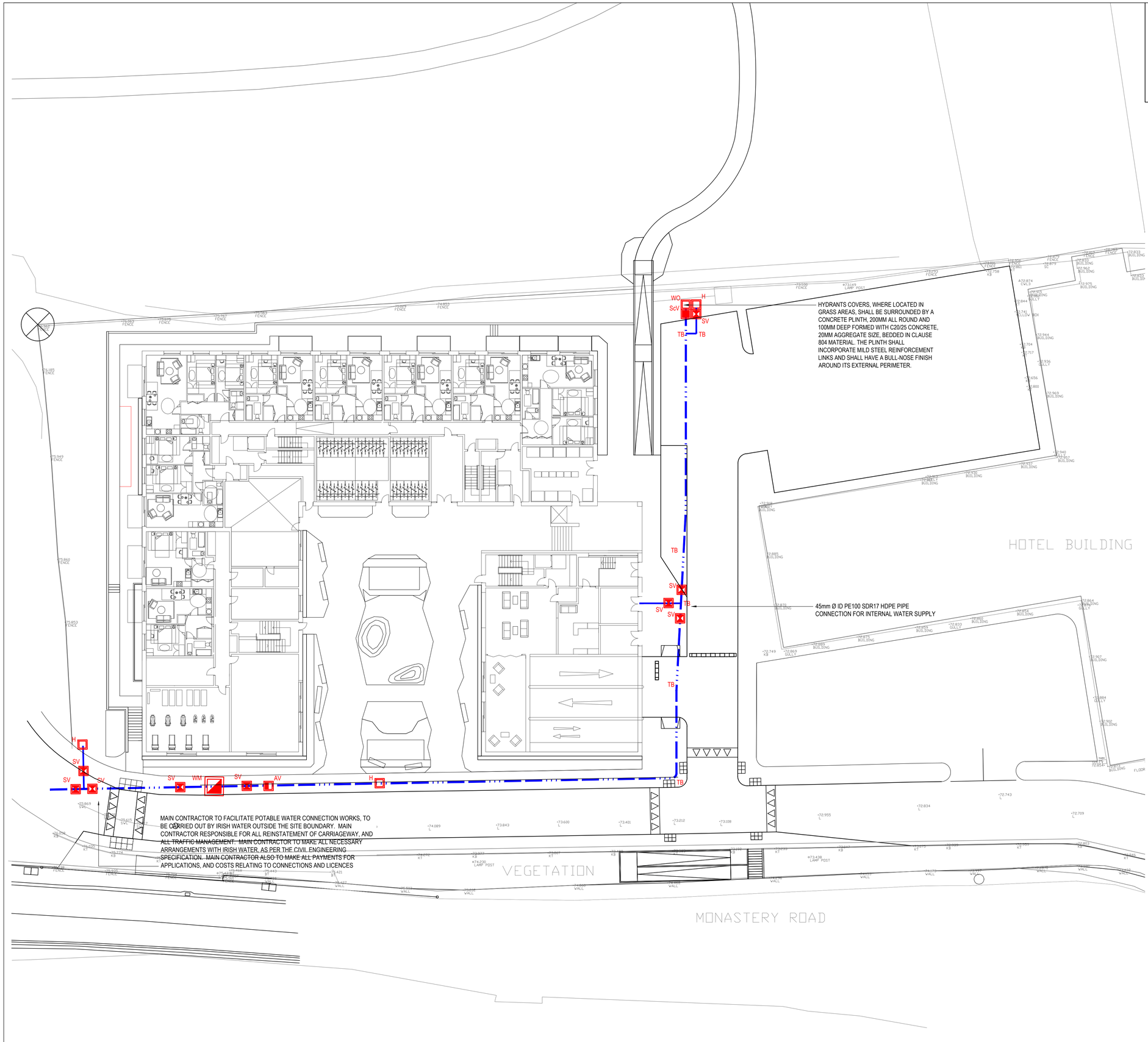

DO NOT SCALE FROM THE DRAWING. ONLY FIGURED DIMENSIONS ARE TO BE USED.

ALL DIMENSIONS ARE TO BE CHECKED ON SITE BY THE CONTRACTOR.

ALL DIMENSIONS ARE IN MILLIMETERS U.N.O.

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.

LEGEND

- EXISTING WATERMAIN
- PROPOSED WATER SUPPLY PIPE SUPPLY (200mm ID PE100 SDR17 HDPE PIPE WITH ELECTROFUSION JOINTS)
- SV — SLUICE VALVE FOR HDPE PIPE (<350mm Ø) IN A PRECAST CONCRETE CHAMBER
- H — ON-LINE HYDRANT FOR HDPE PIPE IN A PRECAST CONCRETE CHAMBER
- WO — ON-LINE WASH-OUT HYDRANT FOR HDPE PIPE IN A PRECAST CONCRETE CHAMBER
- AV — ONLINE AIR-VALVE
- ScV — ON-LINE SCOUR VALVE FOR HDPE PIPE IN A PRECAST CONCRETE CHAMBER
- WM — BULK METER CHAMBER (PIPE < 300mm Ø) AND ASSOCIATED TELEMETRY SYSTEM
- BB — BELOW GROUND BOUNDARY BOX
- TB — IN-SITU CONCRETE THRUST BLOCK

NOTES

WHERE PIPEWORK PASSES BENEATH THE BUILDING OR ANY STRUCTURE, IT MUST BE DUCTED USING A PIPE AT LEAST ONE SIZE LARGER - REFER TO DETAILS.

ALL WATER MAINS TO BE INSTALLED, TESTED AND COMMISSIONED IN ACCORDANCE WITH IRISH WATER 'CODE OF PRACTICE FOR WATER SUPPLY INFRASTRUCTURE'.

WATER MAIN TO BE INSTALLED IN PE100 HIGH DENSITY POLYETHYLENE PIPEWORK TO SDR17 (HDPE) JOINTS MADE USING ELECTROFUSION FITTINGS.

PIPE TRENCHES SHOULD BE PROTECTED FROM TREE ROOT INGRESS AS PER DETAILS.

PIPEWORK TO BE INSTALLED WITH MINIMUM RISE OF 1:500 ON UPWARD INCLINES AND MINIMUM FALL OF 1:300 WHERE THE RISING MAIN IS TO FOLLOW GROUND DOWNSLOPES.

MINIMUM COVER TO PIPE SHOULD BE 900mm.

THRUST BLOCK AT ALL CHANGES IN DIRECTION WHERE BENDS ARE USED ON THE PIPEWORK, IN EITHER THE VERTICAL OR HORIZONTAL PLANE

THRUSTS FROM BENDS AND BRANCHES SHALL BE RESISTED USING GEN3 CONCRETE THRUST BLOCKS, CAST IN CONTACT WITH UNDISTURBED GROUND.

PRIOR TO TESTING, THE SYSTEM SHALL BE JET CLEANED AND A CCTV PIPELINE SURVEY CARRIED OUT ALONG THE FULL LENGTH OF THE NETWORK.

PIPEWORK TO BE PRESSURE TESTED USING THE DUAL PRESSURE - LOG RECOVERY GRAPH TEST, AND SHOULD BE TESTED AFTER JOINTING AND BEFORE BACKFILLING IS COMMENCED.

PRESSURE TESTING TO BE IN ACCORDANCE WITH BS EN 805, AS DETAILED IN 'A GUIDE TO TESTING OF WATER SUPPLY PIPELINES AND SEWER RISING MAINS' PUBLISHED BY WRc.

TEST PRESSURE TO BE 1.5 TIMES MAXIMUM OPERATING PRESSURE AT LOWEST POINT OR MAXIMUM OPERATING PRESSURE PLUS MAXIMUM CALCULATED SURGE PRESSURE, WHICHEVER IS THE GREATER.

2 No. HARD COPIES OF THE DATA LOGGER PRINT-OUT SHOULD BE PROVIDED TO THE PROJECT CIVIL ENGINEER, FOR SUBMISSION TO IRISH WATER.

DISINFECTION OF THE WATER MAINS (INCLUDING CLEANING, SCOURING, SWABBING, AND DISPOSAL OF THE DISINFECTION WATER) SHOULD BE CARRIED OUT IN ACCORDANCE WITH IRISH WATER GUIDANCE.

2 No. HARD COPIES OF THE WATER SAMPLING TEST RESULTS SHOULD BE PROVIDED TO THE PROJECT CIVIL ENGINEER, FOR SUBMISSION TO IRISH WATER.

ALL TESTING MUST BE COMPLETE PRIOR TO FINAL CONNECTION TO PUBLIC WATER SUPPLY.

AN ACCEPTABLE ISOLATION DEVICE SHALL BE PROVIDED USING A CONNECTION VIA AN UNRESTRICTED AIR-GAP (AA TYPE DEVICE, IS EN 1717) TO PREVENT BACKFLOW FROM THE INTERNAL WATER DISTRIBUTION SYSTEM, IF REQUIRED

HAZARD IDENTIFICATION NOTES

1. WORKING ON LIVE SEWERS

Only personnel with confined space entry certification are permitted to enter manholes or similar confined spaces.

Site personnel to work in pairs at all times when working at live sewers here.

2. WORKING ON PUBLIC ROAD

All services should be traced and located on site prior to works commencing. this should include hand excavation to visually locate critical services. All excavation should be carried out on the basis that unknown services are present until confirmed otherwise.

3. STABILITY OF PLANT

Only certified, experienced drivers are to operate plant on site. Appropriate certificates for plant operators must be included in the health and safety plan for inspection.

Movement on slopes is to be restricted to up and down the bank only. If steep they must not be traversed.

4. WORKING AT HEIGHT

Contractor to provide safe working platforms, and secure edge protection, to the sides of all working excavations.

5. STABILITY OF EARTH FACE

Site investigation to be referenced.

Excavations greater than 1.2m should be supported by timbering and props or similar proprietary system.

Spoil should not be heaped immediately to the side, a gap equal to the depth of excavation should be left.

All open trenches or holes should be protected with barriers to prevent site personnel and plant falling in.

Trench fill excavations should be refilled with concrete as they are excavated.

6. DRAINAGE WORKS

The drainage works will require deep excavations. as per usual work methods, any excavation over 1.2m must have side support and works must be undertaken in accordance with standard safe working practices. In certain ground conditions support will be required for trenches less than 1.2m.

The contractor must employ suitable techniques for the ground conditions encountered and provide suitable detailed method statements.

7. DISPOSAL OF SOIL

Information is not currently available to determine if contamination is a problem. The contractor cannot assume that the ground is contamination free. Investigations must be undertaken before construction commences and the spoil dealt with accordingly.

OR

The ground is known to contain contaminants harmful to human, plant and animal life. Contamination experts must be used to deal with this material and materials must only be moved to licenced contamination dumps. Proof will be required.

NOTE:

EVERYDAY OR LOW RISK HAZARDS HAVE NOT BEEN INDICATED ON THIS DRAWING, NEITHER HAVE HAZARDS THAT SHOULD BE OBVIOUS TO A COMPETENT CONTRACTOR.

Rev	Amendment	Date	By	Chk
P4	ISSUED FOR PLANNING	09.09.22	CPL	AnH
P3	ISSUED FOR PLANNING	08.09.22	CPL	AnH
P2	ISSUED FOR PLANNING IW COMMENTS	29.07.22	CPL	AnH
P1	ISSUED FOR PLANNING	22.10.21	CPL	AnH

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Status: FOR APPROVAL

Project: RESIDENTIAL ACCOMMODATION, MONASTERY ROAD, DUBLIN

Dwg Name: WATER SUPPLY LAYOUT

Client/Architect: DUDDY GROUP / SHANE BIRNEY ARCHITECTS

Scale: (@ A1)	Date:	Drawn:	Checked:
1:200	OCTOBER 2021	CPL	AnH

Drawing No: 19818-(P1)C300 Rev: P4