

RESIDUAL EXTRA-ORDINARY OR UNEXPECTED HAZARDS			
HAZARD REF.	HAZARD	MEASURES TAKEN	RESIDUAL RISK
H4.1	EXISTING SERVICES	CONTRACTOR TO CONDUCT APPROPRIATE SERVICE RECORD CHECKS AND ON SITE CHECKS PRIOR TO COMMENCEMENT OF CONSTRUCTION.	ACCEPTABLE.

CONTAMINATED LAND
AS THE SITE HAS BEEN SHOWN TO HAVE A DEGREE OF CONTAMINATION PRESENT, OUR PROPOSALS INVOLVE THE LAYING OF MAINS AND/OR SERVICES USING AN APPROVED BARRIER PIPE SYSTEM WHICH WILL PROTECT WATER SUPPLIES FROM INGRESS OF ANY CONTAMINANTS. ALL PIPES AND FITTINGS TO BE INSTALLED BY THAMES WATER AND THE DEVELOPER MUST BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATION TO FORM A COMPLETE APPROVED BARRIER PIPE SYSTEM.

SERVICE CONNECTIONS
ALL SERVICES AND METERS FROM NEW MAINS TO BE INSTALLED BY DORCHESTER LIVING.

ALL SERVICE PIPES TO BE 25MM UNLESS STATED OTHERWISE.
25/32MM SERVICE PIPES MUST BE INSTALLED IN A CONTINUOUS UN-JOINTED LENGTH LEAVING ENOUGH PIPE COILED AT THE BOUNDARY OR AGREED POINT OF DELIVERY TO ENABLE A CONNECTION DIRECTLY INTO THE WATER MAIN. THE SUPPLY PIPE MUST HAVE A CONTINUOUS LENGTH OF BLUE TRACING MESH INSTALLED ABOVE IT FROM THE POINT OF ENTRY UP TO THE PROPERTY BOUNDARY OR AGREED POINT OF DELIVERY. ANY COILED PIPES LEFT OUT FOR CONNECTION MUST BE ADEQUATELY PROTECTED TO ENSURE THE SUPPLY INTO THE MAIN REMAINS UN-JOINTED. PRIOR TO CONNECTION TO THE WATER MAIN, SUPPLY PIPES MUST BE CLEARLY LABELED SHOWING WHICH PROPERTY THEY SERVE AND SHOULD BE SEALED WITH A MECHANICAL WATERTIGHT STOP END.

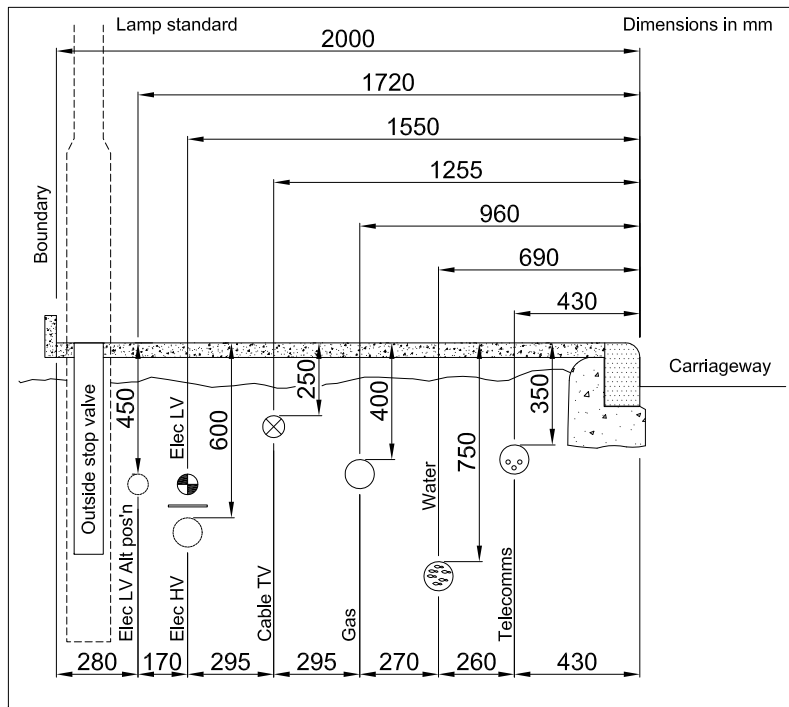
METERING DETAILS
CONTAMINATED SITES MUST COMPLY WITH WIS-4-37-01 PROTECTALINE.
IT IS THAMES WATER'S POLICY THE SLO MUST INSTALL ALL WATER METERS TO THAMES WATER'S SPECIFICATIONS. METERS ARE NORMALLY PLACED IN BOUNDARY BOXES AT THE BACK EDGE OF THE FOOTPATH.
QUALIFICATIONS FOR THIS ELEMENT OF WORKS WOULD BE EITHER: REGISTRATION ON WIRS,
• UNIT 236 OF NVO LEVEL 2 PUBLIC UTILITIES DISTRIBUTION
• WATER NETWORK CONSTRUCTION QUALIFICATION.

PRINCIPAL LENGTHS
160MM PE100 TYPE A BARRIER PIPE SDR17 150 METRES (EXISTING LAID BY DORCHESTER LIVING APPROX.)
160MM PE100 TYPE A BARRIER PIPE SDR17 390 METRES
100MM PE100 TYPE A BARRIER PIPE SDR17 360 METRES
83MM PE80 TYPE A BARRIER PIPE SDR11 110 METRES
32MM PE80 TYPE A BARRIER PIPE SDR11 183 METRES
25MM PE80 TYPE A BARRIER PIPE SDR11 150 METRES

HOUSE TYPE SCHEDULE		STOREY HEIGHT	SIZE (SQ FT)	No OF UNITS
DL1	2 BEDROOM SEMI / TERRACED HOUSE	2	775	11
DL2	3 BEDROOM SEMI / TERRACED HOUSE	2	857	11
DL3	3 BEDROOM SEMI DETACHED HOUSE	2	851	5
DL4	2 BEDROOM SEMI DETACHED HOUSE	2	710	5
DL6	3 BEDROOM SEMI / TERRACED HOUSE	2	857	11
DL7	3 BEDROOM SEMI DETACHED LINKED HOUSE	2	1015	1
DL7A	3 BEDROOM SEMI DETACHED LINKED HOUSE	2	1015	1
AF2	2 BEDROOM SEMI / TERRACED HOUSE	2	777	22
AF3	3 BEDROOM SEMI / TERRACED HOUSE	2	910	4
TOTAL NO. OF DWELLINGS				71

Table 1 - Excavation widths and pipe bed & surround thickness					
Diameter of main	63mm	90mm	110mm	160mm	225mm
Nominal excavation width	350mm	400mm	400mm	500mm	600mm
Pipe bed and surround (compacted)	50mm	75mm	75mm	100mm	150mm

Figure 1 - Recommended arrangement in a 2m footway



- NOTES**
- ALL DIMENSIONS IN MILLIMETRES AND ALL LEVELS IN METRES ABOVE ORDNANCE DATUM UNLESS SHOWN OTHERWISE.
 - THIS DESIGN IS PROPOSED ON THE BASIS OF CLIENT BRIEF, SPECIFICATIONS, BEST PRACTICE AND RISK REDUCTION / ELIMINATION. THE DESIGNER MUST BE CONSULTED ON ANY PROPOSED CHANGES, BEFORE THEY ARE CONSIDERED FOR IMPLEMENTATION.
 - ANY PROPOSED CHANGES TO THE WATER NETWORKS TO BE CHECKED FOR CLASHES WITH SEWERAGE.
 - GROUND CONTAMINATION PRESENT THROUGHOUT SITE - ALL MAINS AND SERVICE PIPES TO BE "PROTECTALINE" PE80 (UP TO AND INCLUDING 63MM BP) AND PE100 (80MM BP AND ABOVE), COMPLY WITH WIS 4-32-19 AND LATEST VERSION OF THAMES WATER COMPANY SPECIFIC ADDENDUM.
 - ALL PIPES TO BE LAID IN ACCORDANCE WITH WRC SELF-LAYING OF WATER MAINS AND SERVICES A CODE OF PRACTICE FOR ENGLAND AND WALES 2ND EDITION.
 - MINIMUM TRENCH WIDTH TO BE 550MM. TYPE A GRANULAR BED AND SURROUND WELL COMPACTED - TYPE 'A' GRANULAR BED AND SURROUND TO PIPES SHALL BE UNCRUSHED GRAVEL, OR CRUSHED STONE OR CRUSHED GRAVEL. THE GRADING OF WHICH COMPLIES WITH TABLE 4 OF B.S. 882 FOR NOMINAL SIZE OF SINGLE SIZED AGGREGATES. WHEN TESTED IN ACCORDANCE WITH B.S.812, THE 10% FINES VALUE SHALL NOT BE LESS THAN 50KN AND FOR THAT PORTION OF A SAMPLE RETAINED ON A 6MM SIEVE THE INDEX OF FLAKINESS SHALL NOT EXCEED 45%. MATERIAL GRADING TO BE 10MM NOMINAL SIZE OF SINGLE SIZED AGGREGATES.
 - TREES TO BE CONFIRMED - TYPES AND PROXIMITY TO WATER MAINS.
 - WATER MAINS & SUPPLY PIPES TO BE LAID AT DEPTH AS RECOMMENDED IN NJUG PUBLICATION NUMBER 7.
 - TEST PRESSURE TO BE CONFIRMED BY THAMES WATER.
 - THE WATER MAIN ARRANGEMENT SHOWN ON THIS DRAWING AS INSTRUCTIONS FROM DORCHESTER LIVING AND WILL BE SUBJECT TO REVIEW FROM THAMES WATER BEFORE BEING CONFIRMED.

- LEGEND WATER SUPPLY**
- EXISTING WATER MAIN
 - EXISTING WATER SERVICE SINGLE METER
 - EXISTING WATER SERVICE WITHIN DUCT
 - NEW POTABLE WATER MAIN - BLUE PE BP SEE NOTE 3
 - NEW POTABLE WATER SERVICE SINGLE METER - BLUE PE BP SEE NOTE 3
 - SERVICE CONNECTION MANIFOLD WITH No. OF PORTS
 - NEW POTABLE WATER SERVICE DUCT PROVIDED BY CLIENT
 - DIAMETER CHANGE
 - NEW POTABLE WATER SLUICE VALVE
 - NEW POTABLE WATER WASHOUT
 - NEW TEMPORARY WASHOUT
 - NEW POTABLE WATER FIRE HYDRANT
 - PROPOSED TREES
 - EXISTING TREES TO BE REMOVED
 - EXISTING TREES AND SHRUBS

CAUTION: THE MANAGEMENT AND DESIGN OF ANY AND ALL TEMPORARY WORKS REQUIRED TO EXECUTE THIS DESIGN ARE THE RESPONSIBILITY OF THE CONTRACTOR.

REFERENCES
GRID REFERENCE: 451714, 226096
DEVELOPER/SLO - DORCHESTER LIVING

R00	29/04/15	APPROVAL	TF	DRD	TM
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REV.	DATE	DESCRIPTION	DRAWN	CHK'D	APP'D
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SCHEME
UPPER HEYFORD, OXFORD

TITLE
WATER SUPPLY
PHASE 2
SHEET 2 OF 2

STATUS
APPROVAL

DRAWN (ORIG.)	CHECKED	APPROVED	SCALE / SHEET SIZE
TF	DRD	TM	AS SHOWN / A1

CLIENT REFERENCE	DATE
-	22/04/2015

DRAWING NO.	REV
w4028-d09	R00