

United Utilities Inspection Sheet

Development Remedial Work

(Manholes and gravity sewers)



Site name:	Winnington Urban Village Phase 1	
Site address		
District Council:	Vale Royal	
United Utilities Notification number	42	00009141
United Utilities Order number	55	



Accurate 'as built' drawing received?	No
Development achieved 50% occupancy?	Yes
Type of remedial list:	Manhole and sewers remedial list

Adoptions Engineer:		Telephone:	
		Email:	
Developer:		Telephone:	
Contact name:		Email:	
Contractor:		Telephone:	
Contact name:		Email:	

Please note a final inspection cannot be completed until the development is completed and has a minimum of 50% occupancy. Where the status 'observation feedback during construction' is used, this is not the final inspection. Additional actions may arise upon completion of the final inspection.

MANHOLE REMEDIAL WORK				
MH reference:	Status:	No. formal inspections	Defect observed	Action(s)
F104	See action(s)		Manhole substandard	MH not built as per design. Brick built chamber too small to take the 300mm connection. This needs to be rebuilt with 1500mm PCC rings as per the approved design.
	See action(s)		Cover and frame to be lifted to finished road level	When lifting frame to finished road level, please consider that cover and frame should be D400 with 150mm deep frame (unless specified as otherwise, i.e. E600 for heavy traffic on approved drawing) and have a minimum of 1 course, maximum of 3 class B engineering bricks or pre-cast concrete raising pieces with mortar beds no thicker than 12mm. Please note the maximum distance to first step of 675mm must be achieved.
F105			Other (see comments)	Debris and obstruction to be removed.
F106	Passed - Actions listed confirmed as completed		Debris	Manhole to be cleaned out. Please clean to ensure that no debris remains on the benching and that all debris is removed from the channel.
F107	See action(s)		Obstruction evident within channel	Please ensure that the channel invert is in good alignment and is free from restriction.
F115	See action(s)		Debris	Manhole to be cleaned out. Please clean to ensure that no debris remains on the benching and that all debris is removed from the channel.
F115a	See action(s)		Debris	Manhole to be cleaned out. Please clean to ensure that no debris remains on the benching and that all debris is removed from the channel.
F116	Passed - Actions listed confirmed as completed		Other (see comments)	MH access and steps to be moved from above channel to give a suitable landing area.

	See action(s)		Debris	Manhole to be cleaned out. Please clean to ensure that no debris remains on the benching and that all debris is removed from the channel.
F117	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
F118	See action(s)		Debris	Manhole to be cleaned out. Please clean to ensure that no debris remains on the benching and that all debris is removed from the channel.
	Passed - Actions listed confirmed as completed		Cover slab out of alignment of step irons (slab to be repositioned to achieve approved detail)	Cover slab is out of alignment with the step irons within the manhole. In order to achieve the approved manhole detail and provide safe access arrangements the cover slab will need to be re-positioned accordingly.
	Passed - Actions listed confirmed as completed		Cover and frame damaged	Cover and frame to be replaced due to being damaged. Please ensure replacement is to the correct specification i.e. D400 cover and frame, 150mm deep, unless otherwise specified.
F118a	Passed - Actions listed confirmed as completed		Cover slab out of alignment of step irons (slab to be repositioned to achieve approved detail)	Cover slab is out of alignment with the step irons within the manhole. In order to achieve the approved manhole detail and provide safe access arrangements the cover slab will need to be re-positioned accordingly.
	See action(s)		Other (see comments)	Location of this MH to be confirmed on asbuilt drawing.
	See action(s)		Infiltration	Seal between coverslab and ring.
	Passed - Actions listed confirmed as completed		Cover and frame to be lifted to finished road level	When lifting frame to finished road level, please consider that cover and frame should be D400 with 150mm deep frame (unless specified as otherwise, i.e. E600 for heavy traffic on approved drawing) and have a minimum of 1 course, maximum of 3 class B engineering bricks or pre-cast concrete raising pieces with mortar beds no thicker than 12mm. Please note the maximum distance to first step of 675mm must be achieved.
F119	Passed - Actions listed confirmed as completed		Other (see comments)	600x600 Cover and frame required
	Passed - Actions listed confirmed as completed		Other (see comments)	Break down to coverslab and reset - to remove edging.
Conn	See action(s)		Ladder required	Ladder to be fitted onshortened brackets.
F121	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
F122	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
F123	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
F125	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
F129	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).

F131	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
F132	Passed - Actions listed confirmed as completed		Debris	Manhole to be cleaned out. Please clean to ensure that no debris remains on the benching and that all debris is removed from the channel.
	Passed - Actions listed confirmed as completed		Mortar between brickwork/ raising pieces is not flush	Please remove any excess mortar 'snots' and mortar point as appropriate to flush and seal joints.
	Passed - Actions listed confirmed as completed		Obstruction evident within channel	Please ensure that the channel invert is in good alignment and is free from restriction.
F133	Passed - Actions listed confirmed as completed		Cover slab out of alignment of step irons (slab to be repositioned to achieve approved detail)	Cover slab is out of alignment with the step irons within the manhole. In order to achieve the approved manhole detail and provide safe access arrangements the cover slab will need to be re-positioned accordingly.
	Passed - Actions listed confirmed as completed		Cover and frame unsuitable	Please install cover and frame to correct specification D400 cover and frame, 150mm deep, unless otherwise specified. Please note in certain scenarios a 750mm x 750mm is acceptable as per Standard Detail STND_01_13B. Please refer to the approved 1:20 detail.
	Passed - Actions listed confirmed as completed		Debris	Manhole to be cleaned out. Please clean to ensure that no debris remains on the benching and that all debris is removed from the channel.
			Other (see comments)	Bench out redundant tail.
F134	Passed - Actions listed confirmed as completed		Debris	Manhole to be cleaned out. Please clean to ensure that no debris remains on the benching and that all debris is removed from the channel.
	Passed - Actions listed confirmed as completed		Distance to first step outside of tolerance (max. distance 675mm)	Please raise the level of the cover slab and install new double rung step irons less than or equal to 675mm from ground level, permitting foot access (150mm approx. minimum) and installing new step irons below at the correct sequence.
F135	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
F136	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
F138	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
F143	See action(s)		Adjusting brickwork defective/ showing signs of deterioration	Manhole to be re-bed. When re-bedding please comply to UU asset standard as follows; Adjusting brickwork should be a minimum of 1 course, maximum of 3 class B engineering bricks or pre-cast concrete raising pieces, bedded on suitably strong mortar no thicker than 12mm between the manhole frame and top course of masonry. Please note maximum distance to first step of 675mm will need to be achieved.
F144	See action(s)		Cover and frame damaged	Cover and frame to be replaced due to being damaged. Please ensure replacement is to the correct specification i.e. D400 cover and frame, 150mm deep, unless otherwise specified.

	See action(s)		Adjusting brickwork defective/ showing signs of deterioration	Manhole to be re-bed. When re-bedding please comply to UU asset standard as follows; Adjusting brickwork should be a minimum of 1 course, maximum of 3 class B engineering bricks or pre-cast concrete raising pieces, bedded on suitably strong mortar no thicker than 12mm between the manhole frame and top course of masonry. Please note maximum distance to first step of 675mm will need to be achieved.
	See action(s)		Other (see comments)	Remove redundant channel.
F145	See action(s)		Adjusting brickwork defective/ showing signs of deterioration	Manhole to be re-bed. When re-bedding please comply to UU asset standard as follows; Adjusting brickwork should be a minimum of 1 course, maximum of 3 class B engineering bricks or pre-cast concrete raising pieces, bedded on suitably strong mortar no thicker than 12mm between the manhole frame and top course of masonry. Please note maximum distance to first step of 675mm will need to be achieved.
	See action(s)		Debris	Manhole to be cleaned out. Please clean to ensure that no debris remains on the benching and that all debris is removed from the channel.
F146	See action(s)		Adjusting brickwork defective/ showing signs of deterioration	Manhole to be re-bed. When re-bedding please comply to UU asset standard as follows; Adjusting brickwork should be a minimum of 1 course, maximum of 3 class B engineering bricks or pre-cast concrete raising pieces, bedded on suitably strong mortar no thicker than 12mm between the manhole frame and top course of masonry. Please note maximum distance to first step of 675mm will need to be achieved.
	See action(s)		Other (see comments)	Bench out redundant tail.
	See action(s)		Other (see comments)	Swept connection required.
F147	Passed - Actions listed confirmed as completed		Other (see comments)	Swept connection required.
	Passed - Actions listed confirmed as completed		Other (see comments)	Bench out redundant tail.
F148	Passed - Actions listed confirmed as completed		Debris	Manhole to be cleaned out. Please clean to ensure that no debris remains on the benching and that all debris is removed from the channel.
	Passed - Actions listed confirmed as completed		Obstruction evident within channel	Please ensure that the channel invert is in good alignment and is free from restriction.
	Passed - Actions listed confirmed as completed		Other (see comments)	Tidy man hole sealant
F149	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
F150	See action(s)		Debris	Manhole to be cleaned out. Please clean to ensure that no debris remains on the benching and that all debris is removed from the channel.
	Passed - Actions listed confirmed as completed		Obstruction evident within channel	Please ensure that the channel invert is in good alignment and is free from restriction.
	See action(s)		Cover and frame damaged	Cover and frame to be replaced due to being damaged. Please ensure replacement is to the correct specification i.e. D400 cover and frame, 150mm deep, unless otherwise specified.

	Passed - Actions listed confirmed as completed		Other (see comments)	Swept connection required.
F150a	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
	Observation feedback during construction phase		Other (see comments)	Location of this MH to be confirmed on asbuilt drawing.
F151	Passed - Actions listed confirmed as completed		Debris	Manhole to be cleaned out. Please clean to ensure that no debris remains on the benching and that all debris is removed from the channel.
F153	Passed - Actions listed confirmed as completed		Debris	Manhole to be cleaned out. Please clean to ensure that no debris remains on the benching and that all debris is removed from the channel.
	Passed - Actions listed confirmed as completed		Adjusting brickwork defective/ showing signs of deterioration	Manhole to be re-bed. When re-bedding please comply to UU asset standard as follows; Adjusting brickwork should be a minimum of 1 course, maximum of 3 class B engineering bricks or pre-cast concrete raising pieces, bedded on suitably strong mortar no thicker than 12mm between the manhole frame and top course of masonry. Please note maximum distance to first step of 675mm will need to be achieved.
F154	Passed - Actions listed confirmed as completed		Obstruction evident within channel	Please ensure that the channel invert is in good alignment and is free from restriction.
	Passed - Actions listed confirmed as completed		Other (see comments)	Cover slab to be replaced with correct opening size.
F155	Passed - Actions listed confirmed as completed		Cover slab defective	Cover slab to be replaced.
	Passed - Actions listed confirmed as completed		Cover and frame damaged	Cover and frame to be replaced due to being damaged. Please ensure replacement is to the correct specification i.e. D400 cover and frame, 150mm deep, unless otherwise specified.
F156	Passed - Actions listed confirmed as completed		Obstruction evident within channel	Please ensure that the channel invert is in good alignment and is free from restriction.
F157	Passed - Actions listed confirmed as completed		Cover slab defective	Cover slab to be replaced.
	Passed - Actions listed confirmed as completed		Obstruction evident within channel	Please ensure that the channel invert is in good alignment and is free from restriction.
F158	See action(s)		Other (see comments)	Relocate steps & break benching out.
F159	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
F160	Passed - Actions listed confirmed as completed		Channel defective	Lateral connections to connect to the main channel as half channels, swept with the direction of flow (at soffit level).
	See action(s)		Double step rungs missing	Please install missing step rung(s) within the manhole.
	See action(s)		Other (see comments)	Bench out redundant tail.
	Passed - Actions listed confirmed as completed		Adjusting brickwork defective/ showing signs of deterioration	Break down to coverslab.
F161	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).

F162	Passed - Actions listed confirmed as completed		Channel defective	Lateral connections to connect to the main channel as half channels, swept with the direction of flow (at soffit level).
F163	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
F164	Passed - Actions listed confirmed as completed		Other (see comments)	Cover slab to be replaced with correct opening size.
	Passed - Actions listed confirmed as completed		Cover and frame to be lifted to finished road level	When lifting frame to finished road level, please consider that cover and frame should be D400 with 150mm deep frame (unless specified as otherwise, i.e. E600 for heavy traffic on approved drawing) and have a minimum of 1 course, maximum of 3 class B engineering bricks or pre-cast concrete raising pieces with mortar beds no thicker than 12mm. Please note the maximum distance to first step of 675mm must be achieved.
F165	Passed - Actions listed confirmed as completed		Cover slab (minor damage)	Please use an epoxy resin to repair area of minor damage.
	Passed - Actions listed confirmed as completed		Other (see comments)	600x600 Cover and frame required
	Passed - Actions listed confirmed as completed		Manhole rings not sealed	Please mortar point as appropriate.
F166	Passed - Actions listed confirmed as completed		Debris	Manhole to be cleaned out. Please clean to ensure that no debris remains on the benching and that all debris is removed from the channel.
	Passed - Actions listed confirmed as completed		Obstruction evident within channel	Please ensure that the channel invert is in good alignment and is free from restriction.
	Passed - Actions listed confirmed as completed		Manhole rings not sealed	Please mortar point as appropriate.
F176	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
F178	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
F179	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
F180	See action(s)		Adjusting brickwork defective/ showing signs of deterioration	Manhole to be re-bed. When re-bedding please comply to UU asset standard as follows; Adjusting brickwork should be a minimum of 1 course, maximum of 3 class B engineering bricks or pre-cast concrete raising pieces, bedded on suitably strong mortar no thicker than 12mm between the manhole frame and top course of masonry. Please note maximum distance to first step of 675mm will need to be achieved.
F181	See action(s)		Mortar bed excessive and outside of tolerance (greater than 12mm)	Please re-bed adjusting brickwork/ raising pieces to reduce the bed joint thickness to 12mm or less.

	See action(s)		Debris	Manhole to be cleaned out. Please clean to ensure that no debris remains on the benching and that all debris is removed from the channel.
F182	See action(s)		Cover and frame positioned incorrectly	Please adjust position of the cover and frame to ensure it is square over the cover slab opening.
	See action(s)		Debris	Manhole to be cleaned out. Please clean to ensure that no debris remains on the benching and that all debris is removed from the channel.
F183	See action(s)		Debris	Manhole to be cleaned out. Please clean to ensure that no debris remains on the benching and that all debris is removed from the channel.
	See action(s)		Other (see comments)	Tidy raising and point.
F184	See action(s)		Adjusting brickwork defective/ showing signs of deterioration	Manhole to be re-bed. When re-bedding please comply to UU asset standard as follows; Adjusting brickwork should be a minimum of 1 course, maximum of 3 class B engineering bricks or pre-cast concrete raising pieces, bedded on suitably strong mortar no thicker than 12mm between the manhole frame and top course of masonry. Please note maximum distance to first step of 675mm will need to be achieved.
	See action(s)		Other (see comments)	Step irons to be removed.
F185	See action(s)		Unsuitable manhole opening type (double opener required)	Please install double opener, 675mm x 1200mm Manhole depth to benching is less than 1.5m and will therefore require a double opener. Cover and frame should be D400 with 150mm deep frame (unless specified as otherwise, i.e. E600 for heavy traffic on approved drawing(s))
	See action(s)		Distance to first step outside of tolerance (max. distance 675mm)	Please raise the level of the cover slab and install new double rung step irons less than or equal to 675mm from ground level, permitting foot access (150mm approx. minimum) and installing new step irons below at the correct sequence.
Conn	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
F190	See action(s)		Cover and frame to be lifted to finished road level	When lifting frame to finished road level, please consider that cover and frame should be D400 with 150mm deep frame (unless specified as otherwise, i.e. E600 for heavy traffic on approved drawing) and have a minimum of 1 course, maximum of 3 class B engineering bricks or pre-cast concrete raising pieces with mortar beds no thicker than 12mm. Please note the maximum distance to first step of 675mm must be achieved.
	See action(s)		Adjusting brickwork defective/ showing signs of deterioration	Manhole to be re-bed. When re-bedding please comply to UU asset standard as follows; Adjusting brickwork should be a minimum of 1 course, maximum of 3 class B engineering bricks or pre-cast concrete raising pieces, bedded on suitably strong mortar no thicker than 12mm between the manhole frame and top course of masonry. Please note maximum distance to first step of 675mm will need to be achieved.
	See action(s)		Benching defective	Please repair as appropriate to make good area of defective benching.
	See action(s)		Other (see comments)	Bench out redundant rising main connection.
S38	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
S39	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).

S40	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
S41	Passed - Actions listed confirmed as completed		Unable to inspect	MH buried.
S42	Passed - Actions listed confirmed as completed		Cover and frame unsuitable	Please install cover and frame to correct specification D400 cover and frame, 150mm deep, unless otherwise specified. Please note in certain scenarios a 750mm x 750mm is acceptable as per Standard Detail STND_01_13B. Please refer to the approved 1:20 detail.
	See action(s)		Infiltration	Please seal area of infiltration through identifying the cause and stopping the flow.
	See action(s)		Channel defective	Seal joint in channel.
S49	Passed - Actions listed confirmed as completed		Cover and frame unsuitable	Please install cover and frame to correct specification D400 cover and frame, 150mm deep, unless otherwise specified. Please note in certain scenarios a 750mm x 750mm is acceptable as per Standard Detail STND_01_13B. Please refer to the approved 1:20 detail.
S52	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
S53	Passed - Actions listed confirmed as completed		Other (see comments)	Recess 150x500 to be made in benching and steps to be installed to access channel.
S54	Passed - Actions listed confirmed as completed		Other (see comments)	Recess 150x500 to be made in benching and steps to be installed to access channel.
S55	Passed - Actions listed confirmed as completed		Other (see comments)	Benching to be boxed out and flush to rings. Steps to then be re-drilled.
S56	See action(s)		Cover and frame to be lifted to finished road level	When lifting frame to finished road level, please consider that cover and frame should be D400 with 150mm deep frame (unless specified as otherwise, i.e. E600 for heavy traffic on approved drawing) and have a minimum of 1 course, maximum of 3 class B engineering bricks or pre-cast concrete raising pieces with mortar beds no thicker than 12mm. Please note the maximum distance to first step of 675mm must be achieved.
	Passed - Actions listed confirmed as completed		Ladder required	Ladder required as depth to benching greater than 3m. Step irons to be removed and a ladder is to be installed as per UU standard detail number STND/01/002. Please note if you wish to install a GRP ladder, this will need to be technically approved with the Adoptions Engineer. Contact details can be found at the top of this form.
S57	Passed - Actions listed confirmed as completed		Ladder required	Ladder required as depth to benching greater than 3m. Step irons to be removed and a ladder is to be installed as per UU standard detail number STND/01/002. Please note if you wish to install a GRP ladder, this will need to be technically approved with the Adoptions Engineer. Contact details can be found at the top of this form.

	See action(s)		Cover and frame to be lifted to finished road level	When lifting frame to finished road level, please consider that cover and frame should be D400 with 150mm deep frame (unless specified as otherwise, i.e. E600 for heavy traffic on approved drawing) and have a minimum of 1 course, maximum of 3 class B engineering bricks or pre-cast concrete raising pieces with mortar beds no thicker than 12mm. Please note the maximum distance to first step of 675mm must be achieved.
	See action(s)		Adjusting brickwork defective/ showing signs of deterioration	Manhole to be re-bed. When re-bedding please comply to UU asset standard as follows; Adjusting brickwork should be a minimum of 1 course, maximum of 3 class B engineering bricks or pre-cast concrete raising pieces, bedded on suitably strong mortar no thicker than 12mm between the manhole frame and top course of masonry. Please note maximum distance to first step of 675mm will need to be achieved.
S58	See action(s)		Cover and frame to be lifted to finished road level	When lifting frame to finished road level, please consider that cover and frame should be D400 with 150mm deep frame (unless specified as otherwise, i.e. E600 for heavy traffic on approved drawing) and have a minimum of 1 course, maximum of 3 class B engineering bricks or pre-cast concrete raising pieces with mortar beds no thicker than 12mm. Please note the maximum distance to first step of 675mm must be achieved.
	See action(s)		Adjusting brickwork defective/ showing signs of deterioration	Manhole to be re-bed. When re-bedding please comply to UU asset standard as follows; Adjusting brickwork should be a minimum of 1 course, maximum of 3 class B engineering bricks or pre-cast concrete raising pieces, bedded on suitably strong mortar no thicker than 12mm between the manhole frame and top course of masonry. Please note maximum distance to first step of 675mm will need to be achieved.
	Passed - Actions listed confirmed as completed		Ladder required	Ladder required as depth to benching greater than 3m. Step irons to be removed and a ladder is to be installed as per UU standard detail number STND/01/002. Please note if you wish to install a GRP ladder, this will need to be technically approved with the Adoptions Engineer. Contact details can be found at the top of this form.
S59	See action(s)		Cover and frame to be lifted to finished road level	When lifting frame to finished road level, please consider that cover and frame should be D400 with 150mm deep frame (unless specified as otherwise, i.e. E600 for heavy traffic on approved drawing) and have a minimum of 1 course, maximum of 3 class B engineering bricks or pre-cast concrete raising pieces with mortar beds no thicker than 12mm. Please note the maximum distance to first step of 675mm must be achieved.
	See action(s)		Adjusting brickwork defective/ showing signs of deterioration	Manhole to be re-bed. When re-bedding please comply to UU asset standard as follows; Adjusting brickwork should be a minimum of 1 course, maximum of 3 class B engineering bricks or pre-cast concrete raising pieces, bedded on suitably strong mortar no thicker than 12mm between the manhole frame and top course of masonry. Please note maximum distance to first step of 675mm will need to be achieved.
	See action(s)		Other (see comments)	Repair handrailing.
S81	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).

S82	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
S83	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
S84	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
S85	See action(s)		Cover and frame damaged	Cover and frame to be replaced due to being damaged. Please ensure replacement is to the correct specification i.e. D400 cover and frame, 150mm deep, unless otherwise specified.
	See action(s)		Adjusting brickwork defective/ showing signs of deterioration	Manhole to be re-bed. When re-bedding please comply to UU asset standard as follows; Adjusting brickwork should be a minimum of 1 course, maximum of 3 class B engineering bricks or pre-cast concrete raising pieces, bedded on suitably strong mortar no thicker than 12mm between the manhole frame and top course of masonry. Please note maximum distance to first step of 675mm will need to be achieved.
S86	Passed - Actions listed confirmed as completed		Other (see comments)	Incorrect cover slab opening size - slab to be replaced.
	See action(s)		Debris	Manhole to be cleaned out. Please clean to ensure that no debris remains on the benching and that all debris is removed from the channel.
	See action(s)		Ladder required	Ladder required as depth to benching greater than 3m. Step irons to be removed and a ladder is to be installed as per UU standard detail number STND/01/002. Please note if you wish to install a GRP ladder, this will need to be technically approved with the Adoptions Engineer. Contact details can be found at the top of this form.
S87	Passed - Actions listed confirmed as completed		Bolts missing from manhole cover	Please install the missing bolts to the manhole cover.
	See action(s)		Debris	Manhole to be cleaned out. Please clean to ensure that no debris remains on the benching and that all debris is removed from the channel.
S88	Passed - Actions listed confirmed as completed		Unable to inspect	MH surcharged.
S89	See action(s)		Adjusting brickwork defective/ showing signs of deterioration	Manhole to be re-bed. When re-bedding please comply to UU asset standard as follows; Adjusting brickwork should be a minimum of 1 course, maximum of 3 class B engineering bricks or pre-cast concrete raising pieces, bedded on suitably strong mortar no thicker than 12mm between the manhole frame and top course of masonry. Please note maximum distance to first step of 675mm will need to be achieved.
	See action(s)		Cover and frame damaged	Cover and frame to be replaced due to being damaged. Please ensure replacement is to the correct specification i.e. D400 cover and frame, 150mm deep, unless otherwise specified.

				Manhole to be cleaned out. Please clean to ensure that no debris remains on the benching and that all debris is removed from the channel.
	See action(s)		Debris	
S90	Passed - Actions listed confirmed as completed		Unable to inspect	MH surcharged.
	See action(s)		Mortar between brickwork/ raising pieces is not flush	Please remove any excess mortar 'snots' and mortar point as appropriate to flush and seal joints.
S91	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
S92	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
S93	Passed - Actions listed confirmed as completed		Other (see comments)	Incorrect cover slab opening size - slab to be replaced.
	See action(s)		Ladder required	Ladder required as depth to benching greater than 3m. Step irons to be removed and a ladder is to be installed as per UU standard detail number STND/01/002. Please note if you wish to install a GRP ladder, this will need to be technically approved with the Adoptions Engineer. Contact details can be found at the top of this form.
	See action(s)		Infiltration	Please seal area of infiltration through identifying the cause and stopping the flow.
S94	See action(s)		Ladder required	Ladder required as depth to benching greater than 3m. Step irons to be removed and a ladder is to be installed as per UU standard detail number STND/01/002. Please note if you wish to install a GRP ladder, this will need to be technically approved with the Adoptions Engineer. Contact details can be found at the top of this form.
	Passed - Actions listed confirmed as completed		Other (see comments)	Incorrect cover slab opening size - slab to be replaced.
	See action(s)		Other (see comments)	High level connection to be cut back.
			Landing space inadequate	Square benching to create larger landing.
			Infiltration	
S95	Passed - Actions listed confirmed as completed		Other (see comments)	Incorrect cover slab opening size - slab to be replaced.
S96	Passed - Actions listed confirmed as completed		Ladder required	Ladder required as depth to benching greater than 3m. Step irons to be removed and a ladder is to be installed as per UU standard detail number STND/01/002. Please note if you wish to install a GRP ladder, this will need to be technically approved with the Adoptions Engineer. Contact details can be found at the top of this form.
	Passed - Actions listed confirmed as completed		Other (see comments)	Incorrect cover slab opening size - slab to be replaced.
			Benching defective	
			Manhole ring defective	
			Infiltration	
S97	Passed - Actions listed confirmed as completed		Other (see comments)	Incorrect cover slab opening size - slab to be replaced.
	See action(s)		Distance to first step outside of tolerance (max. distance 675mm)	Please raise the level of the cover slab and install new double rung step irons less than or equal to 675mm from ground level, permitting foot access (150mm approx. minimum) and installing new step irons below at the correct sequence.

S101	See action(s)		Distance to first step outside of tolerance (max. distance 675mm)	Please raise the level of the cover slab and install new double rung step irons less than or equal to 675mm from ground level, permitting foot access (150mm approx. minimum) and installing new step irons below at the correct sequence.
	See action(s)		Debris	Manhole to be cleaned out. Please clean to ensure that no debris remains on the benching and that all debris is removed from the channel.
	See action(s)		Lifting eyes not sealed	Please mortar point as appropriate.
	See action(s)		Ladder required	Ladder required as depth to benching greater than 3m. Step irons to be removed and a ladder is to be installed as per UU standard detail number STND/01/002. Please note if you wish to install a GRP ladder, this will need to be technically approved with the Adoptions Engineer. Contact details can be found at the top of this form.
	See action(s)		Infiltration	Please seal area of infiltration through identifying the cause and stopping the flow.
S105	Passed - Actions listed confirmed as completed		Other (see comments)	Incorrect cover slab opening size - slab to be replaced.
	See action(s)		Lifting eyes not sealed	Please mortar point as appropriate.
	See action(s)		Ladder required	Ladder required as depth to benching greater than 3m. Step irons to be removed and a ladder is to be installed as per UU standard detail number STND/01/002. Please note if you wish to install a GRP ladder, this will need to be technically approved with the Adoptions Engineer. Contact details can be found at the top of this form.
	See action(s)		Infiltration	Please seal area of infiltration through identifying the cause and stopping the flow.
S106	See action(s)		Other (see comments)	Repair handrailing.
	See action(s)		Cover and frame to be lifted to finished road level	When lifting frame to finished road level, please consider that cover and frame should be D400 with 150mm deep frame (unless specified as otherwise, i.e. E600 for heavy traffic on approved drawing) and have a minimum of 1 course, maximum of 3 class B engineering bricks or pre-cast concrete raising pieces with mortar beds no thicker than 12mm. Please note the maximum distance to first step of 675mm must be achieved.
	See action(s)		Adjusting brickwork defective/ showing signs of deterioration	Manhole to be re-bed. When re-bedding please comply to UU asset standard as follows; Adjusting brickwork should be a minimum of 1 course, maximum of 3 class B engineering bricks or pre-cast concrete raising pieces, bedded on suitably strong mortar no thicker than 12mm between the manhole frame and top course of masonry. Please note maximum distance to first step of 675mm will need to be achieved.
S107	See action(s)		Top step inaccessible	Top double rung step to be lowered, and other step rungs to be adjusted with correct spacing leading down to manhole benching, in alignment with the cover slab opening.
S108	Passed - Actions listed confirmed as completed		Other (see comments)	Cover slab to be replaced with correct opening size.

	Passed - Actions listed confirmed as completed		Ladder required	Ladder required as depth to benching greater than 3m. Step irons to be removed and a ladder is to be installed as per UU standard detail number STND/01/002. Please note if you wish to install a GRP ladder, this will need to be technically approved with the Adoptions Engineer. Contact details can be found at the top of this form.
	See action(s)		Other (see comments)	Repair handrailing.
S109	Passed - Actions listed confirmed as completed		Top step inaccessible	Top double rung step to be lowered, and other step rungs to be adjusted with correct spacing leading down to manhole benching, in alignment with the cover slab opening.
	See action(s)		Infiltration	Please seal area of infiltration through identifying the cause and stopping the flow.
	See action(s)		Debris	Manhole to be cleaned out. Please clean to ensure that no debris remains on the benching and that all debris is removed from the channel.
S114	See action(s)		Other (see comments)	Cover slab to be replaced with correct opening size.
S115	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
S116	Passed - Actions listed confirmed as completed		Top step inaccessible	Top double rung step to be lowered, and other step rungs to be adjusted with correct spacing leading down to manhole benching, in alignment with the cover slab opening.
	Passed - Actions listed confirmed as completed		Debris	Manhole to be cleaned out. Please clean to ensure that no debris remains on the benching and that all debris is removed from the channel.
S117	Passed - Actions listed confirmed as completed		Debris	Manhole to be cleaned out. Please clean to ensure that no debris remains on the benching and that all debris is removed from the channel.
	Passed - Actions listed confirmed as completed		Top step inaccessible	Top double rung step to be lowered, and other step rungs to be adjusted with correct spacing leading down to manhole benching, in alignment with the cover slab opening.
	See action(s)		Other (see comments)	Larger brackets for ladder required.
S119	Passed - Actions listed confirmed as completed		Mortar between brickwork/ raising pieces is not flush	Please remove any excess mortar 'snots' and mortar point as appropriate to flush and seal joints.
S120	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
S123	Passed - Actions listed confirmed as completed		Infiltration	Please seal area of infiltration through identifying the cause and stopping the flow.
S125	Passed - Actions listed confirmed as completed		Benching to be re-configured due to insufficient landing area	Please re-configure manhole to achieve benching detail on the agreed manhole schedule as there is an insufficient landing area. Please note benching should be built up with a 1:10 - 1:30 gradient.
	Passed - Actions listed confirmed as completed		Debris	Manhole to be cleaned out. Please clean to ensure that no debris remains on the benching and that all debris is removed from the channel.
	Passed - Actions listed confirmed as completed		Safety chain required on outlet pipe	Where pipe diameter is 525mm or greater, a safety chain is required. Please install the safety chain arrangement to the manhole outlet (with eyelets side adjacent to manhole access). Normal operation position, the chain position should be parked at the fixed end (to one side) out of the flow.

S132	Passed - Actions listed confirmed as completed		Ladder required	Ladder required as depth to benching greater than 3m. Step irons to be removed and a ladder is to be installed as per UU standard detail number STND/01/002. Please note if you wish to install a GRP ladder, this will need to be technically approved with the Adoptions Engineer. Contact details can be found at the top of this form.
	Passed - Actions listed confirmed as completed		Other (see comments)	Cover slab to be replaced with correct opening size.
S133	Passed - Actions listed confirmed as completed		Cover and frame damaged	Cover and frame to be replaced due to being damaged. Please ensure replacement is to the correct specification i.e. D400 cover and frame, 150mm deep, unless otherwise specified.
	Passed - Actions listed confirmed as completed		Top step inaccessible	Top double rung step to be lowered, and other step rungs to be adjusted with correct spacing leading down to manhole benching, in alignment with the cover slab opening.
S134	See action(s)		Infiltration	Please seal area of infiltration through identifying the cause and stopping the flow.
S135	Passed - Actions listed confirmed as completed		Infiltration	Please seal area of infiltration through identifying the cause and stopping the flow.
S136	Passed - Actions listed confirmed as completed		Debris	Manhole to be cleaned out. Please clean to ensure that no debris remains on the benching and that all debris is removed from the channel.
S137	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
S138	See action(s)		Cover slab defective	Cover slab to be replaced.
S139	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
S140	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
S141	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
S142	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
S144	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
S145	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
	Passed - Actions listed confirmed as completed		Other (see comments)	Lift and check - benching looks poor on CCTV
S147	See action(s)		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
	See action(s)		Other (see comments)	Check for potential infiltration.

S148	See action(s)	Adjusting brickwork defective/ showing signs of deterioration	Manhole to be re-bed. When re-bedding please comply to UU asset standard as follows; Adjusting brickwork should be a minimum of 1 course, maximum of 3 class B engineering bricks or pre-cast concrete raising pieces, bedded on suitably strong mortar no thicker than 12mm between the manhole frame and top course of masonry. Please note maximum distance to first step of 675mm will need to be achieved.
	See action(s)	Benching defective	Remove ponding by steps.
S149	See action(s)	Unable to inspect	Unable to lift cover.
S151	Passed	None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
S152	Passed - Actions listed confirmed as completed	Debris	Manhole to be cleaned out. Please clean to ensure that no debris remains on the benching and that all debris is removed from the channel.
	Passed - Actions listed confirmed as completed	Mortar between brickwork/ raising pieces is not flush	Please remove any excess mortar 'snots' and mortar point as appropriate to flush and seal joints.
S154	Passed	None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
S155	Passed	None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
S157	Passed	None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
S158	See action(s)	Cover and frame unsuitable	Please install cover and frame to correct specification D400 cover and frame, 150mm deep, unless otherwise specified. Please note in certain scenarios a 750mm x 750mm is acceptable as per Standard Detail STND_01_13B. Please refer to the approved 1:20 detail.
	See action(s)	Adjusting brickwork defective/ showing signs of deterioration	Manhole to be re-bed. When re-bedding please comply to UU asset standard as follows; Adjusting brickwork should be a minimum of 1 course, maximum of 3 class B engineering bricks or pre-cast concrete raising pieces, bedded on suitably strong mortar no thicker than 12mm between the manhole frame and top course of masonry. Please note maximum distance to first step of 675mm will need to be achieved.
S161	See action(s)	Mortar bed excessive and outside of tolerance (greater than 12mm)	Please re-bed adjusting brickwork/ raising pieces to reduce the bed joint thickness to 12mm or less.
	See action(s)	Other (see comments)	Point and seal high level connection.
S162	See action(s)	Adjusting brickwork defective/ showing signs of deterioration	Manhole to be re-bed. When re-bedding please comply to UU asset standard as follows; Adjusting brickwork should be a minimum of 1 course, maximum of 3 class B engineering bricks or pre-cast concrete raising pieces, bedded on suitably strong mortar no thicker than 12mm between the manhole frame and top course of masonry. Please note maximum distance to first step of 675mm will need to be achieved.

S163	See action(s)		Cover and frame damaged	Cover and frame to be replaced due to being damaged. Please ensure replacement is to the correct specification i.e. D400 cover and frame, 150mm deep, unless otherwise specified.
	See action(s)		Infiltration	Please seal area of infiltration through identifying the cause and stopping the flow.
S164	See action(s)		Adjusting brickwork defective/ showing signs of deterioration	Manhole to be re-bed. When re-bedding please comply to UU asset standard as follows; Adjusting brickwork should be a minimum of 1 course, maximum of 3 class B engineering bricks or pre-cast concrete raising pieces, bedded on suitably strong mortar no thicker than 12mm between the manhole frame and top course of masonry. Please note maximum distance to first step of 675mm will need to be achieved.
	See action(s)		Infiltration	Please seal area of infiltration through identifying the cause and stopping the flow.
	See action(s)		Cover and frame unsuitable	600x600mm required.
S165	See action(s)		Cover and frame unsuitable	Please install cover and frame to correct specification D400 cover and frame, 150mm deep, unless otherwise specified. Please note in certain scenarios a 750mm x 750mm is acceptable as per Standard Detail STND_01_13B. Please refer to the approved 1:20 detail.
	See action(s)		Adjusting brickwork defective/ showing signs of deterioration	Manhole to be re-bed. When re-bedding please comply to UU asset standard as follows; Adjusting brickwork should be a minimum of 1 course, maximum of 3 class B engineering bricks or pre-cast concrete raising pieces, bedded on suitably strong mortar no thicker than 12mm between the manhole frame and top course of masonry. Please note maximum distance to first step of 675mm will need to be achieved.
	See action(s)		Other (see comments)	AMP platform channels.
	See action(s)		Other (see comments)	Seal high level connection.
S166	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
S167	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
S168	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
S169	Passed - Actions listed confirmed as completed		Debris	Manhole to be cleaned out. Please clean to ensure that no debris remains on the benching and that all debris is removed from the channel.
	Passed - Actions listed confirmed as completed		Top step inaccessible	Top double rung step to be lowered, and other step rungs to be adjusted with correct spacing leading down to manhole benching, in alignment with the cover slab opening.
	Passed - Actions listed confirmed as completed		Other (see comments)	Point up high level connection.
S170	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
S171	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).

S172	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
S173	Passed		None. Passed	None (further inspection will be carried out to assess condition upon completion of the 12 month maintenance period).
S174	Passed - Actions listed confirmed as completed		Other (see comments)	Chains on handrails required.
	See action(s)		Other (see comments)	Break down to coverslab and reset.
	Passed - Actions listed confirmed as completed		Top step inaccessible	Top double rung step to be lowered, and other step rungs to be adjusted with correct spacing leading down to manhole benching, in alignment with the cover slab opening.
S175	Passed - Actions listed confirmed as completed		Infiltration	Please seal area of infiltration through identifying the cause and stopping the flow.
S176	Passed - Actions listed confirmed as completed		Debris	Manhole to be cleaned out. Please clean to ensure that no debris remains on the benching and that all debris is removed from the channel.
	Passed - Actions listed confirmed as completed		Mortar between brickwork/ raising pieces is not flush	Please remove any excess mortar 'snots' and mortar point as appropriate to flush and seal joints.
S177	Passed - Actions listed confirmed as completed		Debris	Manhole to be cleaned out. Please clean to ensure that no debris remains on the benching and that all debris is removed from the channel.
	Passed - Actions listed confirmed as completed		Other (see comments)	Chains on handrails required.
S177A	Passed - Actions listed confirmed as completed		Debris	Manhole to be cleaned out. Please clean to ensure that no debris remains on the benching and that all debris is removed from the channel.
	Passed - Actions listed confirmed as completed		Mortar between brickwork/ raising pieces is not flush	Please remove any excess mortar 'snots' and mortar point as appropriate to flush and seal joints.
S177B	Passed - Actions listed confirmed as completed		Debris	Manhole to be cleaned out. Please clean to ensure that no debris remains on the benching and that all debris is removed from the channel.
	Passed - Actions listed confirmed as completed		Obstruction evident within channel	Please ensure that the channel invert is in good alignment and is free from restriction.
S178				
S179	See action(s)		Infiltration	Please seal area of infiltration through identifying the cause and stopping the flow.
S180				
S182	See action(s)		Cover and frame to be lifted to finished road level	When lifting frame to finished road level, please consider that cover and frame should be D400 with 150mm deep frame (unless specified as otherwise, i.e. E600 for heavy traffic on approved drawing) and have a minimum of 1 course, maximum of 3 class B engineering bricks or pre-cast concrete raising pieces with mortar beds no thicker than 12mm. Please note the maximum distance to first step of 675mm must be achieved.
	See action(s)		Mortar bed excessive and outside of tolerance (greater than 12mm)	Please re-bed adjusting brickwork/ raising pieces to reduce the bed joint thickness to 12mm or less.

	See action(s)		Safety chain required on outlet pipe	Where pipe diameter is 525mm or greater, a safety chain is required. Please install the safety chain arrangement to the manhole outlet (with eyelets side adjacent to manhole access). Normal operation position, the chain position should be parked at the fixed end (to one side) out of the flow.
OUTFALL				
EXGA				
SD1				
SD2				
SD3				
SD4	See action(s)		Mortar bed excessive and outside of tolerance (greater than 12mm)	Please re-bed adjusting brickwork/ raising pieces to reduce the bed joint thickness to 12mm or less.
	See action(s)		Positioning of cover slab incorrect	Please adjust the position of the cover slab so that it reflects the arrangement shown on the approved 1:20 manhole detail.
	See action(s)		Other (see comments)	Incorrect cover size, opening in cover slab appears to be 600x600mm. Cover and frame (and raising above) should suit this opening size.
	See action(s)		Other (see comments)	Position the ladder (and possibly) AMP platform to suit opening.
SD5				
SD6				

SEWER REMEDIAL WORK				
MH to MH length	Status	Approx. meterage	Defect observed	Action(s)
F104-F105	Passed			
F105-F106	Passed			
F106-F107	See action(s)	0-10m	Other (see comments)	Flows holding, is this because downstream had not yet been cleaned or back fall at this point?
F107-F115	Passed			
F115-F115A	See action(s)		Other (see comments)	F115A doesn't exist on the approved drawings. Revised drawing required.
F115A-F116	Passed			
F116-F117	See action(s)		Coarse settled deposits	Sewer length to be cleaned and post cleaning CCTV survey to be provided to determine whether or not there is any further remedial work required.
F117-F118	See action(s)		Other (see comments)	Footage not clear.
F118-F119	See action(s)	12m	Other (see comments)	Footage skips and significant change in flows. Re CCTV.
	See action(s)	14m	Back fall observed within line of sewer	Please confirm levels within the upstream and downstream manhole and confirm gradient/ fall of sewer is as approved on the longitudinal section. Developer to confirm section to be re-layed and post-repair CCTV to be provided.
F119-Conn	Passed			
F121-F122	Passed			
F122-F123	Passed			
F123-F125	Passed			
F125-F129	See action(s)			
F129-F131	See action(s)	16m	Obstruction within pipe	Sewer length to be cleaned and post cleaning CCTV survey to be provided to determine whether or not there is any further remedial work required.
F131-F132	Passed			
F132-F135	Passed			
F133-F134	Passed			

F134-F135	Passed			
F135-F136	Passed			
F136-F138	Passed			
F138-F147	Passed			
F144-F145				
F146-F145				
F145-F143				
F143-F181				
F147-F148	Passed			
F148-F155	Passed			
F149-F150	See action(s)	18m	Displaced joint, out of tolerance	Affected section of the pipe to be replaced and post repair CCTV survey to be provided.
	See action(s)	33m	Back fall observed within line of sewer	Please confirm levels within the upstream and downstream manhole and confirm gradient/ fall of sewer is as approved on the longitudinal section. Developer to confirm section to be re-layed and post-repair CCTV to be provided.
F150-F151	Passed			
F151-F155	Passed			
F153-F154	Passed			
F154-F155	Passed			
F155-F156	Passed			
F156-F157	Passed			
F157-F158	Passed			
F158-F159	Passed			
F159-F165	Passed			
F160-F161	Passed			
F161-F162	Passed			
F162-F118	Passed			
F163-F164	Passed			
F164-F159	Passed			
F165-Conn	Passed			
F166-F119	See action(s)		Other (see comments)	Footage not clear.
F176-F178				
F178-F179				
F179-F180				
F180-F184				
F181-F182				
F182-F183				
F183-F184				
F184-F185				
F185-Conn				
S38-S40	Passed			
S39-S40	Passed			
S40-S41	Passed			
S41-S42	Passed			
S42-S49	Passed			
S49-S52	Passed			
S52-S53	Passed			
S53-S54	Passed			
S54-S55	Passed			
S55-S56	Passed			
S56-S57	See action(s)	0m	Other (see comments)	Crack in pipe, pan and tilt CCTV to understand level of damage.
S57-S58	Passed			
S58-S59	Passed			
S59-S106	Passed			
S81-S83	Passed			
S82-S83	Passed			
S83-S84	Passed			
S84-S85	Passed			
S85-S86	Passed			

S86-S94	See action(s)	4m	Coarse settled deposits	Sewer length to be cleaned and post cleaning CCTV survey to be provided to determine whether or not there is any further remedial work required.
S87-S88	See action(s)		Coarse settled deposits	Sewer length to be cleaned and post cleaning CCTV survey to be provided to determine whether or not there is any further remedial work required.
	See action(s)	29m	Deformation within pipe	Affected section of the pipe to be replaced and post repair CCTV survey to be provided.
	See action(s)	36m	Deformation within pipe	Affected section of the pipe to be replaced and post repair CCTV survey to be provided.
	See action(s)	37m	Deformation within pipe	Affected section of the pipe to be replaced and post repair CCTV survey to be provided.
S88-S89	See action(s)	8m	Deformation within pipe	Affected section of the pipe to be replaced and post repair CCTV survey to be provided.
	See action(s)	12m	Deformation within pipe	Affected section of the pipe to be replaced and post repair CCTV survey to be provided.
S89-S90	Passed			
S90-S93	Passed			
S91-S92	Passed			
S92-S93	Passed			
S93-S94	Passed			
S94-S95	See action(s)	1m	Coarse settled deposits	Sewer length to be cleaned and post cleaning CCTV survey to be provided to determine whether or not there is any further remedial work required.
S95-S96	See action(s)	6m	Obstruction within pipe	Sewer length to be cleaned and post cleaning CCTV survey to be provided to determine whether or not there is any further remedial work required.
S96-S97	Passed			
S97-S101	Passed			
S101-S105	See action(s)		Coarse settled deposits	Sewer length to be cleaned and post cleaning CCTV survey to be provided to determine whether or not there is any further remedial work required.
S105-S182	Passed			
S182-S106	See action(s)	60m	Seeping infiltration	Affected section of the pipe to be replaced and post repair CCTV survey to be provided.
S106-S107	Passed			
S107-S108	Passed			
S108-S109	Passed			
S109-S114	Passed			
S114-S115	Passed			
S115-S116	Passed			
S116-S117	See action(s)		Coarse settled deposits	Sewer length to be cleaned and post cleaning CCTV survey to be provided to determine whether or not there is any further remedial work required.
S117-S132	See action(s)	1m	Seeping infiltration	Affected section of the pipe to be replaced and post repair CCTV survey to be provided.
	See action(s)		Coarse settled deposits	Sewer length to be cleaned and post cleaning CCTV survey to be provided to determine whether or not there is any further remedial work required.
S120-S119	Passed			
S119-S176	Passed			
S123-S125	Passed			
S132-S133	See action(s)	2m	Seeping infiltration	Affected section of the pipe to be replaced and post repair CCTV survey to be provided.
S133-S168	Passed			
S134-S135	Passed			
S135-S136	Passed			
S136-S168	Passed			
S137-S138	Passed			
S138-S139	Passed			
S139-S140	See action(s)	16m	Deformation within pipe	Affected section of the pipe to be replaced and post repair CCTV survey to be provided.
S140-S141	Passed			
S141-S142	Passed			
S142-S145	Passed			
S144-S145	Passed			
S145-S149	Passed			
S147-S148	Passed			
S148-S149	Passed			

S149-S151	Passed			
S151-S152	Passed			
S152-S154	Passed			
S154-S155	Passed			
S155-S157	Passed			
S157-S166	Passed			
S158-S161	Passed			
S161-S162	Passed			
S162-S164	Passed			
S163-S164				
S164-S165	Passed			
S165-S166	Passed - Actions listed confirmed as completed		Other (see comments)	Footage skips at 26.94m - reCCTV
S166-S167	Passed			
S167-S168	Passed			
S168-S169	Passed			
S169-S174	Passed			
S170-S171	Passed			
S171-S172	Passed			
S172-S173	Passed			
S174-S177	Passed			
S175-S176	Passed			
S176-S177A	Passed			
S177A-S177B	Passed			
S177B-S177				
S177-S178	See action(s)	23m	Other (see comments)	Additional MH at 23m not on approved drawings.
	See action(s)		Coarse settled deposits	Sewer length to be cleaned and post cleaning CCTV survey to be provided to determine whether or not there is any further remedial work required.
S178-S179	Passed			
S179-S180	Passed			
S180-S181				
S181-Outfall				
EXGA-SD1	See action(s)	5m	Obstruction within pipe	Sewer length to be cleaned and post cleaning CCTV survey to be provided to determine whether or not there is any further remedial work required.
SD1-SD2	See action(s)		Other (see comments)	Additional MH at 22m not on approved drawings.
SD2-SD3	Passed			
SD3-SD4	Passed			
SD4-S158	Passed			
SD5-SD6	Passed			
SD6-S161	Passed			

You may wish to refer to United Utilities website for Developer Services. This can be found using the following link:

<http://www.unitedutilities.com/builder-developer-wastewater.aspx>

Additional comments:
