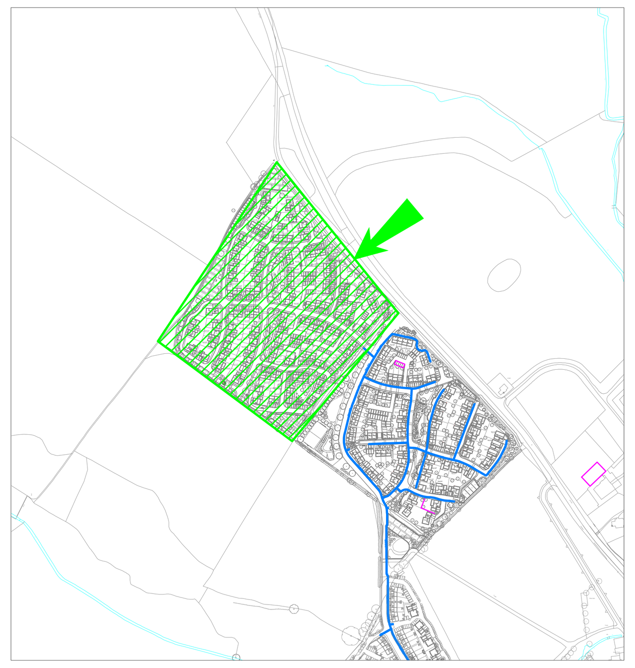
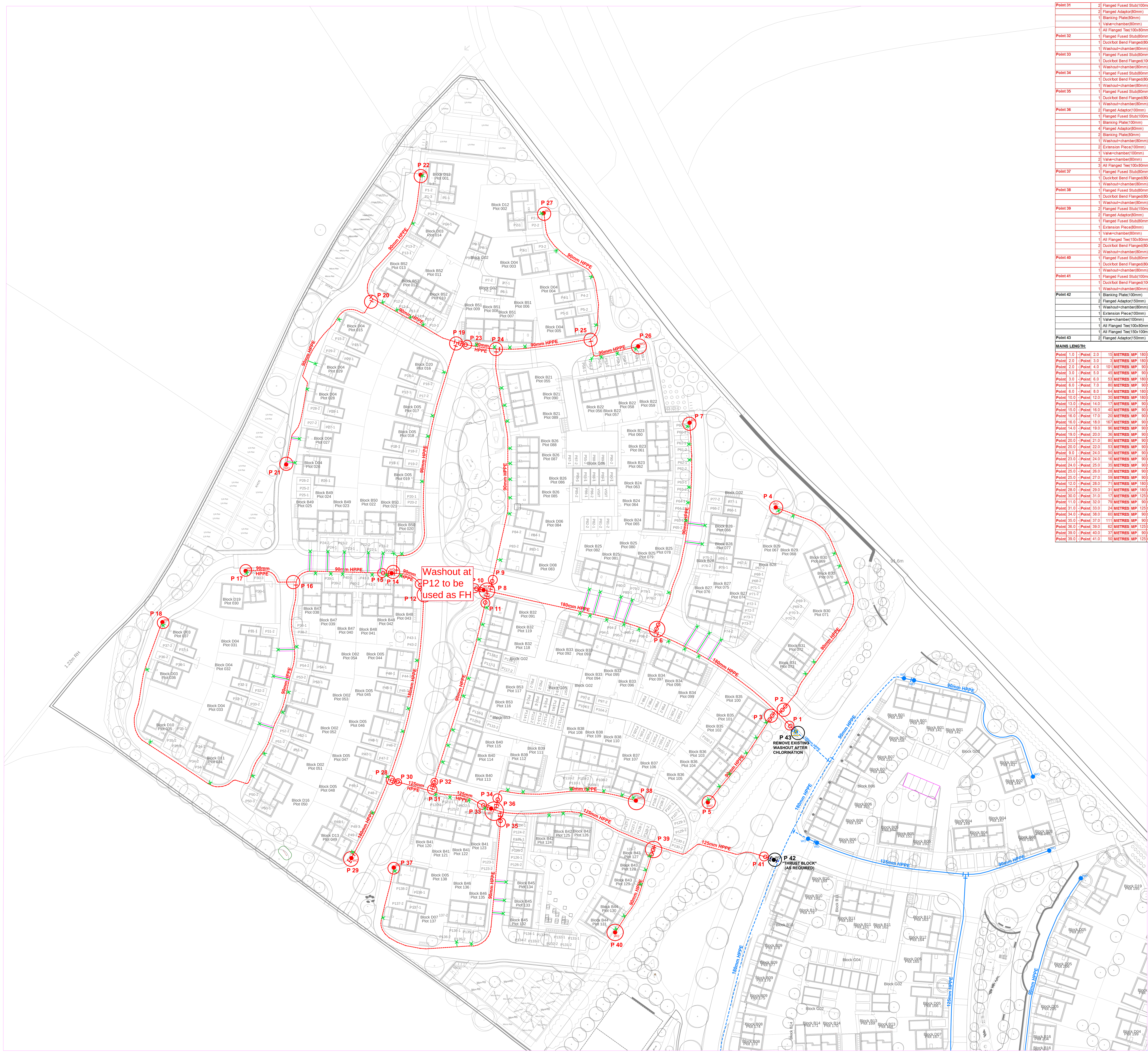




NOTES:

1. ALL END WASHOUTS TO BE POSITIONED NO MORE THAN 1m PAST LAST DRAW OFF POINT.
2. ALL FIRE HYDRANTS TO BE INSTALLED TO BS750(COPPER/GUNMETAL OUTLET ONLY)
3. ALL FITTINGS & CHAMBERS WITH IN VERGES/SOFT GROUND MUST BE ADEQUATELY SUPPORTED BY 1sq m LAYER OF CONCRETE WITH A LAYER OF A393 MESH ON SUITABLE COMPACTED MATERIAL TO A DEPTH OF 150mm.
4. ALL 'OPEN ENDED' PIPE WORK FOLLOWING ABANDONMENT OF MAINS,AND REMOVAL OF FITTINGS, (IN OFF-SITE CONDITIONS) MUST BE CAPPED TO ENSURE THERE IS NO INTRUSION OF EARTH ETC,WHICH COULD RESULT IN FUTURE GROUND SUBSIDENCE.
5. ALL THRUST BLOCKS MUST BE DETERMINED ON SITE AND CALCULATIONS SUBJECT TO BEARING CAPACITY OF THE SOIL.
6. THE ACTUAL LINE AND DEPTH OF THE MAIN OR PIPE AS SHOWN IS SUBJECT TO VARIATION DUE TO OBSTRUCTIONS.
7. IT IS THE CUSTOMER'S RESPONSIBILITY FOR INDICATING THE PLANNED BOUNDARY LINES AND LEVELS OF ALL ROADS, PATHS, ETC., IN WHICH MAINS ARE TO BE LAID. SHOULD ANY VARIATION TO THESE LINES OR LEVELS BE MADE WITHOUT THAMES WATER'S CONSENT AFTER THE MAINS HAVE BEEN LAID, THEN THE CUSTOMER WILL BE RESPONSIBLE FOR THE COST OF ANY SUBSEQUENT ALTERATIONS TO OUR APPARATUS.
8. DISTANCES DO NOT TAKE INTO ACCOUNT ANY TOPOGRAPIC VARIANCES.
9. PLEASE NOTE FITTINGS ARE NOT SHOWN TO SCALE.
10. ALL DUCTILE IRON PIPEWORK IS TO BE WRAPPED UNLESS OTHERWISE SPECIFIED.
11. MAINS WILL BE INSTALLED AT A UNIFORM DEPTH WITH THE MINIMUM NUMBER OF BENDS REQUIRED AND TO BE LAID IN A DIRECT ROUTE AS FAR AS PRACTICALLY POSSIBLE.
12. THE POSITION OF ANY BOUNDARY OR APPARATUS SHOWN ON THIS PLAN IS GIVEN WITHOUT OBLIGATION AND WARRANTY AND ACCURACY CANNOT BE GUARANTEED. NO LIABILITY OF ANY KIND WHATSOEVER IS ACCEPTED BY THAMES WATER FOR ANY ERROR OR OMISSION.

TRAFFIC MANAGEMENT ACT

SERVICE ORDER No: 80681914 GRID REF SP5771125309
OPERATION No: ______ GRID REF ______
OPERATION No: ______ GRID REF ______
OPERATION No: ______ GRID REF ______
OPERATION No: ______ GRID REF ______

AS LAID SIGN OFF

(PLEASE TICK TO CONFIRM)
ROUTE OF NEW MAIN & APPARATUS AS INDICATED ☐
DEPTH OF COVER OF NEW MAIN:
0.9 ☐ OTHER (PLEASE STATE) ☐
DEPTH OF COVER AT CONNECTION POINT TO EXISTING MAIN (POINT 1)
0.9 ☐ OTHER (PLEASE STATE) ☐
PART ' AS LAID' S DRAWING ☐ FULL 'AS LAID' DRAWING ☐
F/H's PERMANENTLY REINSTATED YES ☐ NO ☐ N/A ☐
CONTRACTOR SIGN OFF: ______ DATE ______
THAMES WATER SIGN OFF: ______ DATE ______

PREFERRED LAYOUT FOR MAINS IN A 2 METRES WIDE FOOTWAY:

NOTES:

1. THE LAYOUT OF MAINS IS GENERALLY IN ACCORDANCE WITH THE 'REPORT OF JOINT COMMITTEE ON LOCATION OF UNDERGROUND SERVICES' PUBLISHED BY THE INSTITUTION OF CIVIL ENGINEERS.
2. THE DIMENSIONS SHOWN REPRESENT THE PREFERRED ARRANGEMENT IN STRAIGHT ROUTES ON RESIDENTIAL ESTATES. VARIATIONS MAY BE NECESSARY AT CURVES AND CHANGES OF GRADIENT.
3. THE SPACE ALLOCATED IS CONSIDERED TO BE THE ABSOLUTE MINIMUM AND IN CERTAIN CIRCUMSTANCES E.G. WHERE BOTH HV AND LV CABLES ARE LAID - THE LV CABLE WILL BE LAID IN THE ALTERNATIVE POSITION AND ADDITIONAL WIDTH MAY BE REQUIRED.
4. WHERE SERVICES ARE TO BE CONNECTED TO MAINS A MINIMUM DISTANCE OF 2.0M IS REQUIRED BETWEEN THE BUILDING LINE AND THE CENTRE LINE OF THE MAIN.
5. MINIMUM DISTANCE OF ANY WATER SERVICE TO ANY SURFACE/FOUL WATER STRUCTURE IS 300mm.

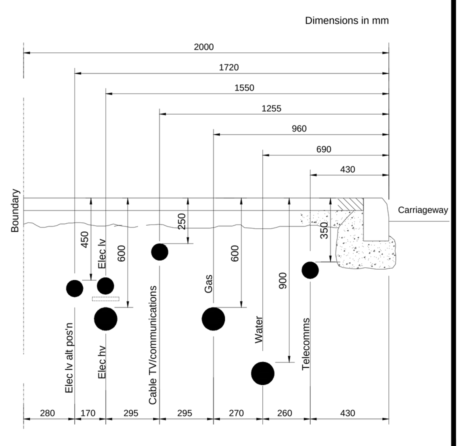
COVER OF WATER MAIN

UP TO 12"(300mm) 900mm
12"(300mm) TO 24"(600mm) 1100mm
24"(600mm) AND OVER 1200mm

TRENCH WIDTH

NOMINAL TRENCH WIDTHS TO ALLOW FOR 100mm 'BED AND SURROUND' TO MAIN

MAINS ROUTE



SCHEDULE OF FITTINGS

ALL FITTINGS,MATERIALS,PIPES & JOINTS ARE TO BE INSTALLED IN ACCORDANCE WITH "LOT C2 STANDARD NEW MAINS AND CONNECTIONS (APRIL 2010)"

POINT NUMBER		FITTINGS
Point 1	1	Flanged Fused Stub(150mm)
	1	Duckfoot Bend Flanged(100mm)-TDF
	1	Washout+chamber(80mm)-TDF
	1	Flanged Reducer(150x100mm)-TDF
Point 2	2	Flanged Fused Stub(150mm)
	2	Flanged Adaptor(80mm)
	1	Flanged Fused Stub(80mm)
	1	Extension Piece(80mm)
	1	Valve+chamber(80mm)
	1	All Flanged Tee(150x80mm)
	2	Duckfoot Bend Flanged(80mm)-TDF
	2	Washout+chamber(80mm)-TDF
Point 3	2	Flanged Fused Stub(150mm)
	2	Flanged Adaptor(80mm)
	1	Flanged Fused Stub(80mm)
	1	Extension Piece(80mm)
	1	Valve+chamber(80mm)
	1	All Flanged Tee(150x80mm)
	2	Duckfoot Bend Flanged(80mm)-TDF
	2	Washout+chamber(80mm)-TDF
Point 4	1	Flanged Fused Stub(80mm)
	1	Duckfoot Bend Flanged(80mm)
	1	Washout+chamber(80mm)
Point 5	1	Flanged Fused Stub(80mm)
	1	Duckfoot Bend Flanged(80mm)
	1	Washout+chamber(80mm)
Point 6	2	Flanged Fused Stub(150mm)
	2	Flanged Adaptor(80mm)
	1	Flanged Fused Stub(80mm)
	1	Extension Piece(80mm)
	2	Valve+chamber(80mm)
	1	All Flanged Tee(150x80mm)
	2	Duckfoot Bend Flanged(80mm)-TDF
	2	Washout+chamber(80mm)-TDF
Point 7	1	Flanged Fused Stub(80mm)
	1	Duckfoot Bend Flanged(80mm)
	1	Washout+chamber(80mm)
Point 8	2	Flanged Adaptor(150mm)
	1	Flanged Fused Stub(150mm)
	1	Blanking Plate(150mm)
	4	Flanged Adaptor(80mm)
	2	Blanking Plate(80mm)
	1	Washout+chamber(80mm)
	2	Extension Piece(150mm)
	1	Valve+chamber(150mm)
	2	Valve+chamber(80mm)
	3	All Flanged Tee(150x80mm)
Point 9	1	Flanged Fused Stub(80mm)
	1	Duckfoot Bend Flanged(80mm)-TDF
	1	Washout+chamber(80mm)-TDF
Point 10	1	Flanged Fused Stub(150mm)
	1	Duckfoot Bend Flanged(100mm)-TDF
	1	Washout+chamber(80mm)-TDF
	1	Flanged Reducer(150x100mm)-TDF
Point 11	1	Flanged Fused Stub(80mm)
	1	Duckfoot Bend Flanged(80mm)-TDF
	1	Washout+chamber(80mm)-TDF
Point 12	2	Flanged Fused Stub(150mm)
	2	Flanged Adaptor(80mm)
	1	Blanking Plate(80mm)
	1	Washout+chamber(80mm)
	1	Flanged Reducer(150x80mm)
	1	Extension Piece(80mm)
	1	Valve+chamber(150mm)
	1	Valve+chamber(80mm)
	1	All Flanged Tee(150x150mm)
	1	All Flanged Tee(80x80mm)
Point 13	1	Flanged Fused Stub(80mm)
	1	Duckfoot Bend Flanged(80mm)-TDF
	1	Washout+chamber(80mm)-TDF
Point 14	2	Flanged Adaptor(80mm)
	2	Flanged Fused Stub(80mm)
	1	Blanking Plate(80mm)
	1	Washout+chamber(80mm)
	1	Extension Piece(80mm)
	2	Valve+chamber(80mm)
	2	All Flanged Tee(80x80mm)
Point 15	1	Flanged Fused Stub(80mm)
	1	Duckfoot Bend Flanged(80mm)-TDF
	1	Washout+chamber(80mm)-TDF
Point 16	3	Flanged Fused Stub(80mm)
	1	Valve+chamber(80mm)
	1	All Flanged Tee(80x80mm)
Point 17	1	Flanged Fused Stub(80mm)
	1	Duckfoot Bend Flanged(80mm)
	1	Washout+chamber(80mm)
Point 18	1	Flanged Fused Stub(80mm)
	1	Duckfoot Bend Flanged(80mm)
	1	Washout+chamber(80mm)
Point 19	2	Flanged Adaptor(80mm)
	2	Flanged Fused Stub(80mm)
	1	Blanking Plate(80mm)
	3	Valve+chamber(80mm)
	1	All Flanged Tee(80x80mm)
Point 20	3	Flanged Fused Stub(80mm)
	2	Valve+chamber(80mm)
	1	All Flanged Tee(80x80mm)
Point 21	1	Flanged Fused Stub(80mm)
	1	Duckfoot Bend Flanged(80mm)
	1	Washout+chamber(80mm)
Point 22	1	Flanged Fused Stub(80mm)
	1	Duckfoot Bend Flanged(80mm)
	1	Washout+chamber(80mm)
Point 23	1	Flanged Fused Stub(80mm)
	1	Duckfoot Bend Flanged(80mm)-TDF
	1	Washout+chamber(80mm)-TDF
Point 24	3	Flanged Fused Stub(80mm)
	2	Valve+chamber(80mm)
	1	All Flanged Tee(80x80mm)
Point 25	3	Flanged Fused Stub(80mm)
	1	Valve+chamber(80mm)
	1	All Flanged Tee(80x80mm)
Point 26	1	Flanged Fused Stub(80mm)
	1	Duckfoot Bend Flanged(80mm)
	1	Washout+chamber(80mm)
Point 27	1	Flanged Fused Stub(80mm)
	1	Duckfoot Bend Flanged(80mm)
	1	Washout+chamber(80mm)
Point 28	2	Flanged Adaptor(100mm)
	1	Blanking Plate(100mm)
	2	Flanged Fused Stub(150mm)
	1	Valve+chamber(100mm)
	1	All Flanged Tee(150x100mm)
Point 29	1	Flanged Fused Stub(150mm)
	1	Blanking Plate(150mm)
	1	Washout+chamber(80mm)
	1	Extension Piece(150mm)
	1	Valve+chamber(150mm)
	1	All Flanged Tee(150x80mm)
Point 30	1	Flanged Fused Stub(80mm)
	1	Duckfoot Bend Flanged(100mm)-TDF
	1	Washout+chamber(80mm)-TDF
Point 31	2	Flanged Fused Stub(100mm)
	2	Flanged Adaptor(80mm)
	1	Blanking Plate(80mm)
	1	Valve+chamber(80mm)
	1	All Flanged Tee(100x80mm)
Point 32	1	Flanged Fused Stub(80mm)
	1	Duckfoot Bend Flanged(80mm)-TDF
	1	Washout+chamber(80mm)-TDF
Point 33	1	Flanged Fused Stub(80mm)
	1	Duckfoot Bend Flanged(100mm)-TDF
	1	Washout+chamber(80mm)-TDF
Point 34	1	Flanged Fused Stub(80mm)
	1	Duckfoot Bend Flanged(80mm)-TDF
	1	Washout+chamber(80mm)-TDF
Point 35	1	Flanged Fused Stub(80mm)
	1	Duckfoot Bend Flanged(80mm)-TDF
	1	Washout+chamber(80mm)-TDF
Point 36	2	Flanged Adaptor(100mm)
	1	Flanged Fused Stub(100mm)
	1	Blanking Plate(100mm)
	4	Flanged Adaptor(80mm)
	2	Blanking Plate(80mm)
	1	Washout+chamber(80mm)
	2	Extension Piece(100mm)
	1	Valve+chamber(100mm)
	2	Valve+chamber(80mm)
	3	All Flanged Tee(100x80mm)
Point 37	1	Flanged Fused Stub(80mm)
	1	Duckfoot Bend Flanged(80mm)
	1	Washout+chamber(80mm)
Point 38	1	Flanged Fused Stub(80mm)
	1	Duckfoot Bend Flanged(80mm)
	1	Washout+chamber(80mm)
Point 39	2	Flanged Fused Stub(150mm)
	2	Flanged Adaptor(80mm)
	1	Flanged Fused Stub(80mm)
	1	Extension Piece(80mm)
	1	Valve+chamber(80mm)
	1	All Flanged Tee(150x80mm)
	2	Duckfoot Bend Flanged(80mm)-TDF
	2	Washout+chamber(80mm)-TDF
Point 40	1	Flanged Fused Stub(80mm)
	1	Duckfoot Bend Flanged(80mm)
	1	Washout+chamber(80mm)
Point 41	1	Flanged Fused Stub(100mm)
	1	Duckfoot Bend Flanged(100mm)-TDF
	1	Washout+chamber(80mm)-TDF
Point 42	1	Blanking Plate(100mm)
	2	Flanged Adaptor(150mm)
	1	Washout+chamber(80mm)
	1	Extension Piece(100mm)
	1	Valve+chamber(100mm)
	1	All Flanged Tee(100x80mm)
	1	All Flanged Tee(150x100mm)
Point 43	2	Flanged Adaptor(150mm)

MAINS LENGTH:

Point	1.0	-	Point	2.0	15	METRES	MP	180	SURFACE	PM
Point	2.0	-	Point	3.0	3	METRES	MP	180	SURFACE	PM
Point	2.0	-	Point	4.0	101	METRES	MP	90	SURFACE	PM
Point	3.0	-	Point	5.0	45	METRES	MP	90	SURFACE	PM
Point	3.0	-	Point	6.0	53	METRES	MP	180	SURFACE	PM
Point	6.0	-	Point	7.0	80	METRES	MP	90	SURFACE	PM
Point	6.0	-	Point	8.0	64	METRES	MP	180	SURFACE	PM
Point	10.0	-	Point	12.0	30	METRES	MP	180	SURFACE	PM
Point	13.0	-	Point	14.0	17	METRES	MP	90	SURFACE	PM
Point	15.0	-	Point	16.0	40	METRES	MP	90	SURFACE	PM
Point	16.0	-	Point	17.0	20	METRES	MP	90	SURFACE	PM
Point	16.0	-	Point	18.0	167	METRES	MP	90	SURFACE	PM
Point	14.0	-	Point	19.0	96	METRES	MP	90	SURFACE	PM
Point	19.0	-	Point	20.0	36	METRES	MP	90	SURFACE	PM
Point	20.0	-	Point	21.0	80	METRES	MP	90	SURFACE	PM
Point	20.0	-	Point	22.0	53	METRES	MP	90	SURFACE	PM
Point	9.0	-	Point	24.0	90	METRES	MP	90	SURFACE	PM
Point	23.0	-	Point	24.0	16	METRES	MP	90	SURFACE	PM
Point	24.0	-	Point	25.0	35	METRES	MP	90	SURFACE	PM
Point	25.0	-	Point	26.0	28	METRES	MP	90	SURFACE	PM
Point	25.0	-	Point	27.0	59	METRES	MP	90	SURFACE	PM
Point	12.0	-	Point	28.0	71	METRES	MP	180	SURFACE	PM
Point	28.0	-	Point	29.0	31	METRES	MP	180	SURFACE	PM
Point	30.0	-	Point	31.0	17	METRES	MP	125	SURFACE	PM
Point	11.0	-	Point	32.0	79	METRES	MP	90	SURFACE	PM
Point	31.0	-	Point	33.0	24	METRES	MP	125	SURFACE	PM
Point	34.0	-	Point	38.0	60	METRES	MP	90	SURFACE	PM
Point	35.0	-	Point	37.0	111	METRES	MP	90	SURFACE	PM
Point	36.0	-	Point	39.0	62	METRES	MP	125	SURFACE	PM
Point	39.0	-	Point	40.0	37	METRES	MP	90	SURFACE	PM
Point	39.0	-	Point	41.0	50	METRES	MP	125	SURFACE	PM

ALL SERVICE CONNECTIONS ARE 25mm UNLESS OTHERWISE STATED

REV	DESCRIPTION	DRN	CHK	APP	DATE
2	REVISED MAIN BETWEEN PT20 TO PT 21	PB			03 05 18
1	FOR INFORMATION	WK			15 02 18

SITE LOCATION:
ECO TOWN PHASE 4
BANBURY ROAD, BICESTER
OX27 8AS

MATERIAL:	DIA:	LENGTH:
MATERIAL: HPPE	DIA: 90 mm	LENGTH: 1250 m
MATERIAL: HPPE	DIA: 180 mm	LENGTH: 267 m
MATERIAL: HPPE	DIA: 125 mm	LENGTH: 153 m
MATERIAL:	DIA: mm	LENGTH: m

Legend: Proposed main in different phase; Existing main; Main to be abandoned; Proposed main; Duct to be provided by client (100mm Dia); Service connection; Service connection manifold with No. of ports; Washouts (WO); Fire Hydrants (FH); Temporary washouts; Valves; Air valves; Blanking plates; Closed valves; Double spade valves; Water Meters

Black symbols / proposed main - installed by TWUL
Blue symbols / proposed main - installed by TWUL or SLO
Red symbols / proposed main - installed by SLO

THAMES WATER UTILITIES
DEVELOPER SERVICES / CUSTOMER EXPERIENCE, CLEARWATER COURT, VASTERN ROAD, READING RG1 8DB
TEL: 0800 009 3921
EMAIL: DEVELOPER.SERVICES@THAMESWATER.CO.UK

SUBCASE/DRAWING No:	50151922	
DRAWING REVISION:	2	
SERVICE ORDER No:	80681914	
SLY-SUBCASE No:	-	
SLY-SERV. ORDER:	-	
SCHEME No:	-	
GRID REF:	457711 , 225309	
SCALE:	1:500 @ A0	
DESIGN BY:	H.TAGAMI	02/05/18
DRAWN BY:	P.BHOGAL	03/05/18

BASED ON DEVELOPER'S DWG: 24493_1001_1012_T2.DWG

LINES AND LEVELS CONFIRMED DURING SITE MEETING HELD ON:-

	CONTRACTOR	SURVEYOR	CUSTOMER
NAME			
SIGNATURE			
COMPANY			

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CAD PATH: Y:\CAD\CLEAN WATER 2018\50151922 PHASE 4 ECO TOWN BANBURY RD BICESTER OX27 8AS\WIP 50151922 PHASE 4 ECO TOWN BANBURY RD BICESTER OX27 8AS REV 2

CAD DATE: 03/05/2018 CAD : 02 A0