

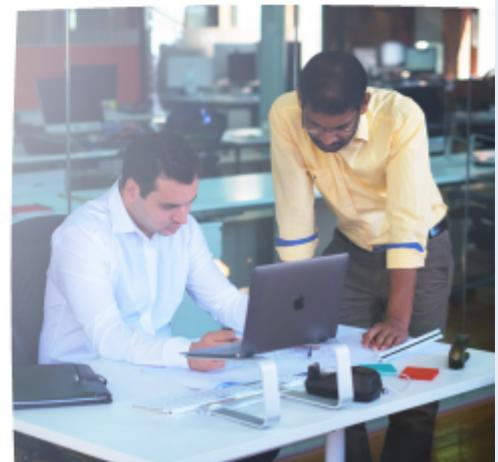


Infrastructure Management Plan

President Private Hospital
SYD20216



Services



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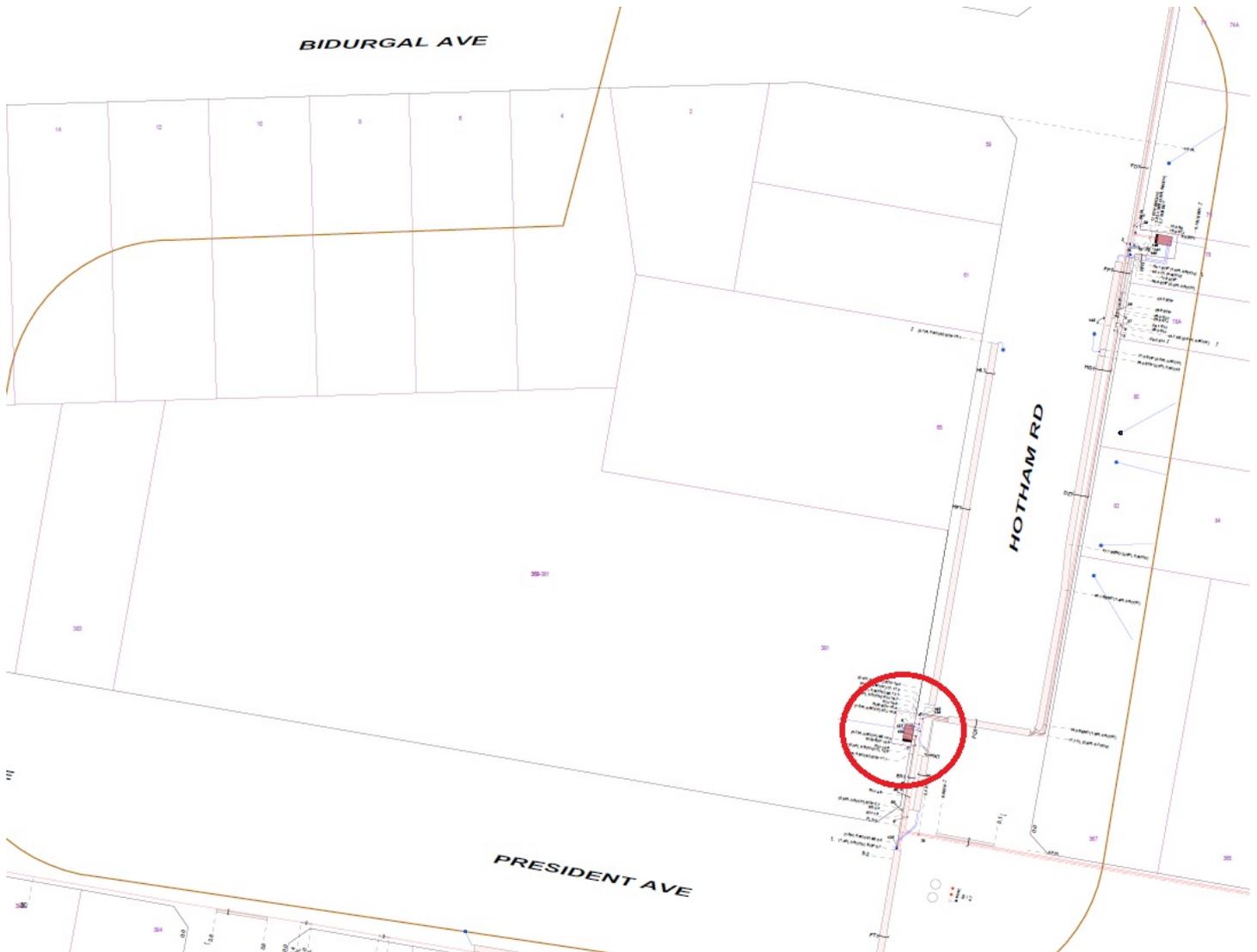
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1. electrical services

1.1 existing infrastructure

There is one existing Ausgrid substations supplying the existing hospital. The site plan below provides clarification of site supply location. No information has been able to be obtained at this time verifying the reticulation pathways within the boundaries of the site. Further investigation or supply of As Installed documentation will need to be considered if this becomes relevant for the application.



The existing switchboards surveyed are considered to be in good working order and functioning. However, the operation life of some is considered to be limited and will require upgrade and/or replacement. Further, some electrical componentry has reached its service life and will also require replacement. This will be addressed as part of the future design and construction scope for the project. New metering arrangements for the new buildings will also be organized.

1.2 new infrastructure

The point of electrical supply to be new hospital needs to be confirmed by Ausgrid and/or the Level 3 designer. An application has been made to Ausgrid. It is anticipated that two kiosk substations will be required to supply the new development. It is possible that the existing kiosk substation may be reissued or upgraded. Alternatively two new kiosk substations will be required. The substations will be located relatively close to the new hospital on Hotham Road.

All construction within the 3 metre zone from the kiosk easements needs to be 3 hour fire rated, and incorporate blast rated structures (no windows are allowed within this zone). No structures are allowed within 6m (vertically) of the entire easement from ground level. Building mechanical intake or exhaust ventilation is not permitted within 6 metres of the housings of the substations. The substation site needs to be: inside the property boundary; flat and level with street level (provide retaining walls if required); free of any (underground) services and landscaping; at least 10 metres away from communications pits and firefighting services (e.g. hydrants, boosters, etc.); and minimum 300mm above 1 in 100 year flood line.

The new building will require one or two new main switchboards (MSBs) in the basement. The MSBs needs to be housed in a dedicated main switchroom. The switchroom must be 2 hour fire rated and have 2 hour fire rated self-closing fire doors. It requires 2 emergency exit paths. Doors need to open in the direction of egress (outwards) without the use of a key or tool. The doors should be spaced well apart (i.e. on opposite side of the room). Doorways should be at least 0.9m wide by 2.2m high.

2. hydraulic services

2.1 existing hydraulic systems overview

From the information gathered and received, we can ascertain the hydraulic infrastructure appears to be original base-build throughout the existing areas of the site.

All pressure service connections appear to originate from President Avenue and reticulate through the site to serve the existing facilities

A 225mm diameter Authority Sewer Main traverses the south western corner of the site from the southern boundary through to the western boundary. The existing facility appears to connect to this sewer main.

2.2 water supply

The Project has frontage to the 200mm diameter water reticulation infrastructure located on President Avenue along the southern boundary of the site.

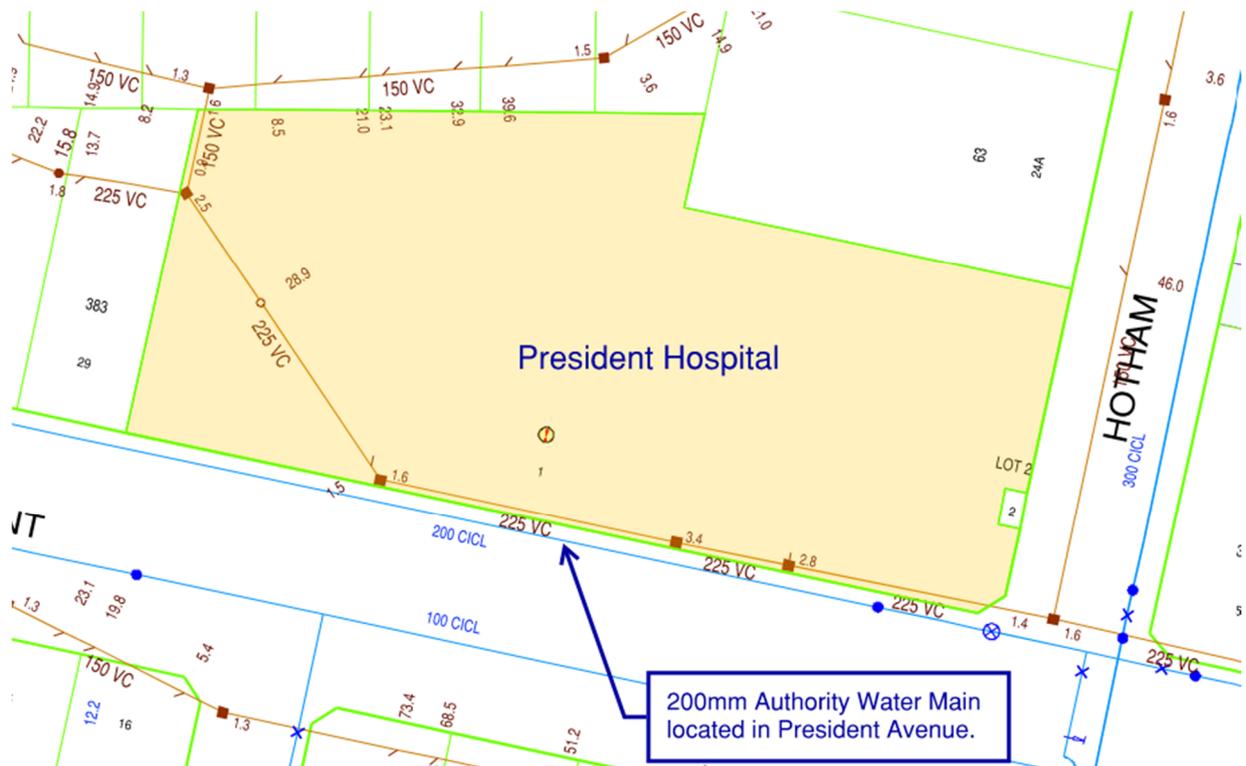
There is an existing 50mm water meter serving the facility located on President Avenue. The water meter is located approximately 30m west from the intersection of President Avenue and Hotham Road. The existing 50mm supply is not adequate for the new development, and the service will require upgrading.

Backflow protection is provided upstream from the existing 50mm water meter; This consists of a single RPZD device. New dual RPZD's to be provided to suit the new water service. Dual RPZD's are recommended to prevent complete shutdown of the water supply during maintenance of the devices.

A Section 73 Application is required upon receipt of the Development Application Conditions to confirm the existing Authority Water Main located in President Avenue has the capacity to suit the proposed facility. Based on the size of the existing main, it is assumed the main has sufficient capacity, and no upgrades are required.



Existing water meter and gas meter location



Sydney Water "Hydramap"

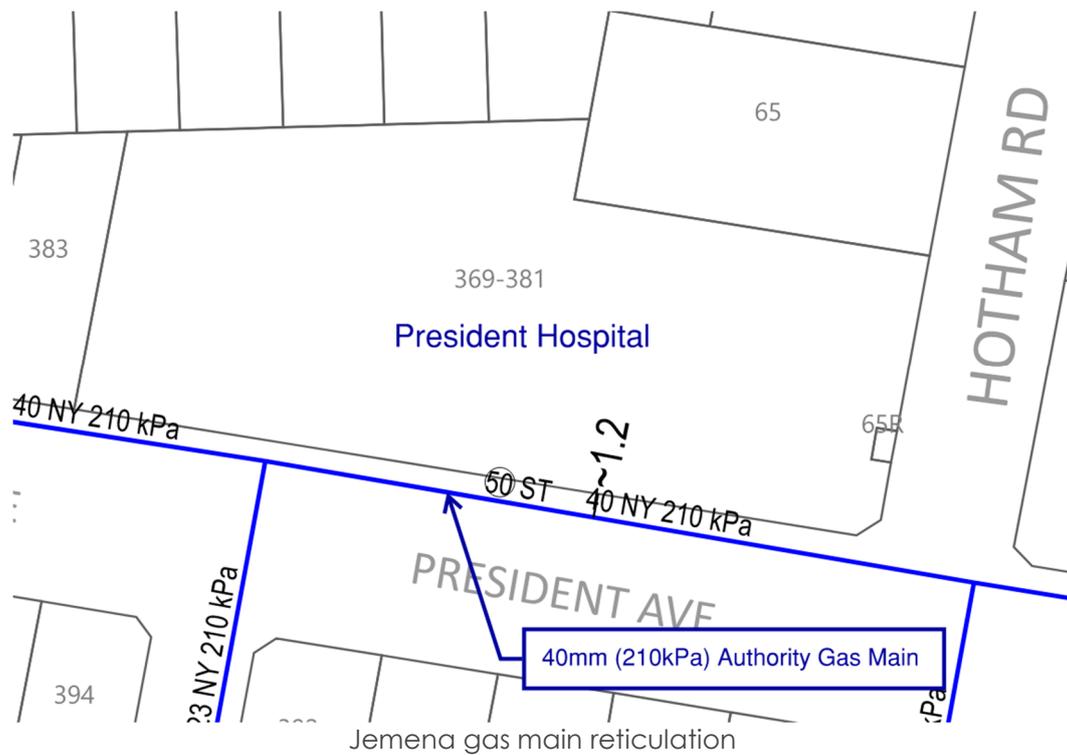
2.3 Gas supply

The Project has frontage to the 40mm diameter high pressure (210kPa) gas reticulation infrastructure located on President Avenue along the southern boundary of the site.

The existing installation consists of an AL-1000 gas meter which is supplying 21M³/hr (approximately 813MJ/hr) to the existing facility. The gas meter and regulator are in the same location as the water meter. Subject to the gas requirements of the proposed facility, it is likely the gas meter set and pipework require upgrading.



Existing gas meter



2.4 Fire Hydrant Service

The existing facility does not contain any on-site Fire Hydrants for fire hydrant coverage. Based that no on-site fire hydrants are installed, fire hydrant protection is provided from the existing street hydrants located on President Avenue and Hotham Road.

The new facility will require on-site fire hydrants to achieve fire protection to all areas of the proposed buildings. The system will consist of a Fire Hydrant Booster assembly, hydrant pump set and reticulated pipework throughout the facility in accordance with the relevant codes.

A new 150mm connection to water main located in President Avenue is required to serve the fire hydrant service.

Water supply pressure and flow characteristics to be confirmed and the modelling by Sydney Water to determine the main is capable of supporting the required flows for the project.

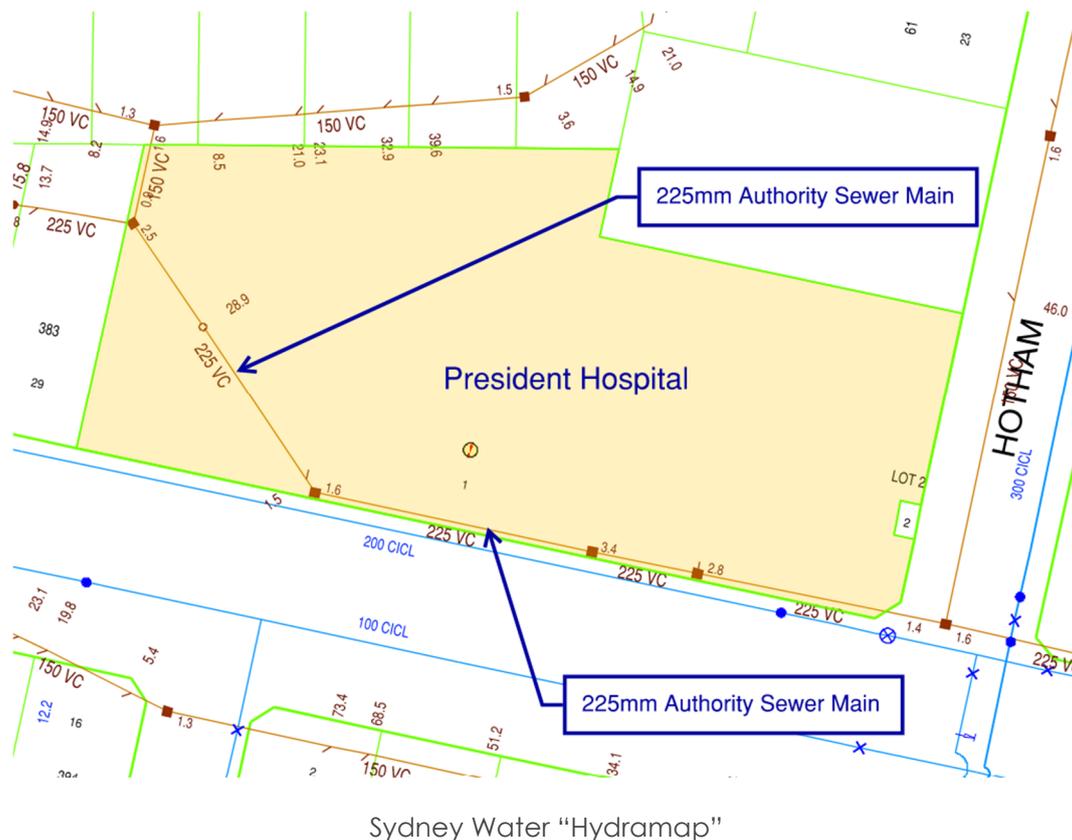
2.5 Fire Hose Reel Service

The existing facility contains Fire Hose Reels in various locations providing coverage as required. New Fire Hose Reels will be required to provide compliant coverage in accordance with the relevant codes,

2.6 sewer drainage

There is an existing Sydney Water sewer main located on-site, we recommend engaging a Sydney Water approved surveyor to "Peg-Out" (survey) the existing sewer.

A Section 73 Application is required upon receipt of the Development Application Conditions to confirm the existing Authority Sewer Main/Water Main has the capacity to suit the new facility. Based on the size of the current main, it is considered the main has sufficient capacity, and no upgrades will not be required.



3. fire services

3.1 Existing fire sprinkler services overview

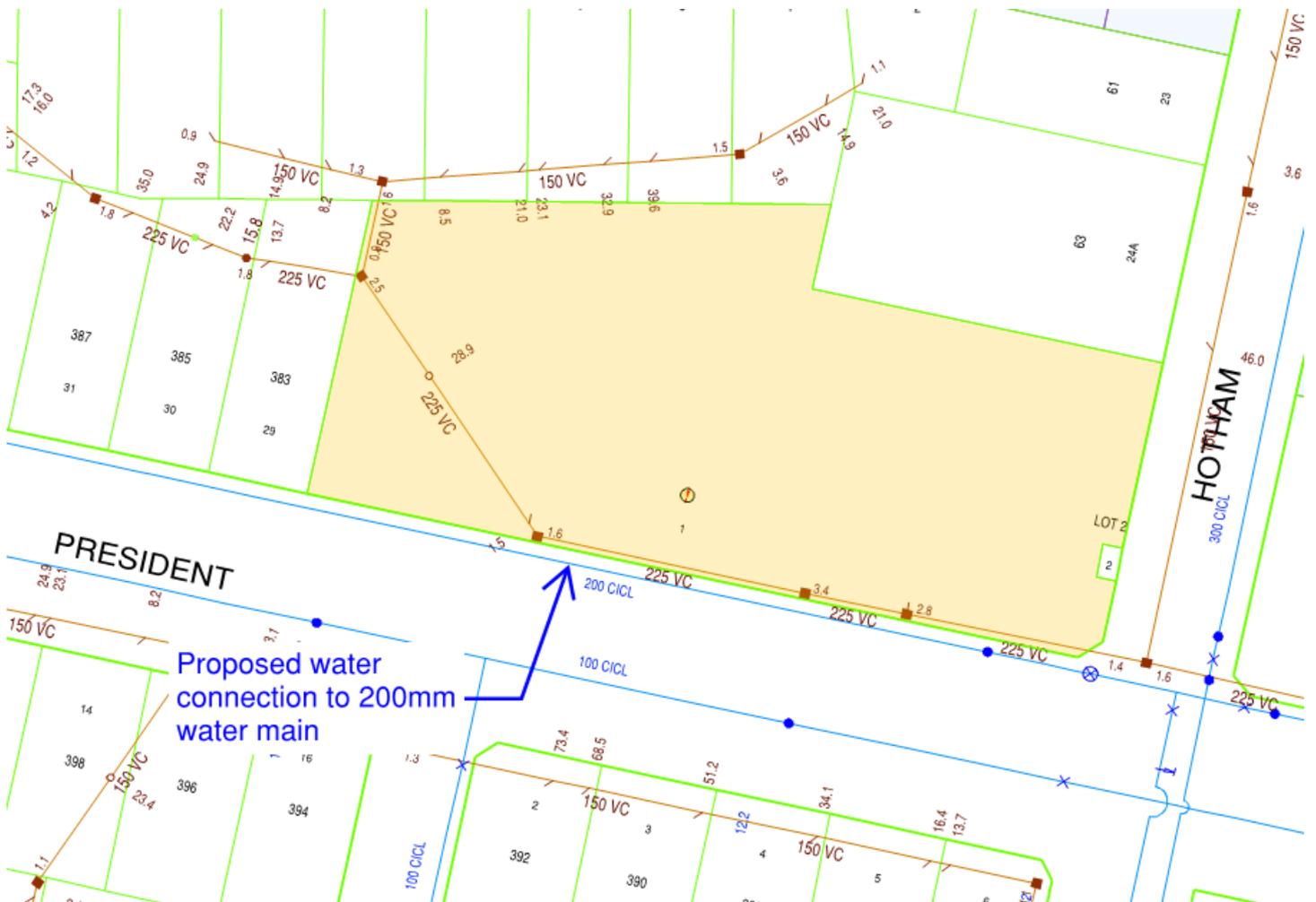
From the information gathered and received we can ascertain there is no fire sprinkler services to the existing building.

3.2 Fire sprinkler services infrastructure

A new 100mm diameter water main will be connected from the 200mm street main located on President Ave.

Water supply pressure and flow characteristics to be confirmed by Sydney Water that the street main being capable of supporting the required flow for simultaneous operating of hydrant system and the sprinkler system up to Ordinary Hazard 2 Occupancy.

The new 100mm water connection will connect to the Fire sprinkler Booster assembly and to the fire pump room which accommodates a set of fire sprinkler pump.



3.3 Existing Dry fire services overview

The existing Fire indication panel and EWIS panel in the main building are to be upgraded to accommodate the increased zones.

The existing Alarm Signal Equipment connected to the external fire monitoring services provider shall be retained.