



**COMPLETE MEP
SOLUTIONS**

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INTRODUCING G&H PROJECTS

We deliver independent mechanical, electrical and public health (MEP) services for schemes typically valued between £50,000 and £1 million.

Working directly for end users and building and energy consultants, we also operate as the principal contractor delivering full scope turnkey new build and retrofit solutions.

In particular, we have extensive experience delivering projects for education facilities such as schools, colleges and multi-academy trusts.

We have completed a significant number of Department for Education schemes – from large-scale plant rooms to fire alarms and emergency lighting – financed by the Condition Improvement Fund (CIF) and Salix Energy Efficiency Fund.

Our comprehensive approach supports clients and consultants throughout the entire process from initial concept and feasibility work that is delivered without obligation, to in-house BIM-led design and on-site installation.

By working with us, clients know they are receiving a bespoke integrated service from a single point of contact that manages the entire process to the highest standard.

Our aim is to solidify existing relationships with clients and develop new ones with organisations who recognise the benefits our approach brings.

Marc Ambler
Manager
G&H Projects



G&H GROUP

Formed in 1998, the c.£55 million-a-year G&H Group co-ordinates and project manages the entire MEP process.

G&H Projects is one of five complementary divisions in the Group.

We work closely with the other four divisions – Building Services, Maintenance, Engineering Services and Air Conditioning – capitalising on sharing best practice, knowledge and experience.

The Group directly employs over 180 members of staff at its purpose-built headquarters, on sites across the UK and in its specialist off-site fabrication facility.

Sustainable MEP solutions are central to the Group's ethos to help build a cleaner and greener future.

As such we have created our own energy efficient product and brought it to market in the form of Encore, which is the world's most environmentally-friendly cistern being the only one to use air conditioning condensate to flush the toilet.

Our innovation does not stop there.

We were one of the first MEP specialists to include BIM in our everyday operations and have supplemented this in recent years with more investment in technology.

We take a technology-led approach with Revit 3D modelling software used in conjunction with our bespoke Dalux cloud-based augmented reality app. This allows on-site engineers and project managers to view our design team's drawings and any changes via mobile, tablet or laptop in real time throughout the process.





G&H Building Services

Design and installation of all the MEP services every building needs to operate safely, comfortably and as sustainably as possible. Our focus is always on the people who use the building to create the optimum environment for them to live, work and play in.



G&H Projects

Independent MEP services for schemes valued between £50,000 and £1 million, with extensive experience delivering projects for education facilities. Working directly for end users, building and energy consultants, we also operate as the principal contractor.



G&H Maintenance

Delivering fully compliant planned and reactive maintenance for organisations with large estates across the UK. We have been retained by Leeds City College since 2011 and Bourne Leisure since 2012 to name but two.



G&H Engineering Services

Specialist fabrication of all MEP building services equipment complemented with full electrical process engineering. From simple flanged lengths to 28" stainless steel flue pieces, large skid-mounted plant rooms and components for industrial-scale facilities.



G&H Air Conditioning

We design, build, install and retrofit air conditioning services for all building types and have Mitsubishi, Toshiba and Dakin approved partner status.

SERVICES PROVIDED

We design and install all the MEP services every building needs to operate safely and comfortably. All the buildings we construct and MEP services we deliver are bespoke to the people who will be using them, creating the optimum environment to operate in.

Principal Contractor

We have a wealth of experience managing the entire construction phase of projects from new builds to full turnkey fit outs operating as principal contractor and principal designer.

All aspects are managed in-house by our specialist departments and we directly employ all trades to deliver the work.

MECHANICAL



Heating, ventilation & air conditioning (HVAC)



Plant rooms & boiler house refurbishments



Drainage



Cold & hot water



Low temperature hot water



Domestic services



Sanitary ware



Pipework



Gas















Cooling



Building Management Systems

ELECTRICAL

-  Low & high voltage supplies
-  Distribution boards
-  Containment systems
-  Power – general & small
-  Lighting
-  Alarms
-  CCTV
-  Voice data
-  DDA systems
-  Access controls
-  Vehicle charging points
-  Audio Visual

ASSOCIATED WORKS

-  Core holes
-  Asbestos removal
-  Fire stopping
-  Making good
-  Joinery
-  Decorating



OUR APPROACH

Concept

Early participation in concept development allows us to provide better design and financial value throughout the scheme, shaping the project to meet your specific needs.

Feasibility

We carry out detailed feasibility studies formally presenting options with commentary and advice to aid your decision-making.

Cost analysis

Our in-house estimating department allows us to offer cost support and analysis, drawing on nearly a quarter of a century of project delivery data to ensure excellent value for money.

Specification

We are extremely experienced in the preparation of detailed specifications and contractors' proposals as well as developing schemes with consultants and low carbon assessors.

Our design and estimating teams work together to select the most appropriate plant, equipment and systems.

Design

Our design technicians are BIM accredited to ensure co-ordination and collaboration between structure, architecture and our individual services.

Using the Dalux app, our site engineers and project managers have instant access to the latest information while clash detection software further increases efficiency.

Performance & compliance

We provide building regulation and compliance as standard in all the design work we create and install.

Installation

By directly employing operatives and engineers, we ensure right-first-time installations to the exacting standards demanded by our senior quality control Zero Defects and compliance team.

The Group's Maintenance division offers planned and reactive aftercare support.



OUR PEOPLE

People are central to our success as a business.

They create the overall, long-standing impression on clients through their behaviour and quality of their work.

That's why all our engineers and operatives are employed directly and we invest heavily in training to provide high-quality career development opportunities.

A key, non-negotiable requirement when we recruit is whether candidates have the personality traits we demand as a business that promotes a personable, friendly and positive culture.

All on-site staff wear branded uniforms and PPE to make them identifiable and accountable for their work and are approachable and helpful.

We maintain a continuous professional development training matrix to ensure every member of staff has the latest education and understanding required to carry out their roles to the best of their abilities.

We created an Apprentice Training Academy to give young people the chance to gain practical, hands-on experience and learn MEP skills in our purpose-built centre.

Led by our Training Manager, we support apprentices through their four-year training courses, teaching new skills, mentoring and helping them forge fulfilling careers while complementing their college-based learning.

Over 30 apprentices who graduated from the training course continue to work with us.

The safety of our people is of paramount importance. We arrange for them to attend regular training courses at Leeds College of Building run by specialist safety companies and independent consultants audit our Health and Safety Police working closely with our in-house team.



CLIENTS

EDUCATION



MANAGING AGENTS

Eddisons



mhbc
CUMMING

CBRE



SPORT & LEISURE

TMF *Fitness First*

**LEEDS CRICKET,
FOOTBALL AND
ATHLETIC COMPANY**



CASE STUDY
TADCASTER
GRAMMAR
SCHOOL
PLANT ROOM



COMPREHENSIVE

removal and replacement of entire plant room

OPERATED

as the principal contractor

WORKED

to a six week school summer holiday deadline

OUT

of core office hours worked to meet deadline



KEY FACTS

Project title: Plant room replacement
Location: Tadaster
Client: STAR Multi-Academy Trust

Contractor: G&H Projects
Value: £300,000
Duration: 6 weeks

CASE STUDY

HOW WE DID IT



BEFORE

Sherburn, Tadcaster and Rural (STAR) Multi-Academy Trust (STAR MAT) appointed us to provide a solution to its inefficient boiler and plant room at Tadcaster Grammar School.

Due to the existing plant rooms age, it was impacting on how the school operated with it being susceptible to winter weather breakdowns and general unreliability.



AFTER

To ensure there was no disruption to pupils and staff, our work started at the end of the summer term and scheduled for the six weeks school holiday so it was fully installed, tested and operational for the new academic year starting in September.

This pressing deadline was further impacted by the discovery of asbestos during the plant room extraction works which required specialist removal.



AFTER

To ensure we stayed on programme, extended hours were worked out of core times including evening and weekends to meet the non-negotiable deadline.

A high-level of organisation was needed to make sure our work stayed on course of the programme we had carefully planned and this was especially important given the small space in which our engineers and project managers had to operate in.

Our work saw the existing plant room decommissioned with power closed off and systems drained before the full removal process took place.

New high-efficiency boilers, flue and full BMS controls were installed along with associated builder's works delivered.

This has provided the school with a reliable, clean and efficient plantroom to ensure it can provide the best conditions with secure back-up plans in place for pupils and staff alike.

All services are fully compliant and complements the school's cost-effective asset strategy as well as reducing the risk of failures, cuts reactive maintenance costs and increases the liability of equipment.

CASE STUDY
WALES HIGH SCHOOL,
SHEFFIELD
PLANT ROOM



COMPREHENSIVE

removal and replacement of entire plant room

OPERATED

as the principal contractor

WORKED

term time working in a live environment

OUT

of core office hours worked to meet deadline



KEY FACTS

Project title: Plant room replacement & coil heater replacement
Location: Sheffield
Client: Wales High School

Contractor: G&H Projects
Value: £150,000
Duration: 7 weeks

CASE STUDY HOW WE DID IT



Wales High School has a roll of over 1,800 pupils across its vast estate. As such, it requires a power supply that is reliable, economical and energy efficient. We helped the school apply to the Department for Education's Condition Improvement Fund to finance a plant room replacement scheme and fan coil heater installation so it could meet these aims.

Once secured, we operated as the principal contractor and designed the scheme using the latest BIM technology ahead of managing the installation.

Working in school time in a live environment around pupils and staff with consideration and by employing the highest health and safety standards, we decommissioned power and removed the existing plant room.

A new plant room was installed with high-efficiency boilers, flue and full BMS controls and we worked out of core hours to ensure we stayed on programme.



The second stage of our work saw us retrofit a fan coil heating system in the school's main hall, embedded in the walls.

This was extremely invasive and required us to project manage a significant amount of building works.

Wales High School now has two of its main power supplies completely modernised making the HVAC services more reliable and efficient from both delivery and economic perspectives.



CASE STUDY
TADCASTER GRAMMAR
SCHOOL FIRE ALARM



COMPLETE

strip out of existing fire alarm system throughout the school

HARDWIRED

new alarm into all areas covering 38,000sqm

GRADE L2

and emergency lockdown system installed

WORKS

scheduled around the school timetable to avoid disruption



KEY FACTS

Project title: Replacement fire alarm system
Location: Tadcaster
Client: STAR Multi-Academy Trust

Contractor: G&H Projects
Value: £400,000
Duration: 12 weeks

CASE STUDY

HOW WE DID IT



Having delivered a comprehensive plant room replacement for Sherburn, Tadcaster and Rural Multi-Academy Trust (STAR MAT), we were appointed to deliver a full replacement of its fire alarm system at the 1,200-pupil Tadcaster Grammar School.

Working systematically through the school's 38,000sqm floor plan, we removed the existing fire alarm and replaced it with a state-of-the-art, Grade L2 system bespoke to the school's requirements.

Our works were carried out in a live school environment with rigorous planning in place to ensure the highest health and safety levels. Out of core working hours was required to complete the scheme with our engineers and project managers on site during evenings and weekends when the school was empty.

This avoided any disruption to not just teaching and learning but all other works that are carried out to keep the school functioning including office duties, canteen and estates management.



Due to the size of the school and the requirement to ensure a fully functioning fire alarm system was in place at all times, a piecemeal operation of removing, replacing and testing each section room-by-room, corridor-by-corridor was used throughout the 12-week programme.

The completed work provides the school with a more secure, reliable, compliant and comprehensive system, one that features autodetection, gives the school the ability to operate a one-out-all-out evacuation policy as well as an emergency lockdown protocol.



G&H

P R O J E C T S

CASE STUDY
PPB
DARTFORD



FULL

turnkey fit out design and build

OPERATED

as the principal contractor

MET

a non-negotiable deadline of just four weeks

DESIGNED

and installed bespoke MEP services to meet PPB's needs

ENSURED

the client could continue operating with no downtime



KEY FACTS

Project title: Turnkey internal fitout
Location: Dartford
Client: PPB

Contractor: G&H Projects
Duration: 4 weeks
Value: £200,000

CASE STUDY

HOW WE DID IT



To meet this growth PPB required new, larger premises and decided to move from its Sidcup warehouse to a new purpose-built unit in a prime logistical location next to the Dartford Crossing.

Operating as the principal contractor, we provided the full design and build of all mechanical, electrical and public health services and also designed the layout of the warehouse that included 10 per cent of office space.

This full turnkey fit out scheme saw G&H Projects work to a tight deadline to ensure an existing client moved into new premises on time and without losing operating time. PPB is a distributor and converter of point-of-purchase materials to the screen print, digital and large format markets.

Its stock includes paper, plastic and board for sign makers, fabricators and digital printers. Operating out of centres in Leeds and Sidcup, it handles c100 tonnes of material every day with demand increasing month-on-month, year-on-year.



The most notable challenge of the project was a non-negotiable deadline of just four weeks. The old Sidcup site had to be vacated and machinery and stock needed to be installed at the new site in Dartford so there was no production downtime.

This required highly detailed programme planning with the most relevant engineers on-site at specific times to dovetail with one another.



We designed and installed a range of bespoke MEP services including extraction and ventilation and specialist power supplies.

Air-line systems were installed for machinery such as precision sawing, large format die cutting, laser cutting and engraving.

The new unit was fully operational ahead of the deadline and now sees PPB operating from a bigger site with specific MEP services.

As part of G&H Groups full service MEP offering, the G&H Maintenance division delivers pre-planned, reactive maintenance and compliance and also at PPB's Leeds premises.

G&H
P R O J E C T S

CASE STUDY TADCASTER GRAMMAR SCHOOL LED LIGHTING



2,200

lights removed and reinstalled with new environmentally-friendly LEDs

ASSISTED

with Public Sector Decarbonisation Scheme grant application

52,600kg+

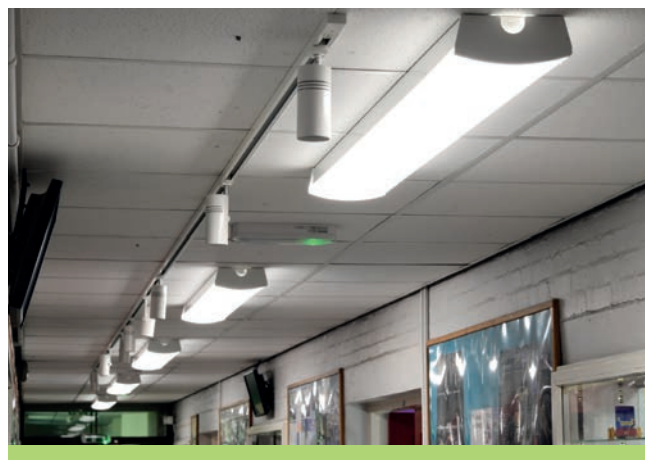
of carbon saved a year

COVID-19

required us to carry out a thorough deep clean every day

LIVE

school environment to work around so rooms could be used safely



KEY FACTS

Project title: Replacement lighting
Location: Tadaster
Client: STAR Multi-Academy Trust

Contractor: G&H Projects
Value: c. £200,000
Duration: 12 weeks

CASE STUDY

HOW WE DID IT



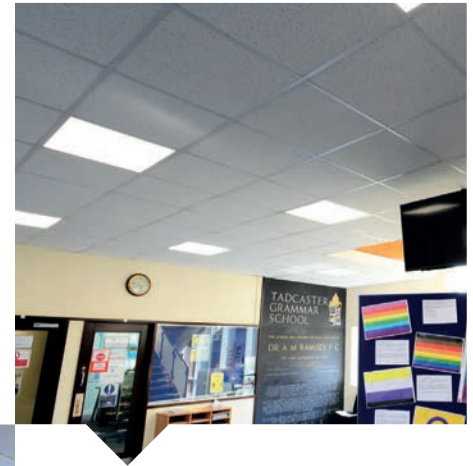
Tadcaster Grammar School is part of the Sherburn, Tadcaster and Rural Multi-Academy Trust (STAR MAT).

As part of its Estates Management's departments drive to improve facilities as ecologically as possible, we were asked to project manage and deliver a large-scale replacement lighting scheme.

Spanning 38,000sqm, we helped the school identify the carbon savings that could be made by replacing its existing lighting system with LEDs.

We carried out a full audit of the existing system and provided calculations of the savings that could be made.

Having successfully helped the school with its Public Sector Decarbonisation Scheme application to the Department for Business, Energy and Industrial Strategy, the second stage was to manage the removal of existing lights and replace them with 2,200 LEDs.



Given this large undertaking in a live environment, it required excellent project management throughout.

During school hours we could only work in non-occupied areas of which there were very few so the majority of our work was delivered out of the school day in evenings and weekends.

Working to a detailed plan and with ongoing liaison with the school's Estates Management department, step-by-step we worked through the school to an agreed schedule replacing not only lights but old cabling too as it was discovered.

Installing LEDs required us to remove ceilings tile covers and then reconstruct them every night and carry out a full Covid-19 standard clean.

Ensuring the classroom was safe for the following morning's lessons.

This labour intensive approach was repeated throughout the 12-week programme and on most occasions required us to complete rooms or sections before finishing for the day.

The project was a huge success from a delivery and results perspective with the school now saving 52,696kg of carbon every year.

G&H
P R O J E C T S

BUILDING FUTURES TOGETHER

We created community interest company Building Futures Together (BFT) to help school pupils experience the construction industry before choosing their GCSEs.

BFT works closely with secondary schools in Leeds, Bradford and other part of Yorkshire to provide career guidance and opportunities.

The aim is to help Year 9 and 10 pupils forge careers in construction, especially those who are hard to engage with at school, don't know what they want to do when they leave and those who have fallen in with the wrong crowd.

By engaging with pupils early, they have time to choose relevant GCSE subjects that will help them find an apprenticeship or jobs in construction when they leave school and give them something to work towards.

BFT runs courses in six week blocks with time spent in schools and in G&H Group's purpose-built Apprentice Training Academy at our Pudsey headquarters.

Courses cover a range of issues including measuring and drawing plans, practical sessions such as radiator and wash basin installations, calculating materials needed, creative problem solving decision making and communication skills.

As well as helping pupils forge careers, BFT helps pupils improve their self-esteem, ambitions, attendance rates, literacy and numeracy, self-awareness, behaviour, attitude and empathy.

More details can be found here:
[Helping pupils forge sustainable careers](#)





CORPORATE SOCIAL RESPONSIBILITY

Helping local people, groups and our community is vitally important to G&H Group and we have a long and proud history.

FARSLEY CELTIC GIRLS FOOTBALL CLUB is a thriving team giving girls the chance to play and improve their footballing skills. We are the long-term shirt sponsors of the girls' under-13s team and have funded various pieces of expensive equipment for the club as it goes from strength-to-strength.

RODLEY CRICKET CLUB is another local sports club that promotes participation among young people that we are delighted to support. We are the shirt sponsors for the under 7, 9, 11, 13 and 15 sides helping raise vital funds for the club's grassroots teams.

LEEDS RHINOS is one of the biggest clubs in the world of Rugby League and allows us to provide funding that ultimately helps its charity, the Leeds Rhinos Foundation, which delivers projects in the heart of the community to make a lasting, positive impact on peoples' lives.

CHARITY FUNDRAISING We have a long history supporting various charities through fundraising activity including St Gemma's Hospice, St James's Hospital, St Leonard's Hospice, Yorkshire Cancer Research, Blood Cancer UK and Macmillan Coffee Morning.

We also provide funding and support for various community groups including Swinnow Lane Community Centre, Pudsey Carnival and The Rotary Dragon Boat Race as well as G&H Maintenance providing pro bono services for two Sue Ryder hospices.





G&H Projects

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