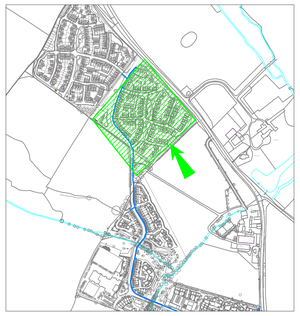


SITE LOCATION PLAN
(NOT TO SCALE)

| MAINS LENGTH: | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Point | 1.0 | Point | 2.0 | 20 | METRES | MP | 125 | SURFACE | PM |
| Point | 3.0 | Point | 4.0 | 81 | METRES | MP | 90 | SURFACE | PM |
| Point | 2.0 | Point | 5.0 | 54 | METRES | MP | 125 | SURFACE | PM |
| Point | 5.0 | Point | 6.0 | 10 | METRES | MP | 125 | SURFACE | PM |
| Point | 6.0 | Point | 7.0 | 53 | METRES | MP | 90 | SURFACE | PM |
| Point | 6.0 | Point | 8.0 | 72 | METRES | MP | 125 | SURFACE | PM |
| Point | 8.0 | Point | 9.0 | 60 | METRES | MP | 125 | SURFACE | PM |
| Point | 8.0 | Point | 10.0 | 35 | METRES | MP | 90 | SURFACE | PM |
| Point | 11.0 | Point | 12.0 | 29 | METRES | MP | 90 | SURFACE | PM |
| Point | 13.0 | Point | 14.0 | 50 | METRES | MP | 90 | SURFACE | PM |
| Point | 15.0 | Point | 16.0 | 85 | METRES | MP | 90 | SURFACE | PM |
| Point | 17.0 | Point | 18.0 | 40 | METRES | MP | 90 | SURFACE | PM |
| Point | 18.0 | Point | 19.0 | 80 | METRES | MP | 90 | SURFACE | PM |
| Point | 18.0 | Point | 20.0 | 100 | METRES | MP | 90 | SURFACE | PM |
| Point | 21.0 | Point | 22.0 | 75 | METRES | MP | 90 | SURFACE | PM |

## 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 Adaptor(100mm) |
| | 1 | Flanged Fused Stub(100mm) |
| | 1 | Duckfoot Bend Flanged(100mm)-TDF |
| | 1 | Washout+chamber(80mm)-TDF |
| Point 2 | 2 | Flanged Fused Stub(100mm) |
| | 2 | Flanged Adaptor(80mm) |
| | 1 | Extension Piece(80mm) |
| | 1 | Valve+chamber(100mm) |
| | 1 | Valve+chamber(80mm) |
| | 1 | All Flanged Tee(100x80mm) |
| | 1 | Duckfoot Bend Flanged(80mm)-TDF |
| | 1 | Washout+chamber(80mm)-TDF |
| Point 3 | 1 | Flanged Fused Stub(80mm) |
| | 1 | Duckfoot Bend Flanged(80mm)-TDF |
| | 1 | Washout+chamber(80mm)-TDF |
| Point 4 | 1 | Flanged Fused Stub(80mm) |
| | 1 | Duckfoot Bend Flanged(80mm) |
| | 1 | Washout+chamber(80mm) |
| Point 5 | 2 | Flanged Fused Stub(100mm) |
| | 2 | Flanged Adaptor(80mm) |
| | 1 | Blanking Plate(80mm) |
| | 1 | Washout+chamber(80mm) |
| | 1 | Extension Piece(80mm) |
| | 1 | Valve+chamber(100mm) |
| | 1 | Valve+chamber(80mm) |
| | 1 | All Flanged Tee(100x80mm) |
| Point 6 | 2 | Flanged Fused Stub(100mm) |
| | 2 | Flanged Adaptor(80mm) |
| | 1 | Flanged Fused Stub(80mm) |
| | 1 | Extension Piece(80mm) |
| | 1 | Valve+chamber(80mm) |
| | 1 | All Flanged Tee(100x80mm) |
| | 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 Fused Stub(100mm) |
| | 2 | Flanged Adaptor(80mm) |
| | 1 | Flanged Fused Stub(80mm) |
| | 1 | Flanged Reducer(100x80mm) |
| | 1 | Extension Piece(100mm) |
| | 2 | Valve+chamber(100mm) |
| | 1 | All Flanged Tee(100x80mm) |
| | 2 | Duckfoot Bend Flanged(80mm)-TDF |
| | 2 | Washout+chamber(80mm)-TDF |
| Point 9 | 1 | Flanged Fused Stub(100mm) |
| | 1 | Blanking Plate(100mm) |
| | 1 | Washout+chamber(80mm) |
| | 1 | Flanged Reducer(100x80mm) |
| | 1 | Extension Piece(100mm) |
| | 1 | Valve+chamber(100mm) |
| | 1 | All Flanged Tee(100x80mm) |
| Point 10 | 1 | Flanged Fused Stub(80mm) |
| | 1 | Duckfoot Bend Flanged(80mm) |
| | 1 | Washout+chamber(80mm) |
| Point 11 | 1 | Flanged Fused Stub(80mm) |
| | 1 | Duckfoot Bend Flanged(80mm)-TDF |
| | 1 | Washout+chamber(80mm)-TDF |
| Point 12 | 6 | Flanged Adaptor(100mm) |
| | 1 | Flanged Fused Stub(80mm) |
| | 3 | Blanking Plate(80mm) |
| | 1 | Washout+chamber(80mm) |
| | 3 | Extension Piece(80mm) |
| | 3 | Valve+chamber(80mm) |
| | 3 | All Flanged Tee(80x80mm) |
| Point 13 | 1 | Flanged Fused Stub(80mm) |
| | 1 | Duckfoot Bend Flanged(80mm)-TDF |
| | 1 | Washout+chamber(80mm)-TDF |
| Point 14 | 1 | Flanged Fused Stub(80mm) |
| | 1 | Duckfoot Bend Flanged(80mm) |
| | 1 | Washout+chamber(80mm) |
| Point 15 | 1 | Flanged Fused Stub(80mm) |
| | 1 | Duckfoot Bend Flanged(80mm)-TDF |
| | 1 | Washout+chamber(80mm)-TDF |
| Point 16 | 1 | Flanged Fused Stub(80mm) |
| | 1 | Duckfoot Bend Flanged(80mm) |
| | 1 | Washout+chamber(80mm) |
| Point 17 | 1 | Flanged Fused Stub(80mm) |
| | 1 | Duckfoot Bend Flanged(80mm)-TDF |
| | 1 | Washout+chamber(80mm)-TDF |
| Point 18 | 3 | Flanged Fused Stub(100mm) |
| | 2 | Valve+chamber(80mm) |
| | 1 | All Flanged Tee(80x80mm) |
| Point 19 | 1 | Flanged Fused Stub(80mm) |
| | 1 | Duckfoot Bend Flanged(80mm) |
| | 1 | Washout+chamber(80mm) |
| Point 20 | 1 | Flanged Fused Stub(80mm) |
| | 1 | Duckfoot Bend Flanged(80mm) |
| | 1 | Washout+chamber(80mm) |
| Point 21 | 1 | Flanged Fused Stub(80mm) |
| | 1 | Blanking Plate(80mm) |
| | 1 | Washout+chamber(80mm) |
| | 1 | Extension Piece(80mm) |
| | 1 | Valve+chamber(80mm) |
| Point 22 | 1 | All Flanged Tee(80x80mm) |
| | 1 | Flanged Fused Stub(80mm) |
| | 1 | Duckfoot Bend Flanged(80mm) |
| | 1 | Washout+chamber(80mm) |
| Point 23 | 3 | Flanged Adaptor(100mm) |
| Point 24 | 3 | Flanged Adaptor(80mm) |
| Point 25 | 1 | Flanged Adaptor(80mm) |

P 25
REMOVE EXISTING WASHOUT AFTER CHLORINATION

P 24
REMOVE EXISTING WASHOUT AFTER CHLORINATION

P 23
REMOVE EXISTING WASHOUT AFTER CHLORINATION

P11 to be used as FH if it can go in the footpath otherwise P17 but this is on the smaller main.

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 TYPE.
3. ALL FITTINGS & CHAMBERS WITH IN VERGES/SOFT GROUND MUST BE ADEQUATELY SUPPORTED BY 1no.H.D.PE 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 THAT NO INGRESS OF MATERIALS 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 FINISHED GROUND 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 STATED.
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.

ALL SERVICE CONNECTIONS ARE 25mm UNLESS OTHERWISE STATED

## TRAFFIC MANAGEMENT ACT

SERVICE ORDER No: 80681476 GRID REF SP4771125309
OPERATION No: _____ GRID REF _____
OPERATION No: _____ GRID REF _____
OPERATION No: _____ GRID REF _____
OPERATION No: _____ GRID REF _____

## AS LAID SIGN OFF

ROUTE OF NEW MAIN & APPARATUS AS INDICATED (PLEASE TICK TO CONFIRM)

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 ☐

FIH'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.

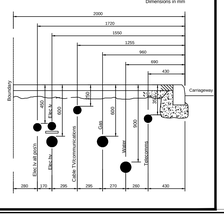
COVER OF WATER MAIN

| | |
|---|---|
| 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

Dimensions in mm



SCALE 1 : 500
0 10m 40 m

| REV | DESCRIPTION | DRN | CHK | APP | DATE |
|---|---|---|---|---|---|
| 1 | FOR INFORMATION | WK | | | 14.02.18 |

SITE LOCATION:
ECO TOWN PHASE 3
BANBURY ROAD, BICESTER
OX27 8AS

| | | | |
|---|---|---|---|
| MATERIAL: | HPPE | DIA: | 90 mm LENGTH: 628 m |
| MATERIAL: | HPPE | DIA: | 125 mm LENGTH: 216 m |
| MATERIAL: | | DIA: | mm LENGTH: m |
| MATERIAL: | | DIA: | mm LENGTH: m |

Proposed main in different phase
Existing main
Main to be abandoned
Proposed main
100MM TMC
Duct to be provided by client
Service connection
Service connection manifold with No. of ports
Washouts
Fire Hydrants
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
CUSTOMER CONNECTIONS
CUSTOMER EXPERIENCE
CLEARWATER COURT,
VASTERN ROAD,
READING RG1 8DB
TEL: 0800 009 3921
Email: TWUplanning@thameswater.co.uk

| | |
|---|---|
| SUBCASE/DRAWING No: | 50142285 |
| DRAWING REVISION: | 2 |
| SERVICE ORDER No: | 80681476 |
| SLY-SUBCASE No: | - |
| SLY-SERV. ORDER: | - |
| SCHEME No: | D |
| GRID REF: | 457711 225309 |
| SCALE: | 1:500 @ A0 |
| DESIGN BY: | H.TAGAMI 13/02/18 |
| DRAWN BY: | W.KASC 14/02/18 |

BASED ON DEVELOPER'S DWG: 24455_5061_SK0_TL2A06

LINES AND LEVELS CONFIRMED DURING SITE MEETING HELD ON:-

| | CONTRACTOR | SURVEYOR | CUSTOMER |
|---|---|---|---|
| NAME | | | |
| SIGNATURE | | | |
| COMPANY | | | |

CAD PATH: Z:\CAD\CLEAN WATER 20180501422B5 PH3 ECO TOWN BANBURY RD BICESTER OX27 8AS\WP 50142285 PH3 ECO TOWN BANBURY RD BICESTER OX27 8AS REV 1

CAD DATE: 14/02/2018 CAD : 01

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