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The Former Bus Station, Bransty Row, Whitehaven, Cumbria: Archaeological Strip & Map

Excavation Report
Report No. 3847

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1. INTRODUCTION

1.1 General

This report presents the results of an Archaeological Strip and Map carried out by CFA Archaeology Ltd (CFA) in February and March 2019 within the former bus station on Bransty Row, Whitehaven, Cumbria (NGR: NX 9748 1851) (Fig. 1). The work was commissioned by BEC.

A Written Scheme of Investigation (WSI) dated 21 February 2019 covering this work was produced by CFA in consultation with Jeremy Parsons of Cumbria County Council Historic Environment Service (CCCHES) and was designed to fulfil the requirements of CCCHES.

1.2 Background

Copeland Borough Council have granted planning consent (Reference 4/18/2292) for the construction of an innovation and business start-up incubator hub at the former bus station on Bransty Row, Whitehaven. The planning permission was initially subject to an archaeological condition requiring a trial trenching evaluation, which was undertaken in November and December 2018 and the results produced under separate cover (Suddaby 2018).

The archaeological evaluation identified various structural remains below the concrete floor surface of the bus station some of which were thought to relate to part of a dye works depicted on the 1874 1st Edition and 1899 2nd Edition Ordnance Survey maps. On the basis of these findings a programme of mitigation measures consisting of a targeted strip and map was requested by CCCHES.

The site had previously been subject to a Heritage Impact Assessment (Tweedie, 2016). Historic maps show that part of the site may have been developed in the 17th century and that industries were located on the Bransty Row street front from the 18th century. A dye works is thought to have operated from Bransty Row from the 18th century.

Information obtained from ‘The Whitehaven News’ (<https://www.whitehavennews.co.uk/news/17124663.a-hive-of-industry/>) indicates that the dye works were originally established by the Washington family in the early 1700s. It was bought by John Brown in 1801 and, following his death in 1829, was taken over by his son William. The aforementioned newspaper article recounts ‘vast vats containing solutions of various natural dyes’, the water for which would presumably have been supplied by the adjacent Bransty Burn. It remained in the Brown family until it stopped trading during the first part of the 20th century.

The dye works is depicted on a photograph (Fig.2) thought to date to the 19th century. It was taken looking SW down Bransty Road and depicts the Grand Hotel, with the dye works opposite in the lower left part of the photograph.

1.3 Objectives

The aims and objectives of this programme of works are:

- To preserve by record the remains of the dye works within the area highlighted by CCCHEs for Strip and Map recording;
- To prepare an assessment report on the results of the work;
- To make recommendations for further post-excavation and publication work, where appropriate.

2. WORKING METHODS

2.1 General

CFA Archaeology Ltd follows the Chartered Institute for Archaeologists' Code of Conduct, Standards and Guidance as appropriate. Recording of all elements followed established CFA methods.

2.3 Strip and Map

A trench (Fig.1) measuring c.20m NE to SW by 10m NW to SE was excavated where remains of the former dye works had been identified during the evaluation and were further predicted from the OS mapping (Fig. 3). The trench was slightly irregular to take on-site obstructions into account. These consisted of live/potentially live utility services to the south of the trench, steel supports for the bus station wall, standing buildings along the southern side of the trench and the Bransty Burn culvert, which all had to be avoided.

All modern overburden was removed by a tracked mechanical excavator equipped with a smooth-bladed bucket under constant archaeological supervision. Any further excavation required to fulfil the objectives of the project was carried out by hand.

All excavation and on-site recording was carried out according to standard CFA procedures, principally drawing, photography and by completing standard CFA record forms.

The stratification of all excavated areas was recorded whether or not significant archaeological deposits were identified.

3. ARCHAEOLOGICAL RESULTS

3.1 General

The structural remains uncovered all relate to the former dye works and can be directly related to buildings depicted on the 1874 Ordnance Survey maps (Fig. 3). These remains had been overlain with demolition rubble and an area of cobbled surfacing prior to the construction of the concrete floor for the bus station.

Numbers in bold refer to the contexts a full list of which is contained within Appendix 2.

3.2 Strip and Map (Figs. 5 - 8)

The features depicted on the 1874 Ordnance Survey map (Fig. 3) where the trench was located consist of two conjoined buildings (Buildings 1 and 2) around three sides of a small central courtyard. The fourth side of the courtyard was formed by a third building (Building 3) which lay just out-with the development area and is not discussed further in this report. The surviving remains of Building 1 were divided into two distinct parts so for the purposes of this report it was sub-divided into Building 1A and Building 1B. The 1899 Ordnance Survey Edition indicated a degree of redevelopment, with Building 2 having been extended to the north-west to cover the courtyard area. This later map also suggested that the north-eastern end of Building 1B had been extended, but the uncovered remains appeared to relate to the structure as depicted on the 1874 map.

Building 1A

Building 1A formed the south-western part of Building 1 and was pentagonal in plan. Information extrapolated from the 1874 Ordnance Survey map (Fig. 3) suggest that it would have had overall measurements of c.9.5m south-west to north-east by 7m south-east to north-west, of which an area measuring c.6.4m south-west to north-east by 6.4m south-east to north-west was uncovered. The surviving remains of this building were defined by lime mortar bonded sandstone walls **002**, **003** (Fig.13) and **116** (Fig. 5). These walls were upstanding to a maximum height of 0.6m and had widths of 0.45m, 0.4m and 0.5m respectively.

Internally, one room/compartment with maximum measurements of 4.8m by 2.5m survived to floor level. The extent of this room was defined by external walls **116**, **002** and **003** and internally by brick wall footings **043** and **121**, which were separated by sandstone slabs **118** (Figs. 5, 21). The floor surface consisted of sandstone slabs (**084**, **115**), which had two repairs in brick (**085**, **114**), and a small area of cobbles (**113**). Several of the slabs had metal fixings (**099**) attached to them, presumably acting as tie downs for machinery. Against wall **002**, a brick lined pit (**032**) had been cut through the floor (Fig. 22). This feature was 1.2m by 0.4m and was 1.4m deep. A ceramic pipe (**035**) was recorded at each end of the base (Fig. 23) presumably indicating that water or something similar flowed through here.

The features (Figs. 5, 8 and 21) to the SW of internal walls **043/118/120** consisted of a number of further wall footings (**039**, **042** and **069**) and parts of a network of ceramic

drains (**044** and **064**). Although in very poor condition, wall footings **039** (Figs. 5, 8, 21) appeared to form a defined structure measuring around 1m square by 0.2m high, which was constructed from red brick (with occasional sandstone blocks inserted into the brickwork). Within it, a deposit of compact sand (**040**) was recorded overlying natural sandy gravel subsoil (**041**). A band of yellow clay (**038**) identified on the upslope (NE) side abutting this wall may have been a sealing deposit to make the bricks watertight suggesting that **039** may have been a water storage tank.

Wall footings **042** (Fig. 21) were formed from edge-set red bricks which were keyed into wall footings **043**. This wall extended for a distance of 1.2m before turning through 90° in a south-easterly direction where it had been cut by drain **064**. Abutting wall **042** was a line of sandstone wall footings (**069**), which overlay drain **064**, and continued south-westward out of the excavation area. A sondage excavated at the junction between walls **042** and **043** exposed a sand surface (**075**) similar to **040** within structure **039**.

Ceramic drains **044** and **064** (Fig. 21) were part of a complex of drains identified within these buildings. Drain **064** probably tied in with drain covers **030** and **108** which were located within the courtyard area immediately to the east. Information from the 1874 Ordnance Survey map suggests that this courtyard contained a large water tank. A reliable water source would have been an essential component to the dye works for preparing and washing the dyed cloth.

Building 1B

Building 1B (Fig. 8) formed the northern part of Building 1 and was broadly trapezoidal in plan (with a slight step along its south-western wall). Information extrapolated from the 1874 Ordnance Survey map (Fig. 3) suggests that it had a south-west to north-east width of c.8.5m, with a long south-east to north-west side of c.14.5m and a short side on the same alignment of c.9m. The excavated trench uncovered a maximum 9.6m south-east to north-west length of this building together with the full extent of its south-west to north-east width. The surviving remains of this building were defined by lime mortar bonded walls **024**, **119**, **116** (to north of **002**), **002** and **056**. These walls were upstanding to a maximum height of 0.6m and had widths of between 0.45 and 0.5m. Wall **119** partially overlay **116** (Fig. 12) and Wall **024** and was probably a later repair or alteration.

This building was divided into at least three compartments by internal wall **091**, which was of lime bonded sandstone construction and had a width of 0.5m. To the north-west of Wall **091** the building had been surfaced with dressed red sandstone slabs (**015**) (Figs. 6-8 and 14). A number of shallow slots (**098**) for seating internal equipment / machinery were cut into the slabs and a number of rusty protruding metal fittings (**099**) (Fig. 14) would have had a similar function.

At the SW end of floor **015**, against wall **002**, a deep pit (**007**) was recorded (Fig.15). At floor level, this had a length of 2.2m, a width of 1.4m, and a depth of 1.2m. A very substantial setting of lime bonded dressed sandstone masonry (**008**) was recorded in the base (Figs. 5, 15) and wall **002** had been partly refaced with bricks (**012**) at this point. Otherwise, the feature was filled with rubble (**004**). To the SE of **007**, a slightly raised sandstone slab was located against wall **056** it had a shallow gully (**101**) around

the perimeter which continued into the structure of wall **056**. Two firebrick plinths (**102, 103**) were set on the surface of the slab. This was presumably a stand for something with a drainage track around its' base.

To the immediate NE the feature described above, two curving grooves (**100**) were cut in to the floor. Deeper cut slots were present at intervals along the line of each groove. These were presumably where some form of structure was seated in to the floor and was presumably associated with the slab and brick plinths (**102, 103**).

Another feature within surface **015** consisted of a small area of brick flooring (**028**) measuring 0.96m by 0.7m which extended into a recess in Wall **024**.

The removal of brick surface **028** and an area of floor slabs **015** adjacent to walls **024** and **119** (Figs. 16-18) revealed that surface **028** overlay and earlier surface of dressed sandstone slabs (**068**) which were associated with a surface of worn sandstone slabs (**072**), well laid red bricks (**073**) and cobbles (**074**). These surfaces did not however directly underlie **015**, they were separated by around 0.1m of sandy ash (**070**) and crushed lime mortar (**071**). Large numbers of pins were recovered from **070**. Notably, the slabs forming surface **072** were aligned with the Bransty Burn and wall **024/116**, rather than wall **091** to the east. To the SW, the surfaces were not present and a deposit of stones, occasional bricks and a gritty mortar-rich matrix (**082**) was recorded. To the NE, natural subsoil **041** was recorded under **015** (Fig. 17). This floor level is considered to represent part of an earlier floor surface for the building.

To the east of flagstone floor **015**, internal wall **091** was abutted by a brick surface (**092**) and a broken flagstone surface (**093**) (Fig.8). These surfaces together with a north-west to south-east extension of Wall **091** had been cut by a later ceramic drain (**095**).

Building 2

Building 2 was also broadly trapezoidal in plan, but was slightly stepped along its south-western edge. Information extrapolated from the 1874 Ordnance Survey map (Fig. 3) suggested that it had a maximum south-west to north-east width of c.8.8m, with a long south-east to north-west side of c.13m and a short side on the same alignment of c.10.5m. Only a very small area of this building measuring c.4m by 2.7m was uncovered (Fig. 8). This was defined by brick wall **047**. An expected continuation of lime bonded mortar wall **056** extending further to the south-east was not identified suggesting that there was probably an internal doorway between Building 1B and Building 2. A dotted line on the 1874 Ordnance Survey map where this building abutted the courtyard (along the line of Wall **047**) indicated that it may have been open fronted. Internally, the floor consisted of an extension of flagstones **015**. Information from the 1899 Ordnance Survey Edition indicated that this building was later extended to cover the courtyard area.

Courtyard and External Areas

The Ordnance Survey map of 1874 (Fig.3) depicted an L-shaped courtyard located between Buildings 1, 2, and 3. Information extrapolated from this map indicated that it measured 10m from south-west to north-east by 4.8m north-west to south-east, with

both legs of it having a width of c.2.4m. A small structure depicted at the north-eastern end of the courtyard was blue in colour, possibly indicating that it was a water storage tank.

The surviving remains within the courtyard area consisted of a brick-surface (**104**) measuring 2.6m long by 1.5m wide. This brick surface corresponded exactly with the location of the possible water tank depicted on the 1874 Ordnance Survey map. It was edged with red brick (**105** and **106**) and had a small brick-built pit (**058**) (Fig.19) measuring 0.7m by 0.4m in the north-western corner. This brick edging would probably have supported a large metal tank. A metal drain cover in the south-western corner of surface **104** would probably have tied the tank in to drain **064**. A continuation of flagstone surface **015** partially overlying edging bricks **105** would have provided a working surface along the edge of the tank.

To the south-west of surface **104** there was a square yellow brick feature (**017**) measuring 0.8m across. It was filled with red sandy gravel (**029**) and had a vertical pipe (**030**) in the corner. A large stone slab (**107**) located to the north-east may have been a threshold stone. Running to the south-west of structure **017** parallel with Wall **003** (Building 1A), an unbonded brick wall (**016**) overlay a brick gully and metal grid (**018**), (Fig. 24). This also fed into drain **064**.

To the south-east of surface **104**, a brick lined tank (**050**, Fig. 20) was cut into natural gravels (**041**). This measured 1.2m by 0.35m and was over 0.7m deep. A broken glazed ceramic pipe (**051**) in the base led towards drain cover **030** and is probably the same system as drain **064** to the west.

At the north-western corner of Building 1B, a dry-stone wall (**025**) with a maximum height of around 0.4m and visible length of 2.5m was recorded (Figs. 10-11). It appeared to have been cut by the lime bonded wall of the dye works (**024**) although a recent drain (**066**, **089**) had badly damaged the intersection between these walls (Fig. 11). This wall was depicted on the 1874 Ordnance Survey map (Fig. 3) extending round to enclose a narrow strip of land to the north-east and east of Building 1B. The later Ordnance Survey map indicates that the part of this enclosed area immediately to the north-east of Building 1B was roofed by 1899. Within this enclosed area two small pits (**077**, **079**) were recorded (Fig. 9), cut into natural subsoil (**041**). Cut **077** was square in plan with a width of 0.2m and a depth of 0.1m, Cut **079** was irregular and slightly larger in plan but of similar depth. The fills (**078**, **080**) were very similar and contained no finds. They may have been supports for the roofed area depicted on the 1899 Ordnance Survey map.

3.3 Finds by Christina Hills

A small number of finds were retrieved on site, the artefacts are summarised here and detailed in appendix 5.

Ceramics

Stoneware pottery was found in the rubble deposit **004**; it is the base of a jar from 'W. P. HARTLEY' and would have contained jam or pickle. Ten sherds of mixed white earthenware were recovered within sand **070**. All the pottery is modern in date.

Four clay pipe stems were found in sand **070** and are post medieval. Two possible ceramic kiln stilts were also identified within sand **070** and are although their date is uncertain, they are probably modern.

Two bricks were retrieved from on site, both of which are modern. One brick from deposit or surface **082** was stamped 'DEES _ITEHAVE_', presumably from the nearby Whitehaven Firebrick Co. started in the 1850's by James Dees. The second brick was part of the fire brick plinth **102** and stamped with '_IRKBY', probably Birkby.

Metal

A copper alloy modern button was unstratified, it was very corroded but probably had 4 central holes and was decorated at the edge.

Eighty three pins were from sand **070** and were a mix of sizes and some were corroded and broken. Several had decorative, spiral bound, heads and were possibly dress accessories. However it is most likely that the pins all relate to textile working due to the previous dyeworks on the site.

A piece of lead tube and lead wire were from brick wall surface **016** and were both modern.

Three pieces of iron were all from sand **070** and were very corroded, one piece is a possible handle and the other two items were probably large nails.

Other

One piece of clear window glass was found in sand **070** and was recent in date.

A circular piece of bone with a central hole was from sand **070** and is a possible toggle or token.

4. CONCLUSIONS

The trench within the former bus station on Bransty Row, Whitehaven revealed the relatively well preserved footings of a portion of the former dye works. Structures within the trench included upstanding walls, intact floors, sumps, drains and tanks/pits. These features accurately reflect the structures depicted on the 1874 Ordnance Survey map and relate to the mid 19th century redevelopment of the dye works. Evidence of an earlier floor surface within indicates that the buildings underwent a degree of redevelopment over their lifetime. Cartographic evidence suggests a programme of redevelopment between 1874 and 1899, when the buildings were extended and a number of additional buildings out-with the strip and map area were constructed.

The majority of the finds came from the backfill of the buildings presumably post demolition so are not related to the use of the buildings. However, the finds from the sandy deposit (**070**) that separated the earlier and later floor surfaces may be related to the activities undertaken in the buildings.

The decision regarding any further mitigation measures lies with Cumbria County Council as advised by CCCHES.

A copy of the report will be deposited with CCCHES. The project archive, comprising all CFA record sheets, maps and reports, will be deposited as appropriate. An online OASIS entry will also be submitted.

5. REFERENCES

Bibliographic

Tweedie, H 2016, Whitehaven Bus Station and Depot Redevelopment, Whitehaven, Cumbria, Heritage Impact Statement. CFA Technical Report No 3399

Suddaby, I 2018, The Former Bus Station, Brantsy Row, Whitehaven, Cumbria. Archaeological Evaluation. CFA Technical Report No 3818

Cartographic

Howard, J. (1799) *A Plan of the Town and Harbour of Whitehaven in the County of Cumberland from an actual survey.*

Ordnance Survey (1874) *First Edition, Cumberland Sheet LXVII.2. 25" to 1 mile*

Ordnance Survey (1899) *Second Edition. Cumberland Sheet LXVII.2. 25" to 1 mile*

APPENDIX 1: Photographic Register

| Shot | Summary description of subject | Facing |
|-------|---|---------|
| 1 | Trench marked out pre-excavation | SSW |
| 2-3 | Working shots | Various |
| 4-6 | Working shots showing the upper deposits 002-005 | NNE |
| 7-8 | The area between walls 002 and 003, showing deposits 001-005 | NNE |
| 9 | Concrete 097 at the eastern corner of the site | NNE |
| 10-12 | Deposits 004-005 prior to removal | NE |
| 13-18 | Working shots, overburden almost removed | Various |
| 19-22 | Site cleaned | SE |
| 23-24 | Site cleaned | NNE |
| 25-27 | Site cleaned | N & NNW |
| 28-30 | Site cleaned | WNW |
| 31 | Site cleaned | SSW |
| 32-34 | Paved area 015 cleaned including the cut slots 098 and metal mounts 099 in the stones highlighted | Various |
| 35 | Pit 007 emptied with stone structure 008 in the base | SSW |
| 36 | Pit 007 emptied with stone structure 008 in the base | WNW |
| 37 | Brick lined pit 036 in sandstone floor 084 emptied | WNW |
| 38 | Brick lined pit 036 in sandstone floor 084 emptied | ESE |
| 39-40 | Brick lined pit 059 in brick floor 106 emptied | NNE |
| 41 | Brick lined pit 062 with bricks 050 emptied | SSW |
| 42 | Post-holes 077, 079 pre-excavation | ESE |
| 43 | Brick alignment 016 | WNW |
| 44-45 | Brick alignment 016 over drain 018 | S |
| 46 | Wall 003 and the adjacent contexts 016, 018 and drain outlet | E |
| 47-48 | Drain 018 and outlet after bricks 016 removed | WNW |
| 49 | Drain 018 and outlet after bricks 016 removed | NNE |
| 50-51 | Pit 007, elevation of wall 002 and brick infill 012 | SSW |
| 52 | Mixed bricks in 016 | |
| 53 | Drain 018 and outlet after bricks 016 removed with wall 017 and pipe 030 beyond | NNE |
| 54 | Drain 018 and outlet after bricks 016 removed with wall 017 and pipe 030 beyond | WNW |
| 55-59 | SE facing trench section over sandstone paving 015. Drawing 4 | NW |
| 60 | Oblique view of the above section | WSW |
| 61 | Unbonded brick wall 047. Same mix of bricks as 016 | SSW |
| 62 | 047 overlying the end of stone wall 056 | WNW |
| 63 | 047 removed revealing the channel 101 and square slot in wall 056 | WNW |
| 64 | 047 removed revealing the channel 101 and square slot in wall 056 | SSW |
| 65 | Brick surface 028 on the same level as floor 015 | NW |
| 66 | General view of brick lining 048 and concrete capping 049 | E |
| 67 | Brick surface 028 mostly removed and sandstone slabs 068 exposed | NW |
| 68 | Brick surface 028 mostly removed and sandstone slabs 068 exposed | SW |
| 69 | Drain 066 cutting through the junction of walls 024, 025 | N |
| 70 | Drain 066 cutting through the junction of walls 024, 025 | NNE |
| 71 | Drain 066 cutting through the junction of walls 024, 025 | WNW |
| 72 | General view of brick lining 048 and concrete capping 049 | N |
| 73-74 | Close up of brick lining 048 with concrete capping 049 with drain 065 below | ESE |
| 75 | Drain 064 in cut 065 | NNE |
| 76 | General view of the SW part of the trench | NNE |
| 77 | Drain 095 and lead pipe 096 within cut 094 at the SE side of the site | NE |
| 78 | 015 and the underlying layers 070, 071 removed onto sandstone paving 072 | NE |
| 79 | 015 and the underlying layers 070, 071 removed onto sandstone paving 072 | NW |
| 80 | 015 removed next to pit 007 with the underlying 070, 071 on the right and 082 on the left | WNW |

| Shot | Summary description of subject | Facing |
|---------|---|---------|
| 81 | 015 removed next to pit 007 with the underlying 070, 071 on the right and 082 on the left | NW |
| 82 | 015 removed next to pit 007 with the underlying deposits 070, 071 | SSW |
| 83-85 | Deposit 046 removed and brick wall with sandy deposit on the face 043 exposed | NNE |
| 86-88 | Brick lined pit 062, SSW facing elevation showing the wall cut by 054/094 and 052 | NNE |
| 89 | Ceramic pipe cut 076 in natural gravels 041 | NNE |
| 90 | Slabs 015 removed in the corner of the building. There is no continuation of the cobbles 074 | NW |
| 91 | Slabs 015 removed in the corner of the building. There is no continuation of the cobbles 074 | NNE |
| 92-94 | General views of the areas where slabs 015 were removed and the underlying deposits 072, 073, 074 | SE |
| 95 | Deposit 082 partially removed | SE |
| 96 | Deposit 082 partially removed with 072, 073, 074 beyond | NE |
| 97 | General view of the area where slabs 015 were removed and the underlying deposits 072, 073, 074 | NW |
| 98 | General view of the area where slabs 015 were removed and the underlying deposits 072, 073, 074 | SE |
| 99 | Square post-hole 077 pre-excavation | SE |
| 100-101 | Square post-hole 077 section | SE |
| 102-103 | Square post-hole 079 section | SE |
| 104-106 | Drain 066 cutting through the junction of walls 024, 025 with the underlying foundations on each side exposed | NW |
| 107 | Drain 066 cutting through the junction of walls 024, 025 with the underlying foundations on each side exposed | SW |
| 108 | Drain 066 cutting through the junction of walls 024, 025 with the underlying foundations on each side exposed | NW |
| 109-110 | Lime wash on wall 003 at the entrance by wall 002 | SE & E |
| 111 | Deposit 082 mostly removed | NW |
| 112 | Deposit 082 mostly removed | SW |
| 113 | Wall 002 abutting wall 116 | NW |
| 114 | Stone 093 and brick 092 surfaces | NNE |
| 115-118 | Cement lined pit 120 with wall 116 behind it | Various |
| 119-120 | Deposit 082 removed showing the extent of pit 007 with the foundations of wall 116 and the overlying wall 119 | WNW |
| 121-122 | Deposit 082 removed showing the extent of pit 007 with the foundations of wall 116 and the overlying wall 119 | SW |
| 123 | Wall 043 and its intersection with wall 042. Probably the same structure | S |
| 124 | Wall 116 running behind concrete 120 and under the bus station concrete 021 | SW |
| 125-126 | Site cleaned | SE |
| 127 | Site cleaned | NE |
| 128 | Site cleaned | NNE |
| 129 | Site cleaned | NW |
| 130 | Site cleaned | SW |
| 131 | The cut slots and iron fittings in floor 015 painted | E |
| 132 | Pit 007 emptied of 004 | SSW |
| 133 | Post-holes 077, 079 pre-excavation | ESE |

APPENDIX 2: Context Register

| Context | Fill of | Description |
|---------|---------|---|
| 000 | | Cleaning uncontexted finds. |
| 001 | | Cobbled floor surface. |
| 002 | | Lime bonded sandstone wall. |
| 003 | | Lime bonded sandstone wall. |
| 004 | | Compacted rubble deposit. |
| 005 | | Metalled stone surface. |
| 006 | | Flagstones in base of [007]. |
| 007 | | Cut for pit. |
| 008 | | Sandstone block structure in [007]. |
| 009 | | Natural subsoil. |
| 010 | | Levelling material under 011, 012. |
| 011 | | Lime bonded stone wall. |
| 012 | | Brick structure + lime bond filling of gap in 011. |
| 013 | | Dressed sandstone block. |
| 014 | | Stone part of wall alignment. |
| 015 | | Red sandstone flagstone floor. |
| 016 | | Brick wall/surface: informal. |
| 017 | | Brick structure. Yellow bricks and cement bond including rectangular pit with cut 059. |
| 018 | | Brick drain structure under 016. |
| 019 | | Ash under 018. |
| 020 | | Probable brick floor within square structure at S end of 017 |
| 021 | | Concrete floor of bus station. |
| 022 | | Tarred levelling deposit. |
| 023 | | Gravel levelling deposit. |
| 024 | | Stone wall of building, lime bonded sandstone |
| 025 | | Stone wall (extending the alignment of 024) unbonded sandstone, cut by 025 and drain 066. |
| 026 | | Light brown silty sand with gravel and lime mortar lenses |
| 027 | | Concrete floor or cap for the Bransty Burn culvert |
| 028 | | Brick floor. |
| 029 | | Red gravel within square structure at S end of 017. |
| 030 | | Pipe within square structure at S end of 017 |
| 031 | | Mixed levelling. |
| 032 | | Brick wall of silt trap. |
| 033 | | Brick face under 034. |
| 034 | | Slabs between 002+033. |
| 035 | | Ceramic drain through. |
| 036 | | Sandstone slabs, base of 032. |
| 037 | | Cut for 032. |
| 038 | | Creamy yellow clay damp proofing deposit. |
| 039 | | Brick and stone structure inside 038. |
| 040 | | Compact sand floor within 039. |
| 041 | | Natural subsoil. Sandy gravel in the south of the site, sandy silt in the north |
| 042 | | Brick wall cut by drain 065 and rebuilt in stone (069). |
| 043 | | Brick wall at edge of 084. |
| 044 | 076 | Ceramic pipe, runs into 065. |
| 045 | | Cobbles in SW corner. |
| 046 | | Extensive deposit of ash, coal ash, lime mortar, stone chips. |
| 047 | | Brick wall overlaying slabs of 015 and probably wall. |
| 048 | | Brick alignment under 049. |
| 049 | | Brick structure with concrete capping. |
| 050 | | Brick drain access pit. |
| 051 | | Ceramic drain pipe. |

| Context | Fill of | Description |
|----------------|----------------|---|
| 052 | | Concrete foundation. |
| 053 | | Brick wall foundations. |
| 054 | | Cut of drain. |
| 055 | | Wall made of possible fire bricks. |
| 056 | | Stone wall. |
| 057 | | Ledge of pit/silt trap. |
| 058 | | Brick lined walls of pit/silt trap. |
| 059 | | Construction cut of pit/silt trap. |
| 060 | | Red brick wall. |
| 061 | | Rubble levelling layer. |
| 062 | | Cut of brick lined drain access. |
| 063 | | Sandstone blocks under 028+015. |
| 064 | 065 | Salt glazed drain in 048 and 049 - pipe could lead from pit 050. |
| 065 | | Cut for large drain pipe 064. |
| 066 | | Cut for 'modern' drain. Same as 089 |
| 067 | 066 | Fill of 066 (inc. Drain). Same as 090 |
| 068 | | Machine base stones under 028. |
| 069 | 065? | Stone continuation of 042 over 065. |
| 070 | | Black/grey silty sand under 015. Levelling deposit |
| 071 | | White mortar sand layer under (070 and 015) directly over (072). Levelling deposit |
| 072 | | Surface under 071. Slabs. |
| 073 | | Surface under 071. Bricks. |
| 074 | | Surface under 071. Cobbles. |
| 075 | | Same as 040 cut by 065. |
| 076 | | Cut for pipe, joins 065 in SW corner. |
| 077 | | Cut for square post hole. |
| 078 | 077 | Grey sandy silt |
| 079 | | Cut for post hole. |
| 080 | 079 | Grey sandy silt. |
| 081 | | Bedding layer for 082 |
| 082 | 007? | Cobbles and brick with a grey gritty matrix. Under 015. Could be a surface and/or upper fill of 007 |
| 083 | | Made ground under 084. Mortar, sand, stone chips. |
| 084 | | Sandstone floor cut by pit 037. |
| 085 | | Brick repair within 084. |
| 086 | | Revetting wall along edge of pit 007 retaining 070 - overlain by 015. |
| 087 | | Cut for wall (024) foundation. |
| 088 | | Fill of (087) clay pipe, pot, bone + glass. |
| 089 | | Cut for ceramic drain. Cuts walls 024-025. Same as 066 |
| 090 | 089 | Ceramic pipe and fill. Same as 067. |
| 091 | | Lime bonded wall. May=024. |
| 092 | | Brick paving abutting 091. |
| 093 | | Broken flagstones abutting 091. |
| 094 | | Cut for surface water drain. |
| 095 | 094 | Glazed pipes K10 and backfill. |
| 096 | 094? | Lead water pipe. |
| 097 | | Concrete surface at SE side of the trench. |
| 098 | | Cut rectangular slots for seating internal furniture. |
| 099 | | Iron mounts for internal furniture. |
| 100 | | Semi-circular scores in floor 015 |
| 101 | | Drain channel around stone plinth. |
| 102 | | Fire brick plinth |
| 103 | | Fire brick plinth |
| 104 | | Red brick floor |
| 105 | | Red brick wall on the E side of floor 104 |
| 106 | | Red brick wall on the W side of floor 104 under 017. |

| Context | Fill of | Description |
|---------|---------|---|
| 107 | | Flagstones abutting 104=214. |
| 108 | | Metal drain cover in 104. |
| 109 | | Modern brick feature. Drain? |
| 110 | 111 | Ceramic drain from pit 036. |
| 111 | | Cut for drain. Cuts wall 043 and runs into drain 064. |
| 112 | | Vertical channel within 017. |
| 113 | | Cobbles. |
| 114 | | Brick surface (repair?) in 084. |
| 115 | | Flagstones mortar bonded onto 114. |
| 116 | | Lime bonded sandstone wall. Same structure as 024? |
| 117 | | Brick wall repairing or refacing stone wall 116. |
| 118 | | Sandstone slabs continuing the line of brick revetment 043 |
| 119 | | Lime bonded sandstone wall and plinth. Overlies 024/116 |
| 120 | | Cement feature abutting wall 116 in trench edge under bus station entrance. |

APPENDIX 3: Drawings Register

| Dwg No. | Sheet No. | Scale | Plan / Section | Description/contexts |
|---------|-----------|-------|----------------|---|
| 1 | 1 | 01:10 | Section | Section across doorway(?) with upper metalised surface 005 above cobbled floor 001. |
| 2 | 2 | 01:20 | Section | Drawing of wall 011, including 006-015. |
| 3 | 2 | 01:20 | Section | Elevation drawing of south facing side of 011. |
| 4 | 1 | 01:20 | Section | SE facing trench section 'internal' wall 024, 025 + concrete floor 021 elevation. |
| 5 | 3,4,9,10 | 01:20 | Plan | Site plan. |
| 6 | 1 | 01:20 | Plan | Underlay of site plan showing drain 018. |
| 7 | 5 | 01:10 | Section | Elevation drawing of brick drain access 050. |
| 8 | 6 | 01:10 | Section | Elevation drawing of pit/silt trap. |
| 9 | 7 | 01:10 | Section | Profile of (016) and (018). |
| 10 | 7 | 01:10 | Section | Post hole 077 NW facing section. |
| 11 | 7 | 01:10 | Section | Post hole 079 NE facing section. |
| 12 | 8 | 01:20 | Section | Profile of south end of site. |
| 13 | 7 | 01:20 | Section | SE facing section (015), (070)+(071)+(072) |
| 14 | 11 | 01:20 | Plan | Site plan overlay, west corner. |
| 15 | 12 | 01:20 | Plan | Site plan overlay, cobbles under flagstones. |

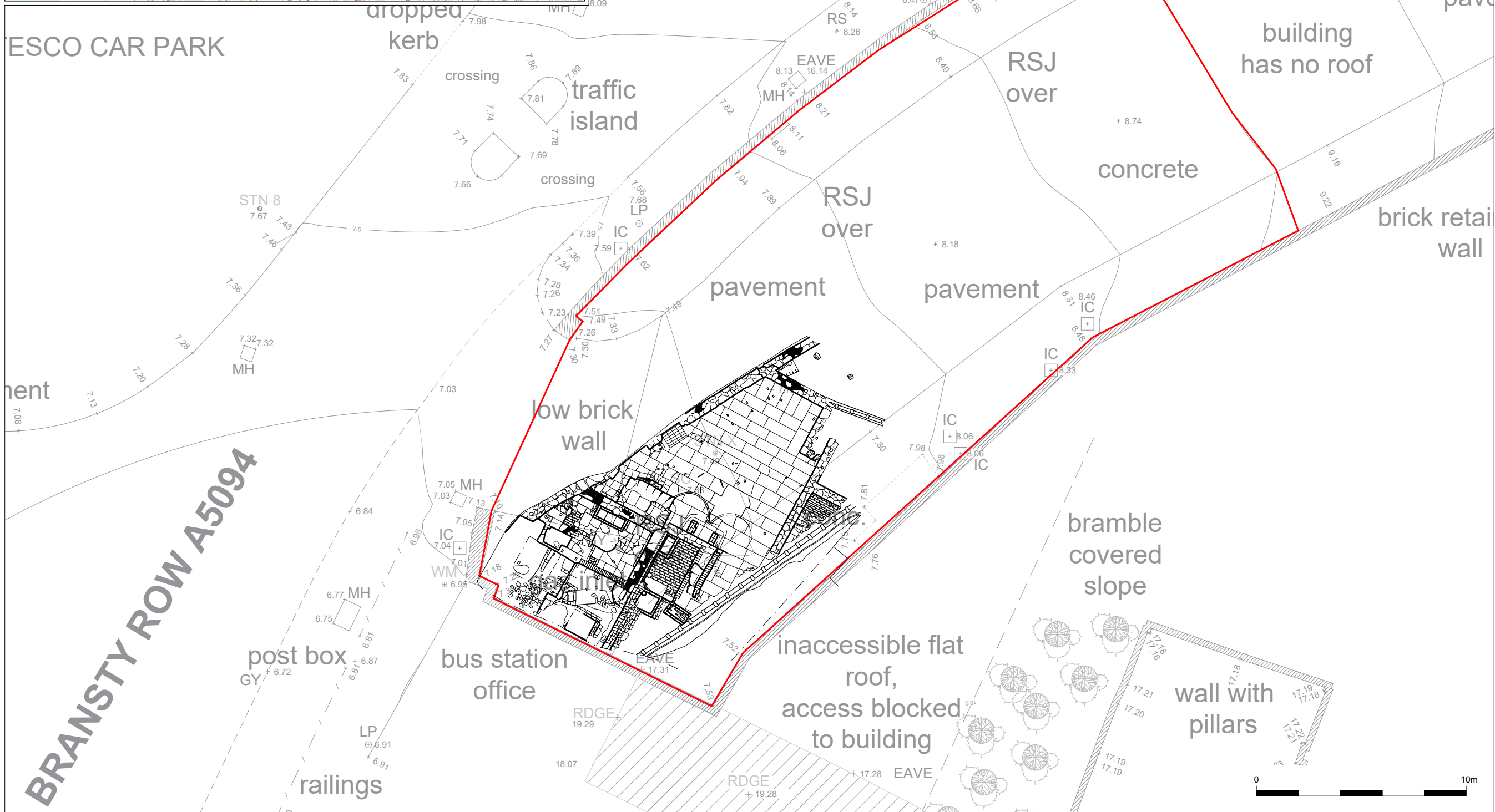
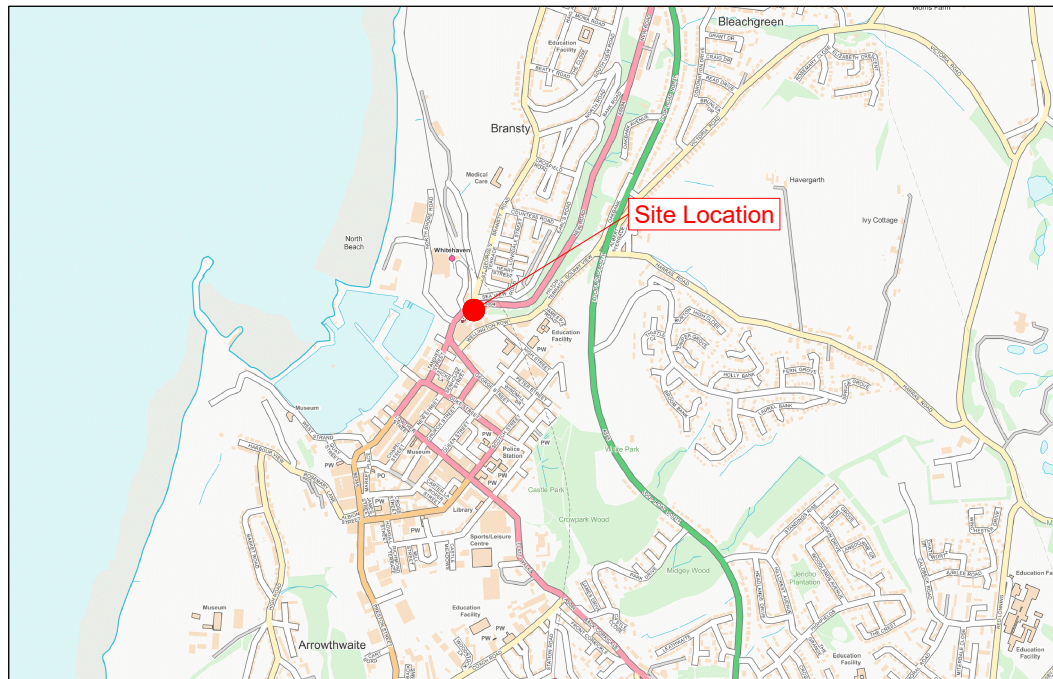
APPENDIX 4: Samples Register

| Sample No. | Context | Fill of | Sample type | Volume |
|------------|---------|---------|-------------|--------|
| 1 | 070 | | BULK | 20L |
| 2 | 071 | | BULK | 20L |

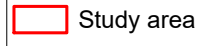
APPENDIX 5: Finds Quantification

| Context | Find type | No. | Wt (g) | Notes | Spotdate |
|---------|--------------|-----|--------|---|---------------|
| 000 | Copper alloy | 1 | 2 | Button. Very corroded. 4 holes | Modern |
| 004 | Pottery | 1 | 101 | Stoneware base. 'W. P. HARTLEY AINTREE' | Modern |
| 016 | Lead | 1 | 128 | Tube | Modern |
| 016 | Lead | 1 | 11 | Wire | Modern |
| 070 | Pottery | 10 | 64 | White earthenware | Modern |
| 070 | Ceramic | 2 | 7 | Kiln stilts? | Modern |
| 070 | Clay pipe | 4 | 9 | Stems | Post medieval |

| | | | | | |
|-----|--------------|----|------|----------------------------|--------|
| 070 | Glass | 1 | 4 | Window glass | Modern |
| 070 | Bone | 1 | 1 | Toggle? | |
| 070 | Copper alloy | 83 | 6 | Pins | |
| 070 | Iron | 1 | 1040 | Handle. Very corroded | Modern |
| 070 | Iron | 2 | 285 | Nails. Very corroded | Modern |
| 082 | CBM | 1 | 2044 | Brick. 'DEES ...ITEHAVE..' | Modern |
| 102 | CBM | 1 | 3582 | Brick. Cream. '_IRKBY | Modern |



Key:



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Title:
 Site plan showing the location of the trench

Project:
 The Former Bus Station, Bransty Row, Whitehaven, Cumbria.
 Archaeological Strip and Map

Client:
 BEC

Scale at A3:
 1:200

| | | |
|-----------------|----------------|---------------------|
| Drawn by: CA | Checked: SW | Date: 12/06/2019 |
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| Report No: 3847 | Fig. No: 1 |
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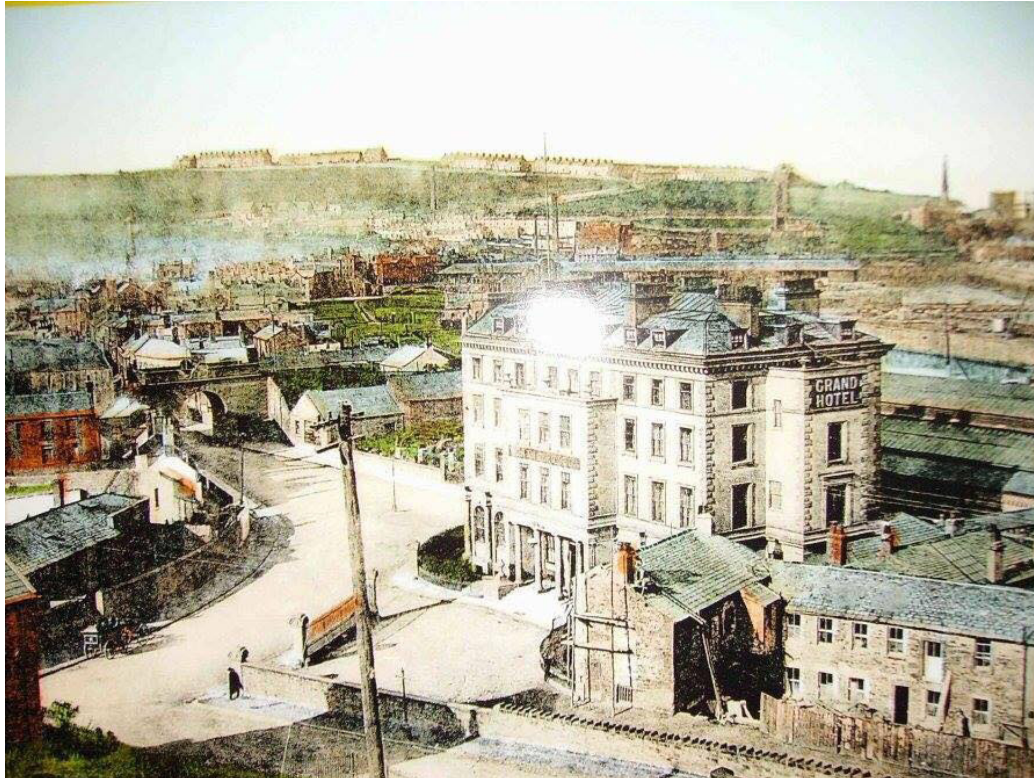


Fig. 2 - Nineteenth century photograph of the Grand Hotel depicting dye works
(Photo supplied by Tony Calvin)

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Key:

Study area



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Title:
 Extract from 1874 Ordnance Survey map with the excavated trench superimposed

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| CA | SW | 12/06/2019 |

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| Report No: | Fig. No: |
| 3847 | 3 |





Fig. 4 - Pre-excavation shot of trench from the NE



Fig. 5 - Exposed remains of dye works from the SW

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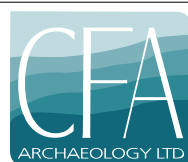


Fig. 6 - Exposed remains of dye works from the NW



Fig. 7 - Exposed remains of dye works at southern end of trench from the east

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Key:

- Study area
- Stone
- Brick
- Mortar
- Cut slot
- Metal mount
- Concrete
- Evaluation test pit

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Title:
Trench Plan

Project:
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Client:
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Scale at A3:
1:60

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|---------------------------|-----------------------|----------------------------|
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| Report No: 3847 | Fig. No: 8 | |



Fig. 9 - Post-holes 077 and 079



Fig. 10 - Wall 025 abutting dye works wall 024 from the NE

Project:
The Former Bus Station, Bransty Row, Whitehaven, Cumbria. Archaeological Strip and Map






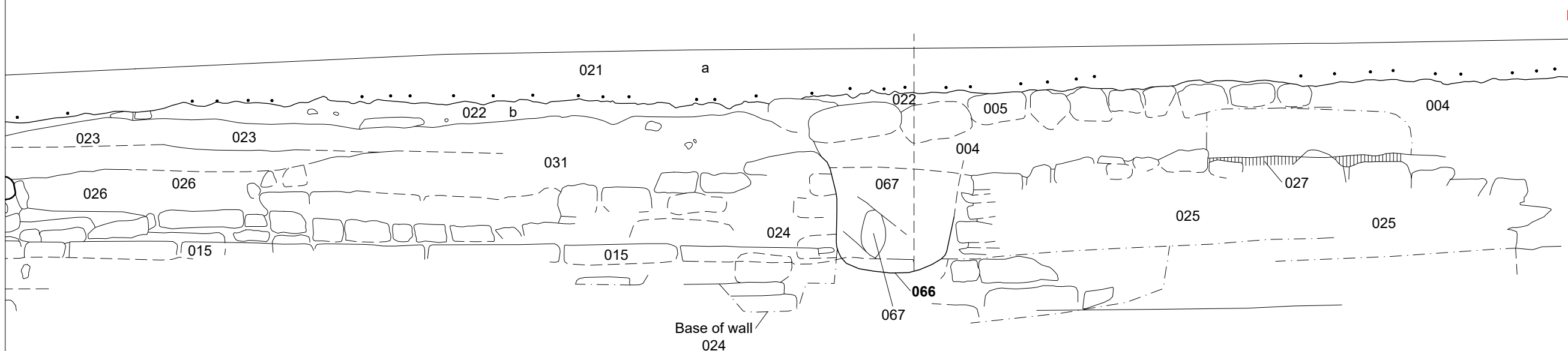
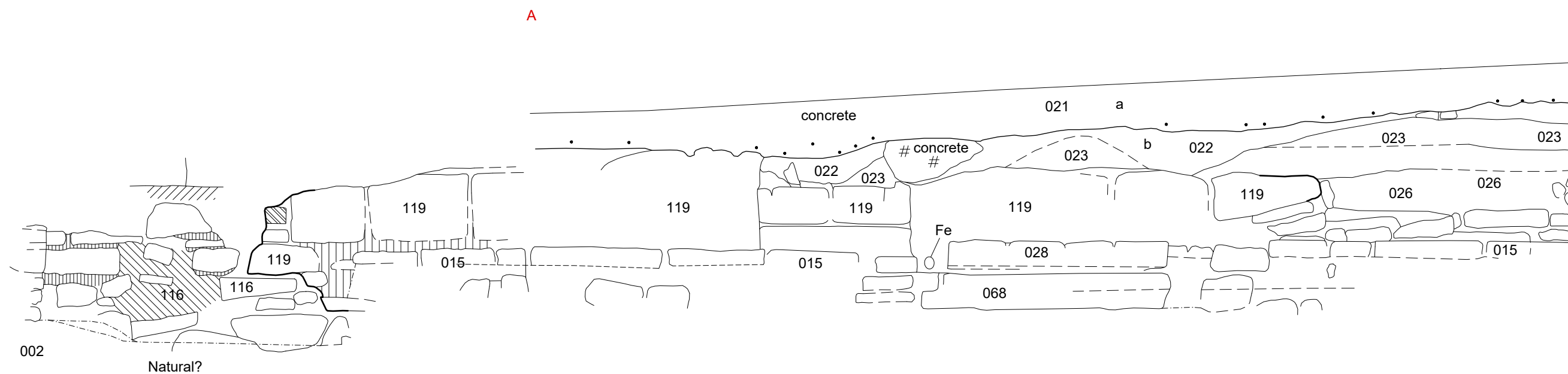
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Key:

-  Buff brick blocking duct
-  Lime mortar
-  Loose-voids



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Title:
SE facing trench section showing the sequence of walls and surfaces

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Client:
BEC

Scale at A3:
1:20

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| Report No: 3847 | Fig. No: 11 |
|---------------------------|-----------------------|





Fig. 12 - Wall 119 partially overlying Wall 116



Fig. 13 - Junction between Walls 002 and 003

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Fig. 14 - Cut slots 098 and metal mounts 099 in floor 015 from the West



Fig. 15 - Pit 007 with stone foundation 008

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Fig. 16 - Slabs 068 under bricks 028

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Key:

-  Study area
-  Stone
-  Brick
-  Cut slot



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Title:
**Underlay plan of the surfaces
 072-4 below 015**

Project:
**The Former Bus Station, Bransty
 Row, Whitehaven, Cumbria.
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BEC

Scale at A3:
1:40

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|---------------------------|-----------------------|





Fig. 18 - Earlier floor surfaces underlying 015



Fig. 19 - Brick lined feature 058 within brick floor 104 from the SSW

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Fig. 20 - Brick-lined pit 050 over drain 051



Fig. 21 - Features and surfaces in the SW end of the strip and map area

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Fig. 22 - Brick-lined feature 032 within sandstone floor 084 from the ESE



Fig. 23 - Pipe 035 in the base of feature 032 from the WNW

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Fig. 24 - Brick gully drain 018 from the SSW

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