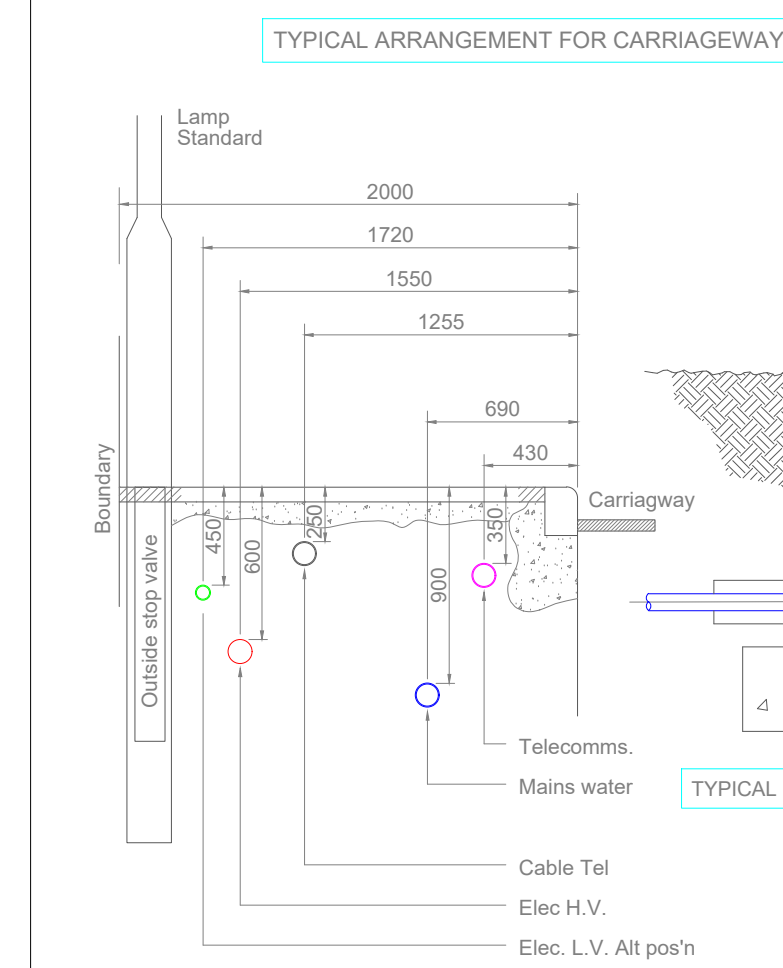
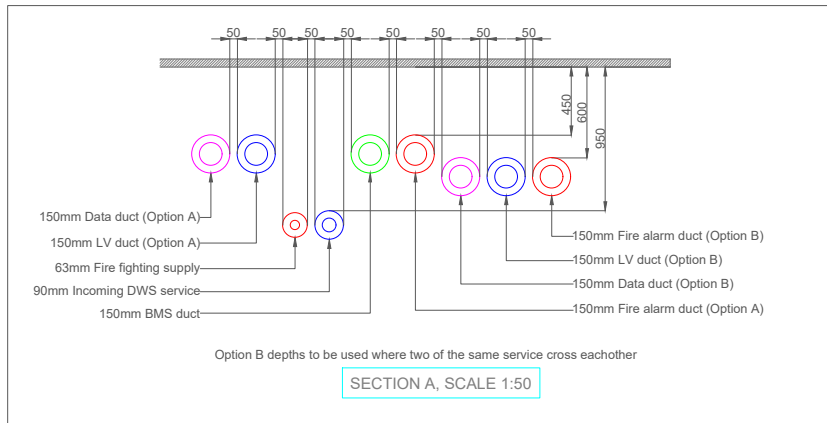
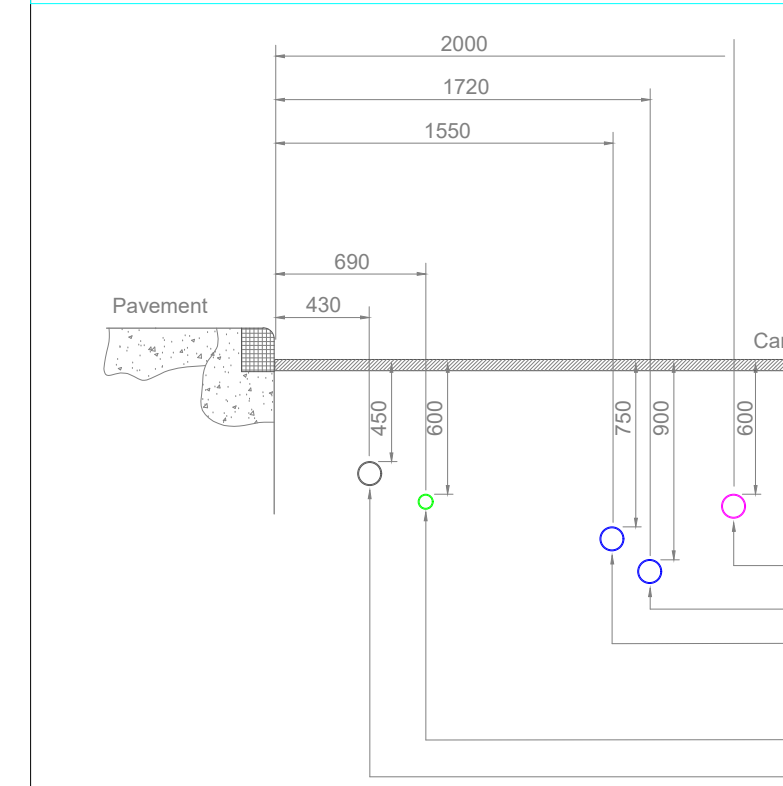
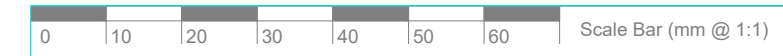




Filename: f:\projects\7231 - heronsbridge school\03_cad\03_incoming\heronsbridge.mcp-zz-xx-d-z-009000.dwg

Last Saved by: robert.smith

Plotted by: robert.smith

Safety, Health & Environmental Information	
In addition to the hazards / risks normally associated with the types of work detailed on this drawing, note the following:	
Construction 1. Refer to designers risk register, construction risk register And asbestos register	
Maintenance / Cleaning 1. Refer to designers risk register, construction risk register And asbestos register	
Decommissioning / Demolition 1. Refer to designers risk register, construction risk register And asbestos register	
It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement	

DCWW Easement for existing below ground drainage. Coordination of services above easement to be agreed with DCWW.

From Top to Bottom:
1No. 100mmØ Comms Cable Duct
1No. 150mmØ LV Cable Duct

From Top to Bottom:
1No. 150mmØ LV Cable Duct
1No. 100mmØ Comms Cable Duct

From Top to Bottom:
1No. 100mmØ Comms Cable Duct
1No. 150mmØ LV Cable Duct

2No. CT HTG F&R pipework run below ground from ASHP compound to plantroom
New protectaline domestic water main to plant room

Cat-5 supply from plantroom to binstore bib tap.

BMS duct from plant room

1No. 150mmØ LV Cable Duct
1No. 150mmØ LV Cable Duct
1No. 100mmØ Comms Duct to Horticultural Office.
Office to be provided with Electrical

Cat-5 supply from plantroom to horticultural garden bib tap.

Indicative tank sizes and location only.
To be developed by sprinkler specialist.

12m x 10m ASHP compound proposed location

2No. 150mmØ LV Cable Ducts
- 1No. Dedicated to LV Supply to the Energy Centre
- 1No. Dedicated to LV Supply to EV Charger Feeder Pillar

3No. 150mmØ to be dedicated for LV Supply to the Main School Building

Proposed location of the HV RMU, HV Metering and LV Substation

Refer to drawing HER-MCP-ZZ-XX-D-Z-009001 for external services of the Residential area of the development.

BT Openreach Kiosk. Refer to Quote: BNP/02C

1No. 90mmØ Incoming BT Cable Duct from BT Kiosk on site boundary.

1No. 150mmØ LV Cable Ducts
- 1No. Dedicated to LV Supply to the Energy Centre
2No. 150mmØ LV Cable Ducts
- 1No. Dedicated to LV Supply to the Energy Centre
- 1No. Dedicated Lighting and Power

1No. 150mmØ LV Cable Duct. Dedicated to LV Supply to EV Charger Feeder Pillar

New Welsh water main extended from existing network.

Welsh water main extended from existing water network

4No. 150mmØ LV Cable Duct
- 1No. Dedicated for LV Supply to the Energy Centre
- 1No. Dedicated to LV Supply to EV Charger Feeder Pillar
- 2No. Lighting and Power

BMS Duct to water meter

Client pulsed output water meter c/w IV & DCV for leak detection at site boundary

Welsh water meter at site boundary

New MDPE unmetered sprinkler main from extended welsh water network to sprinkler tank (refer to sprinkler specialist design).

New MDPE domestic water main from welsh water network

Indicative incoming HV Connection derived from National Grid Network. Refer to Quote: 2069624

- This is not an installation drawing.
- The final coordination of services, specialist Sub-Contractors, and building structure is the responsibility of the building services Contractor.
- Do not scale from this drawing.
- This drawing shall be read in conjunction with the MEP Specification.
- The installation of services shall be in compliance with the workmanship clauses detailed in the Specification.

Notes

1. The adjacent layout is for indicative purposes only and utility routes are shown for information purposes only. The drawing must be read in conjunction with all utility suppliers' quotations and layout drawings.
2. Exact locations of all services shall be fully co-ordinated and set out on site. The contractor shall liaise closely with the statutory authorities regarding the incoming services connections and include for all required attendances, trenching, ducting and containment.
3. All ducts shall be of twin wall high density polyethylene (HDPE) construction and coloured as follows:
 - Electricity and low voltage - Black
 - Telecommunications - Green
 - ELV Services - Black
4. All ducts shall be installed complete with draw cords and slow radius bends
5. All ducts comply with the requirement of BSEN 50086-2-4, and duct stiffness shall be selected to suit site conditions, where minimum stiffness shall not be less than 500kPa.
6. All ducts shall be installed at the depths indicated within the NJUG guidance and provided with appropriate marker system.
7. All ducts shall be installed in line with the latest NJUG guidance on the positioning and colour coding of underground utility apparatus.
8. Extra low voltage and low voltage services to be run in separate ducts throughout site.
9. The contractor shall liaise closely with all service providers to carefully co-ordinate the infrastructure installation.
10. The contractor shall coordinate the quantity and locations of all draw pits throughout the site based on installation of the incoming and outgoing MEP services.

Legend

- DATA 100mmØ Comms Duct
- BT BT BT Fibre 90mm Duct
- LV 150mmØ Dedicated LV Duct
- LV 150mmØ Dedicated LV Duct to serve Buildings
- HV New NGED HV proposed incoming cable
- DP1 LV Cable Duct Drawpit 600x600
- DP2 Comms Cable Duct Drawpit 300X300
- TPN Distribution Board
- 7kW Twin EV Charger
- Site Boundary
- BMS BMS
- HW Hot Water Services
- DCWW Welsh Main Water Services
- DWS Domestic Water Services
- HTG Heating Services
- FFS Fire Fighting Services
- FA Fire rated cable route

Stage 4 Issue Updates with updated residential blocks	RS/ WA	Aug 26	P05
Stage 4 Issue	RSM	Jun 26	P04
Issued for Final Planning Application	RSM	May 26	P03
Stage 3 amendments	RSM	Mar 26	P02
Issued for Planning	RSM	Feb 26	P01
Details	Eng	Date	Rev

Revisions

Consulting Engineers Faraday House, Terra Nova Way Penarth Marina, Cardiff CF64 1SA Tel. (029) 2035 2450 Fax. (029) 2035 2451 www.mccannp.com office@mccannp.com	
Job Title	



Heronsbridge School

Drawing Title
M&E Engineering Services
External Incoming & Site Services

Scale	@ A1	Date	Authorised	Checked	Engineer	Drawn
1:500		Feb 26	CM	DY	RSM	RSM
McCann Ref	Status	Suitable for Review & Comment		Status Code Revision		
7231				S4	P05	
Project	Origin	Volume	Level	Type	Discipline	Number
HER	MCP	ZZ	XX	D	Z	009000