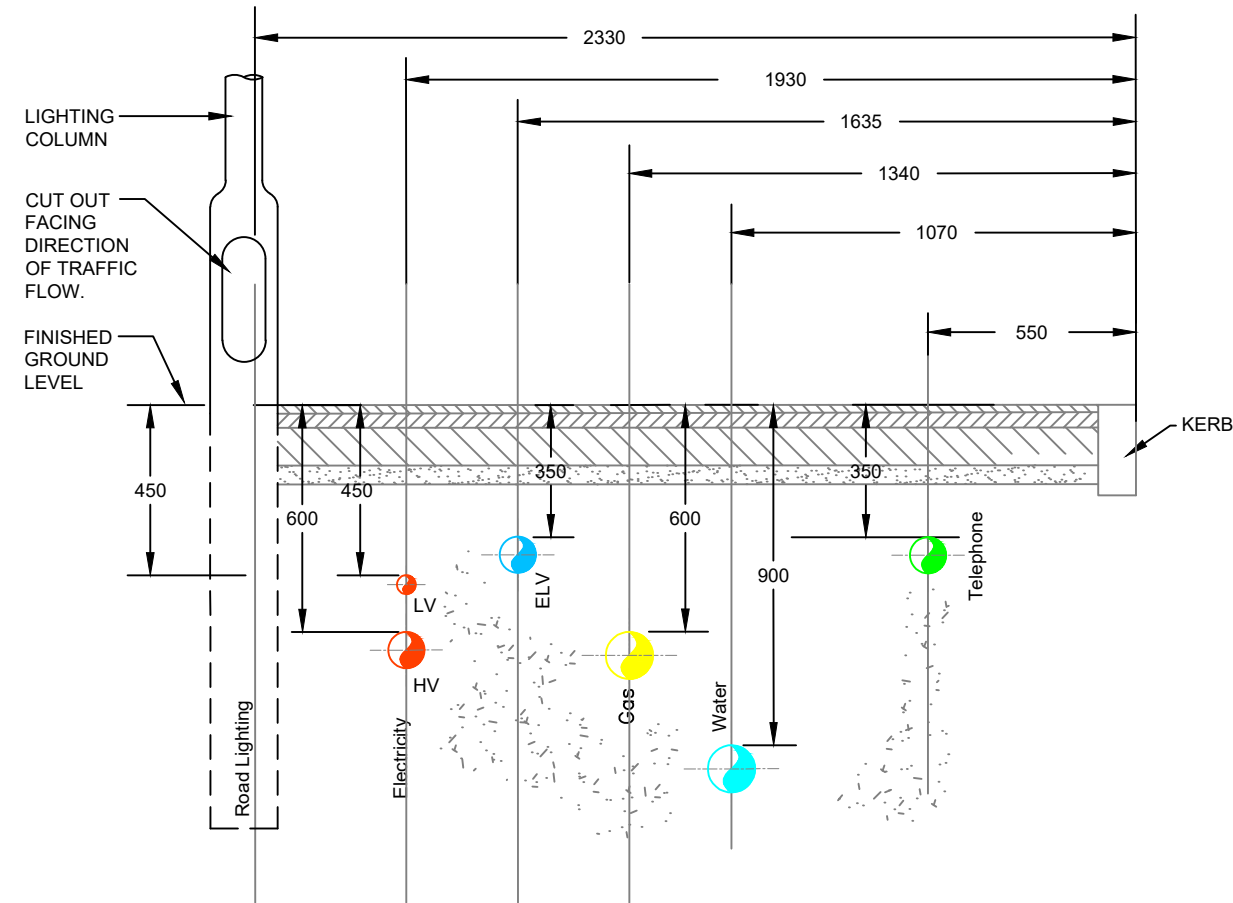
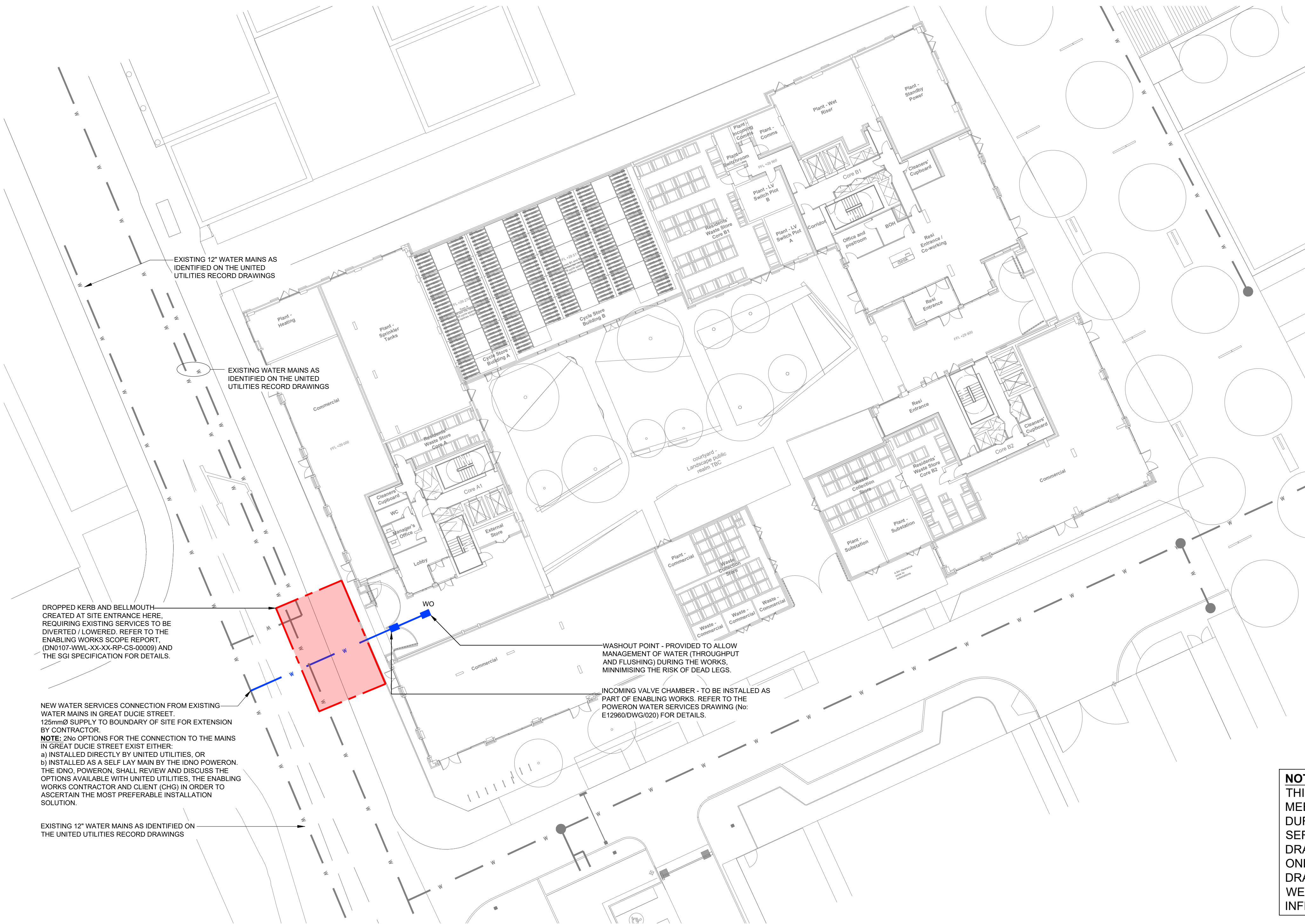




TYPICAL MINIMUM BELOW GROUND SERVICES DEPTHS AND SEPARATION DETAIL WITHIN FOOTWAY (NTS)



GENERAL NOTES

- THIS DRAWING INDICATES DESIGN INTENT ONLY. THE IDNO, POWERON, SHALL DEVELOP THE DESIGN TO PRODUCE THE COORDINATED SPECIFIC DESIGN IN LINE WITH THE REQUIREMENTS OF BG6, INCLUDING INVERT LEVELS AND FINAL COORDINATION WITH THE SITE DRAINAGE INSTALLATION.
- DO NOT SCALE FROM THIS DRAWING IN PAPER OR ELECTRONIC FORMAT.
- REFER TO ALL ASSOCIATED WALLACE WHITTLE SPECIFICATION, SCOPE DOCUMENTS AND OTHER DRAWINGS AS WELL AS CIVIL AND STRUCTURAL, AND LANDSCAPE DESIGN INFORMATION.
- THE IDNO, POWERON, SHALL CONFIRM ALL PIT DETAILS, VALVE CHAMBERS, AND BURIAL DETAILS AS PART OF THEIR WORKS.

WATER SERVICES NOTES

- THIS DRAWING PROVIDES THE PRINCIPLES OF DISTRIBUTION FOR THE SITE WIDE MAINS WATER SERVICES ONLY, WHICH ARE TO BE INSTALLED AS PART OF THE PROJECTS ENABLING WORKS PACKAGE.
- EXTERNAL WATER SUPPLY PIPEWORK TO BE BLUE H.P.P.E. BARRIER PIPE, SUITABLE FOR HIGHLY AGGRESSIVE CONTAMINATED SOIL. ALL INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. JOINTING SHALL BE BY USE OF ELECTRO FUSION FITTINGS, AT BRANCHES, TEES, VALVES, BUTT WELD ON MAIN LINE JOINTS, THRUST BLOCKS TO BE PROVIDED AT BENDS AND JUNCTIONS AS REQUIRED. REFER TO THE POWERON SPECIFICATION AND DRAWINGS FOR FURTHER DETAIL.
- THE INSTALLATION SHALL COMPLY IN ALL RESPECTS WITH THE REQUIREMENTS OF B.S. 9990 & B.S. 5306, BS EN 806, THE WATER REGULATIONS AND APPLICABLE UNITED UTILITIES POLICIES AND SPECIFICATIONS. INSTALLATION OF WATER SERVICES PIPEWORK IN RELATION TO OTHER SERVICES TO BE IN ACCORDANCE WITH NJUG STANDARDS.
- LOCATION OF WATER METERS TO BE AGREED WITH UNITED UTILITIES & THE IDNO, PRIOR TO THE INSTALLATION PROCEEDING ON SITE.
- ALL HYDRANTS TO BE INSTALLED IN ACCORDANCE WITH BS 9990 BS 750, AND THE CURRENT EDITION OF PART 8 OF THE BUILDING REGULATIONS. LOCATIONS TO BE CONFIRMED BY FIRE OFFICER IN CONJUNCTION WITH THE ARCHITECT AND BE CONFIRMED PRIOR TO INSTALLATION COMMENCING. LOCATION OF ALL FIRE HYDRANTS ARE SUBJECT TO CONFIRMATION THROUGH THE FIRE STRATEGY AND FIRE OFFICER/BUILDING CONTROL OFFICER.
- PEAK FLOW RATES ARE BASED UPON ESTIMATED STORAGE TANK REPLENISHMENT / RE-FILL TIMES AT APPROX. 4-HOURS. FLOW RATES FOR COMMERCIAL UNITS ALLOWED AT CIRCA 0.5 l/s EACH. SUBJECT TO CONFIRMATION ON THE COMMERCIAL UNIT USAGE. FIRE MAINS FLOW RATE TO SUPPORT HYDRANT SUPPLIES IS 25.0 l/s (1500 l/min) TOTAL PEAK ESTIMATED DEVELOPMENT FLOW RATE IS CIRCA 29.4 l/s. A PRE-DEVELOPMENT APPLICATION HAS BEEN MADE TO UNITED UTILITIES IN ORDER TO CONFIRM THAT THE EXISTING INFRASTRUCTURE HAS CAPACITY TO BE ABLE TO SUPPORT THE DEVELOPMENT WITHOUT THE REQUIREMENT FOR NETWORK RE-ENFORCEMENT. A RESPONSE FROM UNITED UTILITIES IS AWAITED.
- LOCATION OF INCOMING SERVICES ARE INDICATIVE & SUBJECT TO DEVELOPMENT ALONGSIDE THE INTERNAL ARCHITECTURAL DETAILING DURING THE NEXT STAGES OF DESIGN DEVELOPMENT.
- NO DEAD LEGS SHALL BE PROVIDED ON THE NEW WATER MAINS INSTALLATIONS.
- THE OMISSION OF ANY OTHER UTILITY/SERVICE INFORMATION FROM THIS DRAWING DOES NOT IMPLY THAT THE UTILITY/SERVICE DOES NOT EXIST, ONLY THAT EXISTING INFORMATION HAS NOT BEEN PROVIDED BY THE UTILITY ORGANISATION OR AS PART OF THE GPRS SURVEY UNDERTAKEN.
- THE INFORMATION ON THIS DRAWING IS ISSUED ONLY FOR REFERENCE AND DOES NOT RELEASE THE CONTRACTOR FROM THEIR OBLIGATIONS IN RESPECT OF HEALTH & SAFETY WORKING PRACTICES OR LIAISON WITH ALL UTILITIES AS REQUIRED BY EACH UTILITY PARTY.
- THE INFORMATION SHOWN ON THIS DRAWING SHOULD NOT BE TAKEN AS REPRESENTING TRUE OR ACCURATE INFORMATION, THIS REQUIRES TO BE CONFIRMED BY THE CONTRACTOR THROUGH THE UTILITY COMPANIES AND IN ACCORDANCE WITH THE CONTRACTOR'S OWN PROCEDURES FOR IDENTIFYING, LOCATING, AND CONFIRMING EXISTING UTILITIES SERVICES.
- IT IS THE RESPONSIBILITY OF OTHERS TO ARRANGE FOR SITE CLEARANCE WORKS AND UTILITY DIVERSIONS. THIS DRAWING HAS BEEN PRODUCED TO ASSIST IN THIS, AND TO HIGHLIGHT EXISTING ROUTES OF EXISTING UTILITIES WITHIN THE SITE BOUNDARY. COMMUNICATION HAS BEEN OPENED WITH THE VARIOUS UTILITY PROVIDERS IN ORDER TO ASCERTAIN DIVERSION WORKS, NEW CONNECTION POINTS AND POSSIBLE ROUTES.
- ALL SERVICES SHOWN ON THIS DRAWING (EXISTING AND PROPOSED) ARE INDICATIVE ONLY AND REPRESENT THE INFORMATION AVAILABLE TO WALLACE WHITTLE AT THE TIME THIS DRAWING WAS COMPLETED.

LEGEND:

- W — EXISTING COLD WATER MAINS
- W — NEW COLD WATER MAINS
- FM — FIRE MAINS
- BMS DUCT
- IV — ISOLATING VALVE
- DOUBLE CHECK VALVE
- WATER METER
- FH — FIRE HYDRANT
- VALVE CHAMBER
- WO — WASHOUT POINT
- DENOTES LOCATION FOR DROPPED KERB AND CREATION OF BELLMOUTH INTO SITE BOUNDARY

NOTE:
THIS DRAWING HAS BEEN PRODUCED FOLLOWING A REVIEW MEETING WITH POWERON AND CHG ON 10.07.23. AS AGREED DURING THE MEETING THE DESIGN OF ALL EXTERNAL WATER SERVICES IS TO BE DEVELOPED BY POWERON AS THE IDNO. THIS DRAWING INDICATES THE ENABLING WORKS DESIGN INTENT ONLY. PLEASE REFER TO THE POWERON SPECIFICATION, AND DRAWINGS FOR DETAILS OF THE INCOMING WATER SERVICES AS WELL AS CONNECTIONS BACK TO THE EXISTING MAINS WATER INFRASTRUCTURE.

Wallace Whittle Ltd operates a Building Information Modelling (BIM) Level 2 - Business System in accordance with ISO 19650-2 and a Quality Management System certified to ISO 9001.



DETAILS SHOWN FROM OTHERS WITHIN THE DESIGN TEAM ARE FOR REFERENCE ONLY THE DRAWING SHOULD BE READ IN CONJUNCTION WITH THE ORIGINAL DOCUMENT.

DO NOT SCALE FROM THIS DRAWING.

LINKED INFORMATION

DISCIPLINE	DRAWING NO.	ISSUE DATE	REV
SURVEY	20838:200-1:1:TOPO-UTIL	08.10.21	1

REVISIONS

REV	DATE	DESCRIPTION	ENG	APP
P01	11.07.2021	RIBA STAGE 2 ISSUE	DVDC	NCPU



Client.
BODDINGTONS MANCHESTER

Service.
PUBLIC HEALTH

Drawing Status.
STAGE 2



Mechanical • Electrical • Public Health Consulting Engineers

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Eng / CAD: **DY/DY** Checked: **NC/PU**

Title:
SITEWIDE COMBINED UTILITIES AND SERVICES MCWS & FIRE SUPPRESSION ENABLING WORKS INFRASTRUCTURE

Scale(s): **1:250 @ A1** Date: **JULY 2023**

Internal Project No: **W9050** Revision: **P01**

Drawing No:
DN0107-WWL-ZZ-ZZ-DR-P-96005