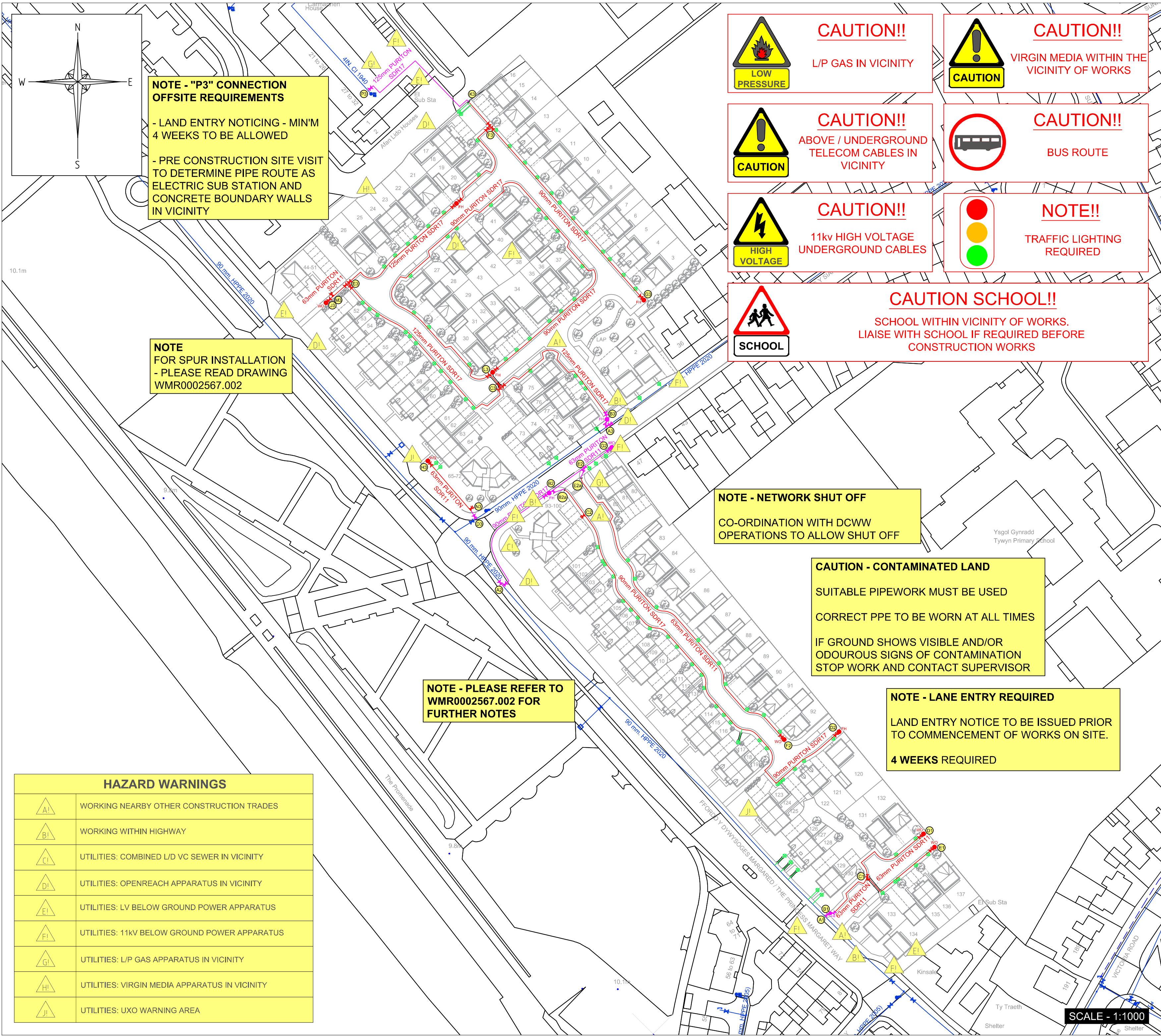




HAZARD WARNINGS	
	WORKING NEARBY OTHER CONSTRUCTION TRADES
	WORKING WITHIN HIGHWAY
	UTILITIES: COMBINED L/D VC SEWER IN VICINITY
	UTILITIES: OPENREACH APPARATUS IN VICINITY
	UTILITIES: LV BELOW GROUND POWER APPARATUS
	UTILITIES: 11KV BELOW GROUND POWER APPARATUS
	UTILITIES: L/P GAS APPARATUS IN VICINITY
	UTILITIES: VIRGIN MEDIA APPARATUS IN VICINITY
	UTILITIES: UXO WARNING AREA

WMR0002567/ BCR2800890 - SCOPE OF WORK:

DEVELOPER TO:

- UNDERTAKE ALL TRENCH EXCAVATION, PREPARATION, BACKFILL AND REINSTATEMENT WORK ASSOCIATED WITH THE INSTALLATION OF THE NEW WATER MAINS TO DCWW SPECIFICATION (SEE DRAWINGS TR_01, AVAILABLE ON REQUEST, FOR TYPICAL DETAIL). WATER MAINS MUST HAVE 900mm COVER FROM PROPOSED FINISHED LEVELS AND BE LAID IN ACCORDANCE WITH NATIONAL JOINT UTILITIES GROUP SPECIFICATION.
- PROVIDE UNRESTRICTED ACCESS TO DCWW WORK AREA FOR THE DURATION OF DCWW'S ON-SITE WORKS.
- PROVIDE A SUITABLE STORAGE AREA FOR DCWW PIPE AND PIPE FITTINGS, AWAY FROM OTHER SITE MATERIALS AND WITH HARDSTANDING, FOR THE DURATION OF DCWW'S WORK (DURATION TO BE AGREED BETWEEN DEVELOPER AND DCWW PROJECT ENGINEER).
- MANAGE ALL TRAFFIC MANAGEMENT WITHIN THE DEVELOPMENT SITE.
- ADVISE DCWW PROJECT ENGINEER OF PROGRAMME FOR MAINS INSTALLATION, GIVING A MINIMUM OF TWO WEEKS WRITTEN NOTICE PRIOR TO COMMENCEMENT OF MAINS LAYING ACTIVITIES. NO MAINS LAYING WITHIN THE DEVELOPMENT SITE SHALL TAKE PLACE UNTIL THE KERBING IS INSTALLED.
- UNDERTAKE TREE & HEDGE REMOVAL AND VEGETATION AS NECESSITATED PRIOR TO MOBILISATION.

DWR CYMRU WELSH WATER CONTRACTOR TO:

- INSTALL WATER MAINS AS FOLLOWS INCLUDING BACK-TO-BACK CONNECTIONS:

RUN	LENGTH	DIA.	PIPE	INSTALLATION
A1 - B1	3 m	90 mm	PURITON SDR17	EXCAVATE & LAY
A2 - B2	53 m	90 mm	PURITON SDR17	EXCAVATE & LAY
B2 - B2a	5 m	90 mm	PURITON SDR17	EXCAVATE & LAY
B2 - E2	15 m	90 mm	PURITON SDR17	EXCAVATE & LAY
E2 - E2a	4 m	90 mm	PURITON SDR17	EXCAVATE & LAY
E2 - G2	13 m	63 mm	PURITON SDR11	EXCAVATE & LAY
A3 - B3	3 m	125 mm	PURITON SDR17	EXCAVATE & LAY
D3 - D3a	2 m	63 mm	PURITON SDR11	EXCAVATE & LAY
K3 - P3	56 m	125 mm	PURITON SDR17	EXCAVATE & LAY

- WHERE ENCOUNTERED, TRANSFER EXISTING SERVICES ON TO NEW MAINS.
- PROVIDE AND MAINTAIN ALL NECESSARY TRAFFIC MANAGEMENT FOR WORKS WITHIN THE EXISTING PUBLIC HIGHWAY NAMED 'THE PRINCESS MARGARET WAY' AND 'CHANNEL VIEW'.

SELF LAY OPERATOR TO:

- INSTALL WATER MAINS AS FOLLOWS:

RUN	LENGTH	DIA.	PIPE	INSTALLATION
B1 - C1	22 m	63 mm	PURITON SDR11	LAY ONLY
C1 - D1	38 m	63 mm	PURITON SDR11	LAY ONLY
C1 - E1	34 m	63 mm	PURITON SDR11	LAY ONLY

B2a - C2	13 m	90 mm	PURITON SDR17	LAY ONLY
C2 - D2	174 m	90 mm	PURITON SDR17	LAY ONLY
E2a - F2	141 m	90 mm	PURITON SDR17	LAY ONLY

B3 - C3	66 m	125 mm	PURITON SDR17	LAY ONLY
C3 - E3	87 m	125 mm	PURITON SDR17	LAY ONLY
E3 - F3	103 m	125 mm	PURITON SDR17	LAY ONLY
F3 - G3	92 m	90 mm	PURITON SDR17	LAY ONLY
G3 - L3	7 m	90 mm	PURITON SDR17	LAY ONLY
L3 LOOP	240 m	90 mm	PURITON SDR17	LAY ONLY
D3a - H3	30 m	63 mm	PURITON SDR11	LAY ONLY
E3 - J3	12 m	63 mm	PURITON SDR11	LAY ONLY
F3 - K3	13 m	125 mm	PURITON SDR17	LAY ONLY

- SWAB, PRESSURE TEST, AND CHLORINATE NEW WATER MAIN - PROVIDE DCWW WITH ALL RESULTS.
- SLO TO INFORM DATE FOR BACK TO BACK CONNECTION - ONLY DCWW OPERATIONS ARE PERMITTED TO OPERATE VALVES.
- INSTALL ALL ONLINE FITTINGS AS DETAILED INCLUSIVE OF CHAMBERS AND COVERS.
- TO PROVIDE AS LAID DRAWINGS TO DCWW PROJECT ENGINEER ON COMPLETION OF WORKS AND AS LAID DETAILS ON COMPLETION OF EVERY INTERVAL WHERE MAIN(S) ARE TESTED, CHLORINATED AND MADE LIVE.

NOTES:

1. DO NOT SCALE FROM THIS DRAWING. FOR DISCREPANCIES OR OMISSIONS THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO WORKS COMMENCING.
2. MAX STATIC PRESSURE IN EXISTING WATER MAIN IS **33m** HEAD (DCWW OPERATIONS TO CONFIRM PRIOR TO CONSTRUCTION STAGE)
3. ALL SLUICE VALVES TO BE **ANTICLOCKWISE** CLOSING UNITS.
4. ALL MATERIALS TO BE IN ACCORDANCE WITH SPECIFICATIONS SET OUT IN THE CIVIL ENGINEERING SPECIFICATION FOR THE WATER INDUSTRY (7TH EDITION) AND INSTALLED IN ACCORDANCE WITH MANUFACTURERS' SPECIFICATIONS.
5. ALL WATER MAINS TO BE INSTALLED WITH 900mm COVER.
6. TYPICAL TRENCH SPECIFICATION DETAILED ON DRAWING TR_003 ISSUE C1. DRAWING AVAILABLE ON REQUEST.
7. ALL PIPE AND FITTINGS TO BE STORED OFF GROUND IN A SAFE AND HYGIENIC MANNER. PIPES SHOULD BE CAP ENDED AT ALL TIMES AND FITTINGS SHOULD BE STORED IN SEALED BAGS. THE STORAGE AREA SHOULD BE SECURELY FENCED TO PREVENT UNAUTHORISED ACCESS.
8. PIPES TO BE BUTT FUSED WHERE PRACTICABLE.
9. ALL EXCAVATION WORK MUST BE COMPLIANT WITH HSE DOCUMENT HSG47 'AVOIDING DANGER FROM UNDERGROUND SERVICES'.
10. ALL SLUICE VALVES AND HYDRANTS TO BE CONNECTED VIA PUPPED FLANGE FITTINGS UNLESS SHOWN OTHERWISE.
11. LAND ENTRY PERMISSIONS MUST BE IN PLACE BEFORE COMMENCEMENT OF WORKS ON-SITE.
12. ALL VALVES ON THE LIVE NETWORK TO BE OPERATED BY DCWW PERSONNEL ONLY.
13. SPECIFICATIONS FOR PRIVATE SERVICES ARE SET OUT IN THE DCWW SITE MANAGERS GUIDE (AVAILABLE UPON REQUEST).
14. ALL VALVE HYDRANT MUST BE VALVE CONTROLLED
15. DUE TO POTENTIAL CONTAMINATED LAND WITHIN WORKS AREA, SUITABLE PPE MUST BE WORN AND USED

NOTES

1. DWR CYMRU CYF GIVES THIS INFORMATION AS TO THE POSITION OF ITS UNDERGROUND APPARATUS BY WAY OF GENERAL GUIDANCE ONLY ON THE STRICT UNDERSTANDING THAT IT IS BASED ON THE BEST INFORMATION AVAILABLE AND NO WARRANTY AS TO ITS CORRECTNESS IS RELIED UPON IN THE EVENT OF EXCAVATIONS OR OTHER WORKS MADE IN THE VICINITY OF THE COMPANY'S APPARATUS AND ANY ONUS OF LOCATING THE APPARATUS BEFORE CARRYING OUT ANY EXCAVATIONS RESTS ENTIRELY ON YOU. IT MUST BE UNDERSTOOD THAT THE FURNISHING OF THE INFORMATION IS ENTIRELY WITHOUT PREJUDICE TO THE PROVISION OF THE NEW ROAD AND STREET WORKS ACT 1991 AND THE COMPANY'S RIGHT TO BE COMPENSATED FOR ANY DAMAGE TO ITS APPARATUS. SERVICE PIPES ARE NOT GENERALLY SHOWN BUT THEIR PRESENCE SHOULD BE ANTICIPATED.
2. EXACT LOCATIONS OF ALL APPARATUS TO BE DETERMINED ON SITE.
3. REPRODUCED FROM THE ORDNANCE SURVEY'S MAPS WITH THE PERMISSION OF THE CONTROLLER OF HER MAJESTY'S STATIONERY OFFICE. CROWN COPYRIGHT. LICENSE NO. 100019534.

O.S. REFERENCE
274760, 189383

4. LOCATION OF CONNECTIONS TO BE CONFIRMED ON SITE.

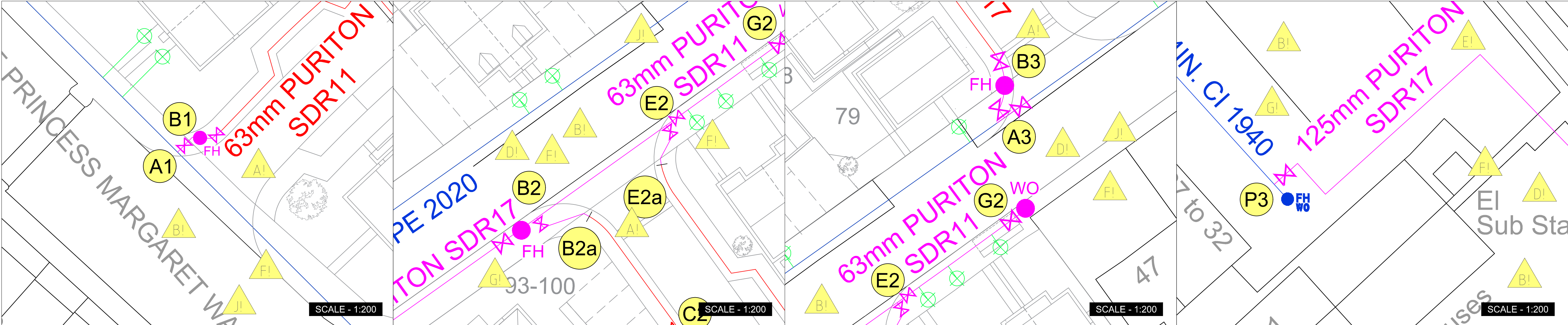
5. THE POSITIONING OF THE MAINS IS THE BE IN ACCORDANCE WITH THE NATIONAL JOINT UTILITIES GROUP GUIDELINES VOLUME 1 ISSUE 9 AND VOLUME 2 ISSUE 9.

LEGEND

	EXISTING DISTRIBUTION WATER MAIN
	EXISTING SLUICE VALVE
	EXISTING FIRE HYDRANT / WASH OUT
	EXISTING BLANK PLATE
	EXISTING AIR VALVE
	ABANDONED DISTRIBUTION WATER MAIN
	EXISTING METER
	EXISTING PRESSURE REDUCING VALVE
	PROPOSED WATER MAIN
	PROPOSED MAIN LAID BY DCWW
	PROPOSED SERVICE CONNECTION
	PROPOSED METER LOCATION
	PROPOSED SLUICE VALVE
	PROPOSED BLANK PLATE
	PROPOSED FIRE HYDRANT/WO
	EXISTING SLUICE VALVE
	EXISTING FIRE HYDRANT
	PROPOSED SERVICE CONNECTION
	PROPOSED DUCT (DEVELOPER TO INSTALL)

NOTE:

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH SCHEME DRAWING REF: WMR0002567.002 , WMR0002567.003 AND WMR0002567.004



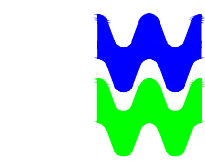
PROJECT
AFAN LIDO (ABERAVON BEACH),
THE PRINCESS MARGARET
WAY, CHANNEL VIEW,
PORT TALBOT SA12 6QN

TITLE
WATER MAINS LAYOUT WITH
LOCATION PLAN

DESIGN ISSUE

SCALE A1

AS SHOWN



DWR CYMRU
WELSH WATER

DWR CYMRU WELSH WATER
DEVELOPER SERVICES
PO BOX 3146
CARDIFF
CF30 0EH

Tel: +44 (0) 800 917 2652
Fax: +44 (0) 2920 740 472

PROJECT CODE	DRAWING NO.	ISSUE
WMR0002567	001	01