



We are investing into the future of agricultural education at Hurlstone Agricultural High School

Late 2019	Early 2020	WE ARE HERE		Late 2020	Early 2021	Mid 2021
Early design	Master planning					Delivery commencement
New model for state-wide agricultural education announced	Consultation with school staff, students, parents and carers, alumni and industry	Reviewed feedback, consulted with industry experts and Department of Education staff	Developed masterplans with proposed farm and boarding upgrades	Community consultation	Business case lodged	Concept design development

The proposed upgrade will continue Hurlstone's legacy and support contemporary agricultural education.

Students will benefit from the proposed:

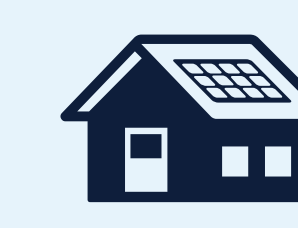
- new farm facilities, including fit for purpose farming technology
- new farm layout including a centralised farm hub
- new and upgraded boarding, to accommodate up to 180 boarders

This proposal was influenced by:

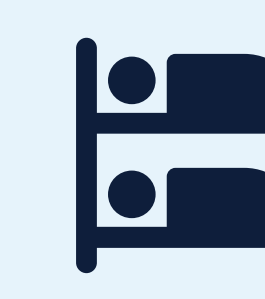
- community and stakeholder consultation from early 2020
- agricultural industry expertise
- educational needs and rationale from the Department of Education.



New farm facilities



A new farm layout

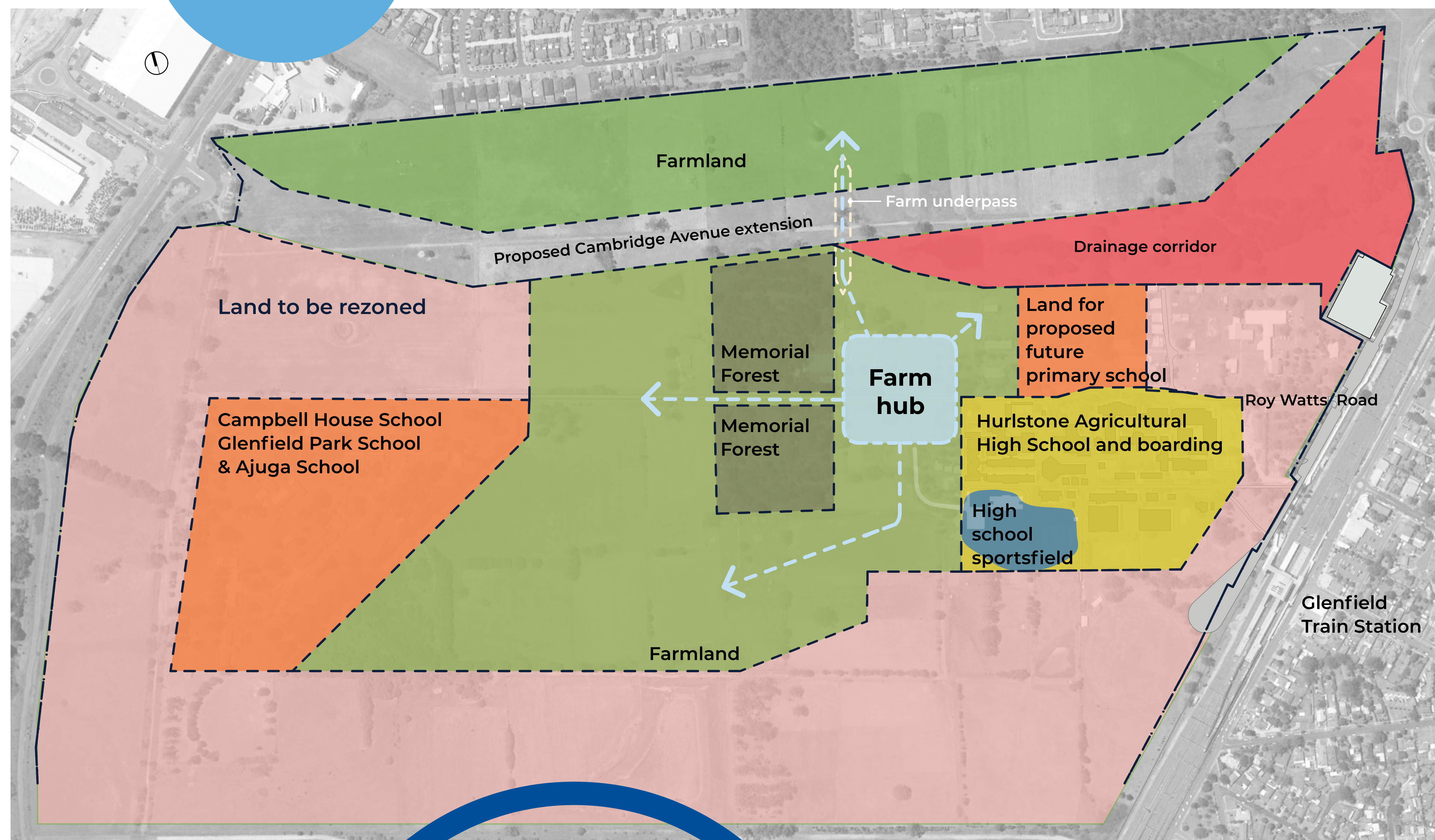


New and upgraded boarding

New and improved farm layout and modern technology will deliver broader educational experiences

Under this proposal, the Department of Education will retain approximately 77 hectares for the Hurlstone campus including farm, schools for special purposes and for a proposed future primary school. The farm and dairy will be retained on approximately 50 hectares. The agricultural land will be irrigated to improve productivity and reduce drought impacts.

Proposed new farm layout



The proposed new farm layout will enhance the education of our next generation of researchers, innovators, entrepreneurs and workers across the agricultural sector. The upgrade provides an additional opportunity for partnerships with industry and tertiary education sectors.

The proposed layout includes:

- co-locating all existing farming enterprises (facilities, equipment and livestock housing) to a centralised farm hub
- new and upgraded farming facilities
- new and more extensive irrigation systems, resulting in more efficient use of land and resources, drought proofing the farm and maximising stock level capacity and cropping yields
- new technology, reducing labour and creating more opportunities for hands-on learning
- improved vehicle and pedestrian access and safety on site.

A new centralised farm hub is at the core of the proposed farm upgrade

The modern farm hub increases student and animal interaction and viewing opportunities.

Farming operations will be redeveloped to be more efficient, reflect contemporary agricultural technology and provide more hands on farming opportunities for students.

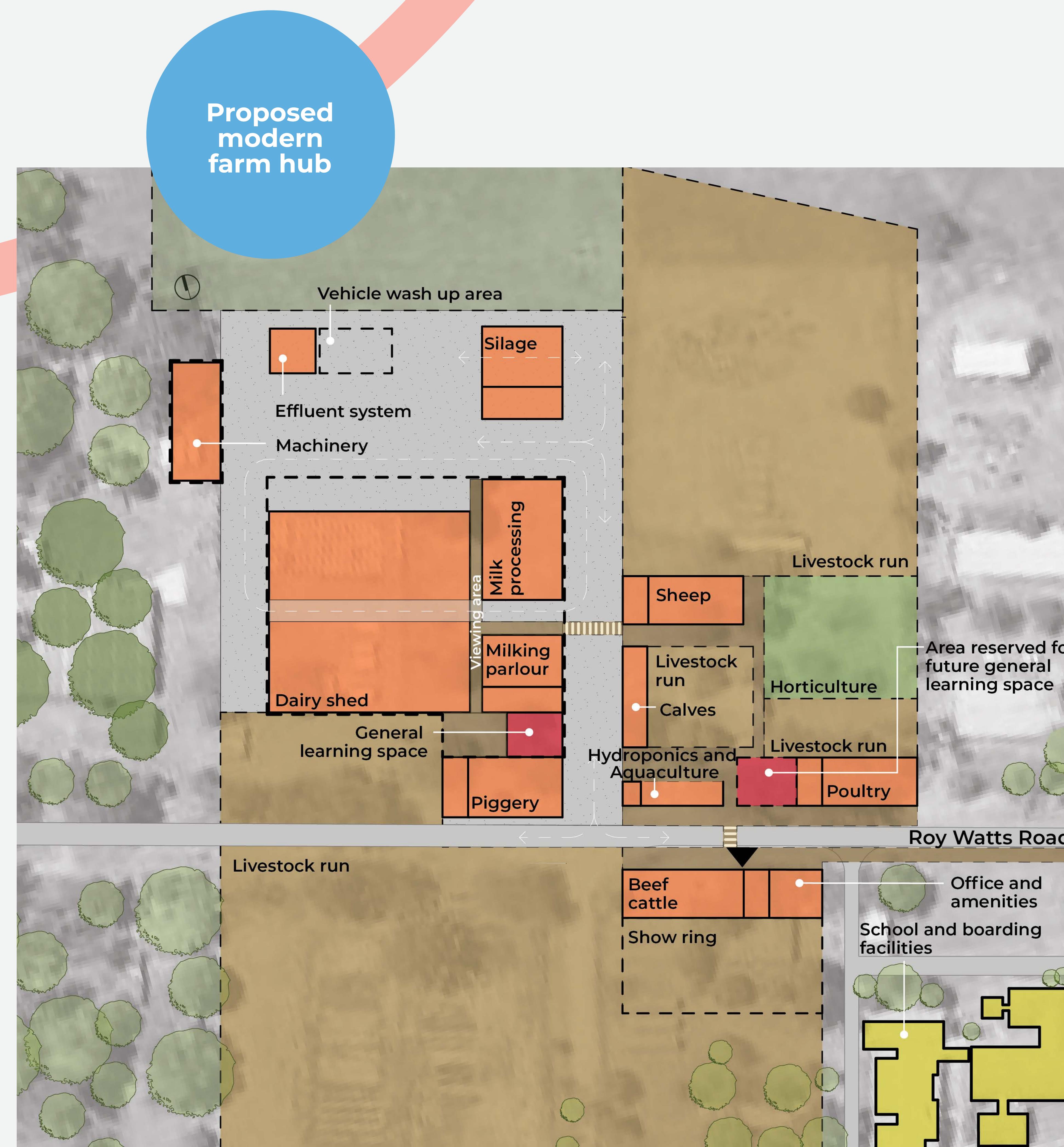
The proposed modern farm hub will include the following new facilities:

- dairy shed and milking parlour
- dairy processing equipment
- viewing gallery and co-located learning space

- calf, beef and pig sheds
- aquaculture within the hydroponics facility
- commodity shed and storage facilities
- sheep shed and shearing facility
- poultry facility (layer shed and chicken coops)

The proposed farm upgrade also includes new farming equipment and irrigation systems.

The hydroponic and horticultural facilities will be relocated to the farm hub.





This proposal will provide cutting edge technology, better learning outcomes, operational efficiencies and safety benefits in farm management.

Modern technology to support a contemporary agricultural education

A question of scale

Careful consideration was taken to determine the farming scale, informed by expert industry advice and the Department of Education from an educational needs and syllabus perspective. The new farm layout and proposed upgrade is at an appropriate scale for a learning facility and optimal for student experiences. Research and analysis has shown that a larger facility does not equate to better educational outcomes.

The size of the farming enterprises need to balance the operational management input, ensure a sustainable enterprise and provide an enhanced student learning experience, now and into the future.

Dairy enterprise

The dairy will receive a new milking parlour, with a robotic milking system, livestock housing and viewing areas. A herd of up to 80 milking cows can be supported by the approximately 50 hectares of farmland to be retained, under the proposed irrigation systems. The herd is currently approximately 65 milking cows, with followers.

These upgrades will allow for the ongoing support and expansion of the dairy revenue stream, with possible entry into on-site yoghurt and cheese production. This diversification presents additional learning opportunities for students.

Other enterprises

Poultry, beef, sheep shed, shearing facility and hydroponics will be relocated to the farm hub. Changes in farm size will have little impact on beef cattle and sheep, with current herd sizes accommodated within the proposed, enhanced farm.

A new, modern piggery is proposed that will reflect current best practice for about 8-10 sows.

Benefits of proposed upgrades

The benefits of the new dairy enterprise, supported by irrigation, livestock housing, effluent capture, pasture and a feeding area include:

- higher milk production
- improved animal comfort and heat stress control
- improved work, health and safety outcomes for students and workers
- reduced biosecurity risks
- broader educational experience, exposing students to more machinery and cropping methods
- reduced economic loss during drought through irrigation development
- opportunities for engagement with research hubs and industry.

Students will have an enhanced educational experience, with:

- exposure to pasture and crop agronomy under irrigation
- viewing area in new facilities
- access to modern equipment and technology
- potential for on-site pasteurisation and boutique dairy processing operations
- potential opportunities for engagement with research hubs and industry.

New and upgraded boarding facilities to support the wellbeing of students

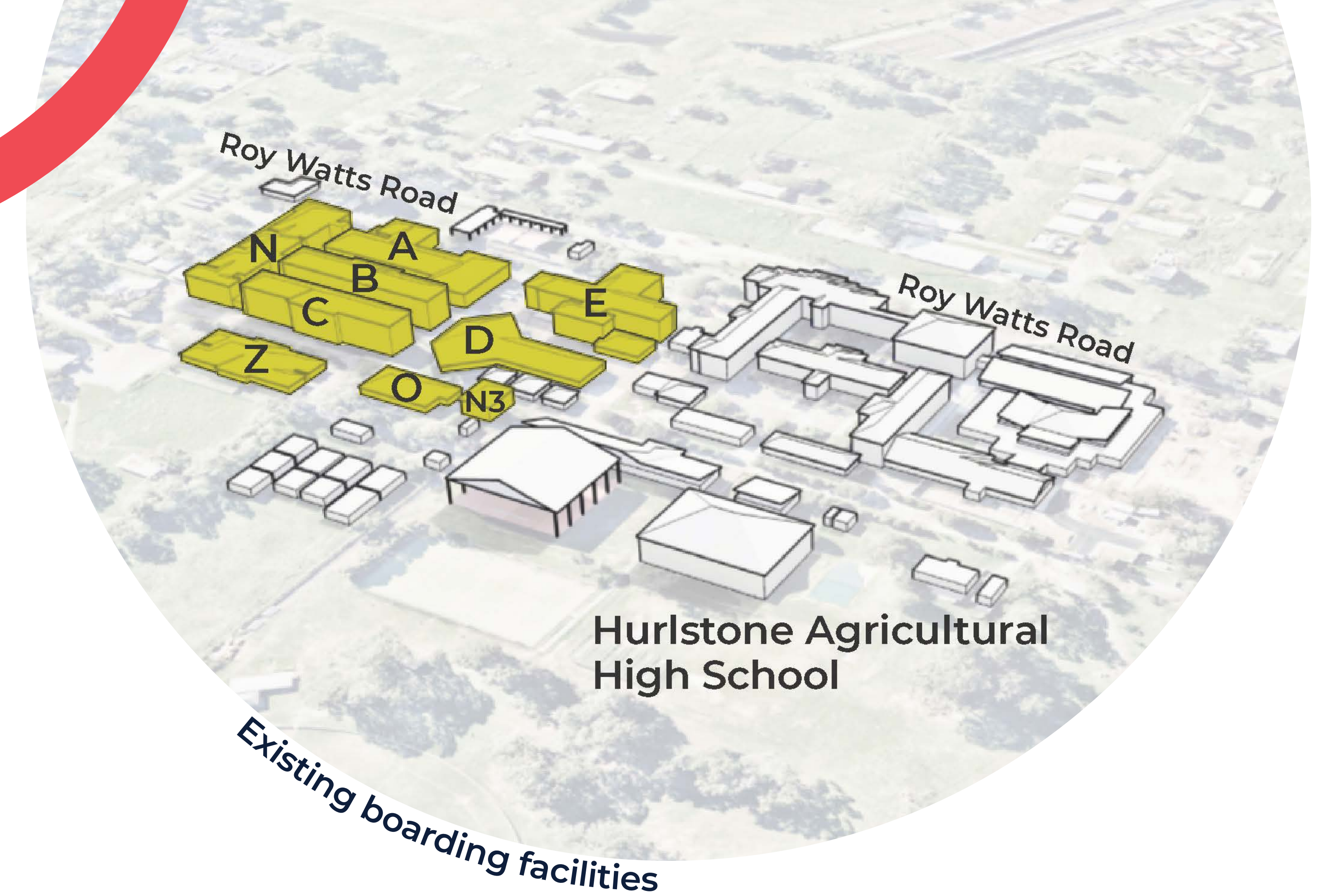
Revitalising boarding facilities will make them fit for purpose, attractive to new boarders, improve social interaction and create a sense of community.

We have reviewed feedback received during consultation in early 2020 and developed a boarding upgrade masterplan.

The boarding upgrade is within the footprint of Buildings A, B, C and N (dormitory buildings).

The upgrade involves refurbishing the heritage listed Building A and replacing Buildings B, C and N with new male and female boarding facilities.

Building E (heritage listed Clarke House), Building D (Dining Hall), Building O (Wellbeing Centre) and Building N3 (Laundry) will be retained and will continue to be used by the school. Building Z (dormitory) will be used during the boarding upgrade for student accommodation and once the upgrade is complete, will be demolished and the land remaining converted into sports fields.



Artist impression of new and improved boarding facilities

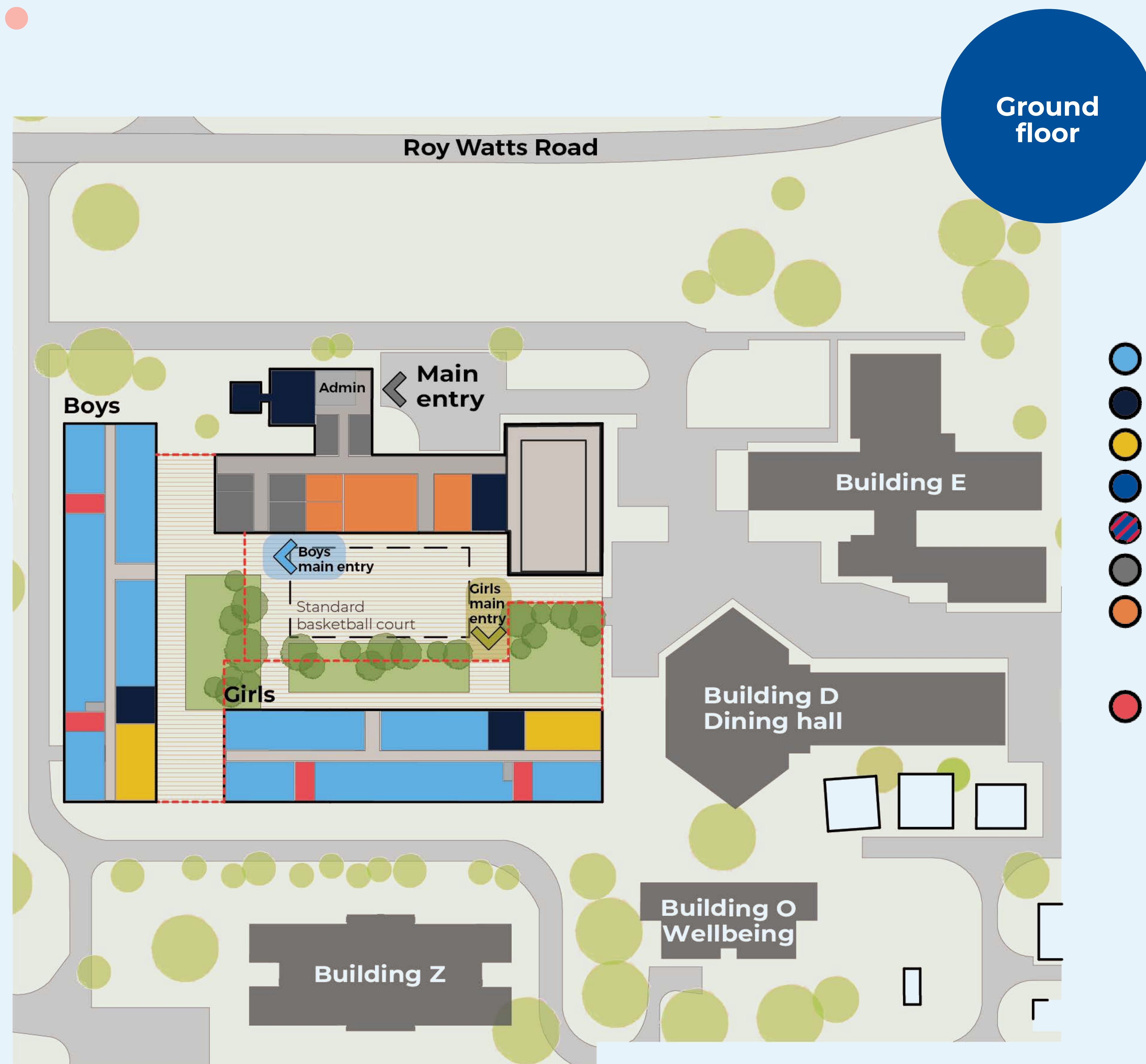


New and upgraded boarding

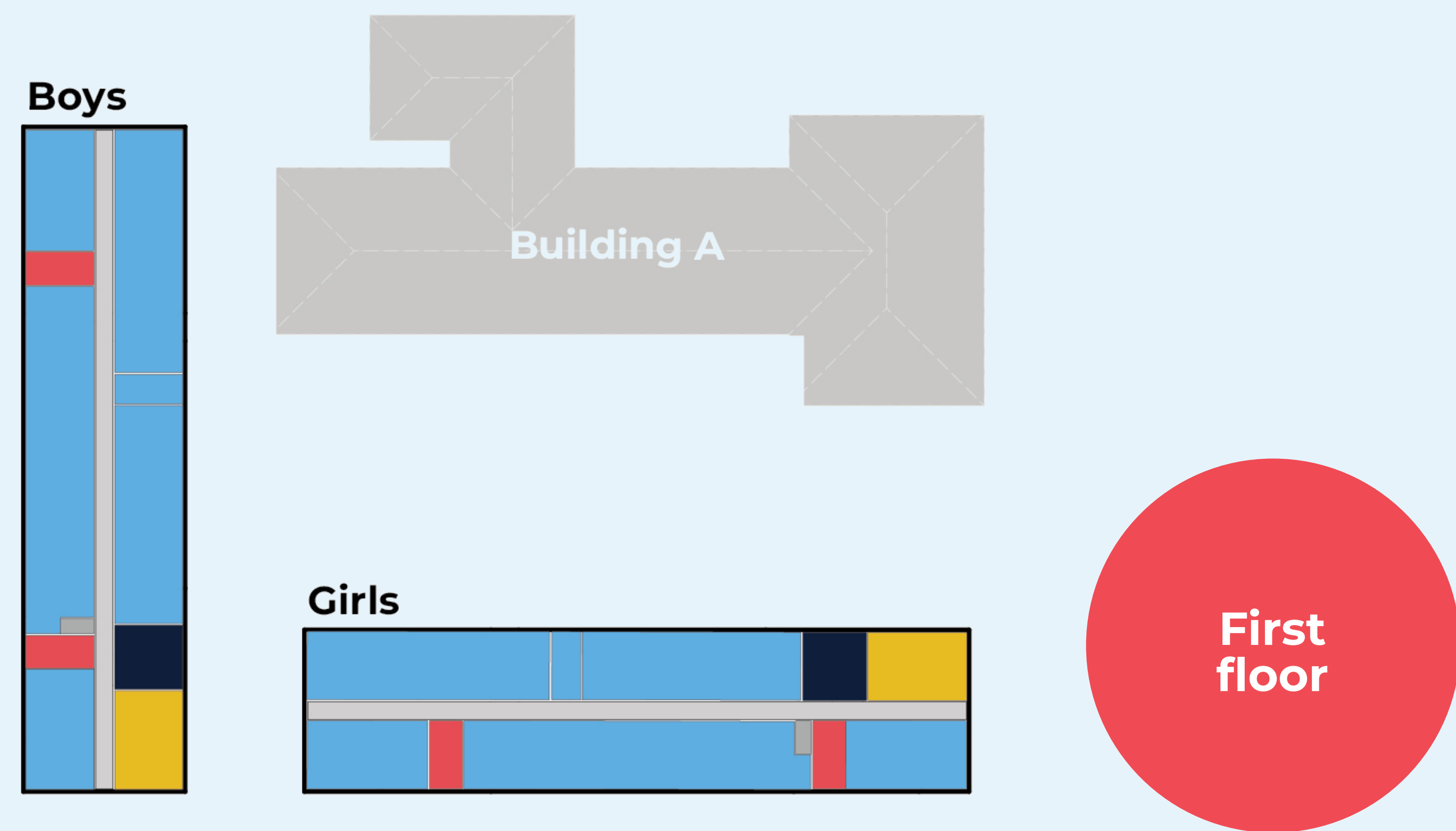
The new and upgraded boarding facilities will accommodate a cohort of 180 students, evenly split across year groups and gender.

The boarding facility improvements include:

- refurbishing Building A for shared facilities and administration
- demolition of Buildings B, C and N
- replacement of Buildings B, C and N with new male and female boarding facilities
- new building layout to create better separation of boys' and girls' dormitories
- co-ed outdoor common area on the ground floor.



Ground floor



First floor