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27th March 2026

Dear Thomas

RCE6909 – Chimney at JL Brierley, Quay Street, Huddersfield

Kirklees Council planning department have requested as part of planning application 2025/91645 a technical review of the chimney at JL Brierley, Quay Street, Huddersfield should the surrounding buildings be modified.

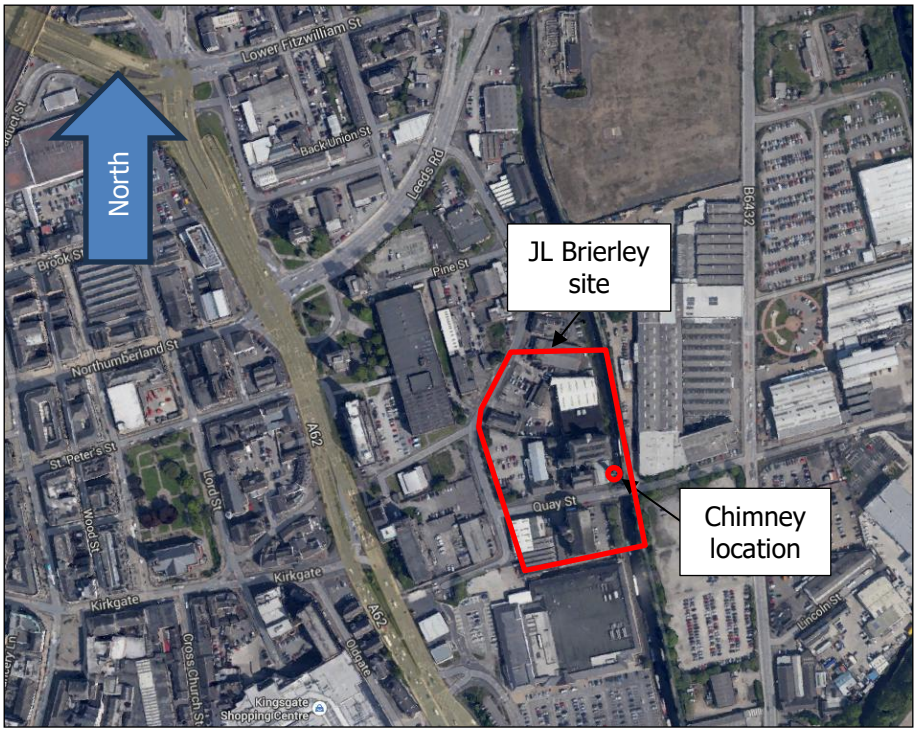


Figure 1 – Site location plan

Refer to Figure 1 for location of site and chimney. Figure 2 shows the overall site layout together with building notation.

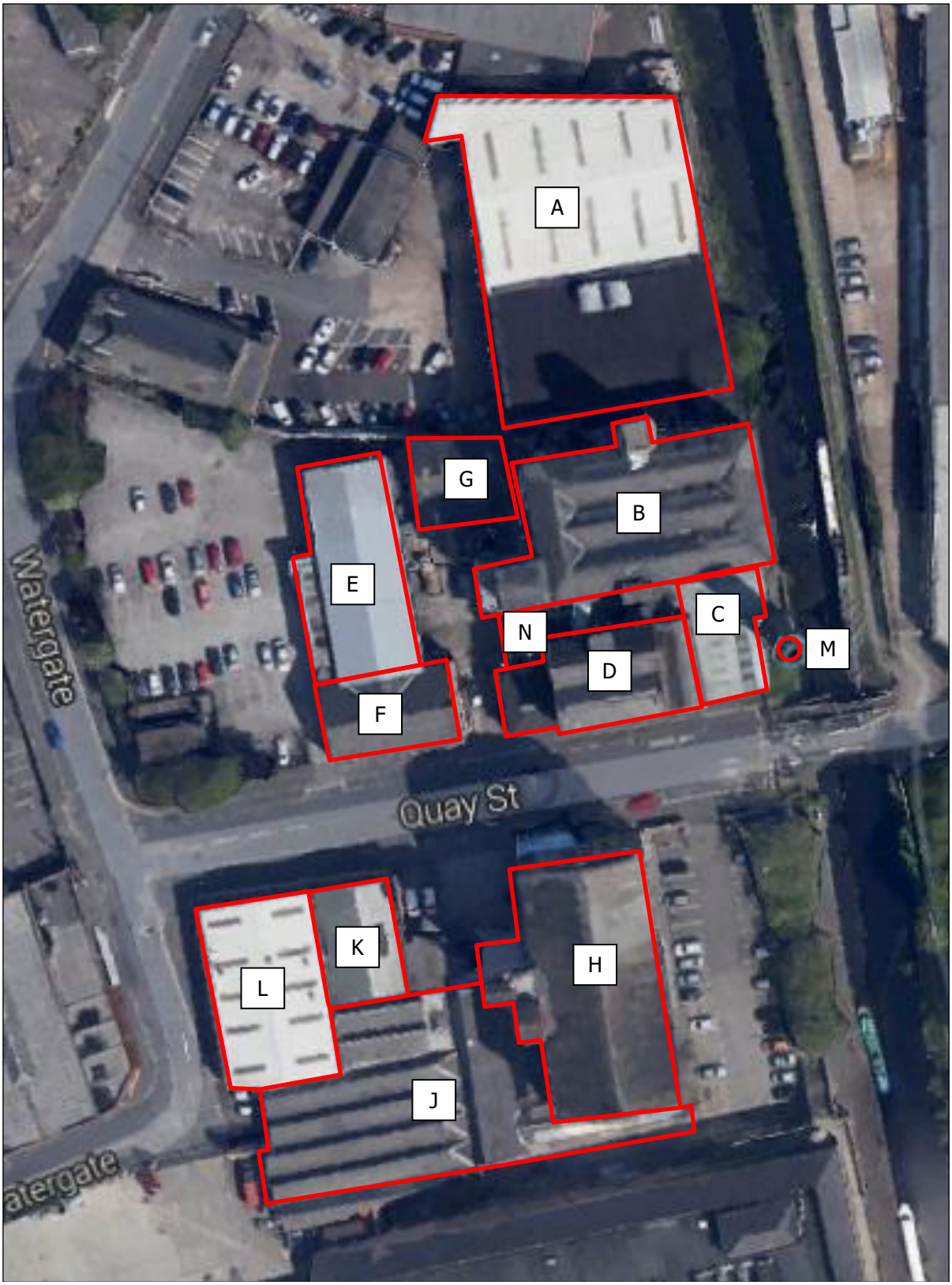


Figure 2 – Building Identification

The chimney is grade (ii) listed and was constructed circa 1872 as part of the Turnbridge Mills development. The chimney is 40.6m tall and is octagonal in plan. The diameter of the chimney at the top is 3m, and 5m diameter at the bottom. The chimney has been constructed of hammer dressed sandstone with a brick inner lining.

A full inspection and report were undertaken by Access Maintenance Solutions Ltd in May 2023. The report stated that the chimney was in sound structural condition except for mortar pointing, stone lamination and a loose lightning conductor. All the recommended work has been undertaken.

Regarding the proposed alterations to the site around the chimney and the possible effects, the effects of wind and stability from adjacent supporting building are the primary concerns. Any other effects are negligible.

Further survey work has been undertaken since the provision of the first iteration of this appraisal provided dated 18th December 2025. The current appraisal builds on that appraisal.

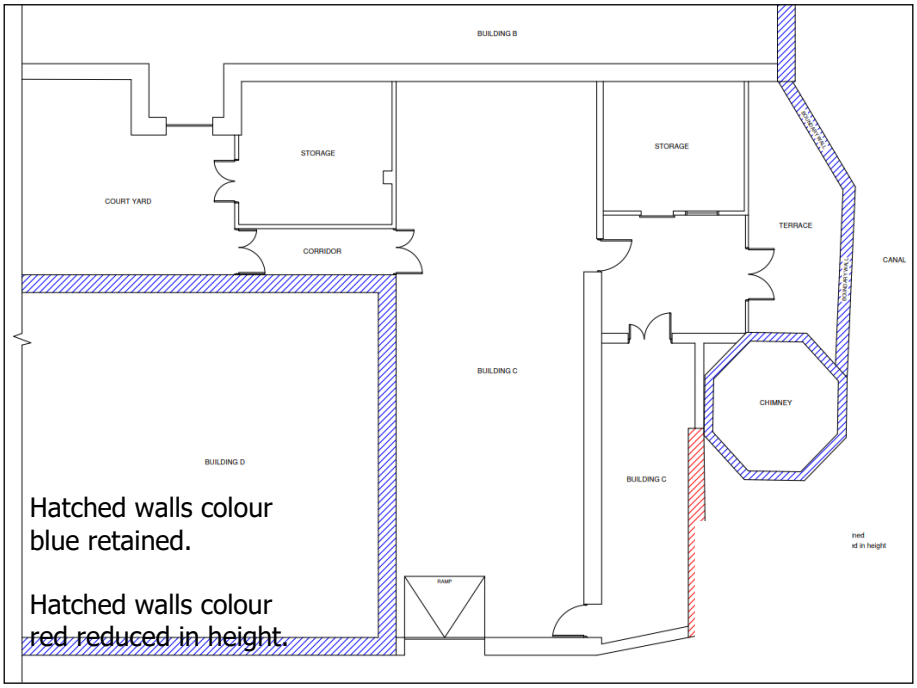


Figure 3 – Extract from TD Jagger Ltd drawing 3310-25

Stability provided by adjacent supporting buildings

Building C currently abuts the chimney. Building C is evidently a later addition to the site. The building abuts the bottom 3m of the chimney.

The masonry of the chimney and Building B are clearly not bonded (the masonry courses are different). The amount of support provided by Building B is negligible and can be removed with no detrimental effect to the chimney.

Refer to the following photographs which clearly show the adjacent buildings are not bonded to the chimney.

Figure 3 shows the walls surrounding the chimney which are to be retained and those which are to be reduced in height.

Effects of wind from removed buildings

In the proximity of the chimney, it is proposed to demolish buildings B, C and N. All other buildings to stay as the current arrangement. A new portal framed building is proposed to be constructed.

When the effects of wind are considered, guidance is taken from BS6399, part 3. The chimney is subjected the town sheltering effects of the surrounding buildings in all directions. Topographical effects (e.g. the structure being placed on top of a ridge or escarpment) do not apply in this instance.

The strongest winds generally come from the south-west. There is no change in the proposed site arrangement in this direction (or east, west or south directions).

Wind effects from the north will change when building B is demolished. The chimney has a rotational symmetry and is therefore of equal strength in all directions. By inspection, the wind loading onto the chimney will be less from the north than from the south-west.

The effects of wind on the chimney are well within the capability of the chimney to be withstood.

Protection of chimney in temporary situation

While the construction works are undertaken, it is proposed to install Legato concrete blocks 3m away from the base of the chimney. This will prevent construction vehicles from getting too close to the chimney.

Conclusion

The work requested in the report by Access Maintenance Solutions Ltd in May 2023 has been completed.

The surrounding masonry walls were constructed after the chimney was constructed and are not providing structural support to the chimney structure.

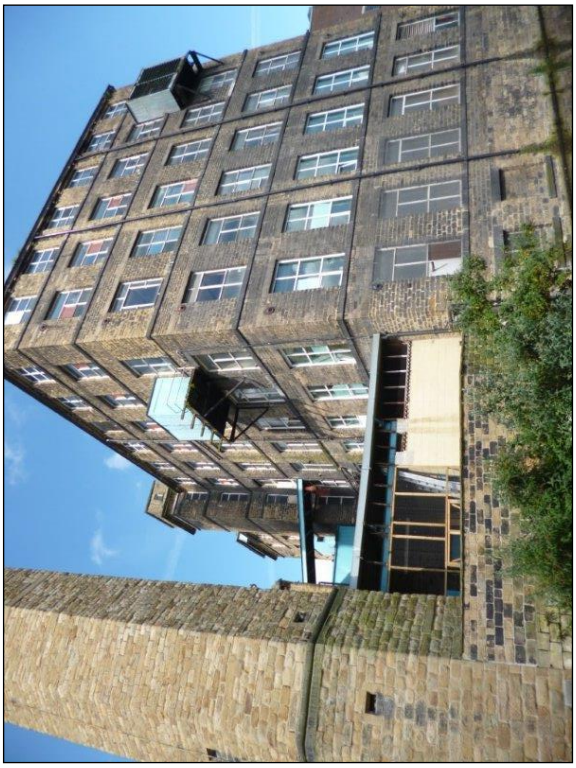
The surrounding buildings provide negligible sheltering effects to the chimney, and their removal will not be detrimental to the chimney structure.

I hope the contents of this letter are of assistance. Should you have any queries arising, please do not hesitate to contact me.

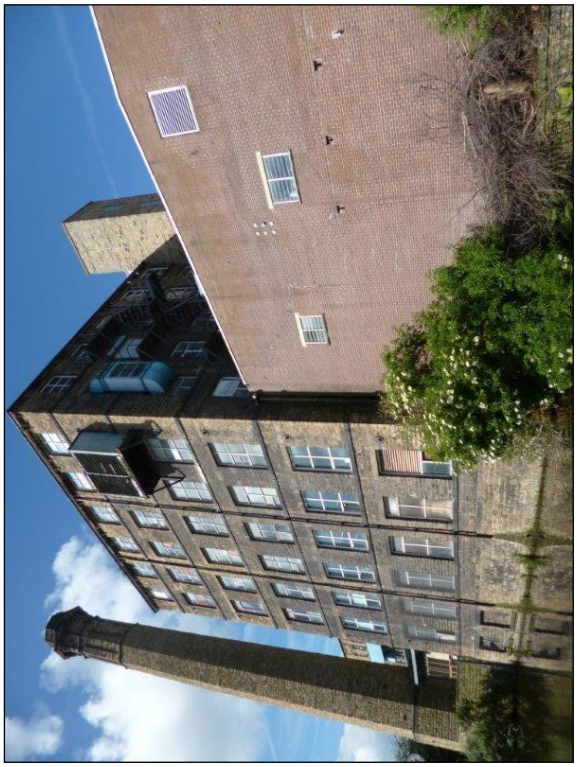
Yours sincerely
For and on behalf of Rose Consulting Engineers

Dr Paul Rose BEng(Hons) PhD CEng MIStructE MICE
Director

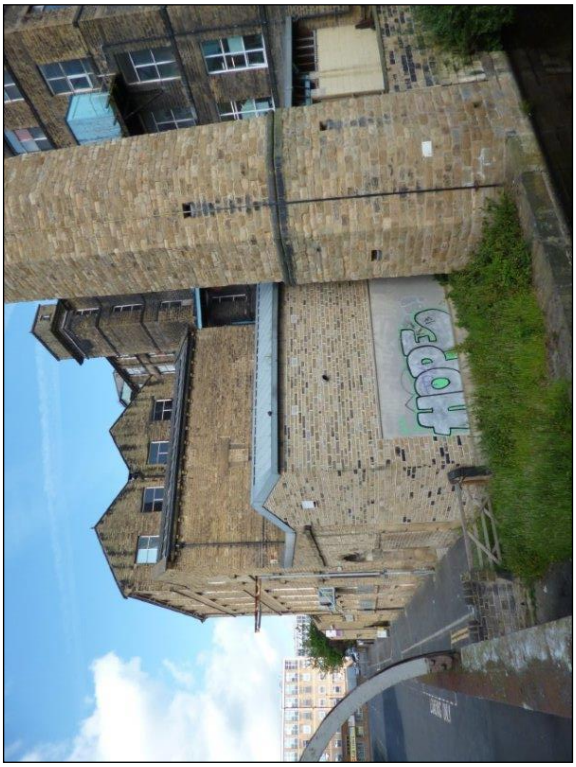
Photograph 1



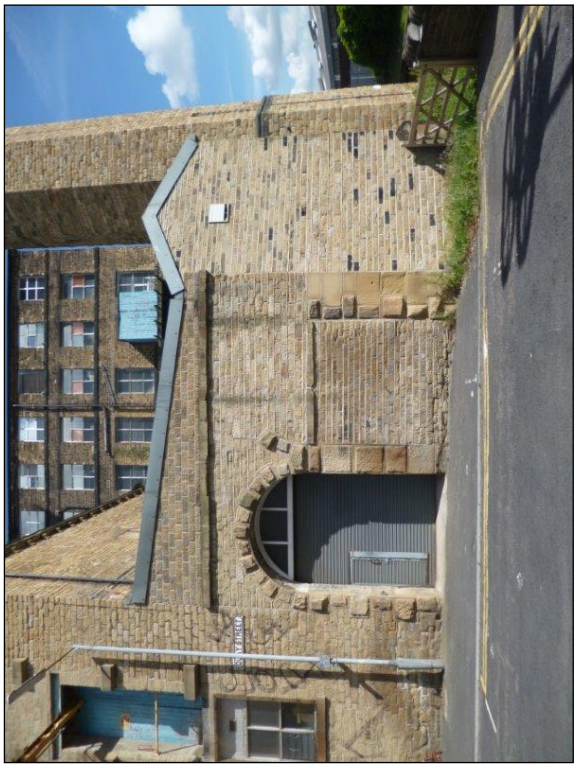
Photograph 2



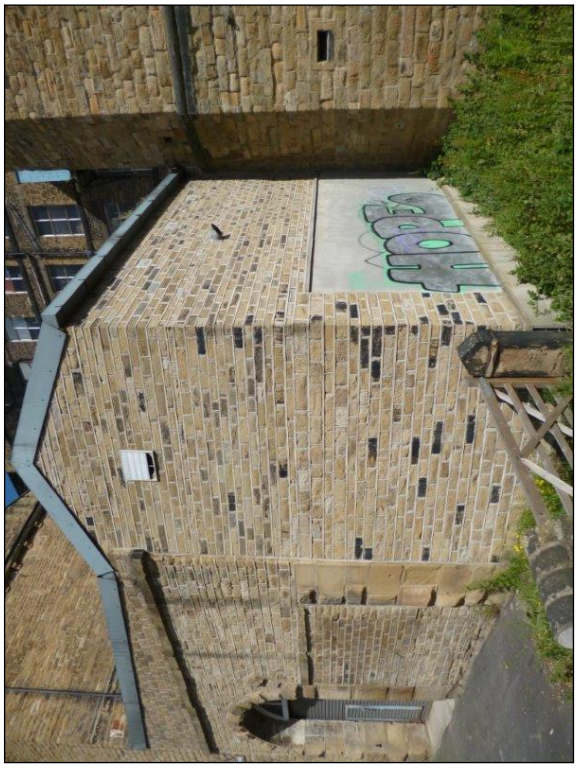
Photograph 3



Photograph 4



Photograph 5



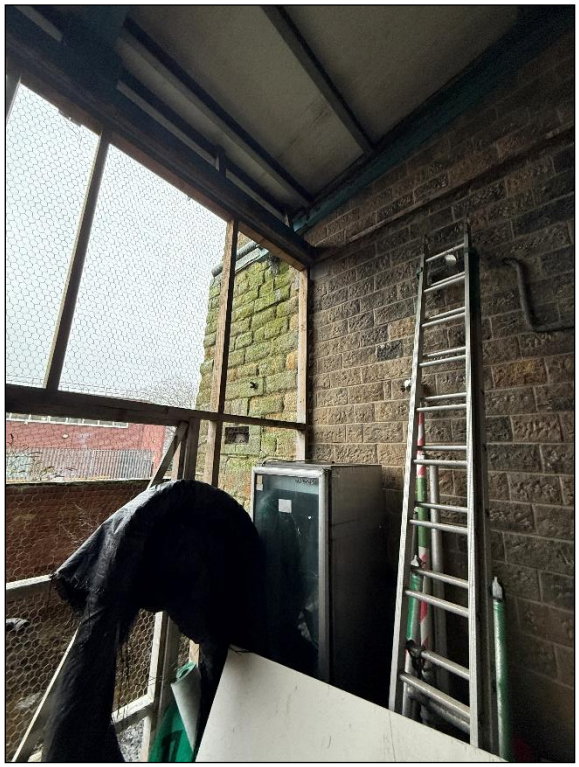
Photograph 6

Photograph 7

Photograph 8

Photograph 9

Photograph 10



Photograph 11