

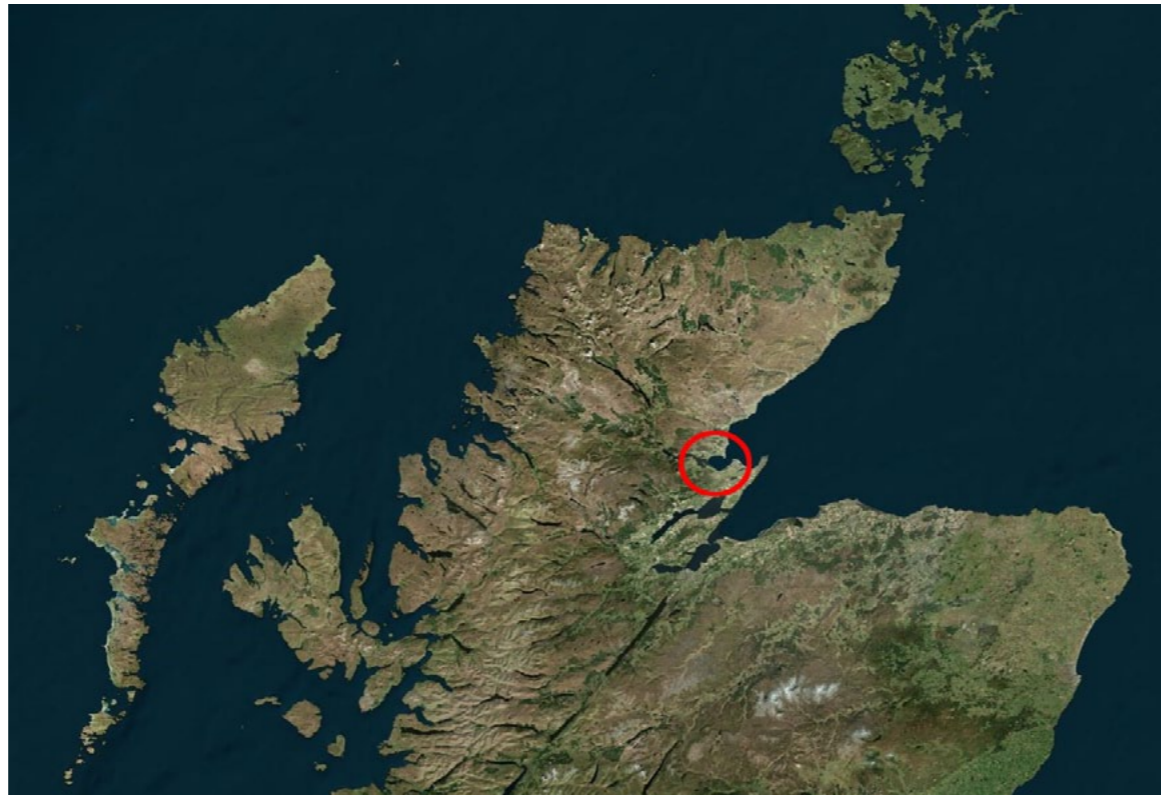
CAL15088

Tain 3-18 Community Campus Stakeholder Presentation No.3

15th September 2016

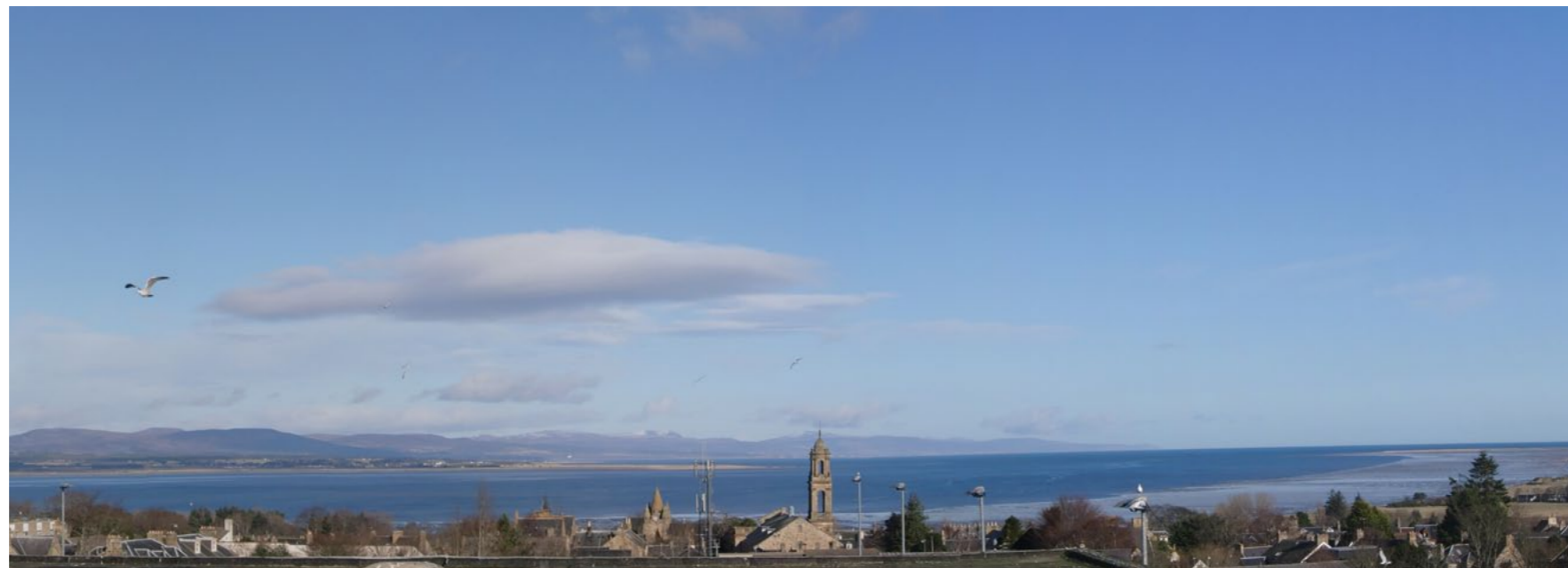
1.0 Introduction

Ro-ràdh



The Royal Burgh of Tain gained its royal charter in 1066, making it Scotland's oldest Royal Burgh. Tain today is a small but thriving town with a population of 4000.

It is the focal point for an extensive rural area stretching from Edderton in the west to Portmahomack in the east and Nigg in the south.



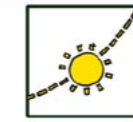
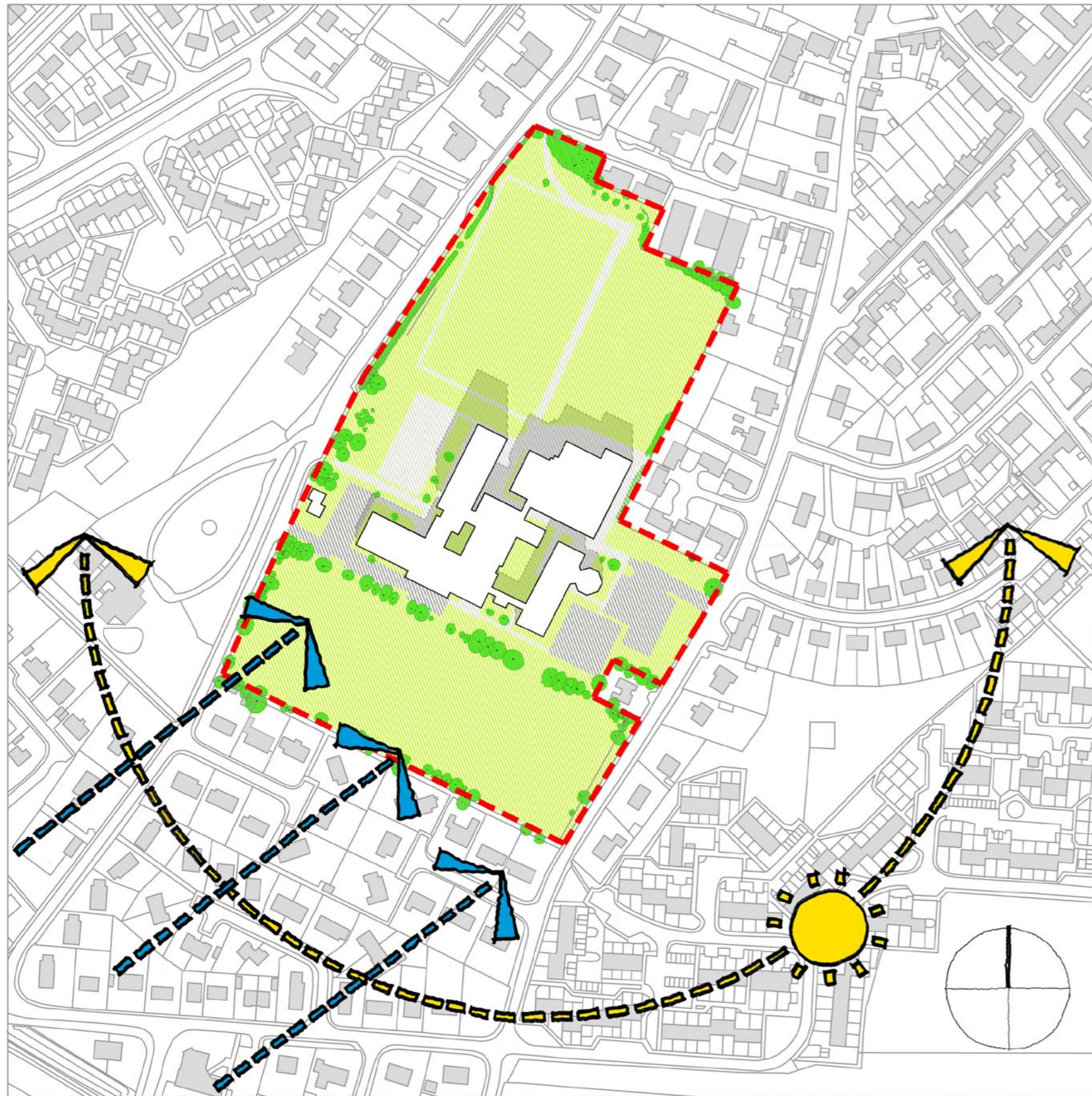
The A9 and the railway connect the town to the north and south of Scotland.

The location for the new 3-18 Campus is the existing Tain Royal Academy site. The site has an urban character, close to the town centre conservation area, with light industrial units to the north, in a predominantly residential setting.



As a major new community facility and school, the design of the new building should provide a strong connection with the town centre and should relate to Tain's local culture, historical context, topography and geography. It should also be designed in such a way that it creates a strong sense of place within the town of Tain.

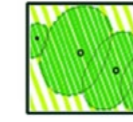
Site Analysis



Sun Path

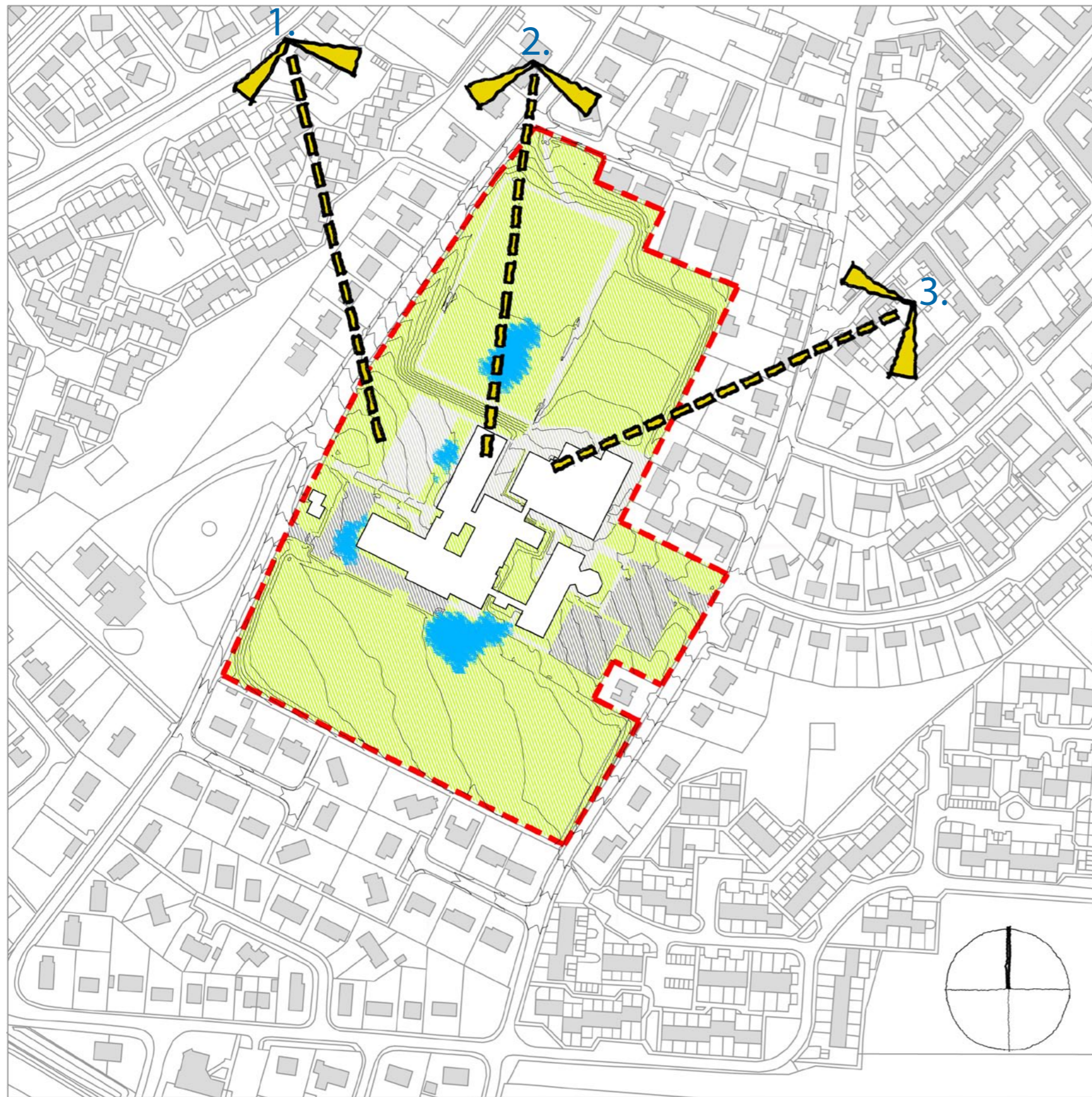


Prevailing Wind Direction



Vegetation

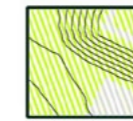
Diagram 1 - Wind And Sun



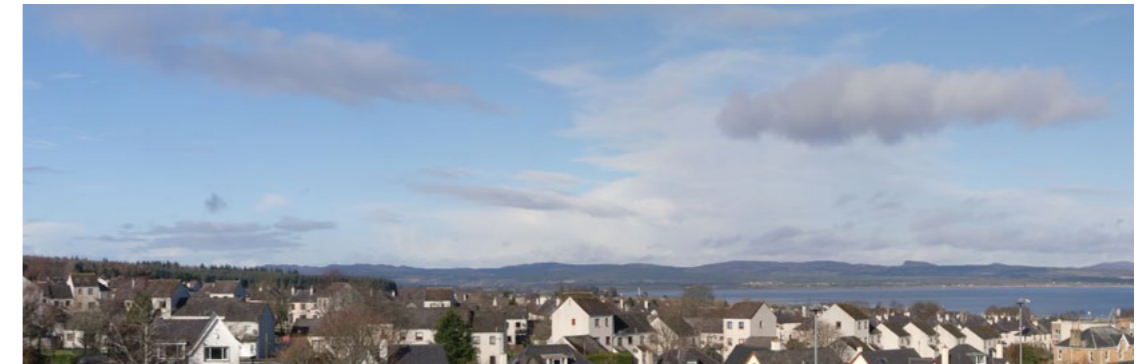
Direction of Potential View



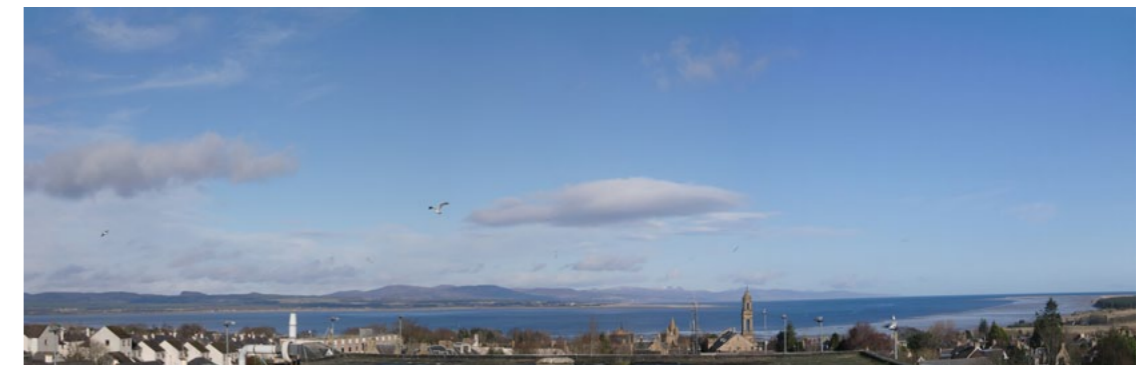
Ground Prone to Flooding



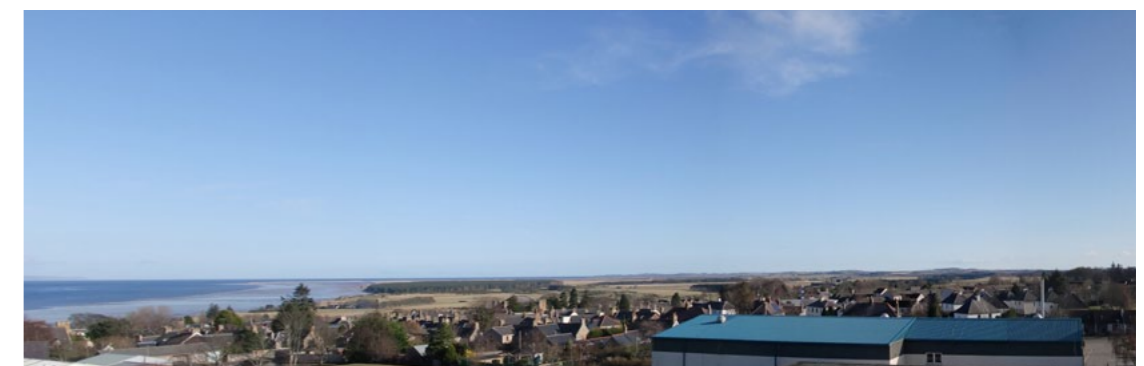
Topography



1.



2.

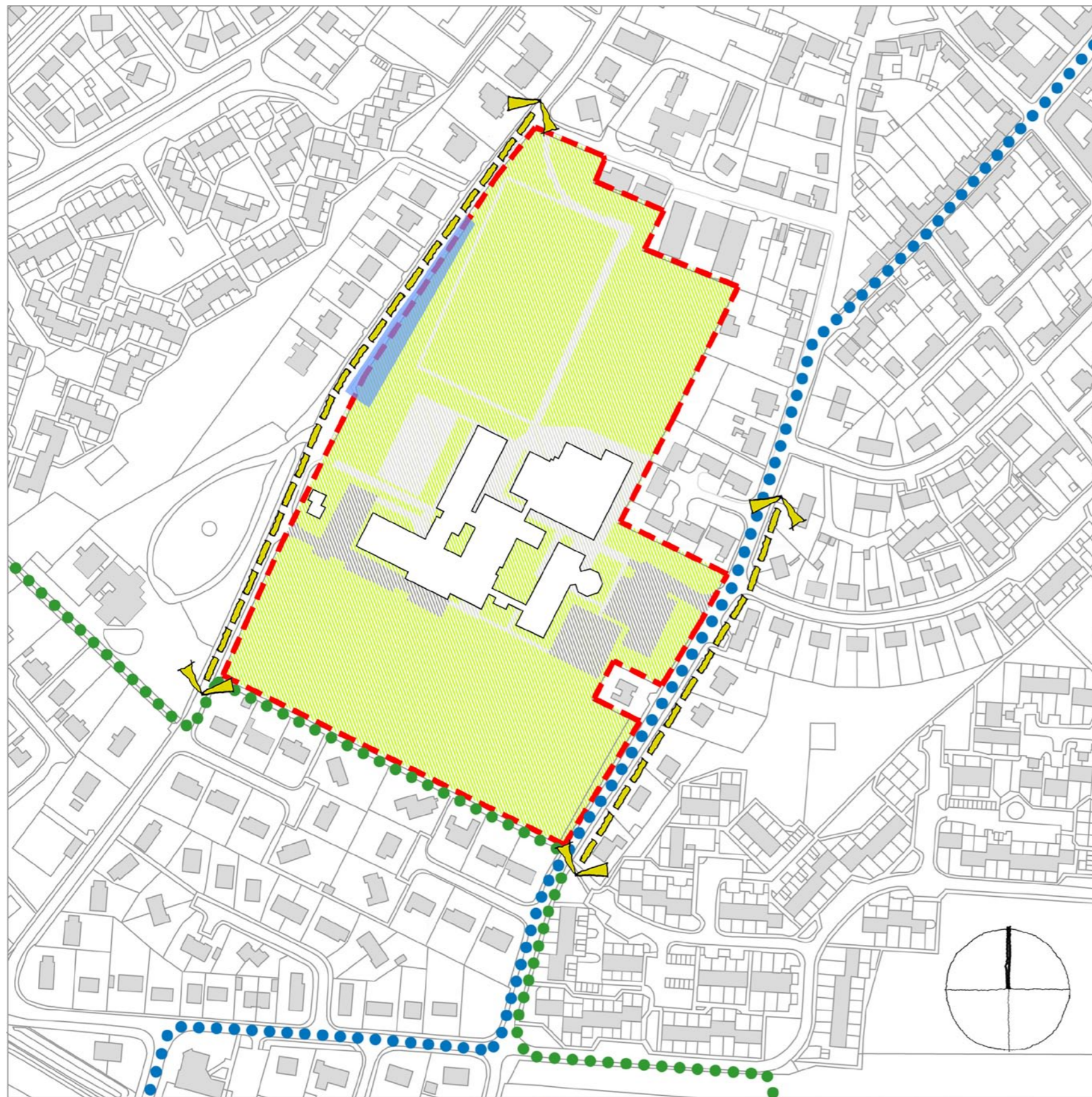


3.

Diagram 2 - Topography And Potential Views



Diagram 3 - Boundary Context







-  Extent of 20 Mph Speed Limit
-  Bus Layby Requires Widening
-  Cycle Route on Road
-  Pedestrian Route

Diagram 4 - Existing Traffic

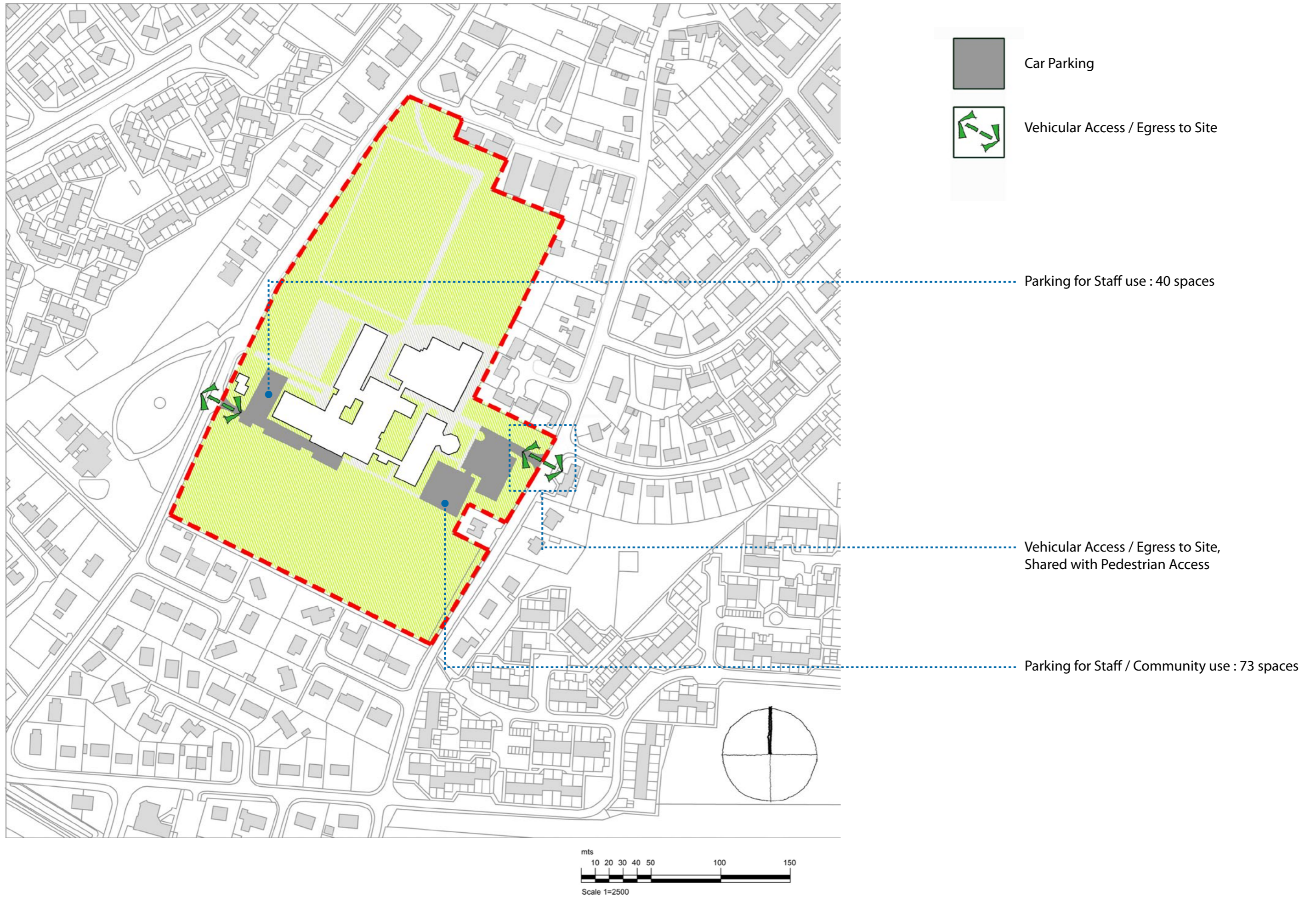
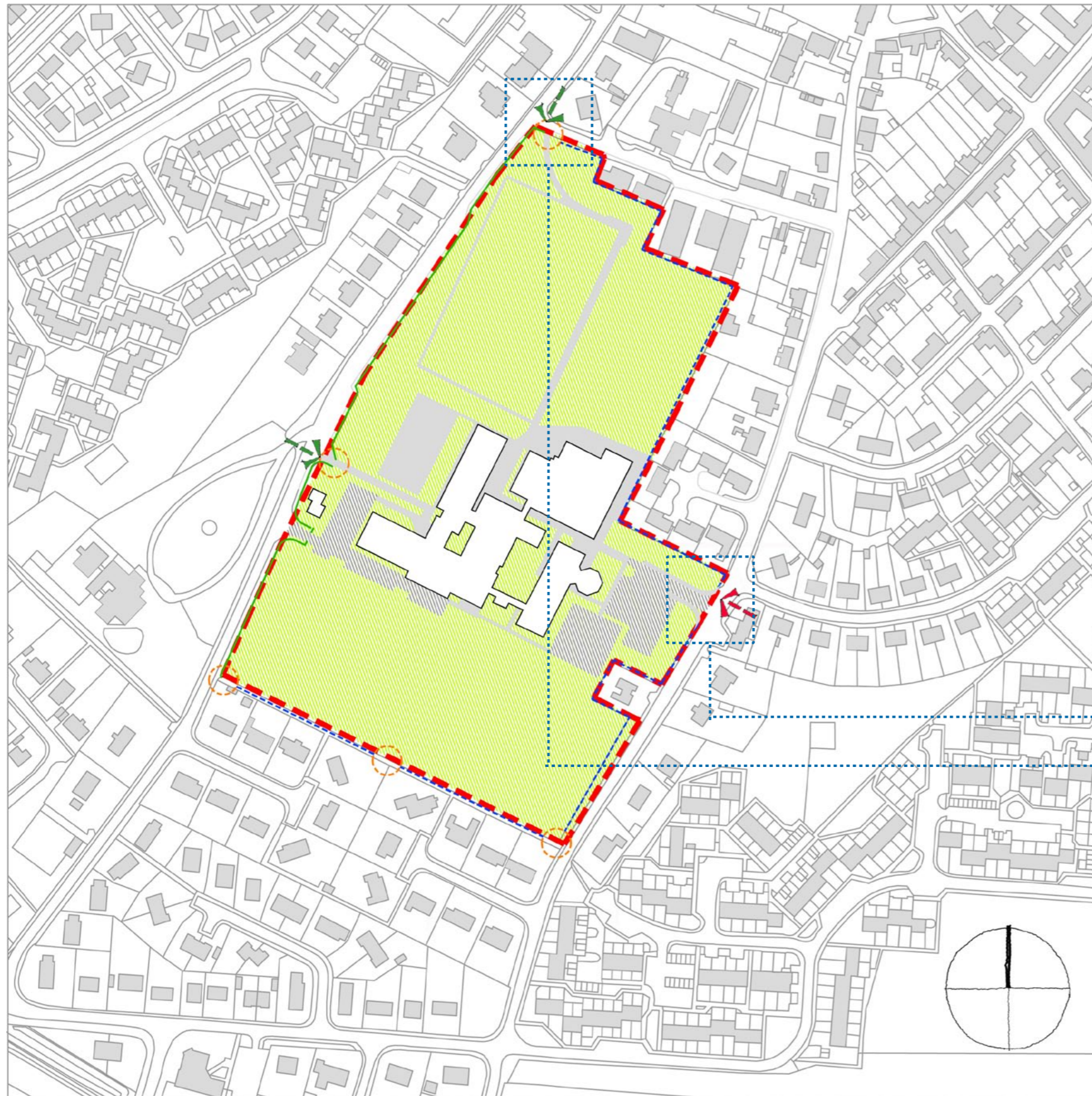







Diagram 5 - On Site Parking



-  Pedestrian Access shared with Vehicles
-  Dedicated Pedestrian Access
-  Controlled Gated Pedestrian Entrance
-  Security Fencing
-  Stone Wall

Level Pedestrian Access Shared with Vehicular Access
 Ramped Pedestrian Access. Close to Vehicular Junction

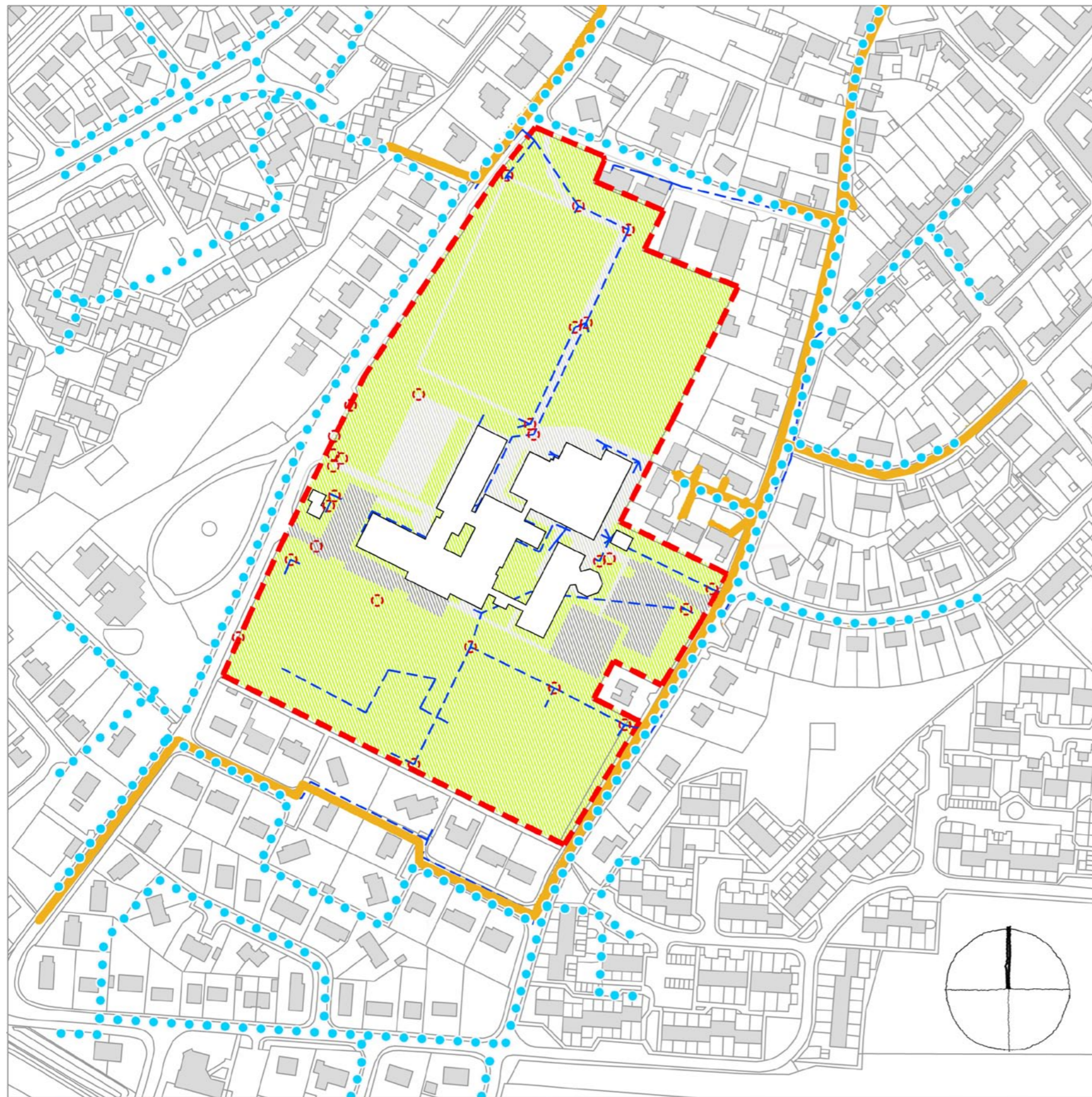


Diagram 6 - Non Vehicular Access



-  Hard Standing / Informal Play Area
-  Floodlit SGP (106m x 66m)
-  Small Grass Pitch (76.6m x 50.5m)
-  Rugby Pitch (140m x 63m)
-  Grass Running Track

Diagram 7 - Sports Pitches And Informal Play





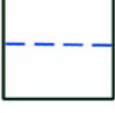

-  Water Network
-  Sewage Network
-  Onsite Drainage
-  Manhole



Diagram 8 - Services



- 3 Storey - Geography, History, Science
- 1 Storey - Home Economics, ICT, Metalwork
- 1 Storey - Dining Hall, Staff Room
- 1 Storey - Kitchen
- 1 Storey - Changing Rooms, Gym
- 2 Storey - Community Centre, Sports Hall
- 1 Storey - Sports Hall, Swimming Pool
- 3 Storey - Art, English, Lecture Room, Library
- 1 Storey - Library
- 1 Storey - Janitors House

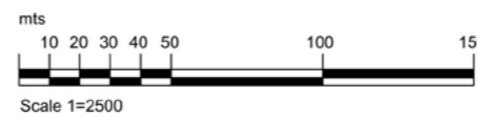


Diagram 9 - Block Types

Construction Logistics



Direction of potential Construction Traffic on to Site

Victoria Road Approach

North Junction : 6.4m Radius
 South Junction : 5m Radius
 Carriageway width 4.9m

Rise of +/- 3.2 in 49m

+/- 1:15
 Existing Pedestrian Access
 [3.4m existing path with]

Scotsburn Road Approach

North Junction 10m Radius
 South Junction 8m Radius
 Carriageway width 4.7m

Drop of +/- 3.3 in 10.8m

+/- 1:3
 Graded Slope to SGP

Hartfield Road Approach

North Junction : 10m Radius
 South Junction : 10m Radius
 Carriageway Width 5.4m

Rise of +/- 0.7 in 3m

+/- 1:3

Graded Bund from Car Park

Drop of +/- 0.5 in 10m

+/- 1:20

To Base of Trees

Rise of +/- 0.4 in 1.2m

+/- 1:3

Graded Bund to Playing Fields

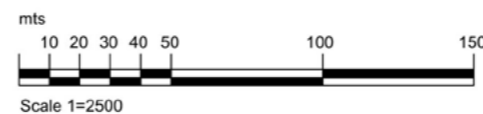


Diagram 10A - Analysis Of Existing Site Access Points



Direction of potential Construction Traffic on to Site



Potential Contractors Compound

Vehicular access improbable due proximity to existing road junction.

Temporary access formed within bus layby zone as contract enabling works; bus layby and footpath requires upgrading

Formation of heavy plant access. Reduced incline to circa 1:8

Potential to link parking areas to East and West. School and Community access exclusively from East side.

Hammer head turning for lorries delivering to construction site.

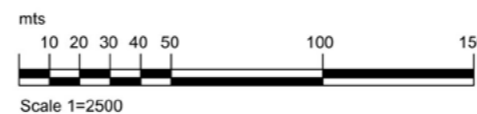


Diagram 10B - Amendments Required For Contractor Access From West



Direction of potential Construction Traffic on to Site



Potential Contractors Compound

Access to North of Site
Vehicular access improbable without phased demolition and construction.

Access Across Existing Parking
Potential for requirement for removal of trees
Reprofiling of Bunding to Enable Vehicular Access to Playing Fields

Potential to link parking areas to East and West. School and Community access exclusively from West side.

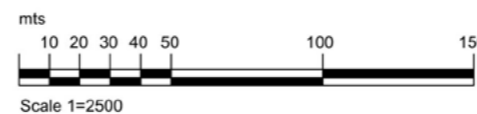
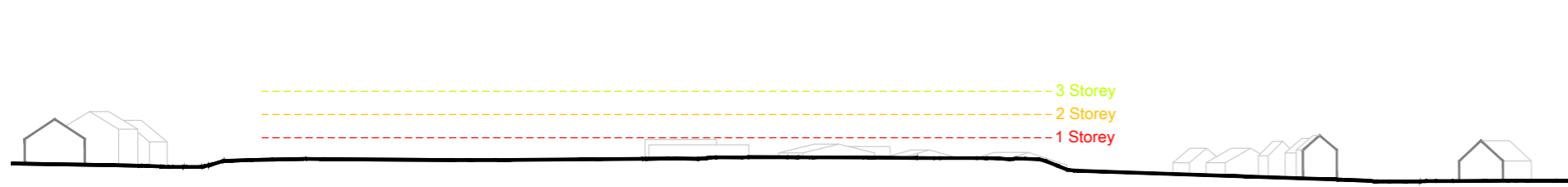
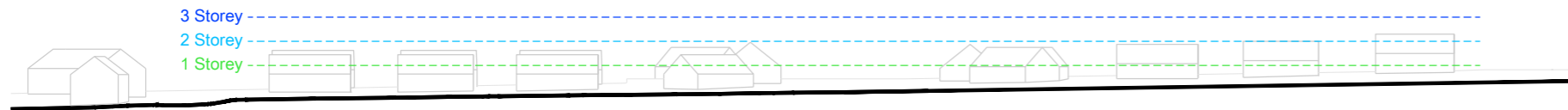
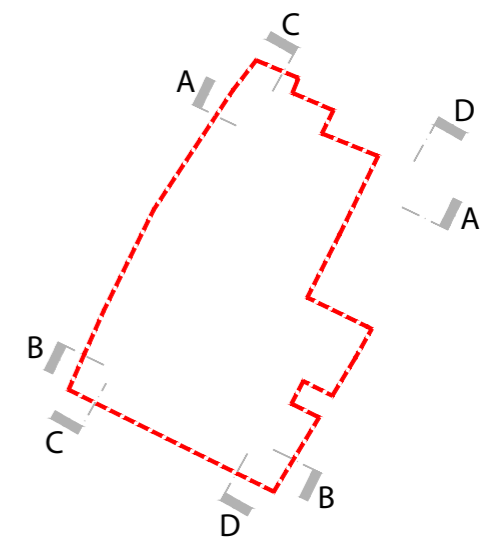


Diagram 10C - Amendments Required For Contractor Access From East

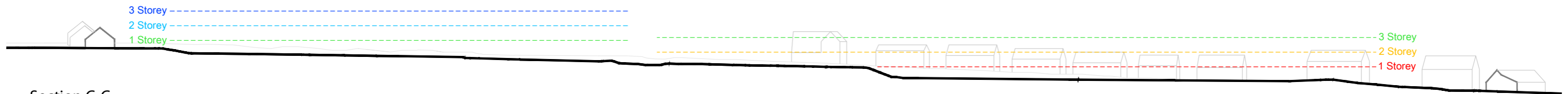
Building Strategy Diagrams



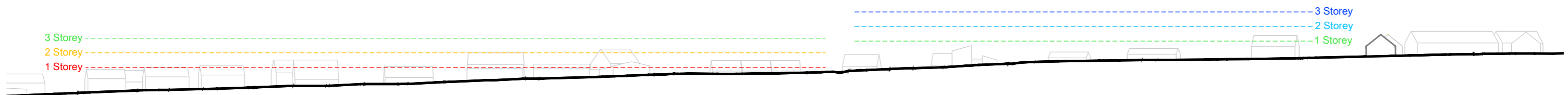
Section A-A



Section B-B



Section C-C

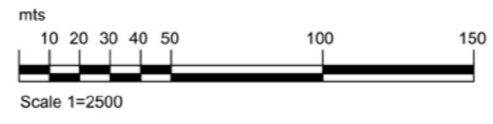
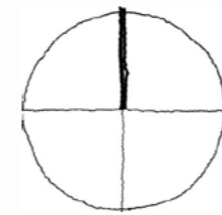


Section D-D

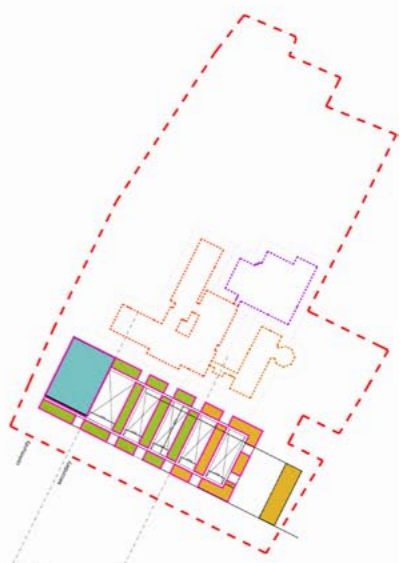


compound block

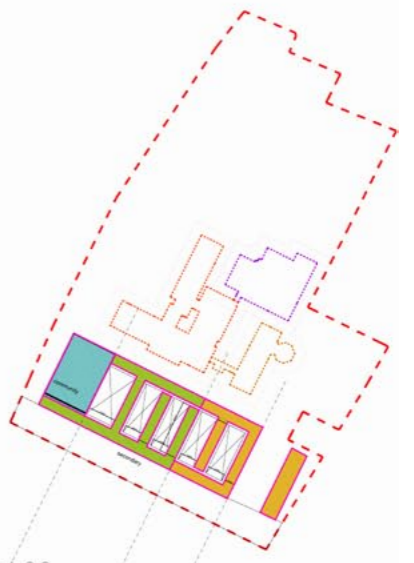
- phase 1
construction of a new facilities
3 storey building / 1 storey nursery
- phases 2 / 3 / 4
- migration of pupils and equipment
- demolition of existing secondary school
and community facilities
- external works



2 storey compound block 0.1



2 storey compound block 0.2



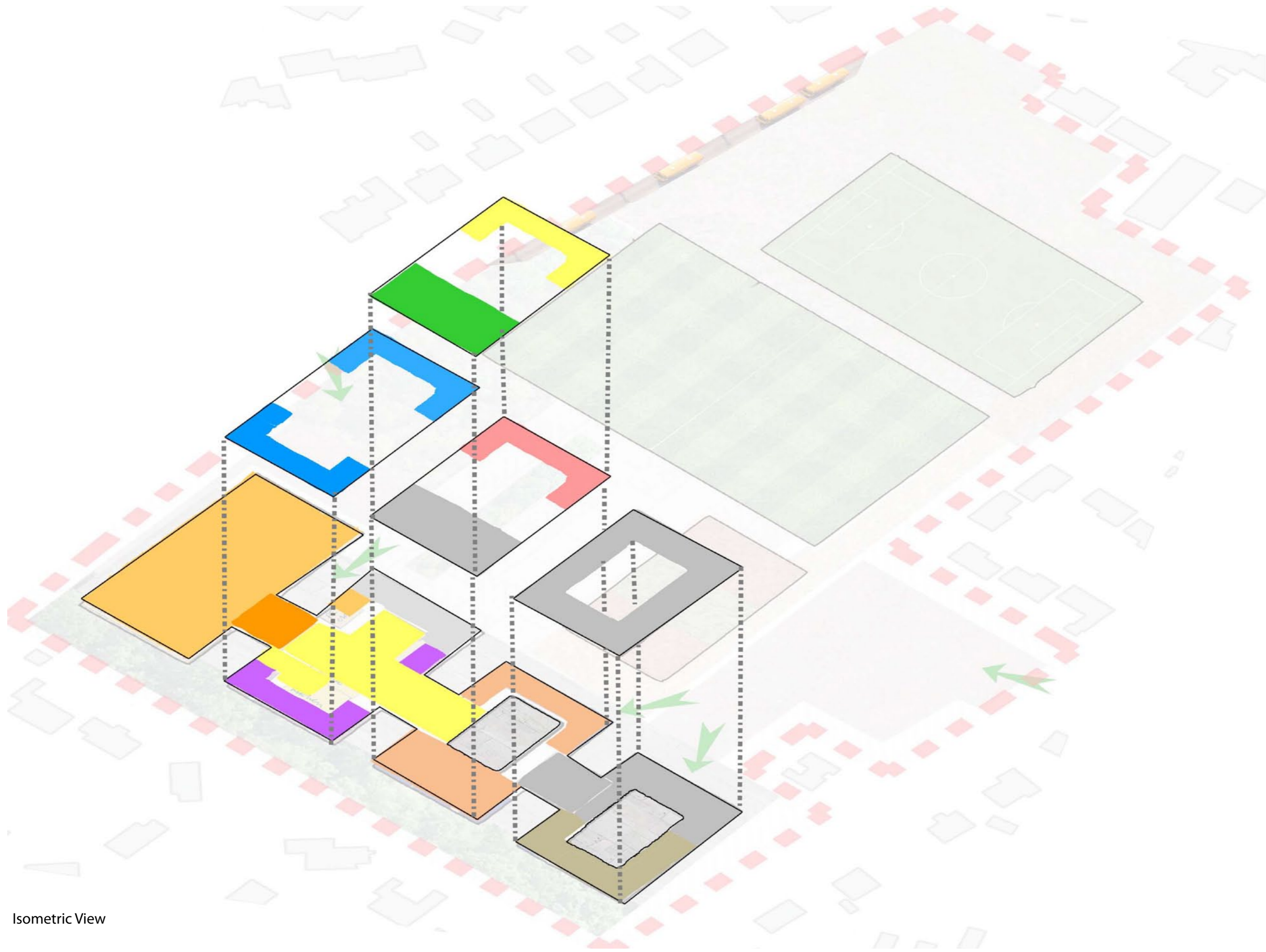
2 storey compound block 0.3

South option 1 - Compound Block



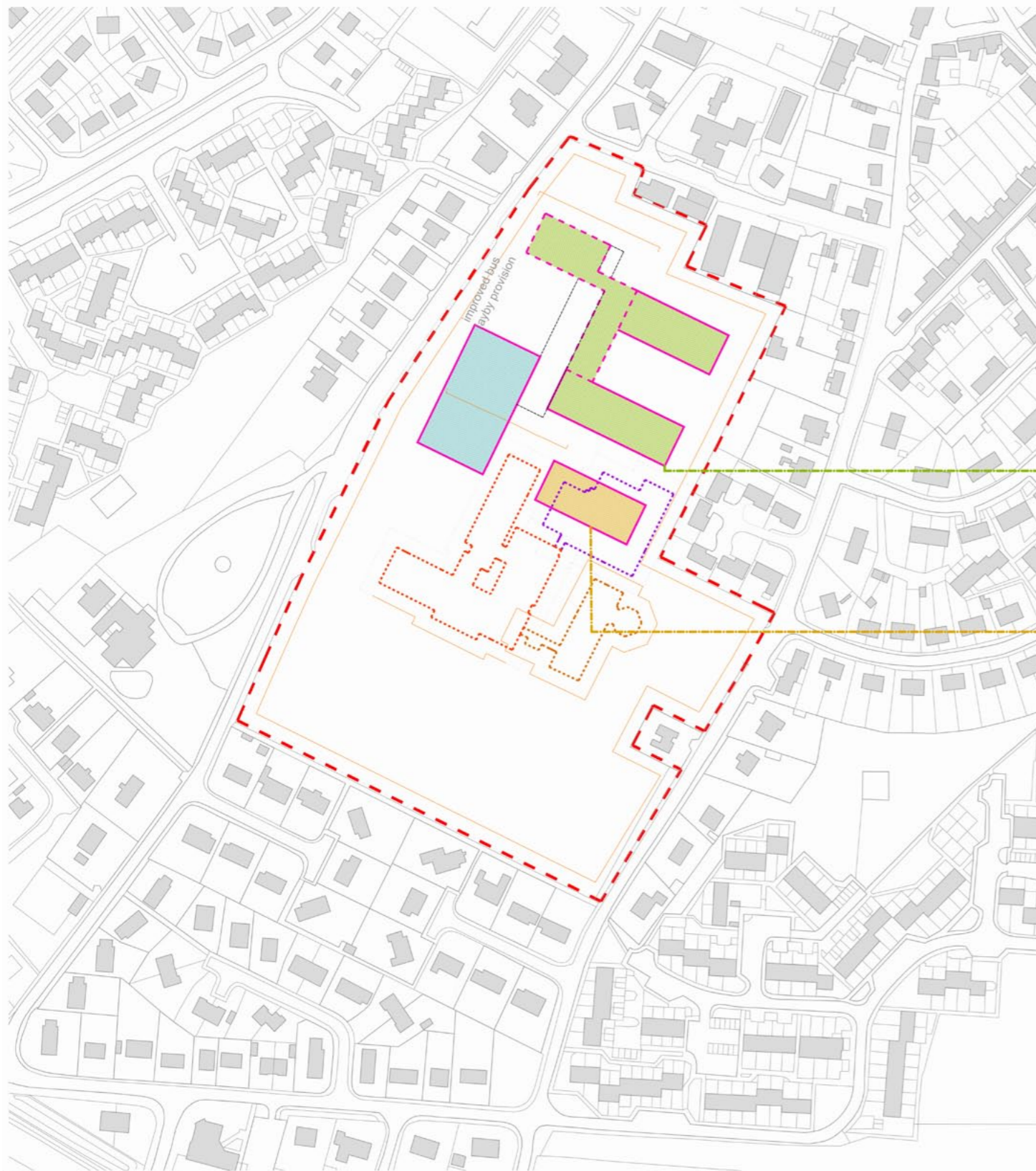
First Floor Plan

South option 1a - Chain Model



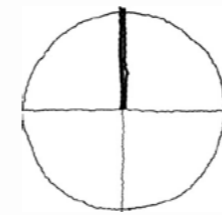
Isometric View

South option 1a - Chain Model iso



fingers and thumb

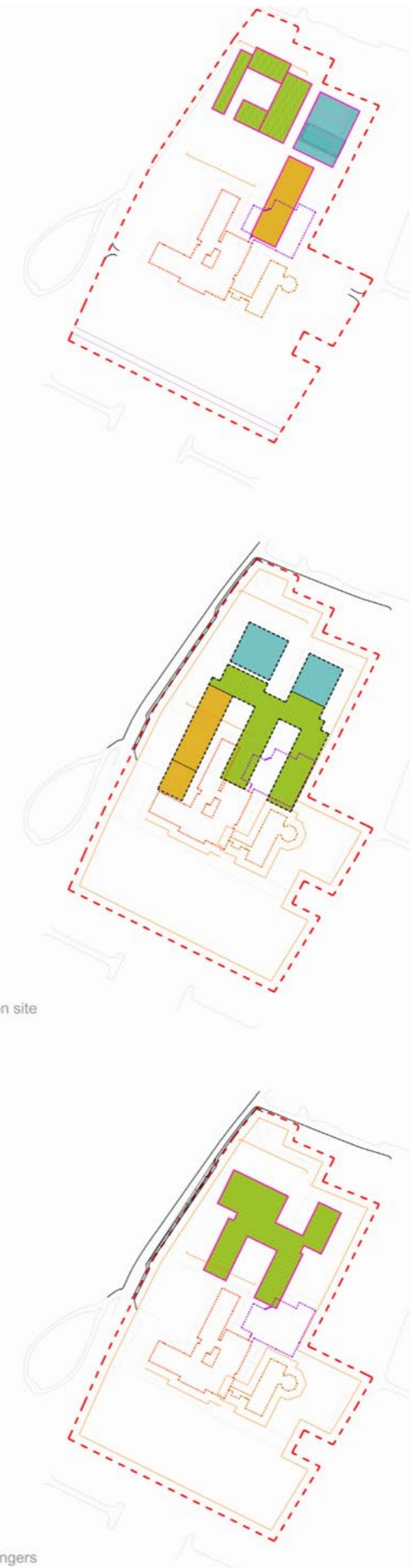
- phase 1**
 construction of a new secondary facility
 3 storeys in part, 2 storeys generally;
 construction of a new community facility
 2 storeys
- phases 2 / 3 / 4 / 5**
 - migration of pupils and equipment
 - demolition of existing secondary school
 and community facility
 - construction of a new primary facility
 2 storeys
 - external works



lump & line

WHS model on site

three storey fingers

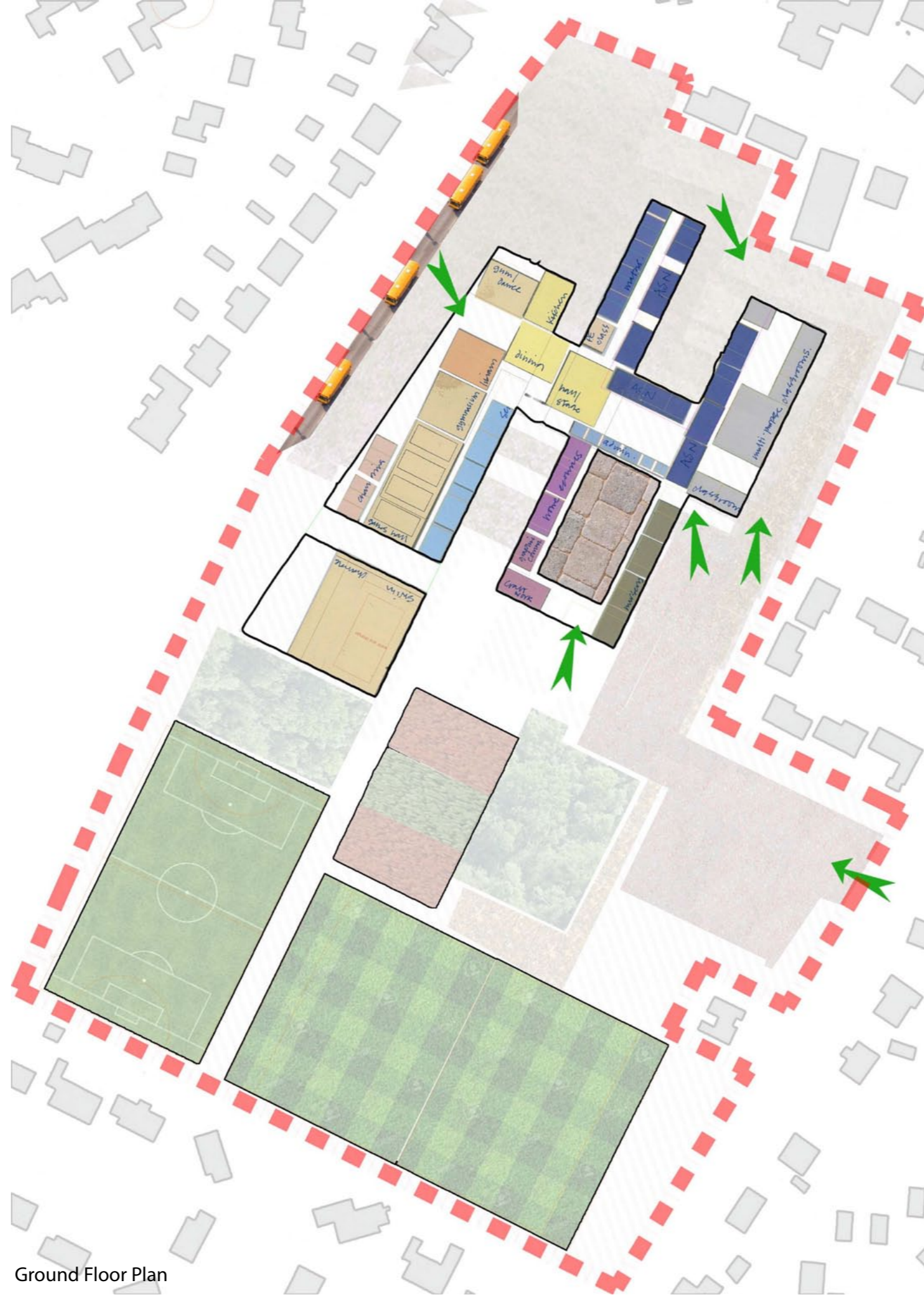


North option 1 - Fingers

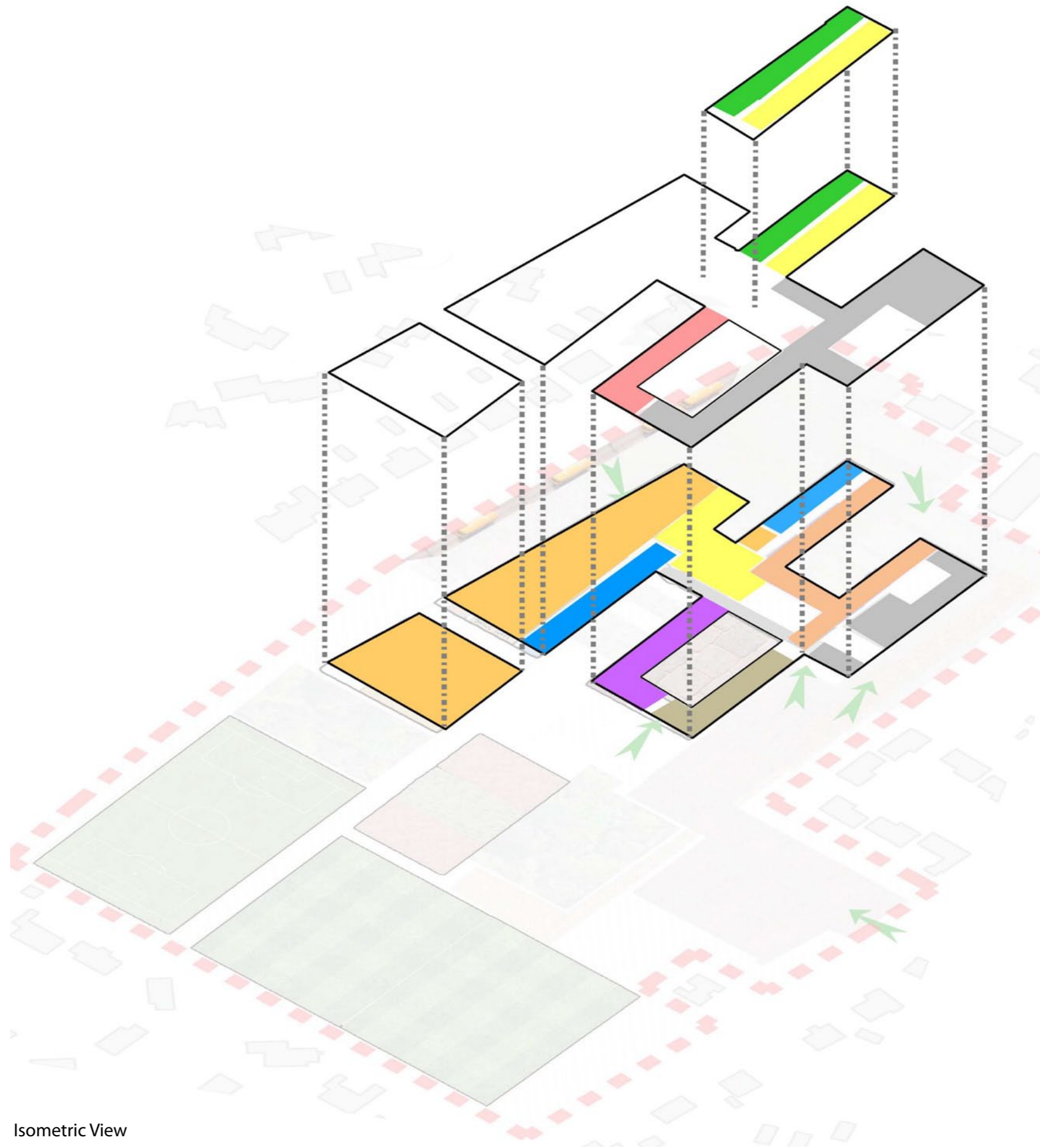


First Floor Plan

North option 1a - Tick Tack



Ground Floor Plan

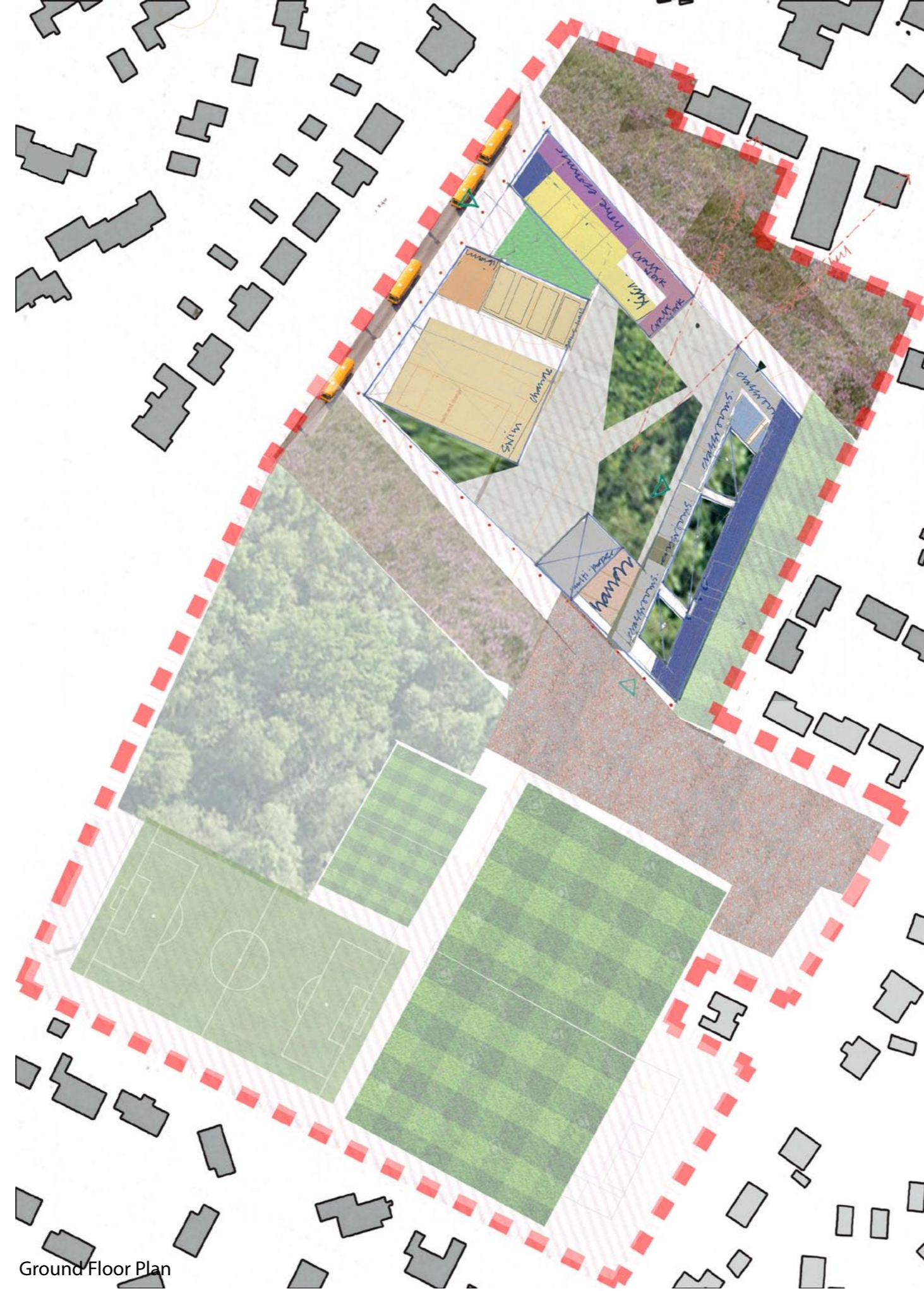


Isometric View



First Floor Plan

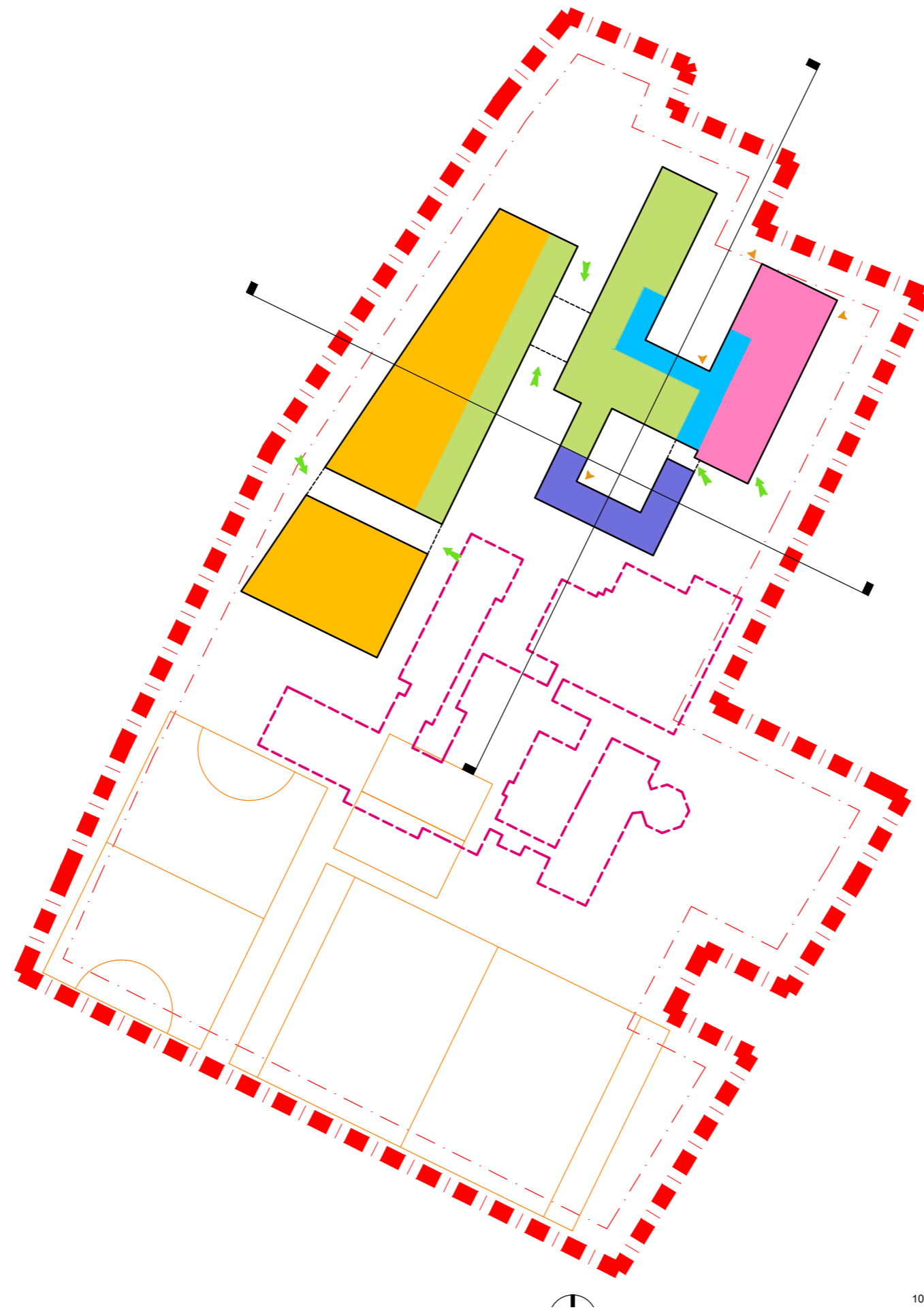
North option 2 - Courtyard Cluster








Ground Floor Plan

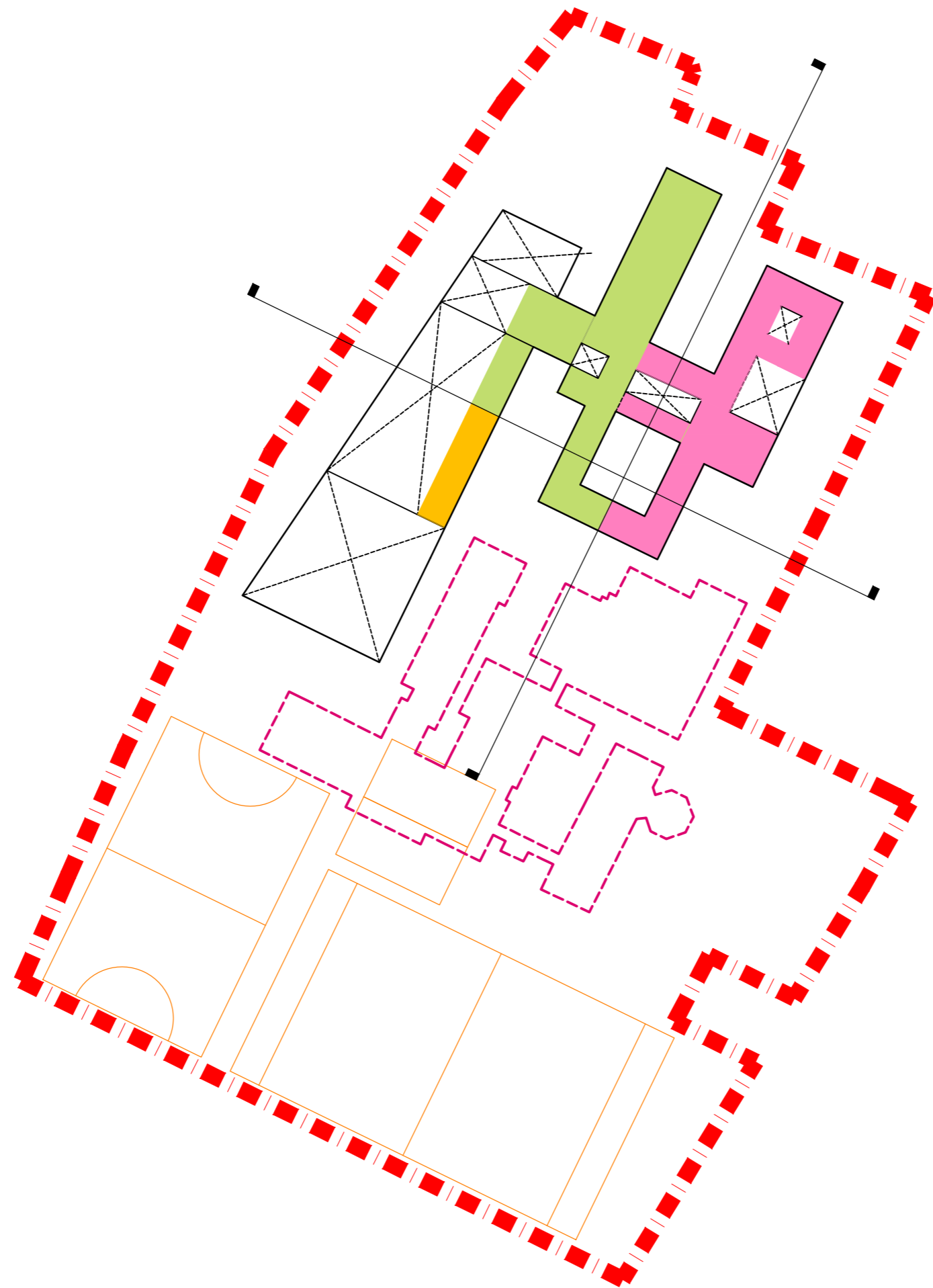
North option 2 - Courtyard Cluster






Strategy Analysis

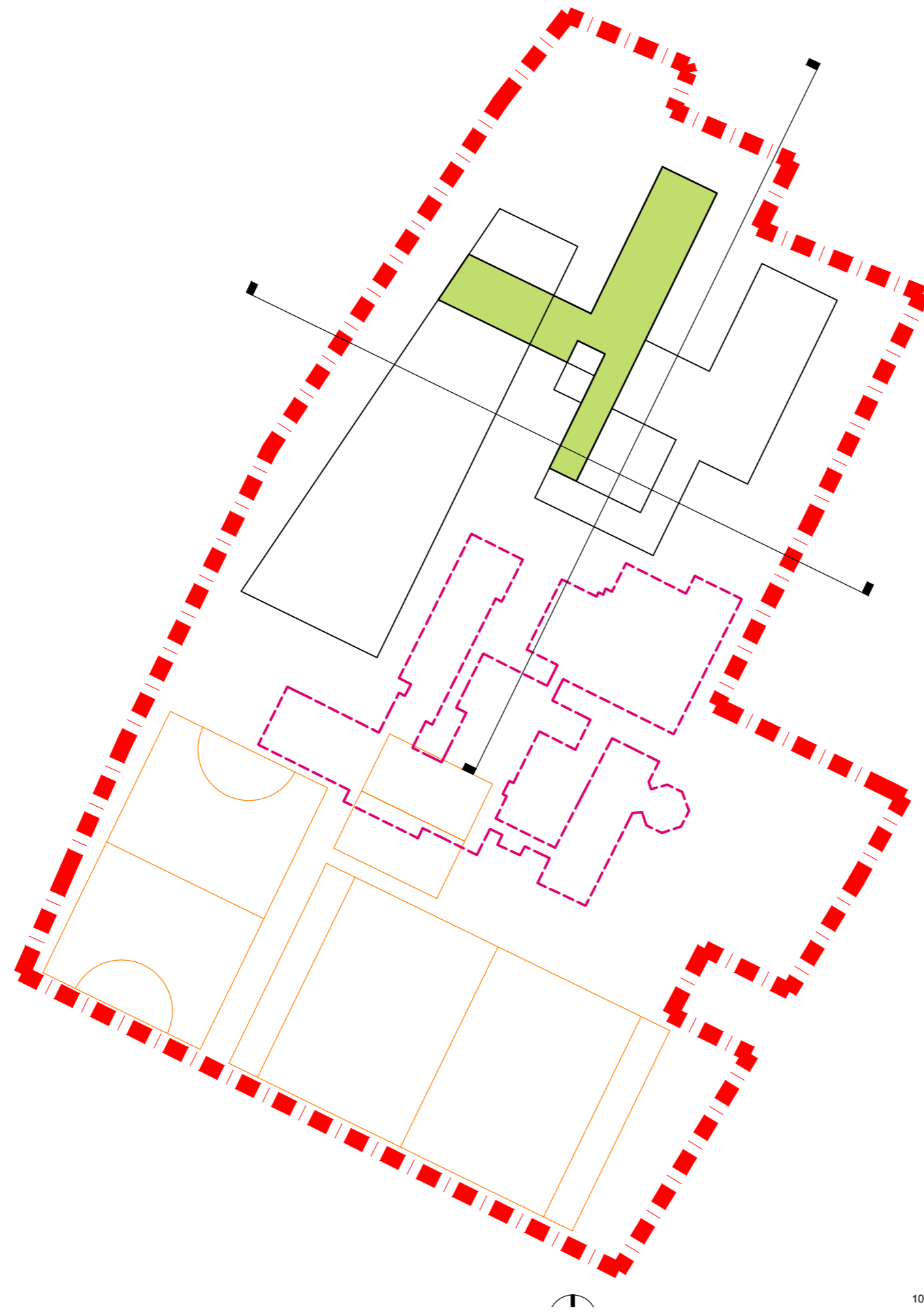







-  st duthus school
-  nursery
-  primary
-  secondary
-  community

Tick Tack - Ground Floor Plan

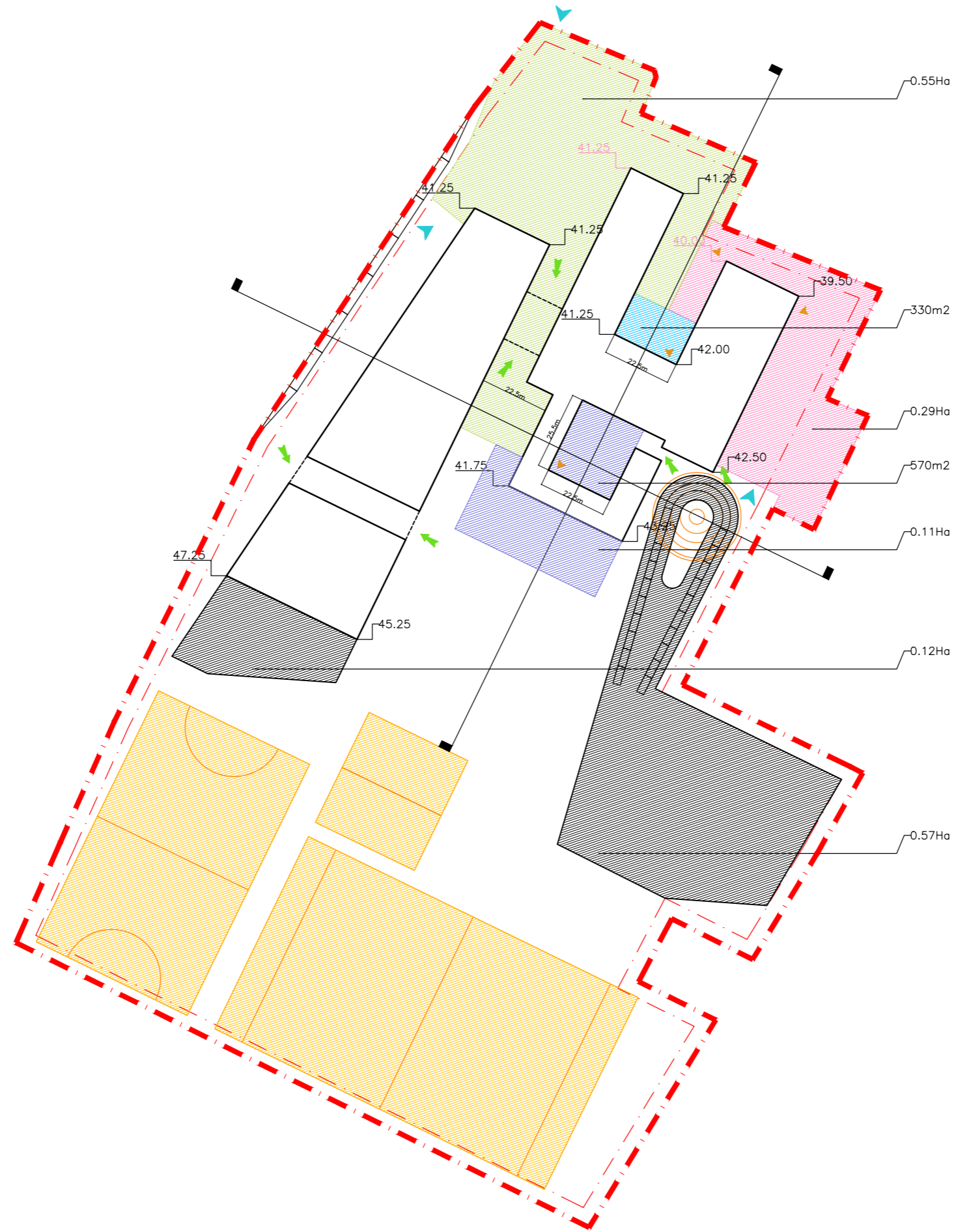


-  st duthus school
-  nursery
-  primary
-  secondary
-  community

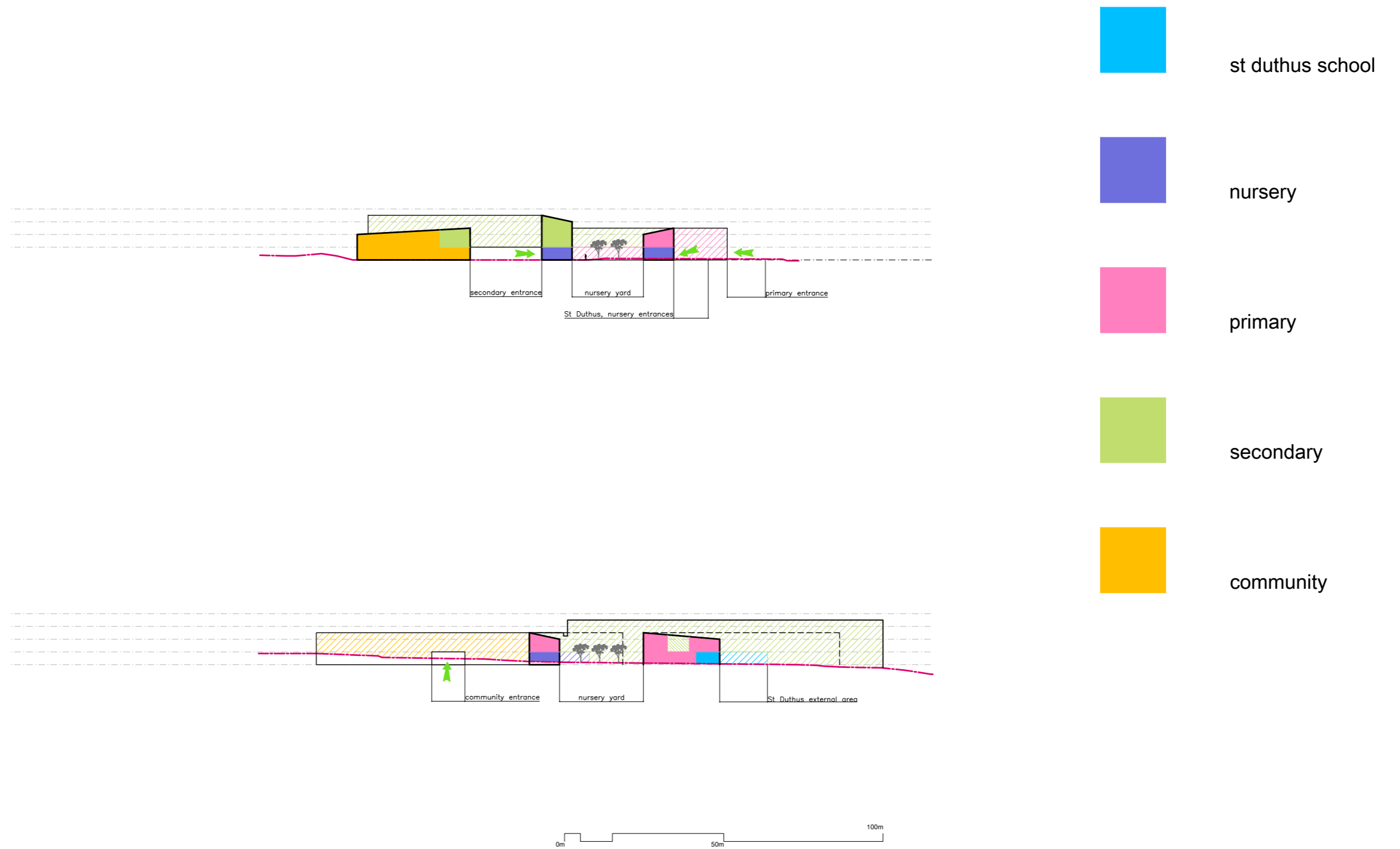


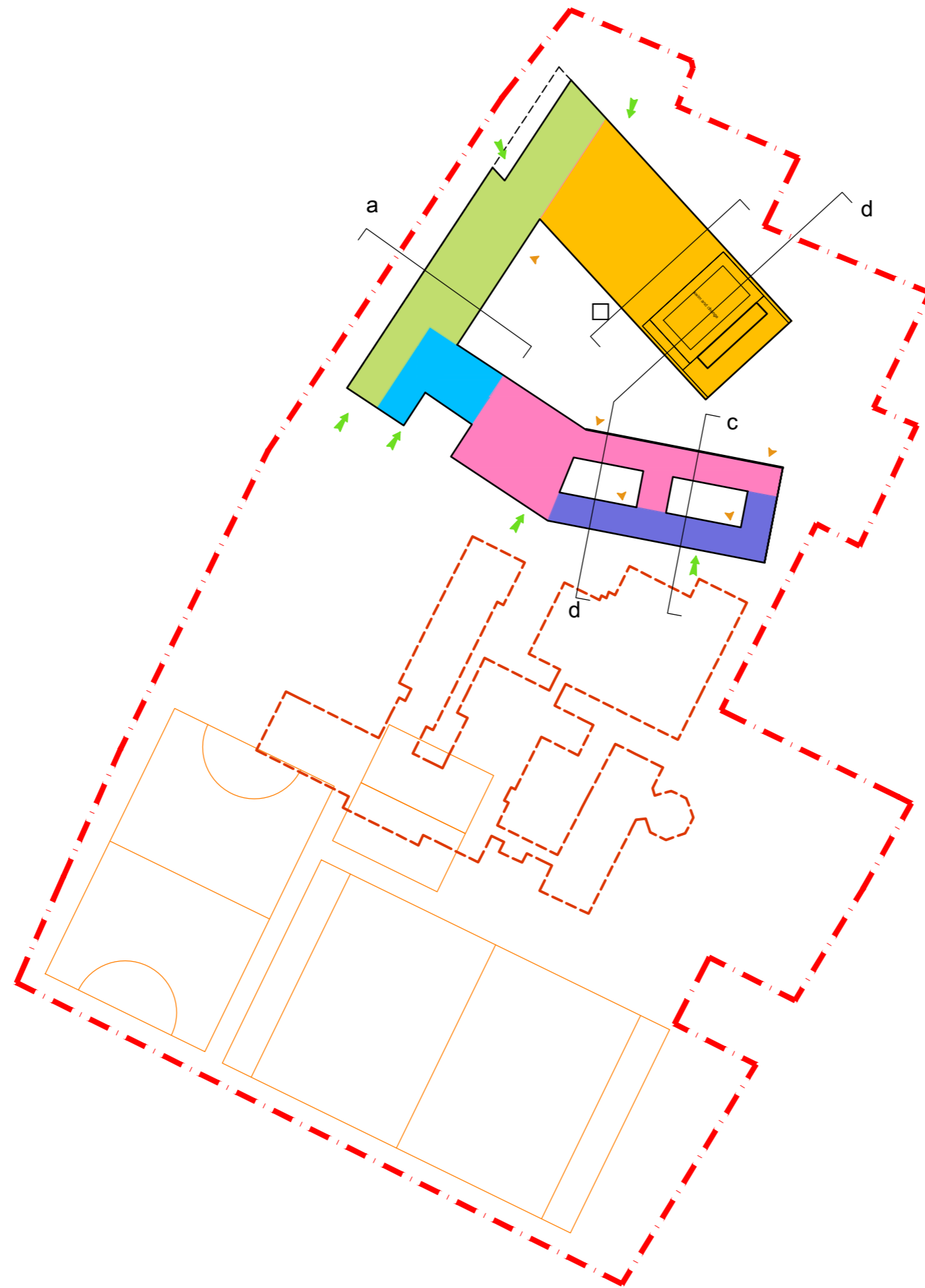
-  st duthus school
-  nursery
-  primary
-  secondary
-  community

Tick Tack - Second Floor Plan



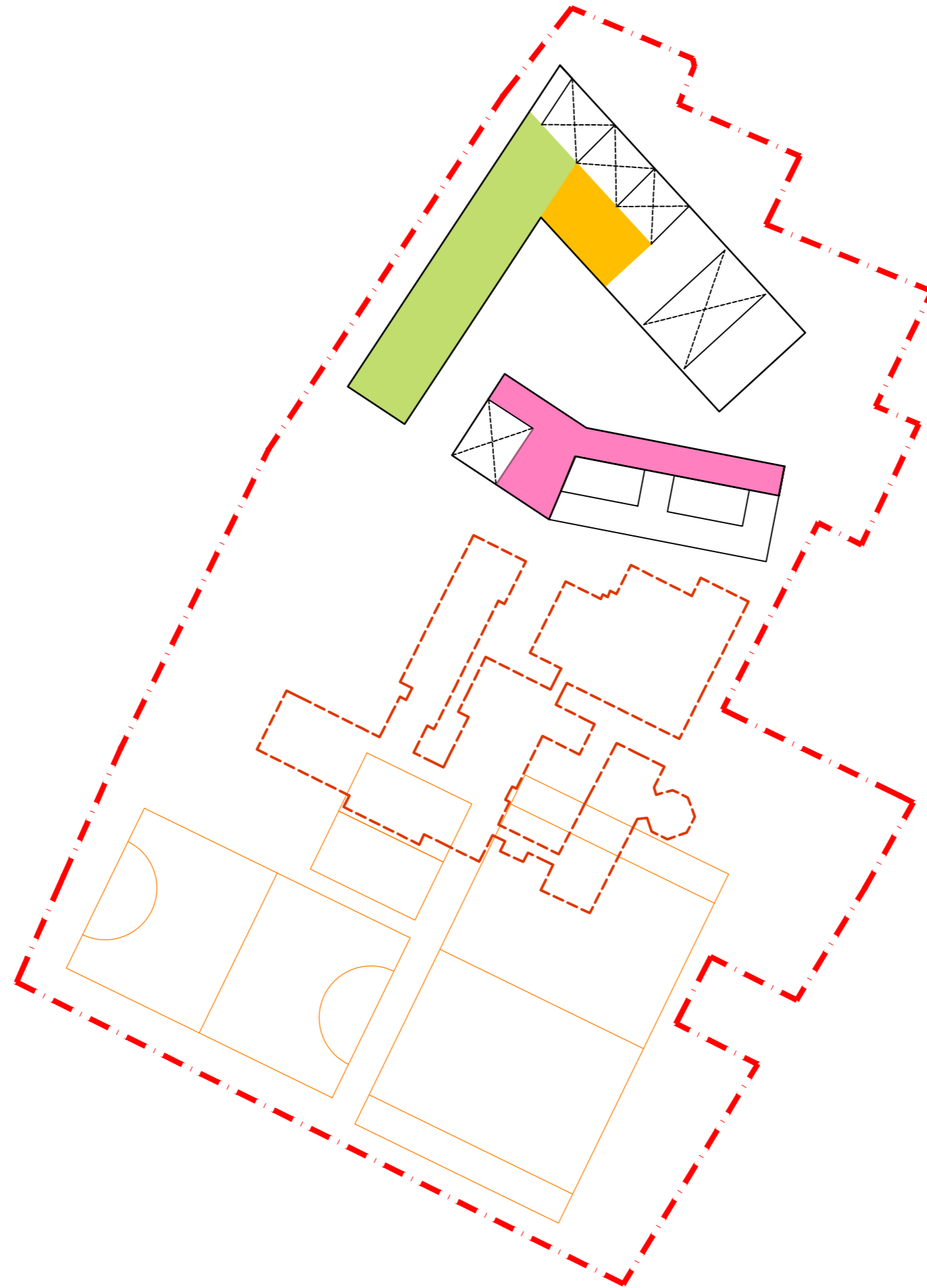
- st duthus school
- nursery
- primary
- secondary
- community










- st duthus school
- nursery
- primary
- secondary
- community






Courtyard Cluster - Ground Floor Plan



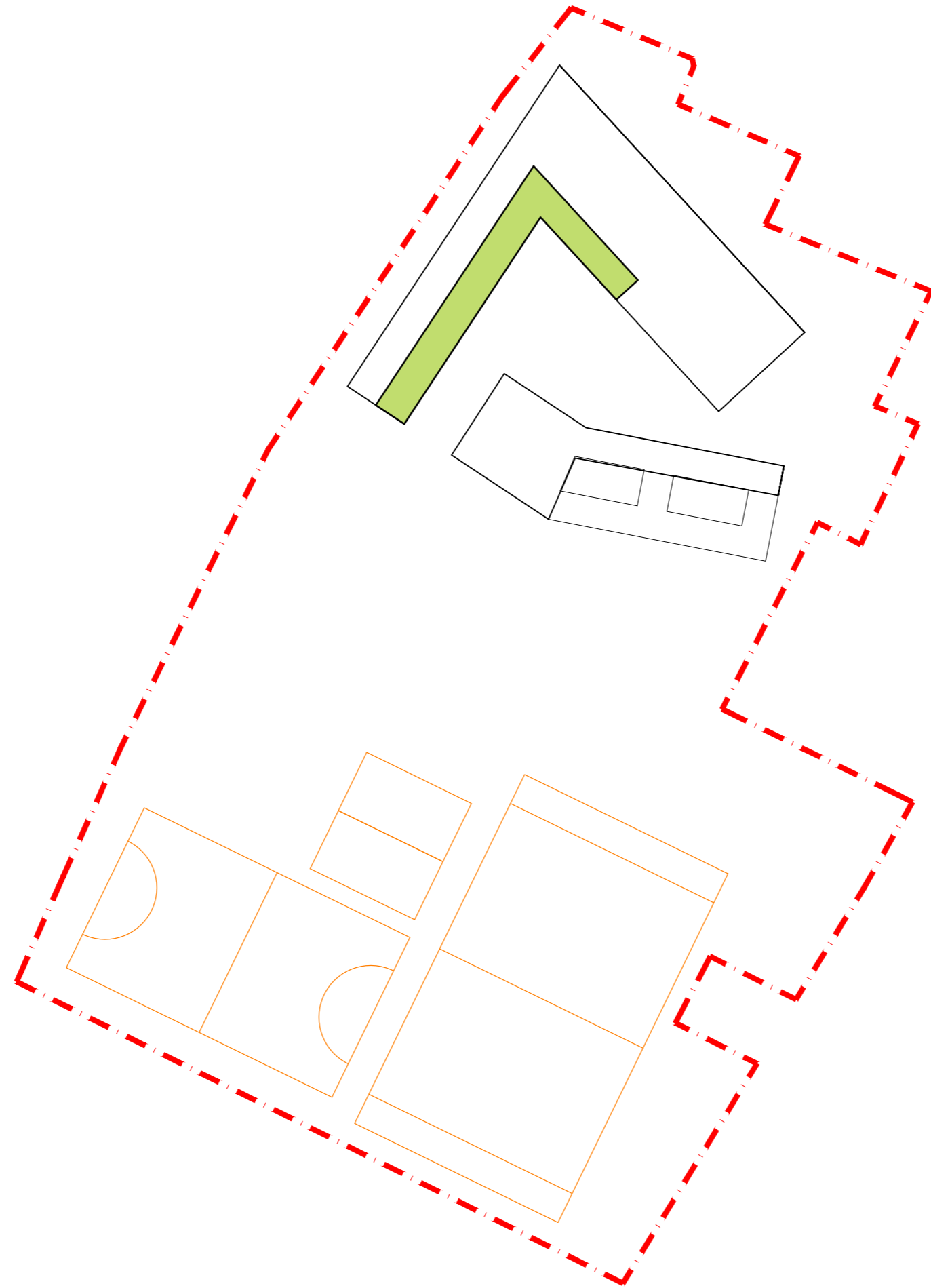
-  st duthus school
-  nursery
-  primary
-  secondary
-  community

Courtyard Cluster - First Floor Plan



-  st duthus school
-  nursery
-  primary
-  secondary
-  community

Courtyard Cluster - Second Floor Plan



st duthus school



nursery



primary

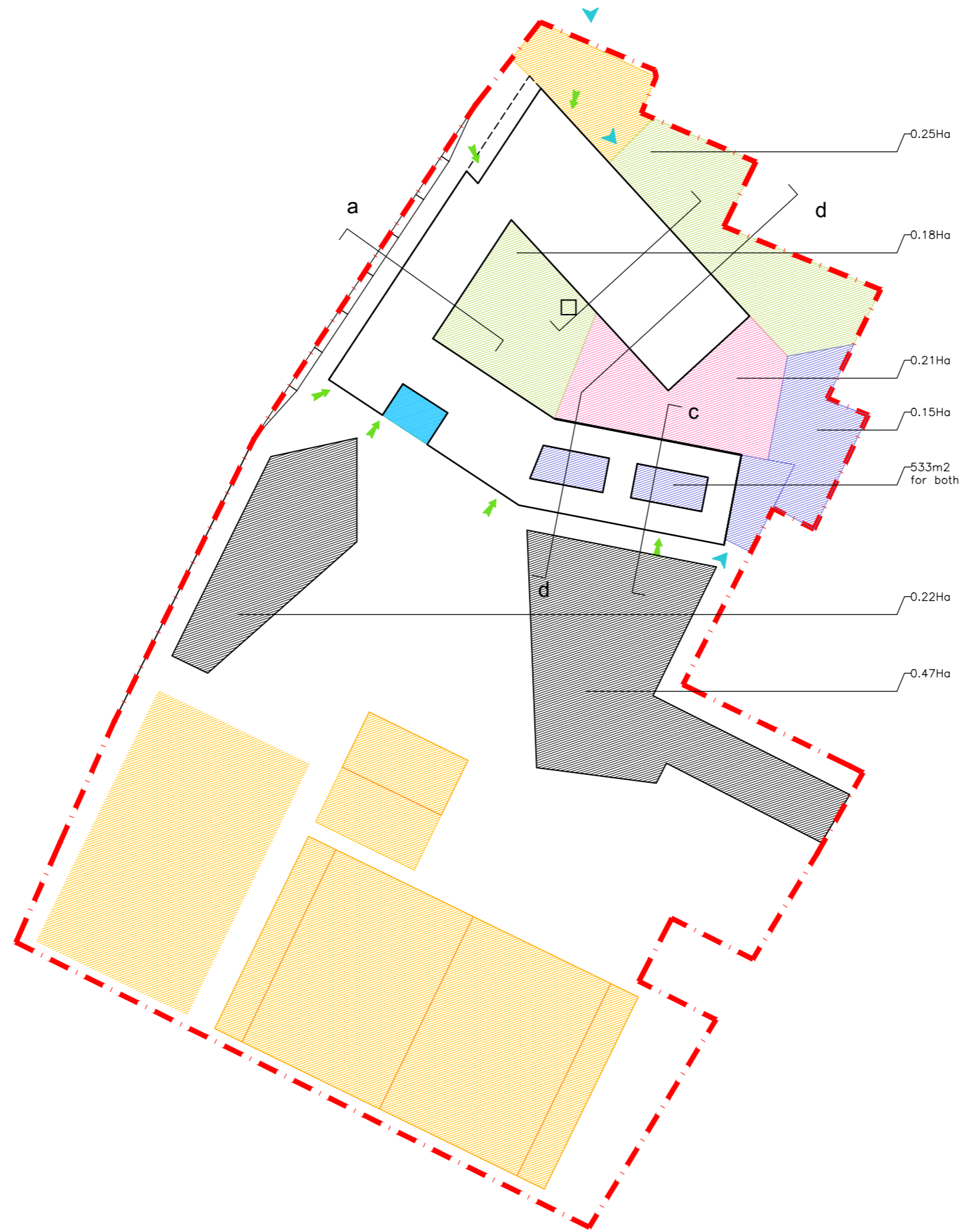


secondary



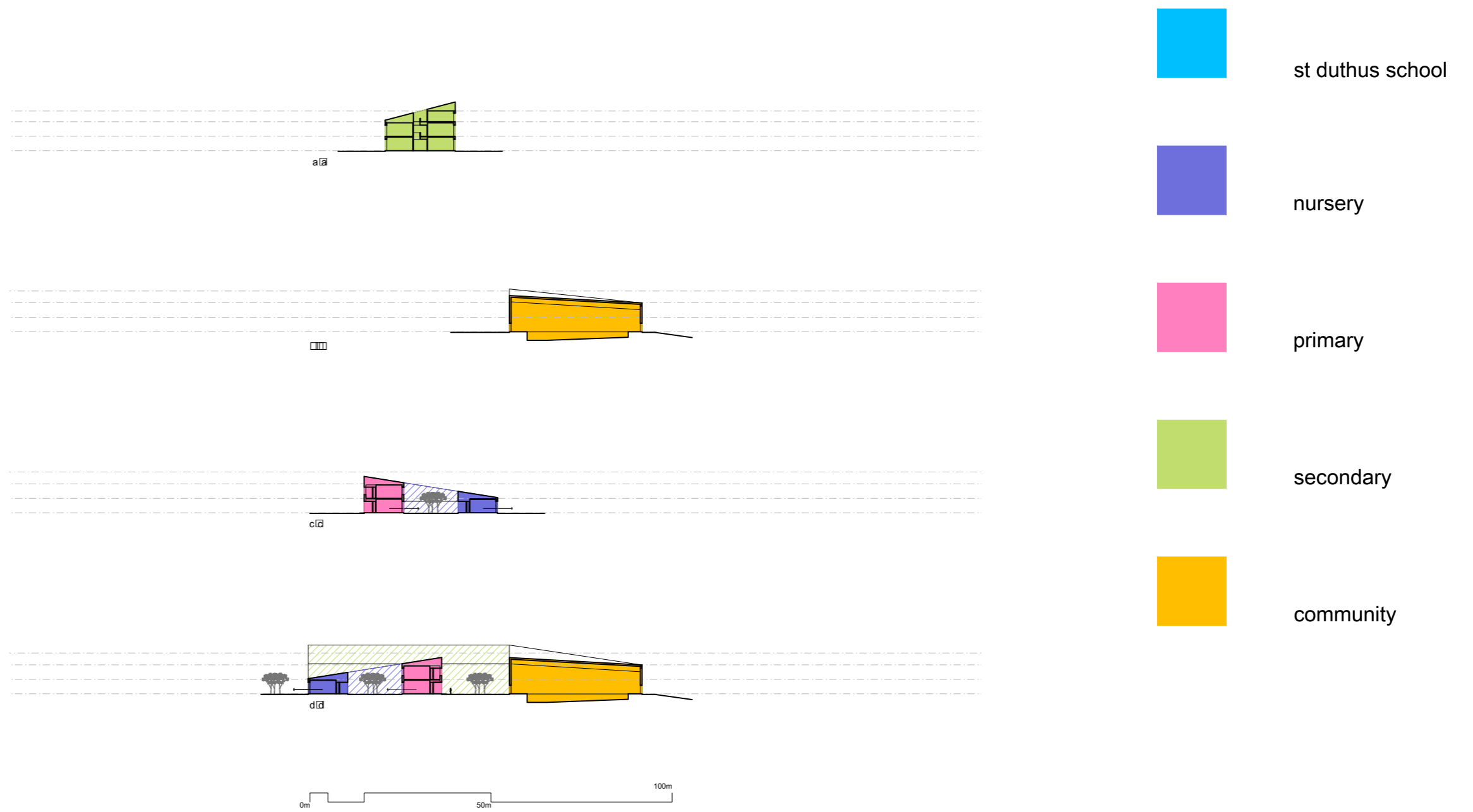
community

Courtyard Cluster - Third Floor Plan

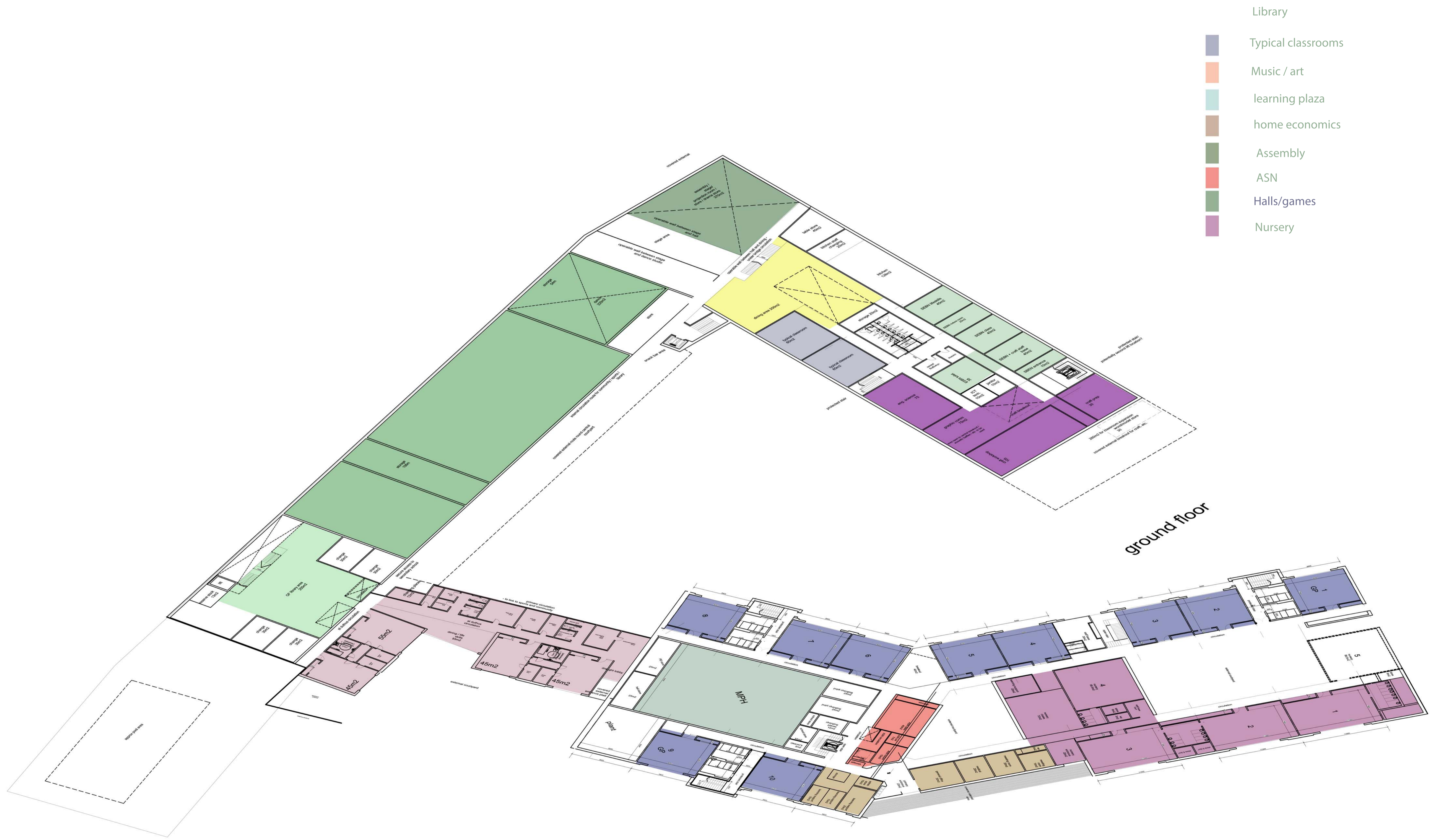


- st duthus school
- nursery
- primary
- secondary
- community

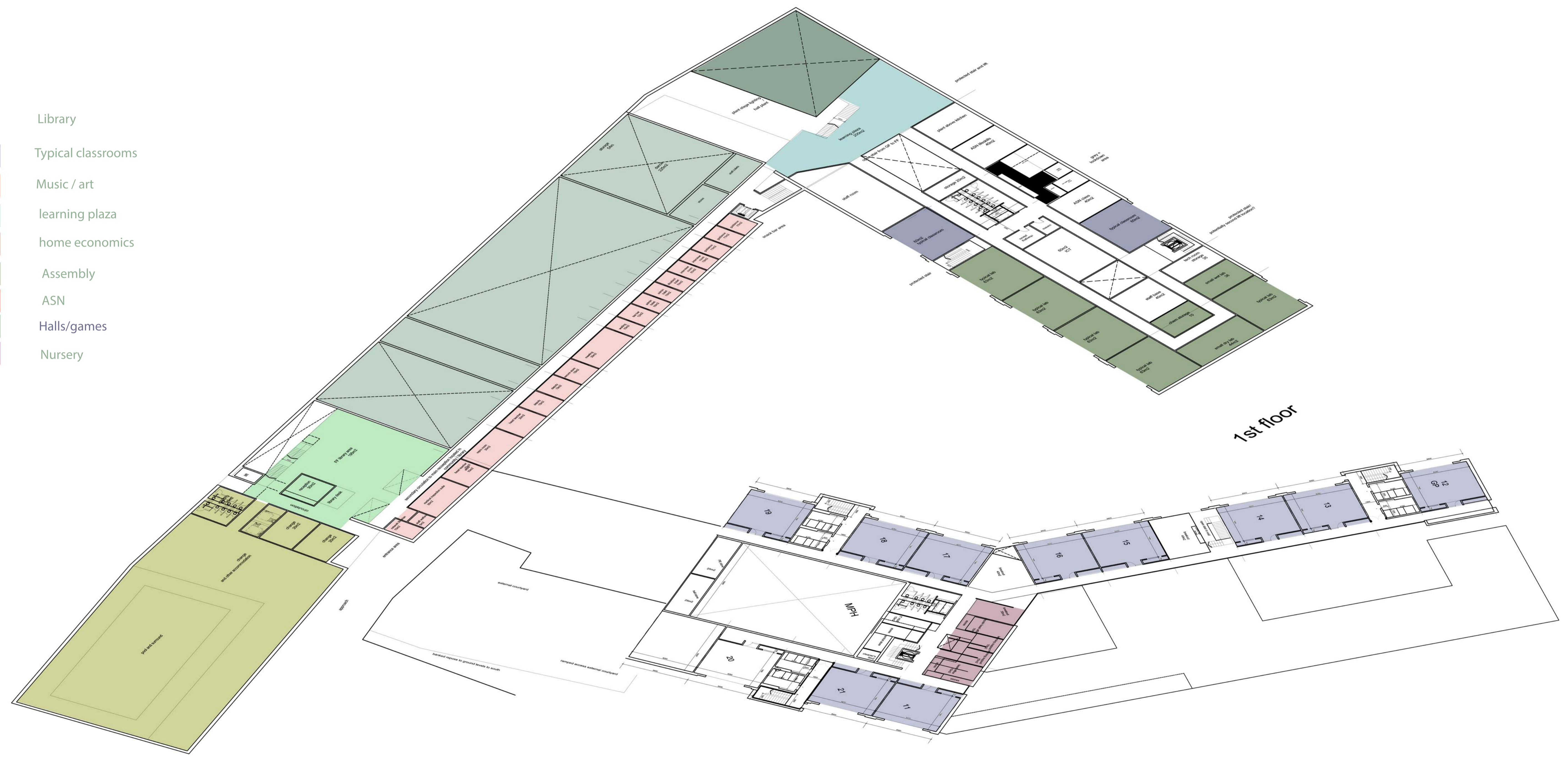
Courtyard Cluster - External Areas

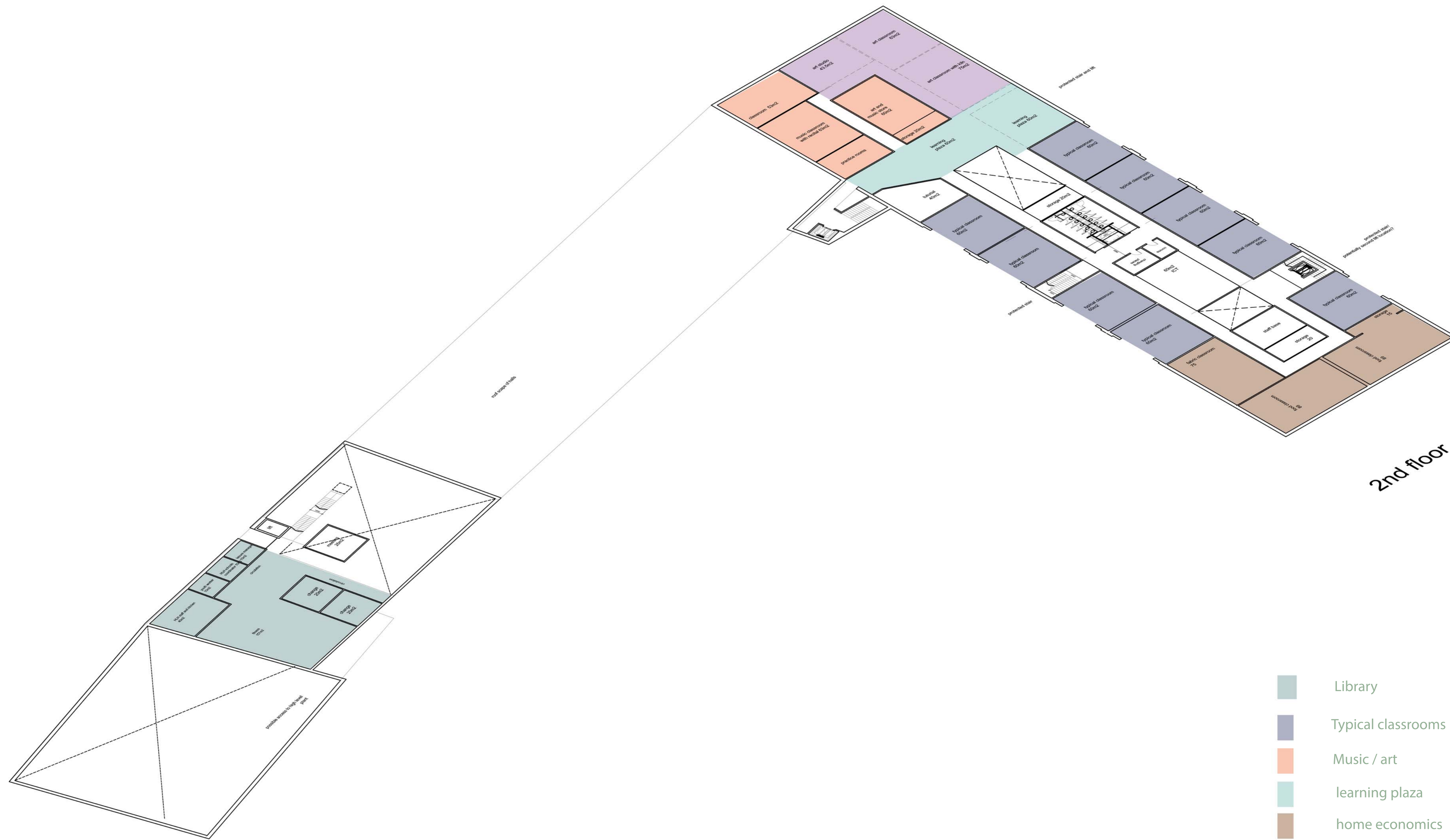


Courtyard Cluster - Sections



- Library
- Typical classrooms
- Music / art
- learning plaza
- home economics
- Assembly
- ASN
- Halls/games
- Nursery





2nd floor

Precedent

Minster School,
Penoyre and Prasad



Hazelwood School,
Murray Dunlop Architects



Waingels College,
Sheppard Robson



Westminster Academy,
AHMM



Les Beauchamps High School
Design Engine



Wick Joint Campus



Inverness Royal Academy



Wick Joint Campus



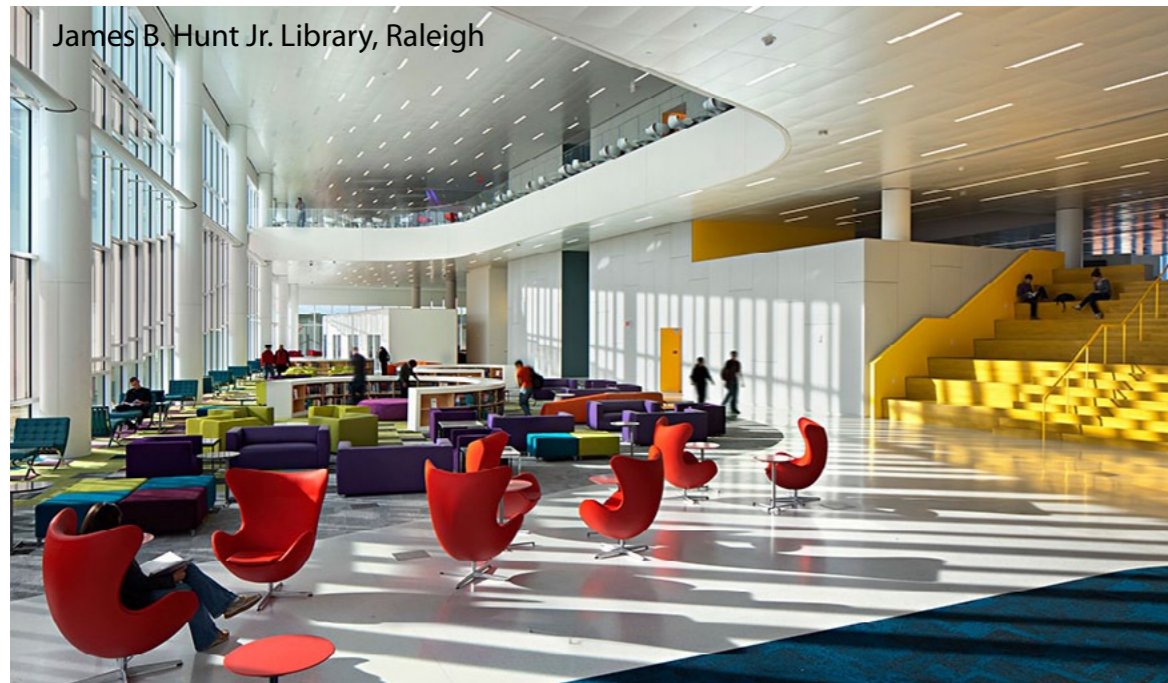
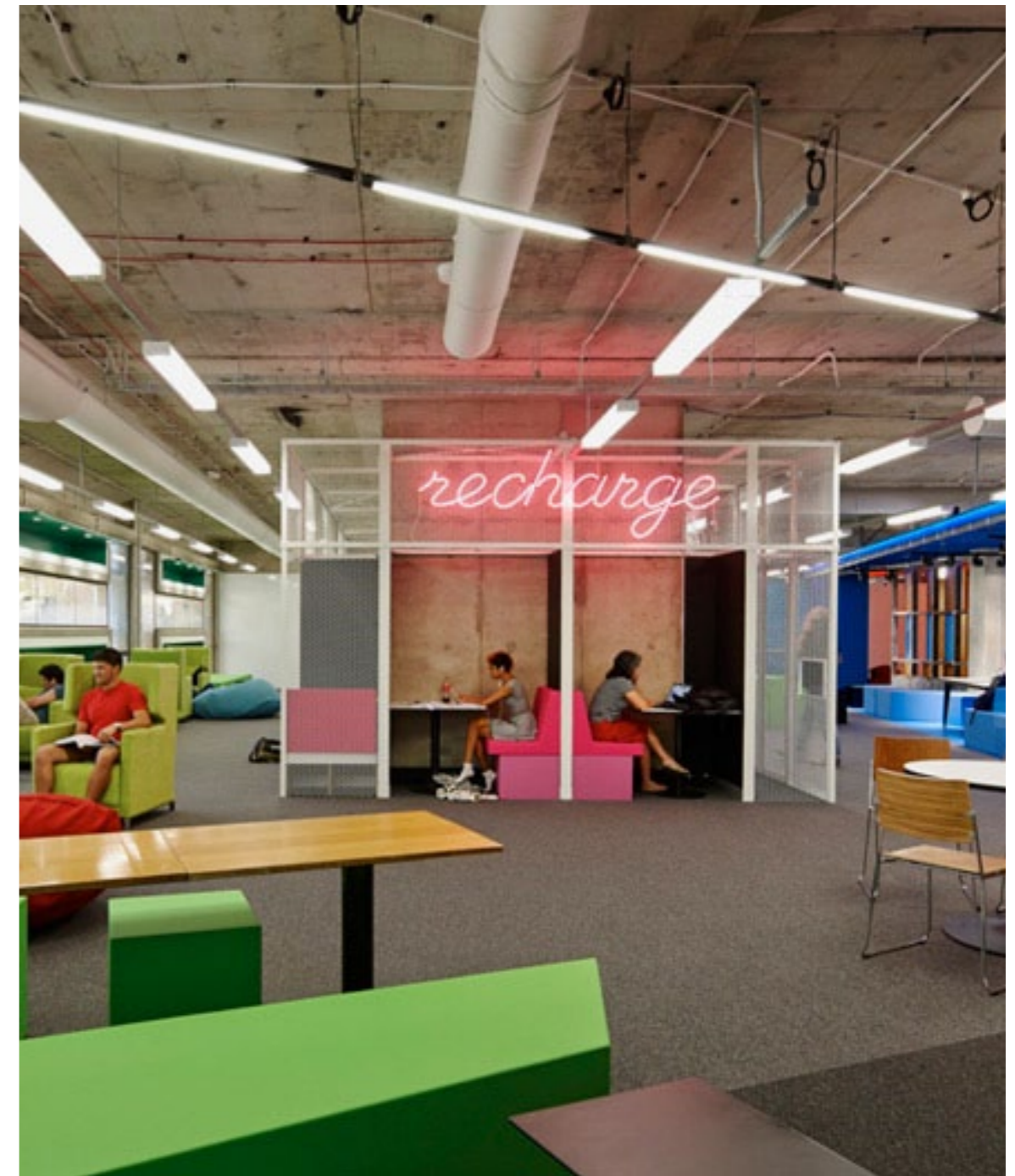


Diagram 13C - Precedent - Flexible Learning Spaces

St Mary's Primary School, Derrimut



St Mary's Primary School, Greensborough



Scotts Valley Library



Scotts Valley Library



Scotts Valley Library



Diagram 13D - Precedent - Flexible Learning Spaces

