

Developing a climate resilient school estate.

Crawford Wright - Head of Architecture & Design - Department for Education



The Design Team: Architecture/Building/Climate

75 years of the Design Team

Setting standards for good education buildings since 1949.





ENSURING ALL SCHOOLS AND COLLEGES ARE:

HEALTHY AND PRODUCTIVE

THE RIGHT SIZE

SAFE, SECURE AND SUSTAINABLE

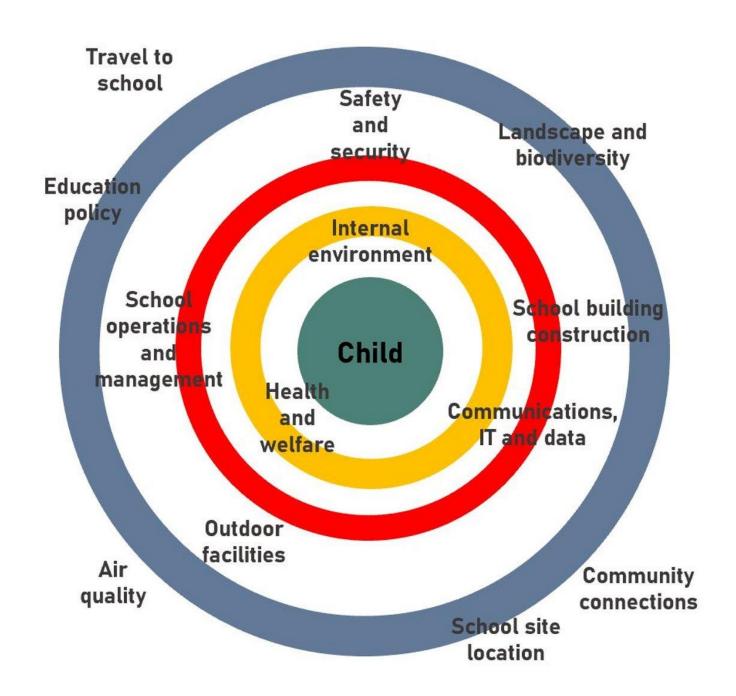




The ecology of the school

The key relationships of elements of a good school with one another and to the outside, placing the child at the centre of everything that is done.





The Resilient School Project

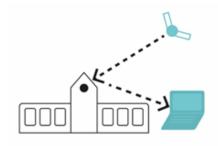
Delivering high impact, efficient and scalable retrofit solutions



Creating a better school environment through:



Improve ventilation



Improve connection



Energy generation and efficiency



Increase resilience

Project Aims

Condition Data Collection 2 (CDC2)

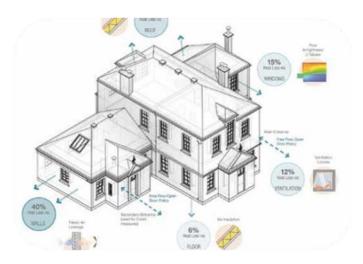
Programme Guide

March 2021

Condition



Typology



Interventions



Value for Money

Project Strategy







End User Focused
Resilience, Comfort
& Wellbeing



Scalability
Testing a school led
delivery model



Supporting Schools
Guidance
& Case Studies

Impacts & Outputs



Keelham Primary School

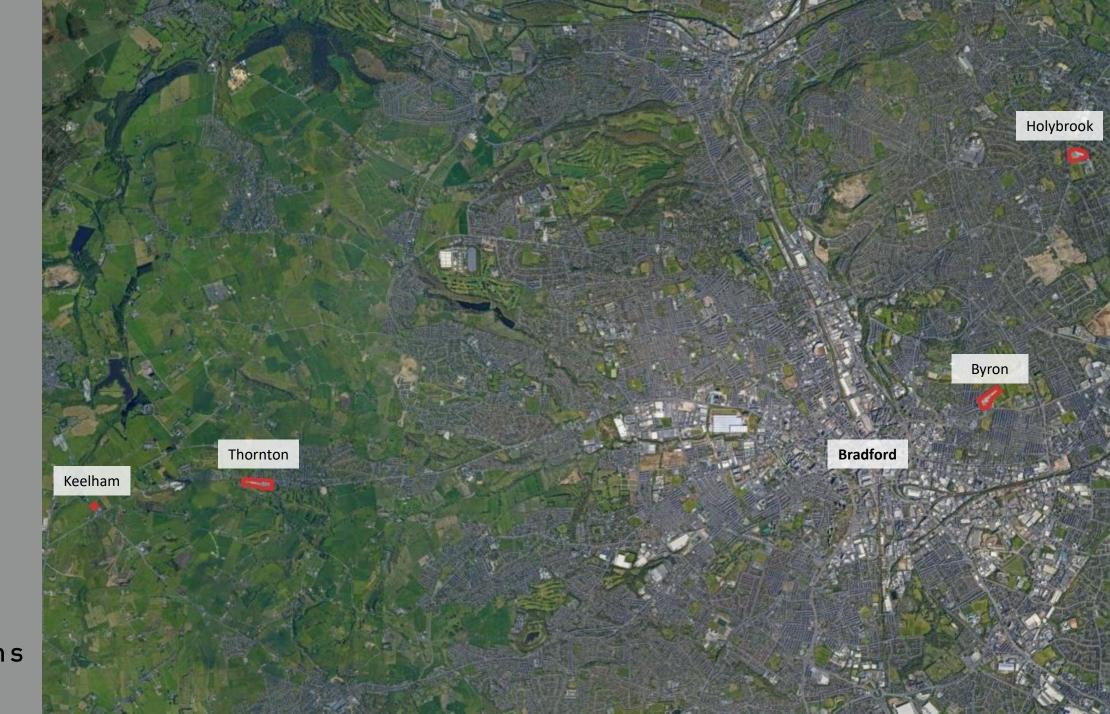
Outcome: Feduce heat loss and protect energy output

Internal Boundary Wall Removal & Planting

intervention: improve resilience to surface water flooding and general blodwersity.



The Schools



Site Locations



SuDs (permeable surfacing) Green barrier to roadside (AQ) Tree planting for solar shading

> BMS commissioning Monitor & sensors Energy efficient ICT

Window & door replacements Installation of PIR LED lighting Installation of PV panels



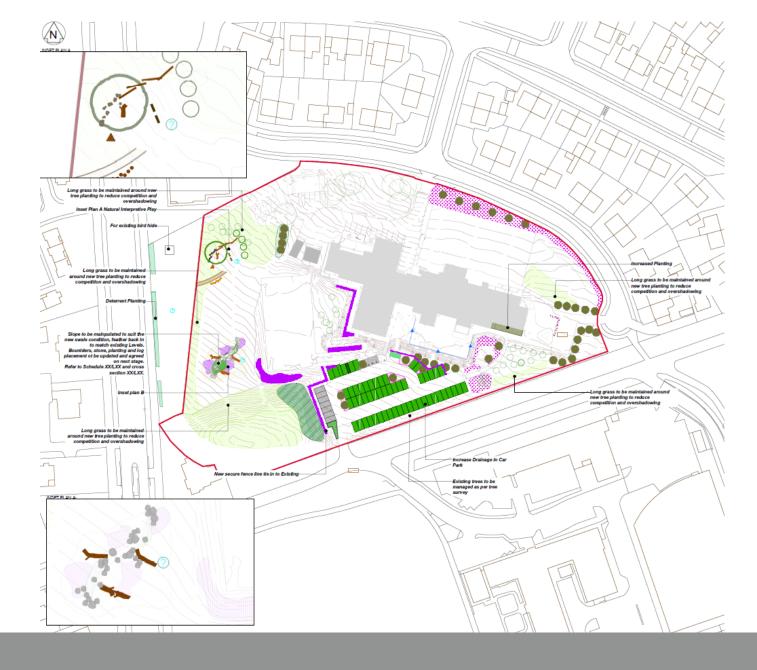


Tree planting for solar shading Outdoor teaching & town square SuDs and drainage

> BMS commissioning Monitor & sensors Energy efficient ICT

Insulation & plant upgrades
Installation of PIR LED lighting
Solar film to windows



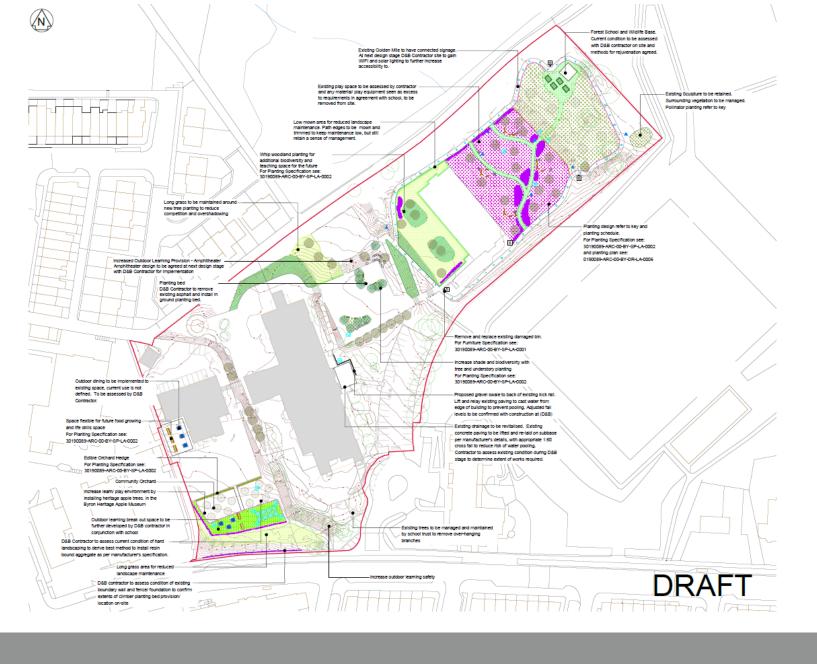


SuDs & raingardens to car park Tree planting for solar shading Woodland planting & natural play

> BMS commissioning Monitor & sensors Energy efficient ICT

Solar film to windows Installation of PIR LED lighting Installation of PV panels





SuDs Tree planting for solar shading Outdoor teaching & dining

> BMS commissioning Monitor & sensors Energy efficient ICT

Solar film to windows Installation of PIR LED lighting Installation of PV panels





School sites:

Thank you



