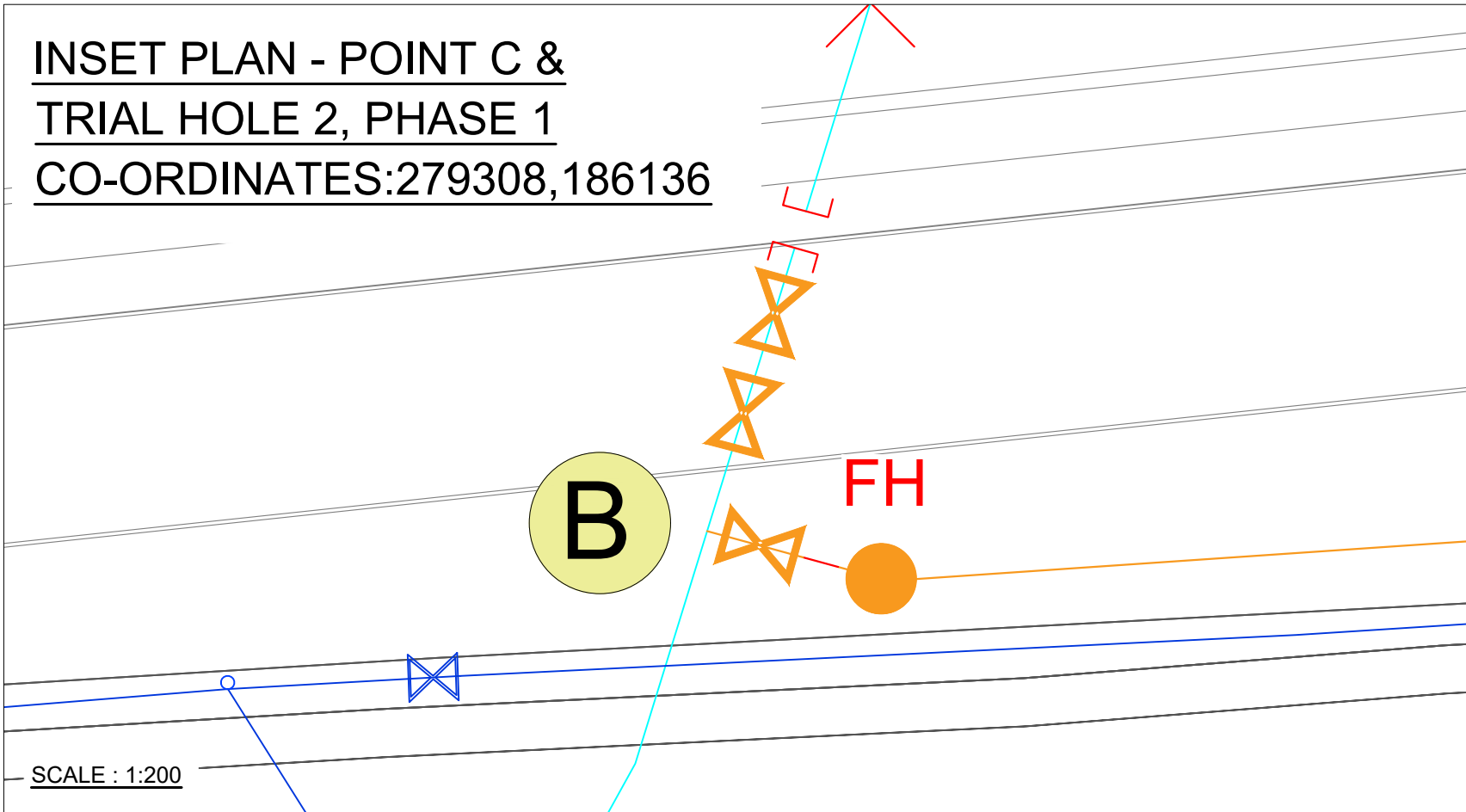
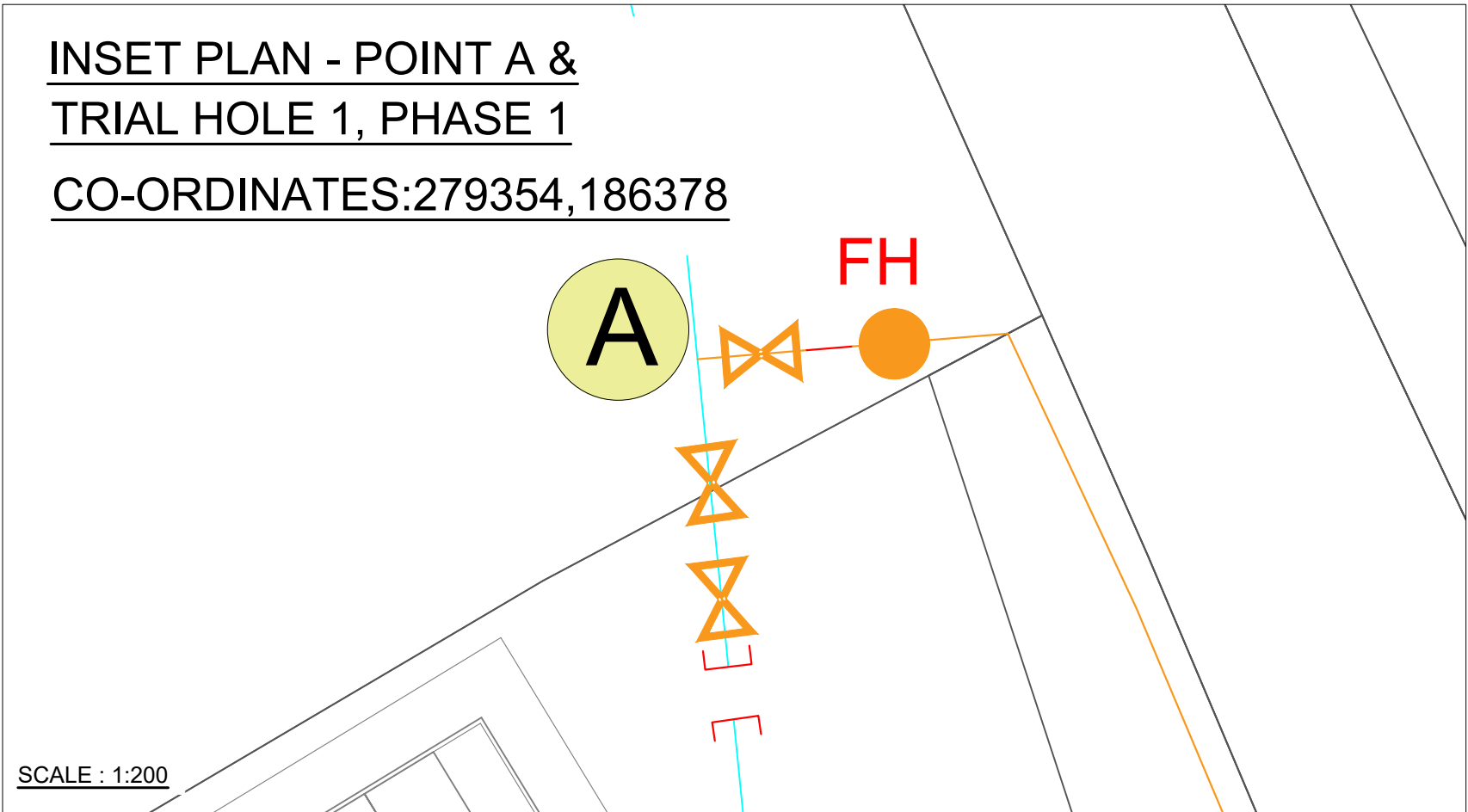
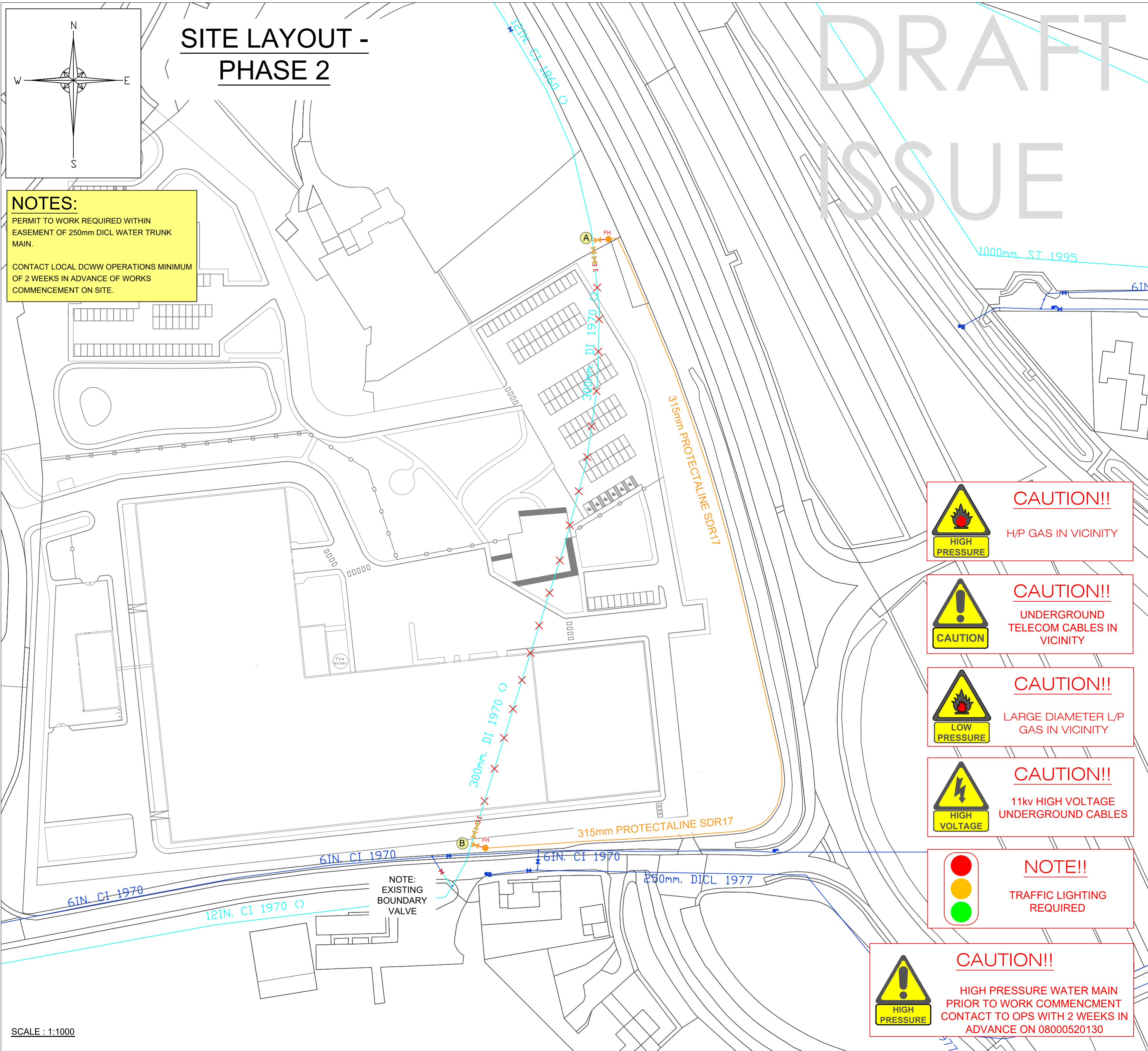




WMD0002138 / BCD2800948- SCOPE OF WORK:

DEVELOPER TO:

- PROVIDE A SUITABLE SAFE & SECURE AREA (HERAS FENCED HARDSTANDING OR LOCKABLE CONTAINER) FOR THE SAFE AND HYGIENIC STORAGE OF PIPES/FITTINGS, AWAY FROM VEGETATION AND ABOVE GROUND
- COMPLY WITH DCWW OPERATIONAL REQUIREMENTS CONCERNING EXISTING AND NEW POTABLE WATER ASSETS THROUGHOUT THE CONSTRUCTION PERIOD.
- ENSURE UNRESTRICTED ACCESS TO DCWW ASSETS, ENSURING SECURITY FENCING DOES NOT RESTRICT OR LIMIT ACCESS TO DCWW PROPOSED ASSETS
- HAND DIG TECHNIQUES TO BE ADOPTED WHEN EXCAVATION ADJACENT TO EXISTING WATER MAINS REQUIRED
- UNDERTAKE FURTHER EXCAVATION WORKS ON SITE AS REQUIRED IF NECESSITATED BY THE INSTALLATION

DWR CYMRU WELSH WATER CONTRACTOR TO:

- DCWW CONTRACTOR TO PROVIDE ALL OFF-SITE TRAFFIC MANAGEMENT AS REQUIRED IN ASSOCIATION WITH NEATH PORT TALBOT COUNTY COUNCIL
- SATISFY THEMSELVES AS TO THE EXACT POSITION OF STATUTORY UNDERTAKERS AND OTHER PUBLICLY AND PRIVATELY OWNED SERVICES OR SUPPLIES

UNDERTAKE TRIAL HOLES AS FOLLOWS:

TRIAL HOLE REF.	LENGTH	WIDTH	DEPTH
TP1	5 m	0.5 m	EXCAVATE TO INVERT LEVEL OF PIPE (ASSUMED 1200mm COVER) TO DETERMINE LOCATION, ASSESS CONDITION AND CALIPER MAIN - PROVIDE LOG AND PHOTOS TO ENGINEER
TP2	5 m	0.5 m	EXCAVATE TO INVERT LEVEL OF PIPE (ASSUMED 1200mm COVER) TO DETERMINE LOCATION, ASSESS CONDITION AND CALIPER MAIN - PROVIDE LOG AND PHOTOS TO ENGINEER
TP3	1.2 m	0.5 m	EXCAVATE TO LEVEL OF PROPOSED PIPE (ASSUMED 1200mm COVER) TO DETERMINE GROUND CONDITIONS ALONG ROUTE
TP4	1.2 m	0.5 m	EXCAVATE TO LEVEL OF PROPOSED PIPE (ASSUMED 1200mm COVER) TO DETERMINE GROUND CONDITIONS ALONG ROUTE
TP5	1.2 m	0.5 m	EXCAVATE TO LEVEL OF PROPOSED PIPE (ASSUMED 1200mm COVER) TO DETERMINE GROUND CONDITIONS ALONG ROUTE

PHASE 1

- DCWW SPECIALIST CONTRACTOR UTS TO FABRICATE FLOW STOP APPARATUS AND UNDER-PRESSURE TEE IN PREPARATION FOR DIVERSION OF TRUNK MAINS FOLLOWING TRIAL HOLE INVESTIGATIONS
- UNDERTAKE ALL EXCAVATION AT POINTS 'A' & 'B' FOR FLOW STOP OPERATIONS
- INSTALL BRANCH UNDER PRESSURE CONNECTION TO 300mm DI MAIN AT POINTS 'A' & 'B' ON AN EXCAVATE AND LAY BASIS
- FLOW STOP ARRANGEMENTS TO BE INSTALLED AT POINTS 'A' & 'B' BY DCWW SPECIALIST CONTRACTOR UTS ON AN EXCAVATE AND LAY BASIS - DCWW CONTRACTOR TO MANAGE, SUPERVISE AND ASSIST UTS THROUGHOUT INSTALLATION OF FLOW-STOP APPARATUS AND UNDER-PRESSURE TEES AS REQUIRED
- SUPPLY AND INSTALL THRUST BLOCKS INCLUSIVE OF FORMWORK AS INDICATED IN DETAIL WMD0002138 002 & 003 - MINIMUM CURE TIME OF 72 HOURS REQUIRED BEFORE UNDERTAKING FLOW STOP CONTROL VALVES
- INSTALL SLUICE VALVES & HYDRANTS, INCLUSIVE OF CHAMBERS, COVERS AND FRAMES, AT LOCATIONS SHOWN ON AN EXCAVATE AND LAY BASIS
- WATER MAINS MUST HAVE 1200mm MINIMUM COVER FROM PROPOSED FINISH LEVELS

INSTALL WATER MAINS AS FOLLOWS

RUN	LENGTH	DIA	PIPE	INSTALLATION
A-B	363 m	315 mm	PURITON SDR17	EXCAVATE & LAY BASIS

- SWAB, PRESSURE TEST AND CHLORINATE THE NEW WATER MAIN

PHASE 2

- FOLLOWING SUCCESSFUL CHLORINATION OF MAIN, REMOVE SPADES AT POINTS 'A' & 'B' ON AN EXCAVATE AND LAY BASIS AND COMMISSION NEW MAIN
- FOLLOWING BACK TO BACK CONNECTIONS, LIAISE WITH LOCAL DCWW OPERATIONS TO UNDERTAKE VALVE OPS AT POINTS 'A' & 'C'
- INSTALL BLANK PLATES AT POINTS A & C UPON COMMISSIONING OF NEW WATER MAIN FOR ABANDONMENT OF PIPE TO BE DIVERTED.
- INSTALL HYDRANTS ON END EQUALISATION TEES FOR ISOLATION PROVING POINTS AS INDICATED ON DETAIL WMD0002048 003

THRUST BLOCKS REQUIRED

CONCRETE THRUST BLOCKS ARE TO BE GRADE C25 S3 100mm SLUMP

CONCRETE SHOULD BE READY MIX UNLESS STATED OTHERWISE

ALL CONCRETE THRUST AND ANCHOR BLOCKS ARE TO BE INSTALLED AS PER THE DESIGN DRAWINGS AND ANY SUPPORTING STANDARD DETAILS.

DCWW CONTRACTOR TO ENSURE THAT ALL PHASING INCLUDING ASSOCIATED CONCRETE CURING PERIODS ARE FOLLOWED AS LAID OUT ON CONTRACT DRAWINGS

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 **50m** HEAD.
3. ALL SLUICE VALVES TO BE ANTI-CLOCKWISE 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. ALL HPPE PIPEWORK AND FITTINGS TO BE 16 BAR SDR11 (MINIMUM) ITEMS UNLES OTHERWISE STATED. ALL DI FITTINGS TO BE NP16 (MINIMUM).
12. NO COST HAS BEEN INCLUDED FOR TREE REMOVAL WITHIN THE AREA.
13. LAND ENTRY PERMISSIONS MUST BE IN PLACE BEFORE COMMENCEMENT ON SITE
14. ALL HYDRANTS MUST BE VALVE CONTROLLED
15. ALL VALVES ON THE LIVE NETWORK TO BE OPERATED BY DCWW PERSONNEL ONLY
16. TESTING OF PIPE TO COMPLY WITH MS104 MINIMUM REQUIREMENTS.

NOTES

1DWR 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.

2EXACT LOCATIONS OF ALL APPARATUS TO BE DETERMINED ON SITE.

3REPRODUCED 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
279245,186239

4LOCATION OF CONNECTIONS TO BE CONFIRMED ON SITE.

5THE 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 TRUNK WATER MAIN
- TRUNK MAIN TO BE ABANDONED
- EXISTING DISTRIBUTION WATER MAIN
- PROPOSED WATER MAIN
- APPARATUS INSTALLED UNDER PHASE 1
- PROPOSED SLUICE VALVE/FLOW-STOP
- PROPOSED FIRE HYDRANT/ WASH OUT
- PROPOSED END CAP
- EXISTING SLUICE VALVE
- EXISTING FIRE HYDRANT/ WASH OUT
- PROPOSED TRIAL PIT

NOTE:

THIS DRAWING TO BE READ IN CONJUNCTION WITH SCHEME DRAWING WMD0002138 001, WMD0002138 003 & WMD0002138 004

01	DRAFT ISSUE	BK	SM	JD	15.11.21
ISSUE	DESCRIPTION	AUTH	CHK	APPD	DATE

CLIENT
SANDVIK OSPREY LTD

PROJECT
**SANDVIK OSPREY MARGAM,
HARBOUR WAY, MARGAM,
NEATH & PORT TALBOT
SA13 2NW**

TITLE
**PROPOSED OVERALL LAYOUT,
PHASE 2 FOR WATER MAINS
DIVERSION
SHEET 1 OF 4**

SCALE A1
1:1000, 1:200

**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
WMD0002138	002	01