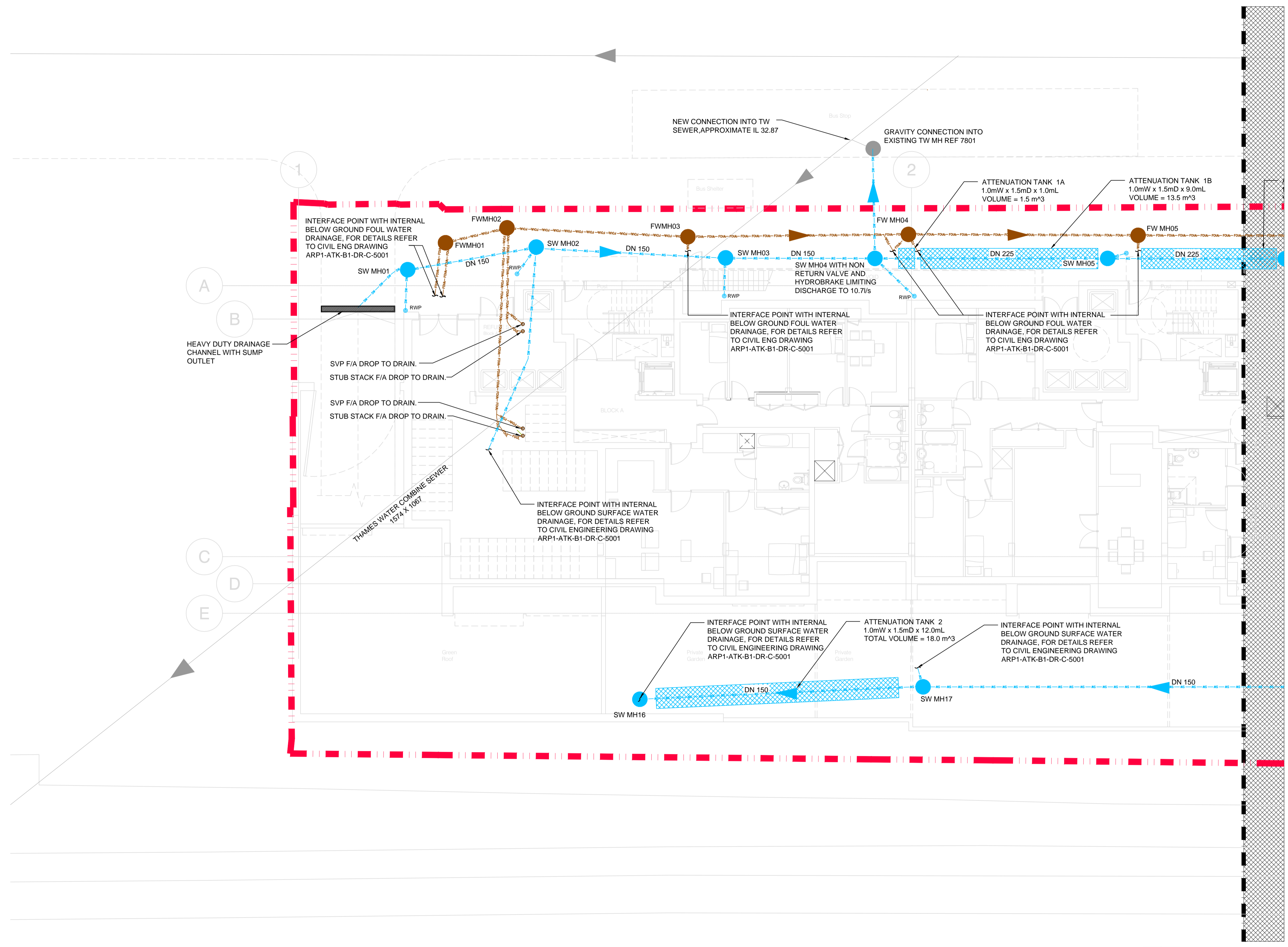
Client  
**LONDON BOROUGH OF CAMDEN**

Project Title  
**ABBEY AREA REGENERATION  
LONDON  
PHASE 1**

Drawing Title  
**GROUND FLOOR  
SURFACE AND FOUL WATER DRAINAGE  
SHEET 1 OF 3**

Scale	1:100	Designed	PV	Drawn	PV	Checked	MS	Authorised	RNS
Original Size	A1	Date	29/07/13	Date	29/07/13	Date	14/08/13	Date	16/08/13

Drawing Number	ARP1-ATK-XX-DR-C-5001	Revision	P01
----------------	-----------------------	----------	-----



FOR CONTINUATION REFER TO DRAWING No. ARP1-ATK-XX-DR-C-5002 - SHADED AREA DENOTES OVERLAP

100  
0 10  
Millimetres

DO NOT SCALE

**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

**CONSTRUCTION**

- CONSTRUCTION ABOVE EXISTING THAMES WATER LIVE SEWER

**MAINTENANCE/CLEANING**

**DECOMMISSIONING/DEMOLITION**

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

**GENERAL NOTES:**

- DO NOT SCALE FROM THIS DRAWING.
- ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL, ELECTRICAL, MECHANICAL, PUBLIC HEALTH AND STRUCTURAL DRAWINGS.
- THE DRAINAGE SERVICES INSTALLATIONS SHALL COMPLY WITH THE REQUIREMENTS OF THE BUILDING REGULATIONS, BSEN 12056 AND ALL MANUFACTURERS INSTRUCTIONS
- ALL BELOW SLAB AND CASTING THROUGH STRUCTURE PIPEWORK TO BE CAST IRON
- THAMES WATER DRAINAGE STRATEGY AND CONNECTION TO SEWER APPROVALS ARE TO BE OBTAINED PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION WORKS.
- UNRESTRICTED FOUL WATER DISCHARGE INTO THAMES WATER SEWER HAS BEEN ASSUMED, SUBJECT TO FORMAL THAMES WATER APPROVAL.
- SURFACE WATER DRAINAGE DISCHARGE INTO THAMES WATER SEWER IS TO MEET EXISTING OFF SITE DISCHARGE RATES REDUCED BY 50% (EQUIVALENT OF 14.71s UP TO AND INCLUDING 1 IN 100 YEAR STORM EVENT).
- FLOOR GULLIES TO BE TRAPPED WITH DN 100 OUTLET.
- BASEMENT PUMPS ARE TO BE FITTED WITH ALARM SYSTEM LINKED WITH BMS
- FULL RETENTION SEPARATOR CLASS 2 IS TO DISCHARGE INTO FOUL WATER DRAINAGE AND TO BE FITTED WITH HIGH LEVEL ALARM LINKED WITH BMS.

**LEGEND:**

- SURFACE WATER MANHOLE
- SURFACE WATER PIPE
- FOUL WATER MANHOLE
- FOUL WATER PIPE
- RAIN WATER DOWNPIPE
- FOUL WATER GULLY
- FLANGE JOINT
- SURFACE WATER ATTENUATION TANK

P01	16/08/13	STAGE D ISSUE	PV	MS	RNS
Rev.	Date	Description	By	Chk'd	App'd

Drawing Status		FOR INFORMATION		Suitability	
				SO	

**ATKINS** Euston Tower  
285 Euston Road  
London  
NW1 3AT

Tel: +44 (0)2071 212000  
Fax: +44 (0)2071 212001  
www.atkinglobal.com

Copyright © Atkins Limited (2013)

Client  
**LONDON BOROUGH OF CAMDEN**

Project Title  
**ABBEY AREA REGENERATION  
LONDON  
PHASE 1**

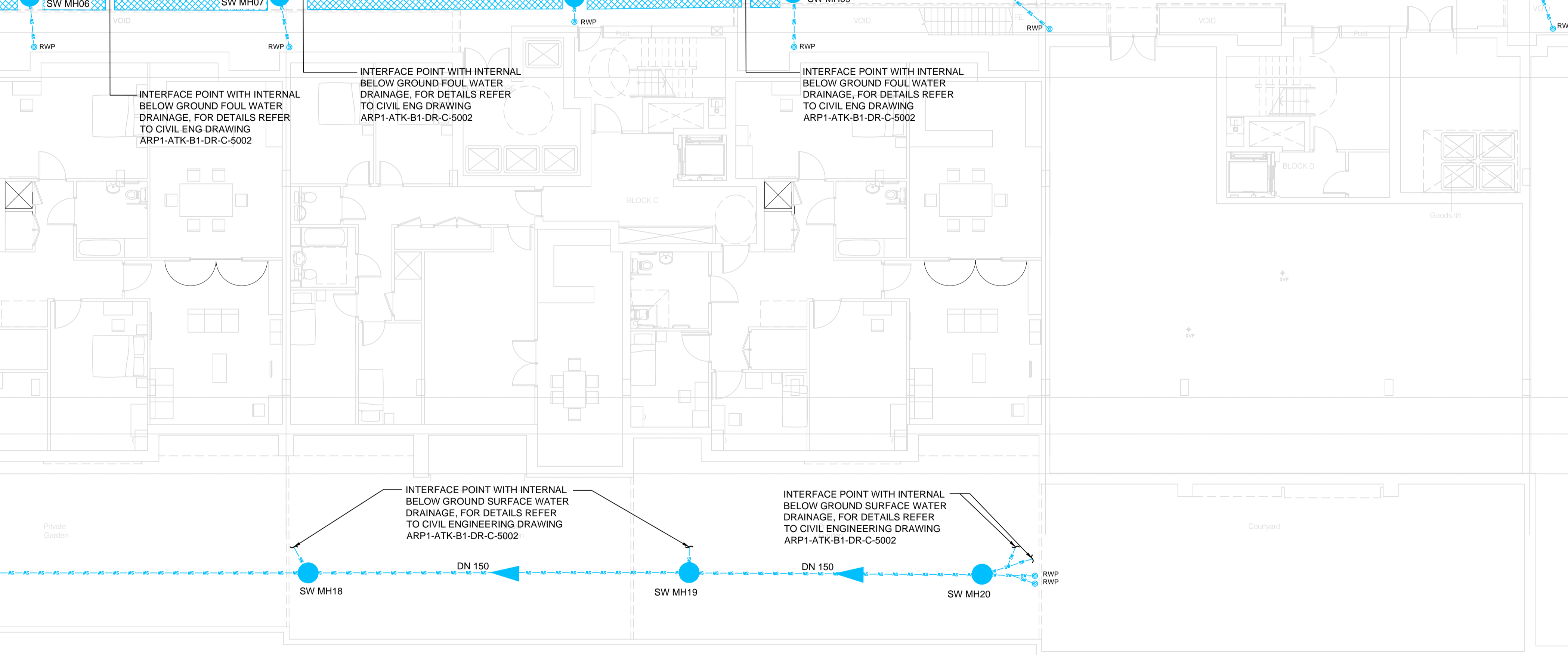
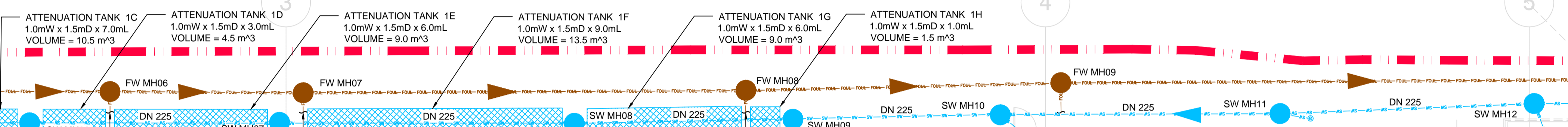
Drawing Title  
**GROUND FLOOR  
SURFACE AND FOUL WATER DRAINAGE  
SHEET 2 OF 3**

Scale	Designed	Drawn	Checked	Authorised
1:100	CA	LJH	DG	GS
Original Size	Date	Date	Date	Date
A1	29/07/13	29/07/13	14/08/13	16/08/13

Drawing Number	Revision
ARP1-ATK-XX-DR-C-5002	P01

Belsize Road

ATTENUATION TANKS 1A-1H  
TOTAL VOLUME = 63 m³



FOR CONTINUATION REFER TO DRAWING No. ARP1-ATK-XX-DR-C-5001 - SHADED AREA DENOTES OVERLAP

FOR CONTINUATION REFER TO DRAWING No. ARP1-ATK-XX-DR-C-5003 - SHADED AREA DENOTES OVERLAP

INTERFACE POINT WITH INTERNAL BELOW GROUND FOUL WATER DRAINAGE, FOR DETAILS REFER TO CIVIL ENG DRAWING ARP1-ATK-B1-DR-C-5002

INTERFACE POINT WITH INTERNAL BELOW GROUND SURFACE WATER DRAINAGE, FOR DETAILS REFER TO CIVIL ENGINEERING DRAWING ARP1-ATK-B1-DR-C-5002



100  
0 10  
Millimetres

DO NOT SCALE

**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

**CONSTRUCTION**

- CONSTRUCTION ABOVE EXISTING THAMES WATER LIVE SEWER

**MAINTENANCE/CLEANING**

**DECOMMISSIONING/DEMOLITION**

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

**GENERAL NOTES:**

- DO NOT SCALE FROM THIS DRAWING.
- ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL, ELECTRICAL, MECHANICAL, PUBLIC HEALTH AND STRUCTURAL DRAWINGS.
- THE DRAINAGE SERVICES INSTALLATIONS SHALL COMPLY WITH THE REQUIREMENTS OF THE BUILDING REGULATIONS, BS EN 12056 AND ALL MANUFACTURERS INSTRUCTIONS
- ALL BELOW SLAB AND CASTING THROUGH STRUCTURE PIPEWORK TO BE CAST IRON
- THAMES WATER DRAINAGE STRATEGY AND CONNECTION TO SEWER APPROVALS ARE TO BE OBTAINED PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION WORKS.
- UNRESTRICTED FOUL WATER DISCHARGE INTO THAMES WATER SEWER HAS BEEN ASSUMED, SUBJECT TO FORMAL THAMES WATER APPROVAL.
- SURFACE WATER DRAINAGE DISCHARGE INTO THAMES WATER SEWER IS TO MEET EXISTING OFF SITE DISCHARGE RATES REDUCED BY 50% (EQUIVALENT OF 14.71% UP TO AND INCLUDING 1 IN 100 YEAR STORM EVENT).
- FLOOR GULLIES TO BE TRAPPED WITH DN 100 OUTLET.
- BASEMENT PUMPS ARE TO BE FITTED WITH ALARM SYSTEM LINKED WITH BMS
- FULL RETENTION SEPARATOR CLASS 2 IS TO DISCHARGE INTO FOUL WATER DRAINAGE AND TO BE FITTED WITH HIGH LEVEL ALARM LINKED WITH BMS.

**LEGEND:**

- SURFACE WATER MANHOLE
- SURFACE WATER PIPE
- FOUL WATER MANHOLE
- FOUL WATER PIPE
- | RAIN WATER DOWNPIPE
- | FOUL WATER GULLY
- | FLANGE JOINT
- SURFACE WATER ATTENUATION TANK

P01	16/08/13	STAGE D ISSUE	PV	MS	RNS
Rev.	Date	Description	By	Chk'd	App'd

Drawing Status	<b>FOR INFORMATION</b>	Suitability	<b>SO</b>
----------------	------------------------	-------------	-----------

**ATKINS** Euston Tower  
285 Euston Road  
London  
NW1 3AT

Tel: +44 (0)2071 212000  
Fax: +44 (0)2071 212001  
Copyright © Atkins Limited (2013) www.atkinsglobal.com

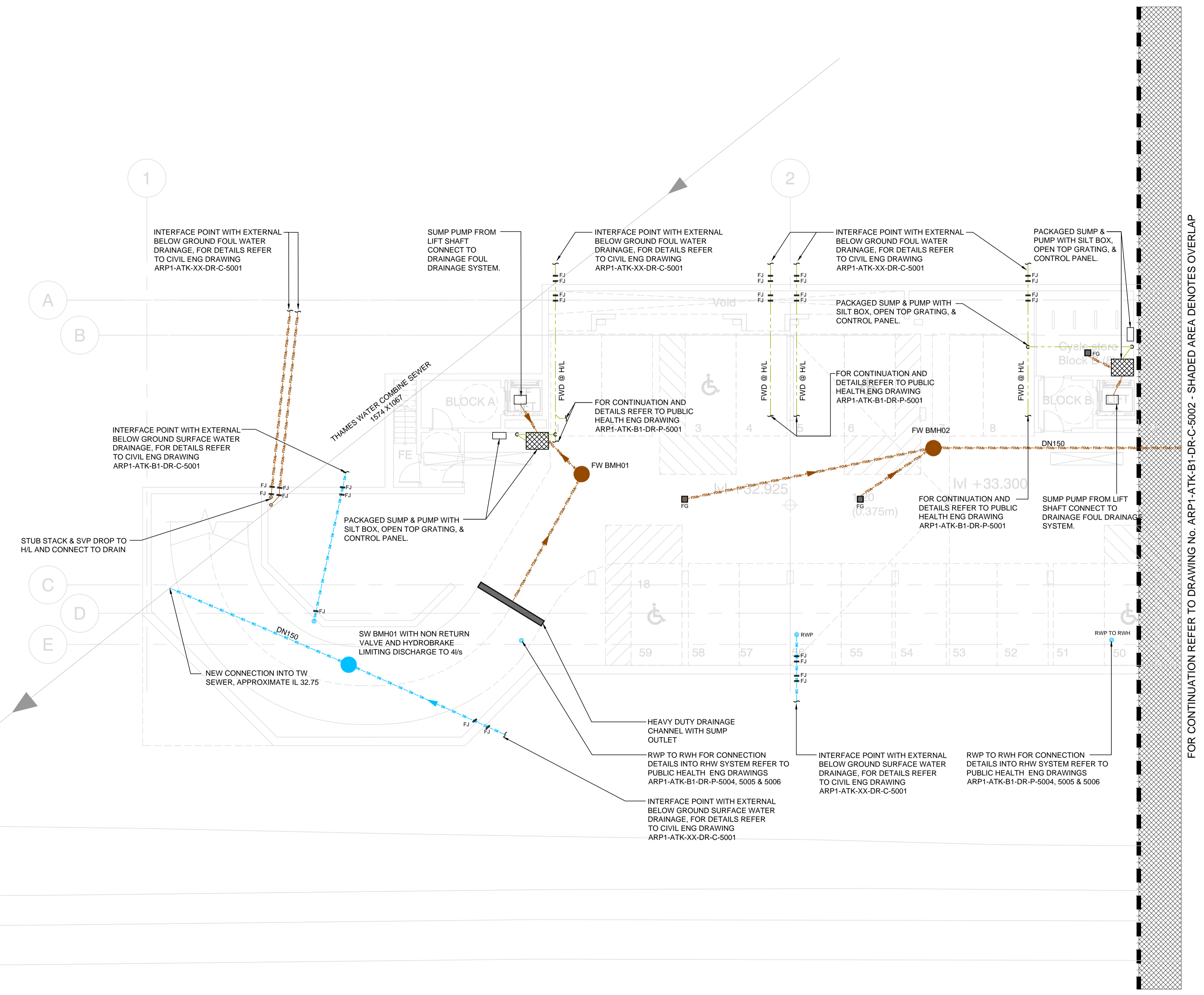
Client  
**LONDON BOROUGH OF CAMDEN**

Project Title  
**ABBEY AREA REGENERATION  
LONDON  
PHASE 1**

Drawing Title  
**BELOW SLAB  
BASEMENT  
SURFACE AND FOUL WATER DRAINAGE  
SHEET 1 OF 3**

Scale	1:100	Designed	PV	Drawn	PV	Checked	MS	Authorised	RNS
Original Size	A1	Date	29/07/13	Date	29/07/13	Date	14/08/13	Date	16/08/13

Drawing Number	ARP1-ATK-B1-DR-C-5001	Revision	P01
----------------	-----------------------	----------	-----



FOR CONTINUATION REFER TO DRAWING No. ARP1-ATK-B1-DR-C-5002 - SHADED AREA DENOTES OVERLAP

100  
0 10  
Millimetres

DO NOT SCALE

**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

**CONSTRUCTION**

- CONSTRUCTION ABOVE EXISTING THAMES WATER LIVE SEWER

**MAINTENANCE/CLEANING**

**DECOMMISSIONING/DEMOLITION**

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

**GENERAL NOTES:**

- DO NOT SCALE FROM THIS DRAWING.
- ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL, ELECTRICAL, MECHANICAL, PUBLIC HEALTH AND STRUCTURAL DRAWINGS.
- THE DRAINAGE SERVICES INSTALLATIONS SHALL COMPLY WITH THE REQUIREMENTS OF THE BUILDING REGULATIONS, BS EN 12056 AND ALL MANUFACTURERS INSTRUCTIONS
- ALL BELOW SLAB AND CASTING THROUGH STRUCTURE PIPEWORK TO BE CAST IRON
- THAMES WATER DRAINAGE STRATEGY AND CONNECTION TO SEWER APPROVALS ARE TO BE OBTAINED PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION WORKS.
- UNRESTRICTED FOUL WATER DISCHARGE INTO THAMES WATER SEWER HAS BEEN ASSUMED, SUBJECT TO FORMAL THAMES WATER APPROVAL.
- SURFACE WATER DRAINAGE DISCHARGE INTO THAMES WATER SEWER IS TO MEET EXISTING OFF SITE DISCHARGE RATES REDUCED BY 50% (EQUIVALENT OF 14.7% I/P TO AND INCLUDING 1 IN 100 YEAR STORM EVENT).
- FLOOR GULLIES TO BE TRAPPED WITH DN 100 OUTLET.
- BASEMENT PUMPS ARE TO BE FITTED WITH ALARM SYSTEM LINKED WITH BMS
- FULL RETENTION SEPARATOR CLASS 2 IS TO DISCHARGE INTO FOUL WATER DRAINAGE AND TO BE FITTED WITH HIGH LEVEL ALARM LINKED WITH BMS.

**LEGEND:**

- SURFACE WATER MANHOLE
- SURFACE WATER PIPE
- FOUL WATER MANHOLE
- FOUL WATER PIPE
- RAIN WATER DOWNPIPE
- FOUL WATER GULLY
- FLANGE JOINT
- SURFACE WATER ATTENUATION TANK

P01	16/08/13	STAGE D ISSUE	PV	MS	RNS
Rev.	Date	Description	By	Chk'd	App'd

Drawing Status	<b>FOR INFORMATION</b>	Suitability	<b>SO</b>
----------------	------------------------	-------------	-----------

**ATKINS** Euston Tower  
285 Euston Road  
London  
NW1 3AT

Tel: +44 (0)2071 212000  
Fax: +44 (0)2071 212001  
www.atkinsglobal.com

Copyright © Atkins Limited (2013)

Client  
**LONDON BOROUGH OF CAMDEN**

Project Title  
**ABBEY AREA REGENERATION  
LONDON  
PHASE 1**

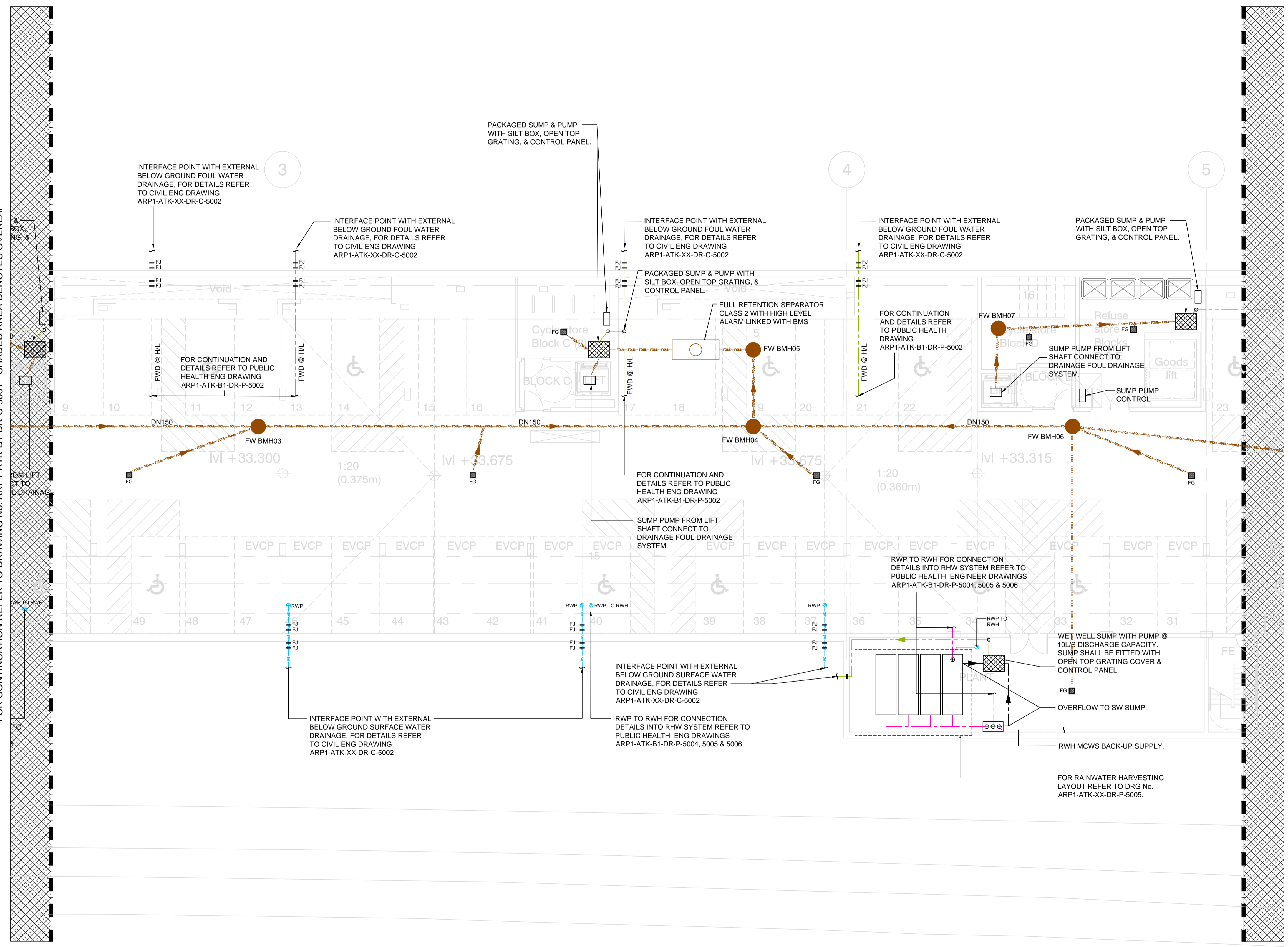
Drawing Title  
**BELOW SLAB  
BASEMENT  
SURFACE AND FOUL WATER DRAINAGE  
SHEET 2 OF 3**

Scale	1:100	Designed	PV	Drawn	PV	Checked	MS	Authorised	RNS
Original Size	A1	Date	29/07/13	Date	29/07/13	Date	14/08/13	Date	16/08/13

Drawing Number	Revision
ARP1-ATK-B1-DR-C-5002	P01

FOR CONTINUATION REFER TO DRAWING No. ARP1-ATK-B1-DR-C-5001 - SHADED AREA DENOTES OVERLAP

FOR CONTINUATION REFER TO DRAWING No. ARP1-ATK-B1-DR-C-5003 - SHADED AREA DENOTES OVERLAP



RAILWAY LINE

DO NOT SCALE

**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

**CONSTRUCTION**

- CONSTRUCTION ABOVE EXISTING THAMES WATER LIVE SEWER

**MAINTENANCE/CLEANING**

**DECOMMISSIONING/DEMOLITION**

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

**GENERAL NOTES:**

- DO NOT SCALE FROM THIS DRAWING.
- ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL, ELECTRICAL, MECHANICAL, PUBLIC HEALTH AND STRUCTURAL DRAWINGS.
- THE DRAINAGE SERVICES INSTALLATIONS SHALL COMPLY WITH THE REQUIREMENTS OF THE BUILDING REGULATIONS, BS EN 12056 AND ALL MANUFACTURERS INSTRUCTIONS
- ALL BELOW SLAB AND CASTING THROUGH STRUCTURE PIPEWORK TO BE CAST IRON
- THAMES WATER DRAINAGE STRATEGY AND CONNECTION TO SEWER APPROVALS ARE TO BE OBTAINED PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION WORKS.
- UNRESTRICTED FOUL WATER DISCHARGE INTO THAMES WATER SEWER HAS BEEN ASSUMED, SUBJECT TO FORMAL THAMES WATER APPROVAL.
- SURFACE WATER DRAINAGE DISCHARGE INTO THAMES WATER SEWER IS TO MEET EXISTING OFF SITE DISCHARGE RATES REDUCED BY 50% (EQUIVALENT OF 14.7% UP TO AND INCLUDING 1 IN 100 YEAR STORM EVENT).
- FLOOR GULLIES TO BE TRAPPED WITH DN 100 OUTLET.
- BASEMENT PUMPS ARE TO BE FITTED WITH ALARM SYSTEM LINKED WITH BMS
- FULL RETENTION SEPARATOR CLASS 2 IS TO DISCHARGE INTO FOUL WATER DRAINAGE AND TO BE FITTED WITH HIGH LEVEL ALARM LINKED WITH BMS.

**LEGEND:**

- SURFACE WATER MANHOLE
- SURFACE WATER PIPE
- FOUL WATER MANHOLE
- FOUL WATER PIPE
- RAIN WATER DOWNPIPE
- FOUL WATER GULLY
- FLANGE JOINT
- SURFACE WATER ATTENUATION TANK

P01	16/08/13	STAGE D ISSUE	PV	MS	RNS
Rev.	Date	Description	By	Chk'd	App'd

Drawing Status	<b>FOR INFORMATION</b>	Suitability	<b>SO</b>
----------------	------------------------	-------------	-----------

**ATKINS** Euston Tower  
285 Euston Road  
London  
NW1 3AT

Tel: +44 (0)2071 212000  
Fax: +44 (0)2071 212001  
www.atkinsglobal.com

Copyright © Atkins Limited (2013)

Client  
**LONDON BOROUGH OF CAMDEN**

Project Title  
**ABBEY AREA REGENERATION  
LONDON  
PHASE 1**

Drawing Title  
**BELOW SLAB  
BASEMENT  
SURFACE AND FOUL WATER DRAINAGE  
SHEET 3 OF 3**

Scale	1:100	Designed	PV	Drawn	PV	Checked	MS	Authorised	RNS
Original Size	A1	Date	29/07/13	Date	29/07/13	Date	14/08/13	Date	16/08/13

Drawing Number	ARP1-ATK-B1-DR-C-5003	Revision	P01
----------------	-----------------------	----------	-----

100  
0 10  
Millimetres

FOR CONTINUATION REFER TO DRAWING No. ARP1-ATK-B1-DR-C-5002 - SHADED AREA DENOTES OVERLAP

