

Appendix J

LEVEL 2 CAPACITY CHECK RESPONSE



WPS UK Ltd
WSP House
70 Chancery Lane
London
WC2A 1AF

Developer Services
Southern Water
Sparrowgrove House
Sparrowgrove
Otterbourne
Hampshire
SO21 2SW

Tel
Email

Your Ref:

Our Ref:
CC/002347

Date:
26 August 2014

F.A.O: Mr. Rob Forsyth,

Site: Barnham Development Sites, Yapton Road, Barnham, West Sussex, PO22 0BL.

Dear Sirs,

Further to your recent application for a level 2 enquiry regarding the above development site,

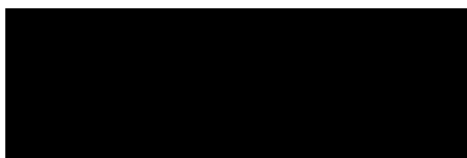
FOUL WATER

Please find enclosed the report which details the extent of works required in order for your proposed development site to be accommodated within the local sewerage infrastructure. It should be noted that the report is only a hydraulic solution to provide capacity for the proposed development site. There are other options available to you/ your client in discharging your proposed flows from the site such as making a connection application/requisition to a sewer at a point where capacity is currently available. Section 98 of the Water Industry Act 1991 provides a legal mechanism through which the appropriate infrastructure can be requested (by the developer) and provided to drain a specific location.

As you are aware the owner or occupier of the premises or private sewer or drain must give the sewerage undertaker notice of the proposed works. Upon receipt of the notice the undertaker may, within 21 days, refuse to allow him to make the connection if it considers that the mode of construction or the condition of the connecting sewer or drain either does not satisfy the standards reasonably required by the undertaker, or is such that the making of the communication would be prejudicial to its sewerage system.

The right of refusal is limited to these criteria alone and the undertaker cannot refuse to allow the connection on the grounds that the sewerage system is inadequate to take the extra liquid that the connection will discharge into it. This is a matter that should be dealt with at the planning stage.

Yours faithfully,



Developer Services

Please note: - The information provided above does not grant approval for any designs/drawings submitted for the capacity analysis. The results quoted above are only valid for 12 months from the date of issue of this letter.

Water Industry Act 1991 provides a legal mechanism through which the appropriate infrastructure can be requested (by the developer) and provided to drain a specific location.

Surface Water System

As a surface water capacity check has not been requested it is assumed that Surface Water will be disposed of by alternative means i.e. Soakaway or any local drainage watercourses, subject to all interested parties approval.

Before any connections are made, an application form needs to be completed and approved by Southern Water Services.

Please note: - The information provided above does not grant approval for any designs /drawings submitted for the capacity analysis. The results quoted above are only valid for 12 months from the date of issue of this letter.

Site Name	Yapton Road, Barnham.	
Our Ref:	SWS.CC.002347(1008897)	Date: 22/08/2014
Property Numbers	Number of properties on proposed development	145
Preferred point of connection	SU96043101	
Wastewater Discharge Rate	Wastewater discharge from residential properties	6.7 l/s
	Wastewater discharge from commercial or industrial purposes	-
	Total Wastewater discharge	6.7 l/s

Results		
Wastewater Capacity Assessment	Is capacity available at your preferred connection point for the entire discharge rate?	No
	Is capacity available at your preferred connection point for 50% of the entire discharge rate?	No
	Is capacity available at your preferred connection point for 20% of the entire discharge rate?	No
The nearest point on the wastewater network at which capacity exists for the entire demand is;		Lidsey WTW
Distance to and direction of the nearest point of available capacity:		1.7 km South West

This hydraulic analysis has been carried out based on the information contained within your application and in accordance with the terms and conditions specified in Southern Water's capacity check application form and guidance notes.

Notes:

- 1 The results of capacity checks are for information only and are neither an acceptance nor rejection of your proposal.
- 2 The results given above are only valid for 12 months from the date of issue of this letter

Job No	SWS.CC.002347 (1008897)
Author	Youvrani Thimmegowda
Checked	Shreya Purandara
Reviewed	William Rust

**Study into the Options for Foul Drainage Provision along Yapton Road,
Lidsey.**

Table 1 – Development Details

Proposed Development Flow l/s		Proposed Connection Manhole	Location
Foul water	6.7	SU96043101	Yapton Road
Surface Water	-	-	-
Commercial Flow	-	-	-

Figure 1 - Proposed Development

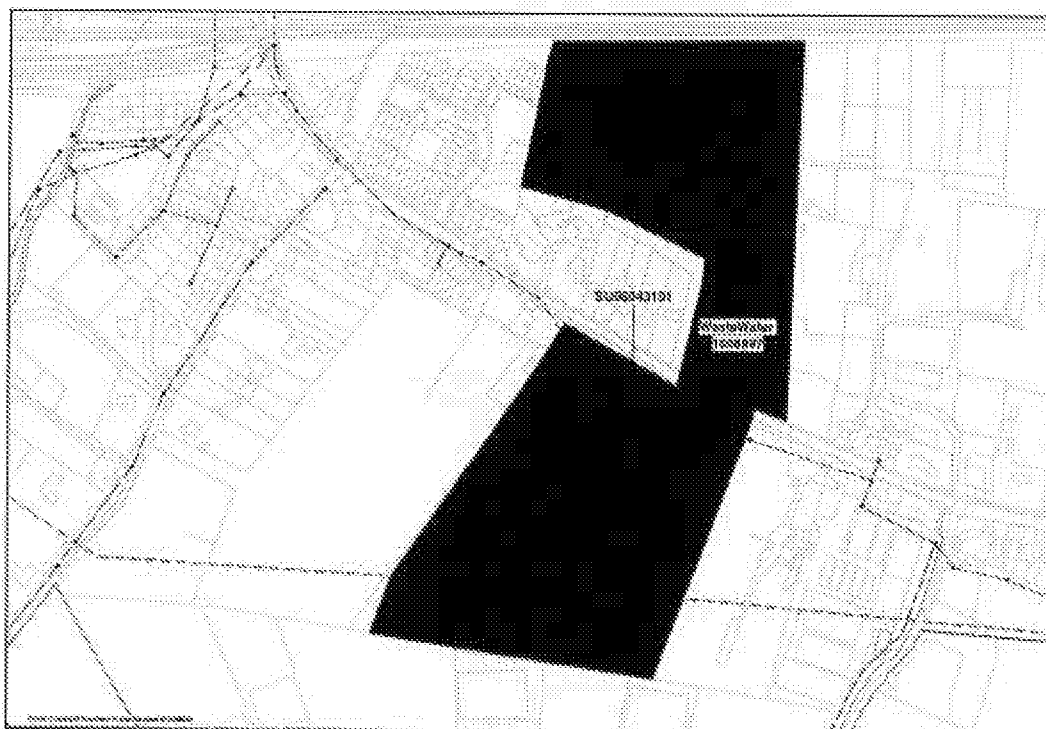


Figure 2- Proposed Improvements – Foul system

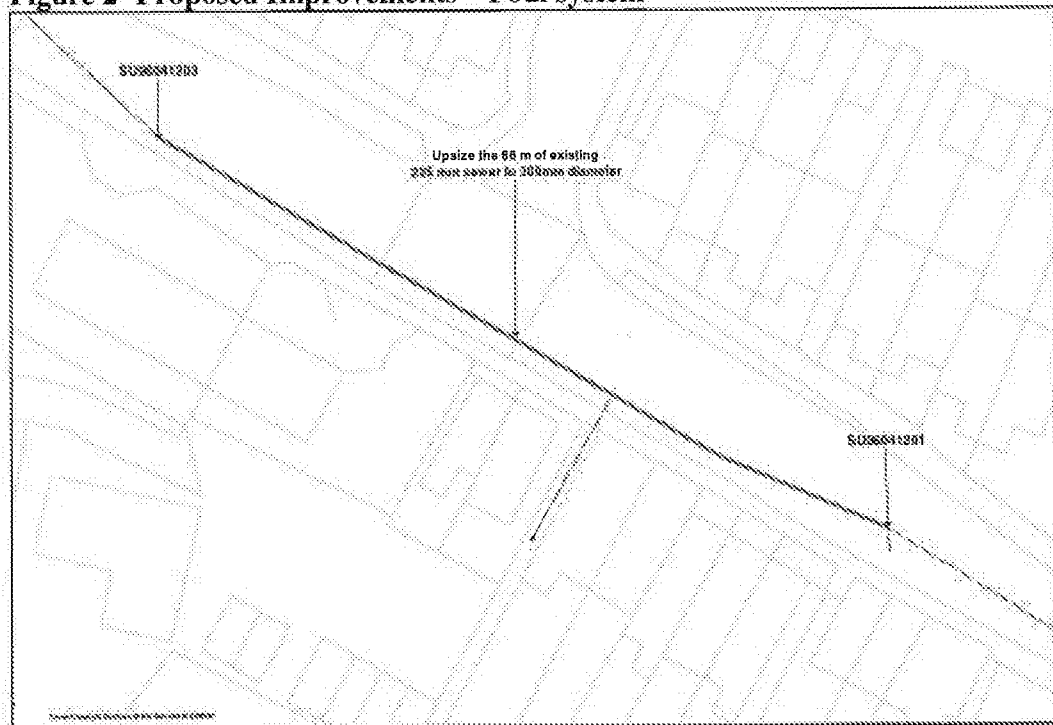


Figure 3- Proposed Improvements – Foul system

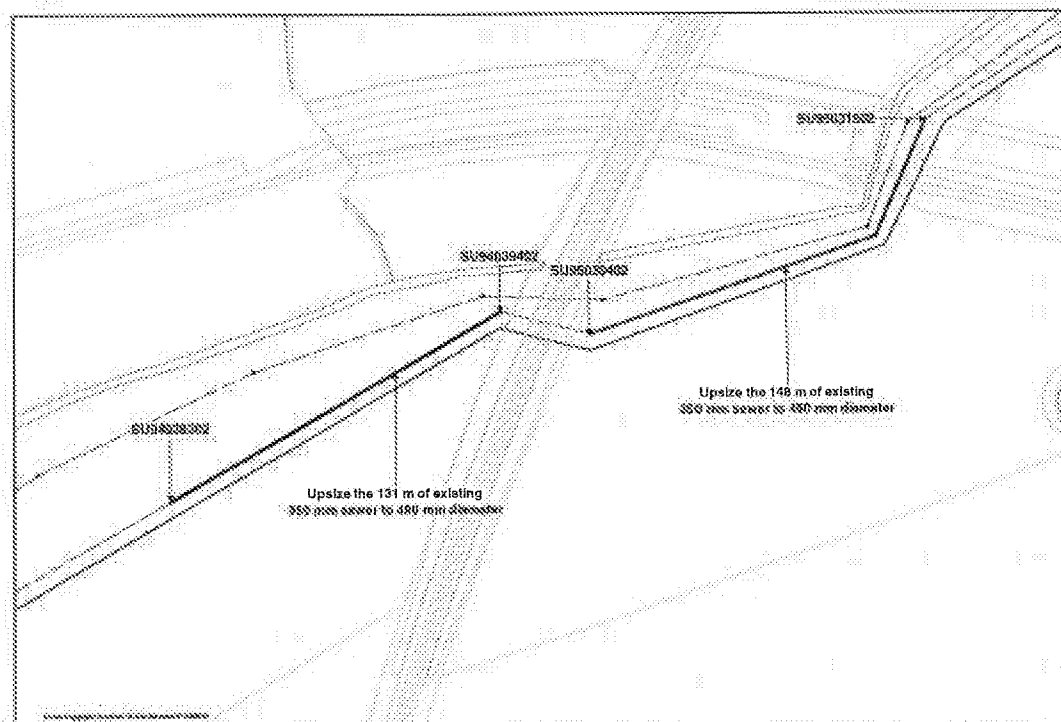


Figure 4- Proposed Improvements – Foul system

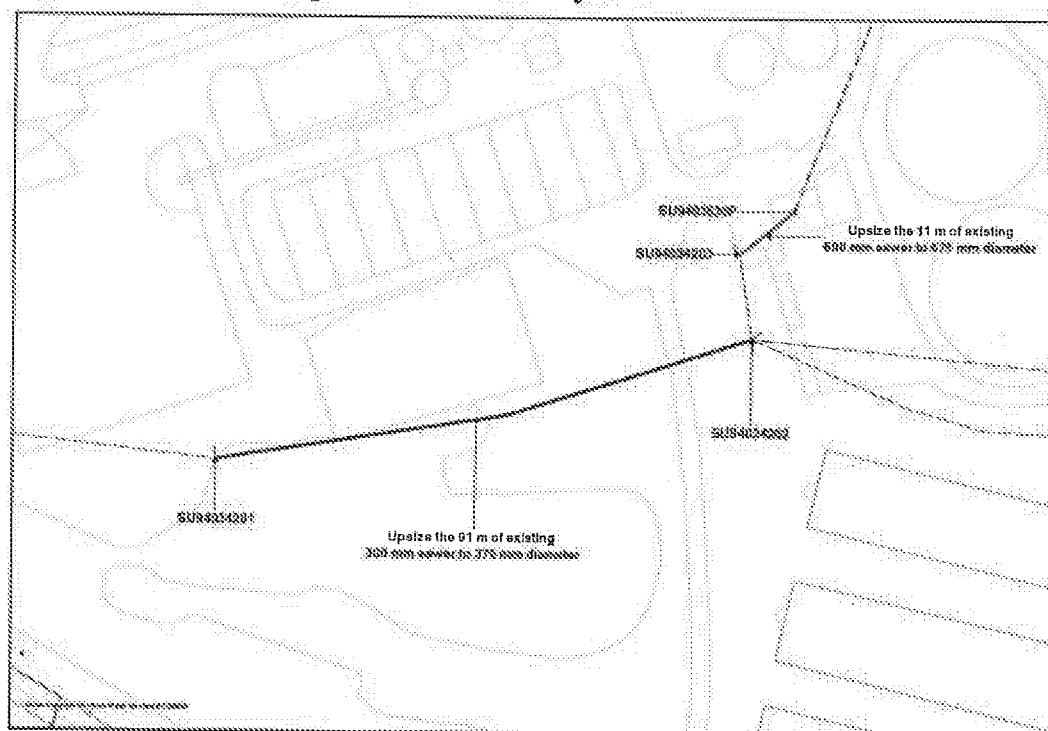


Table 2 Proposed Improvements Schedule

U/S Manhole	D/S Manhole	Sewer Diameter (mm)		Avg. Depth (m)	Length (m)
		Existing	Proposed		
SU96041201	SU96041203	225	300	2.3	68
SU95031502	SU95030402	350	450	1.5	148
SU94039402	SU94038302	350	450	1.6	131
SU94034201	SU94034202	300	375	5.1	91
SU94034203	SU9403530P	600	675	-	11

Conclusion

We have completed the foul sewer capacity check for the above development site and the results are as follows:

Foul Water

There is currently inadequate capacity within the local foul sewerage network to accommodate a flow of 6.7 l/s at manhole reference SU96043101. The proposed development would increase flows to the local network and as a result existing properties and land may be subject to a greater risk of flooding. Additional off-site sewers or improvements to existing sewers will be required to provide sufficient capacity to service the proposed development as indicated in Figure 2, 3 & 4 and Table 2.

The nearest point where capacity is currently available is at Lidsey WTW located approximately 1.7 km south west of the proposed development site. Section 98 of the



STUDY INTO THE OPTIONS FOR
FOUL WATER DRAINAGE PROVISION FOR
BARNHAM DEVELOPMENT SITES

YAPTON ROAD
BARNHAM
WEST SUSSEX
PO22 0BL

27 August 2014

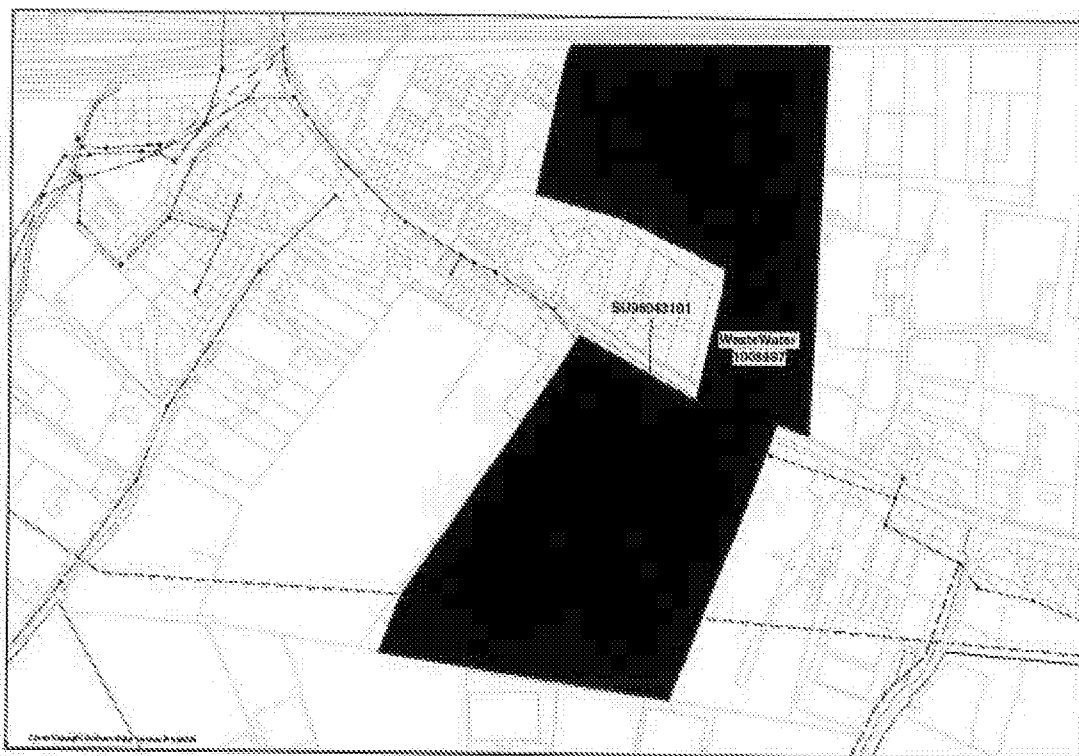
REQUESTED:
WPS UK Ltd

Study into the Options for Foul water Drainage Provision along Yapton Road, Lidsey

I. Development Details:

The proposal is to discharge 6.7 l/s of foul flow to the local foul sewerage systems at manhole reference SU96043101 which is located in Yapton Road.

Figure 1 - Proposed Development



II. Results and Conclusions:

FOUL WATER

There is currently inadequate capacity within the local foul sewerage network to accommodate a flow of 6.7 l/s at manhole reference SU96043101. The proposed development would increase flows to the local network and as a result existing properties and land may be subject to a greater risk of flooding.

Additional off-site sewers or improvements to existing sewers will be required to provide sufficient capacity to service the proposed development as indicated in Figure 2, 3 & 4 and Table 1.

The nearest point where capacity is currently available is at Lidsey WTW located approximately 1700 m south west of the proposed development site. Section 98 of the Water Industry Act 1991 provides a legal mechanism through which the appropriate infrastructure can be requested (by the developer) and provided to drain a specific location. Section 98 of the Water Industry Act 1991 provides a legal mechanism through which the appropriate infrastructure can be requested (by the developer) and provided to drain a specific location.

Study into the Options for Foul water Drainage Provision along Yapton Road, Lidsey

Figure 2- Proposed Improvements – Foul system

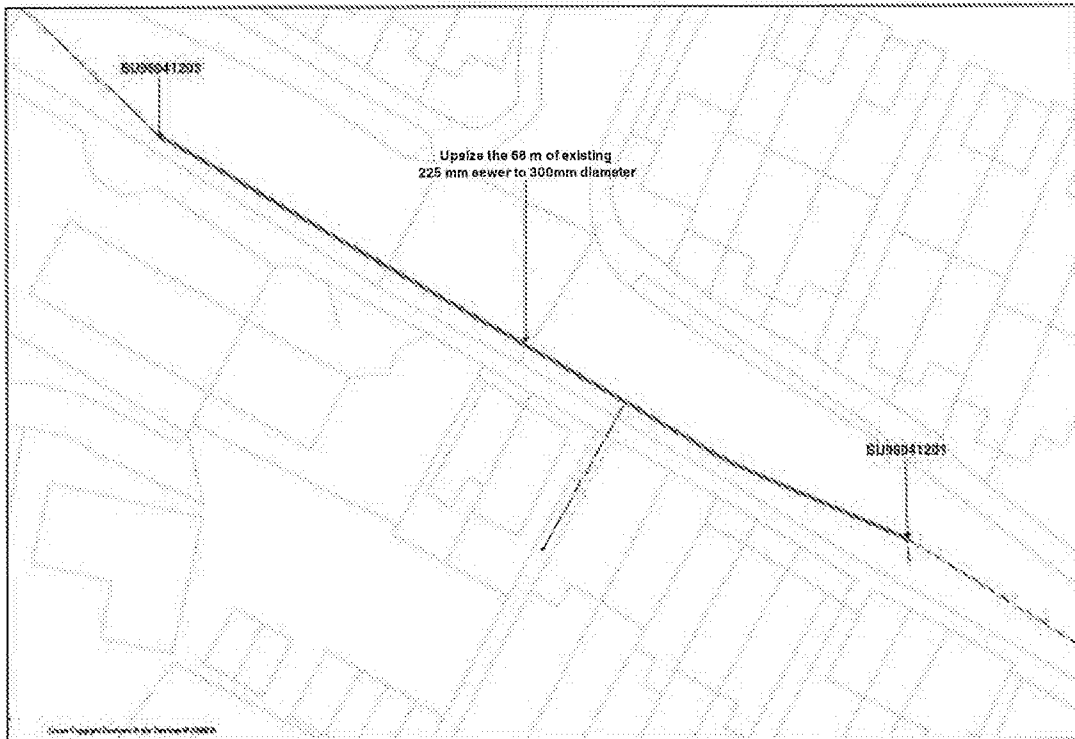
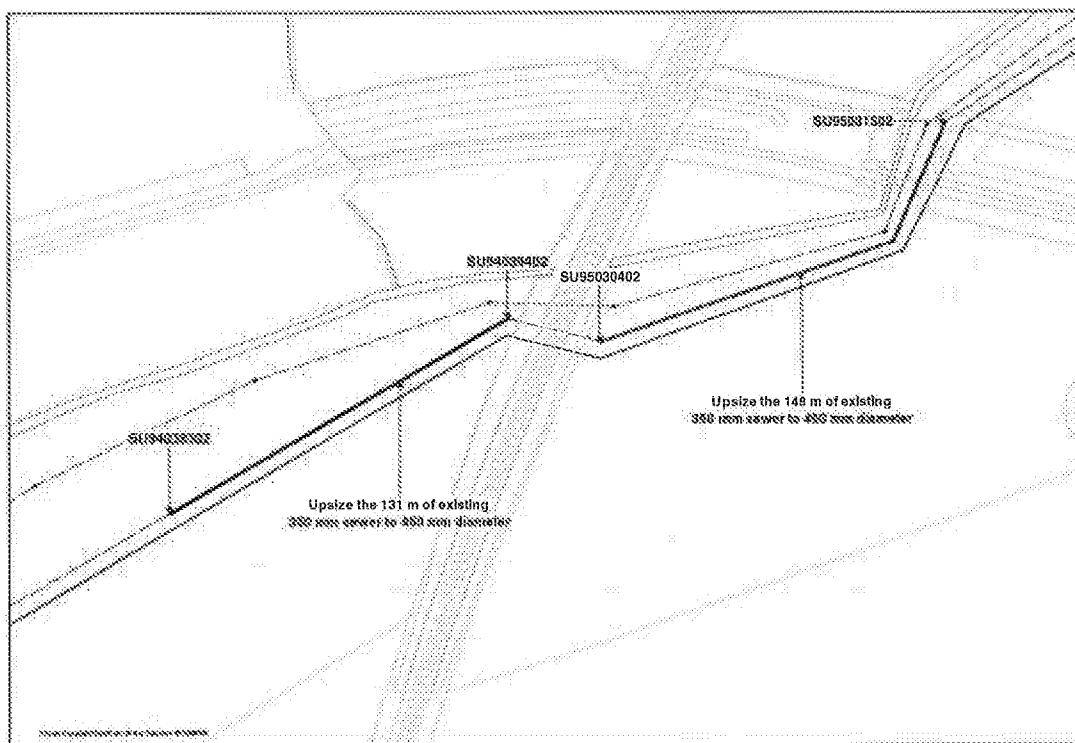


Figure 3- Proposed Improvements – Foul system



Study into the Options for Foul water Drainage Provision along Yapton Road, Lidsey

Figure 4- Proposed Improvements – Foul system

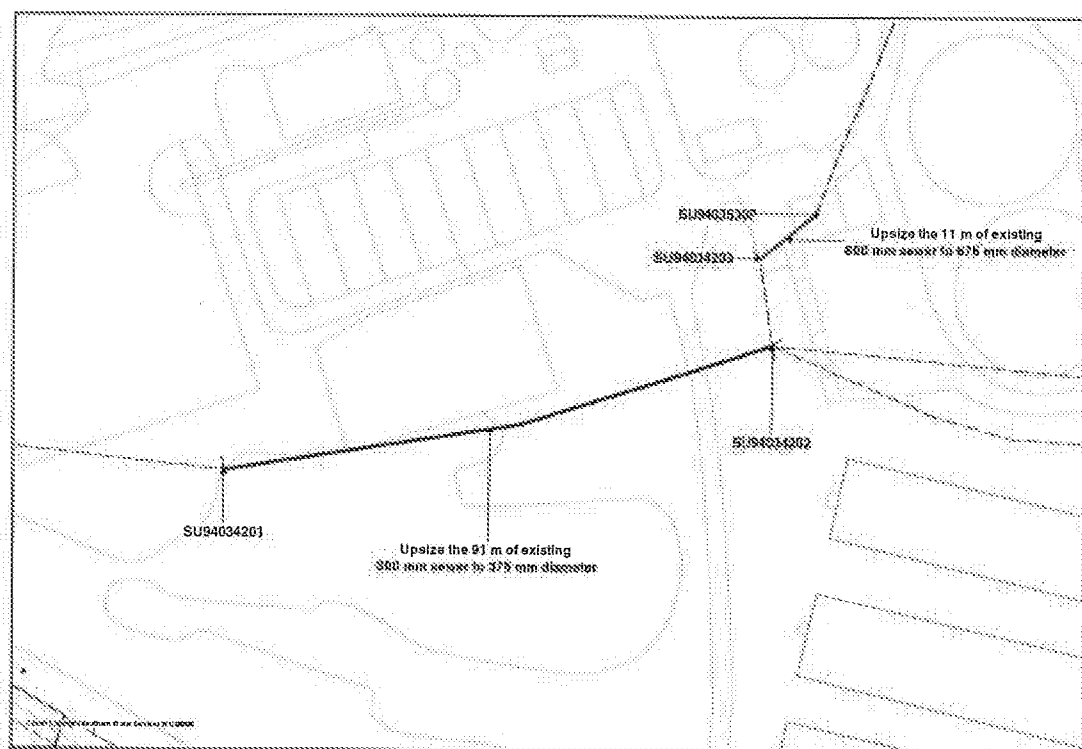


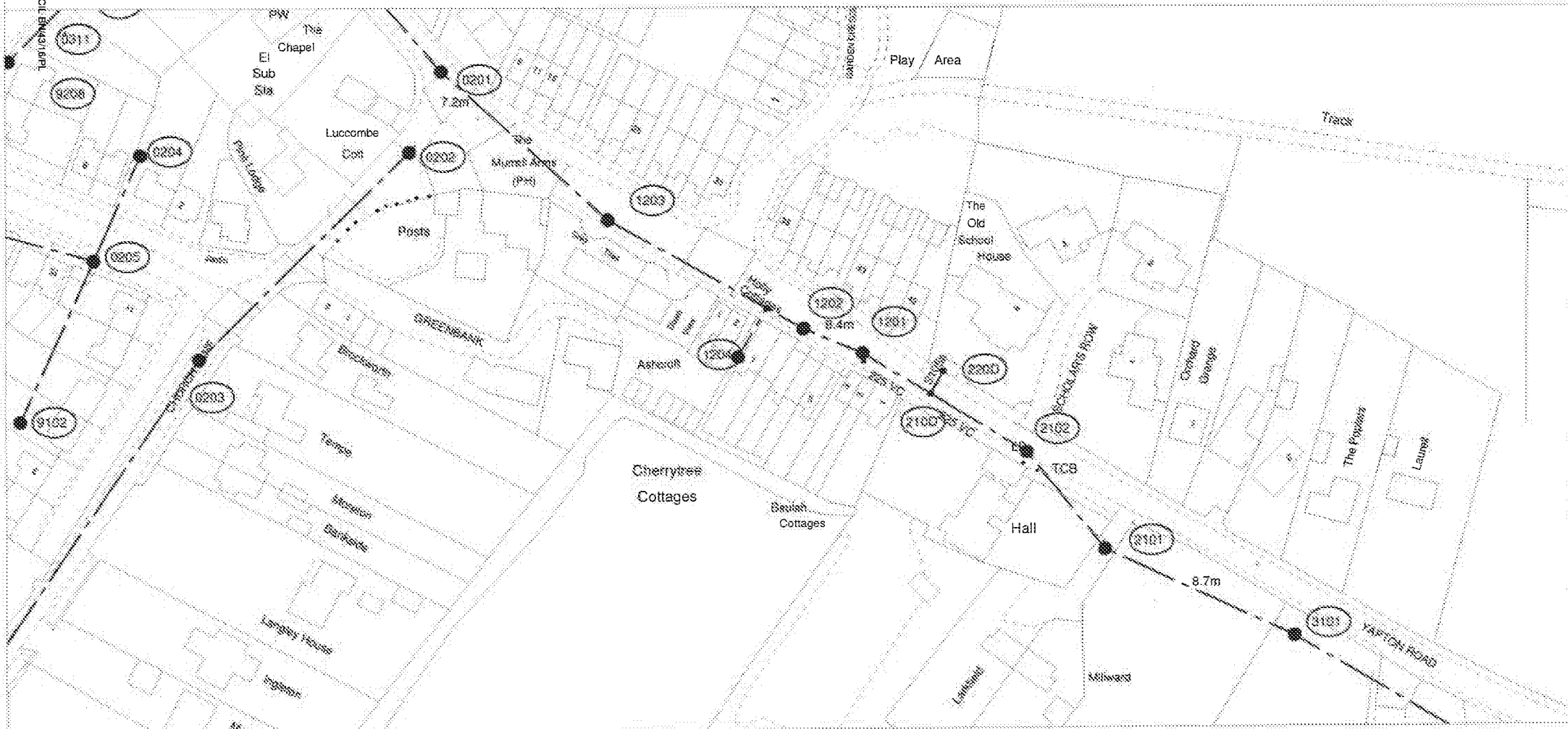
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SOUTHERN WATER



The positions of pipes shown on this plan are believed to be correct, but Southern Water Services Ltd accept no responsibility in the event of inaccuracy. The actual positions should be determined on site.

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O.S. REF: SU9604SW

Scale: 1:1250

Sewer Plot

WARNING: BAC pipes are constructed of Bonded Asbestos Cement
WARNING: Unknown (UNK) materials may include Bonded Asbestos Cement

**Southern
Water**

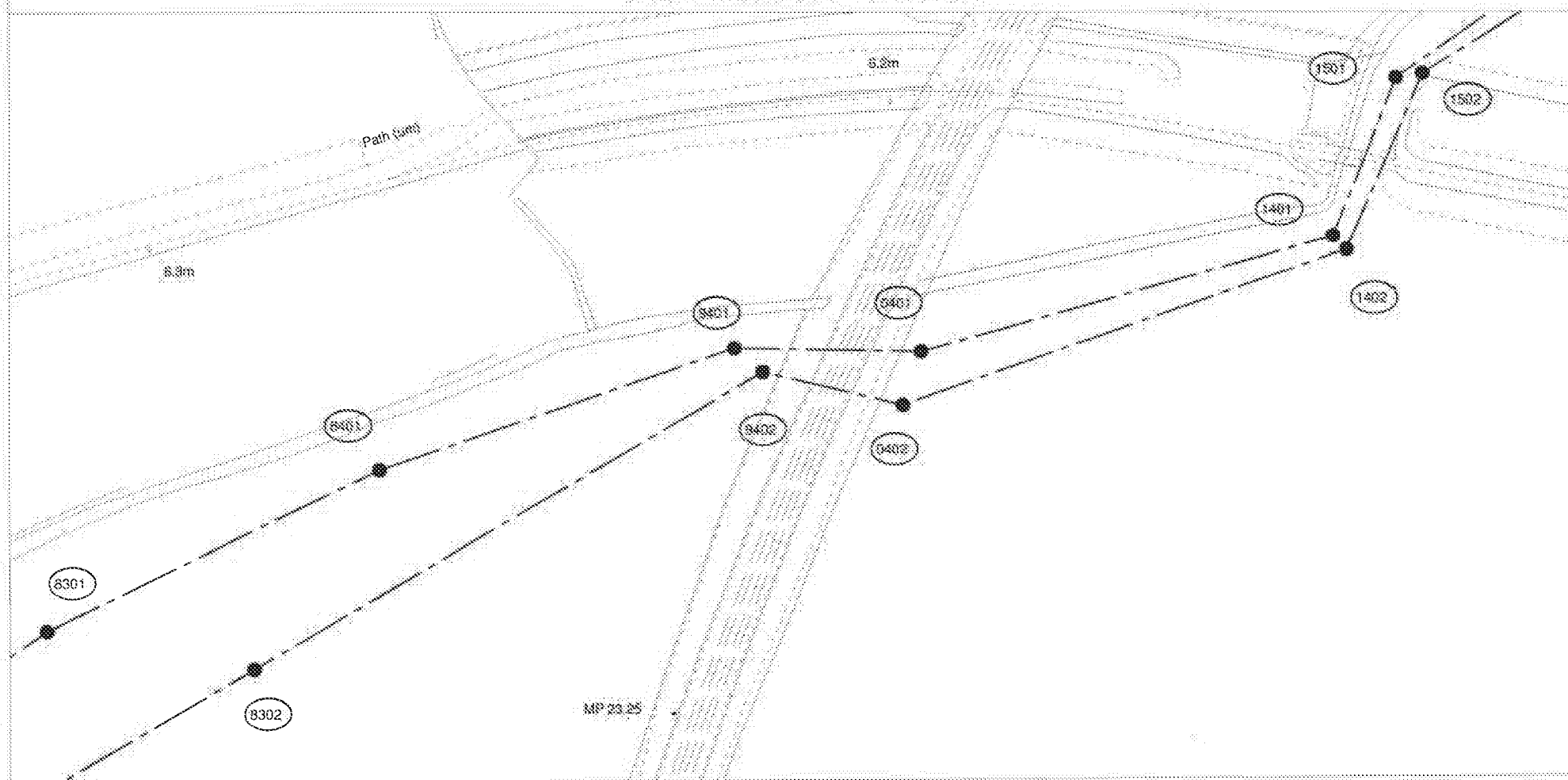
Printed By: Bharath

Date: 26-8-2014

Improvements 1

Requested By:

SOUTHERN WATER



The positions of pipes shown on this plan are believed to be correct, but Southern Water Services Ltd accept no responsibility in the event of inaccuracy. The actual positions should be determined on site.

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O.S. REF: SU94038E

Scale: 1:1250

Sewer Plot

WARNING: BAC pipes are constructed of Bonded Asbestos Cement

WARNING: Unknown (UNK) materials may include Bonded Asbestos Cement



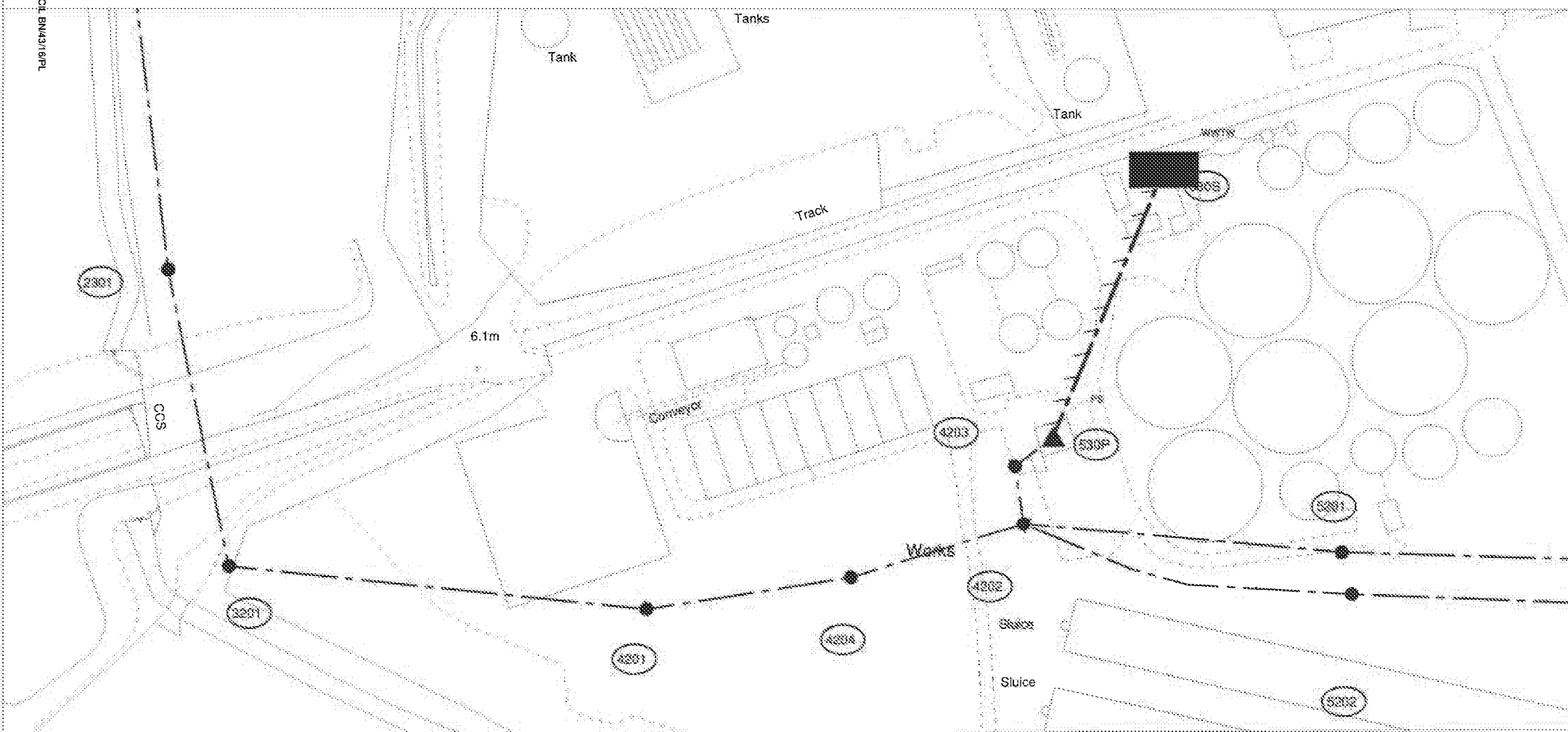
Printed By: Roopa

Date: 26-8-2014

Improvements 2

Requested By:

SOUTHERN WATER



The positions of pipes shown on this plan are believed to be correct, but Southern Water Services Ltd accept no responsibility in the event of inaccuracy. The actual positions should be determined on site.

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O.S. REF: SU9403SW

Scale: 1:1250

Sewer Plot

WARNING: RAC pipes are constructed of Bonded Asbestos Cement

WARNING: Unknown (UNK) materials may include Bonded Asbestos Cement



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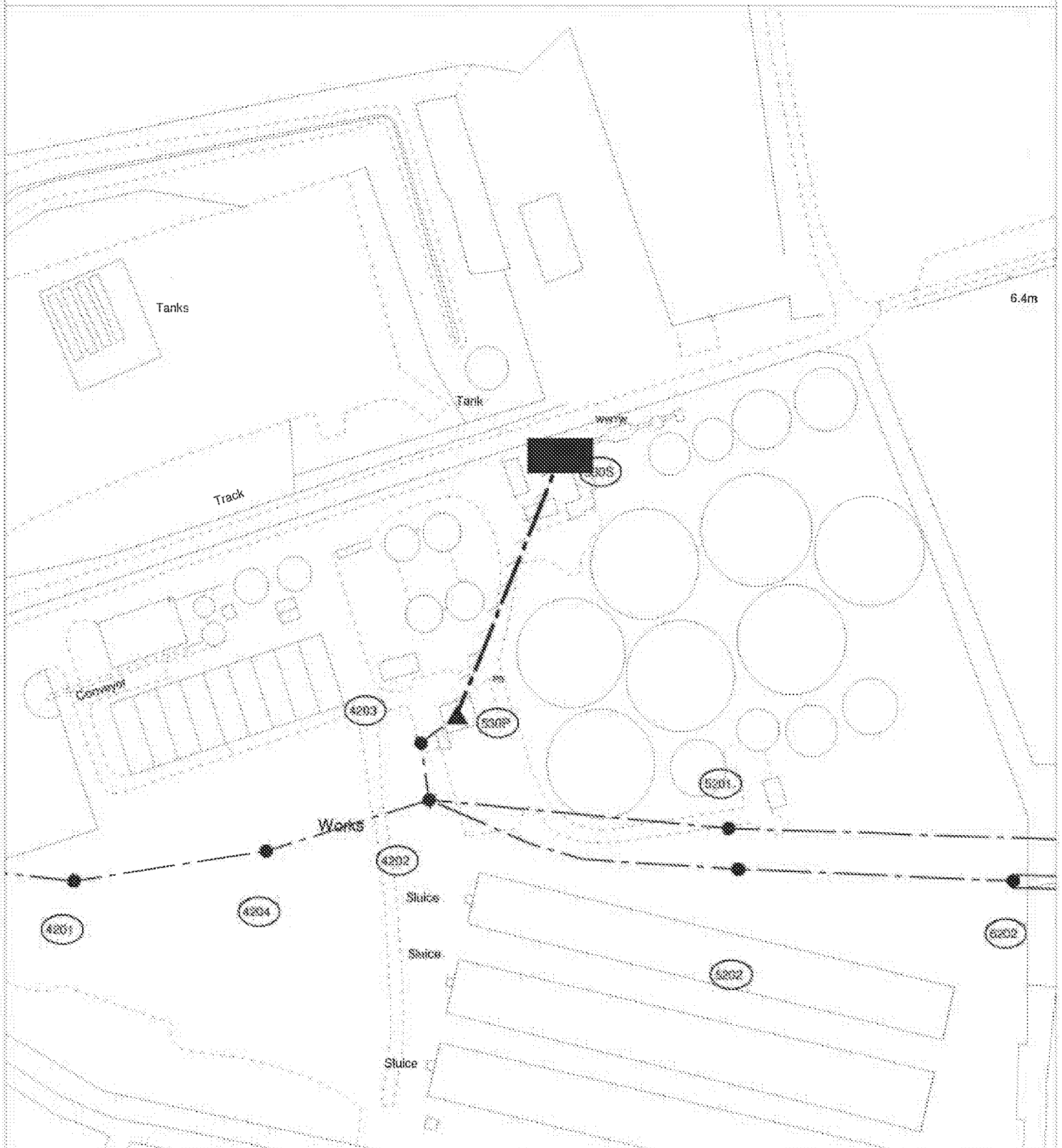
Date: 26-8-2014

Improvements 3

Requested By:



SOUTHERN WATER



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O.S. REF: SU9403SE

Scale: 1:1250

Sewer Plot

WARNING: BAC pipes are constructed of Bonded Asbestos Cement

WARNING: Work on (UNDER) manholes must include Bonded Asbestos Cement



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Date: 26-8-2014

Lidsey WTW

Requested By:

This is a detailed map of the area around the University of Cambridge, specifically focusing on the central part of the city. The map shows a network of streets, including Cambridge Road, St. John's Street, and others. Numerous buildings are depicted, many of which are labeled as belonging to colleges or departments of the university. A route is highlighted with a dashed line and numbered points from 1 to 10, indicating a path through the city center. Key landmarks like 'The Old Chapel' and 'St. John's College' are clearly marked. A scale bar at the bottom indicates distances up to 100 meters.

CS Ref: 00000000

