

HUTTOFT BANK—BOAT HOUSE CAFE

FEASIBILITY REPORT

Revision P03



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Document Control Sheet

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|------------------------|---------------------------|
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| Report Title | Feasibility Report |
| Revision | P03 |
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Executive Summary

Chapter One

1.0 Executive Summary

A multidisciplinary team from Kier Business Services were engaged to carry out this Feasibility Report looking at the possible construction of a new café at Huttoft Bank.

The Surveys and Investigations section contains details of existing services records. Further reports that would be required to accompany a Planning Application would include a Flood Risk assessment and Ecological Assessment. Planners and the Environment Agency would need to be satisfied that any proposal would not impact on the existing dunes and flood defences.

It is suggested that a topographical survey, geo-environmental site investigation, drainage condition survey and permeability testing would be required to inform any further design works. In addition it is suggested that a Refurbishment and Demolition Asbestos survey should be carried out on the existing boat house.

The report reviews existing site issues and provides details of the proposed design solution.

The building is required to sit within the confines of the existing boat shed footprint, as a result this study has been restricted to one option, it will be single storey with a roof terrace.

Steel frame and traditional methods of construction were considered but dismissed due to cost reasons and it is anticipated that the building will be of modular construction.

A new 3 phase electricity supply will be installed.

The Estimated cost for the scheme based on BCIS rates and budget price from modular building provider, excluding vat, is £462,716#

Meridian figure given - refer to Chapter 7 for percentage range



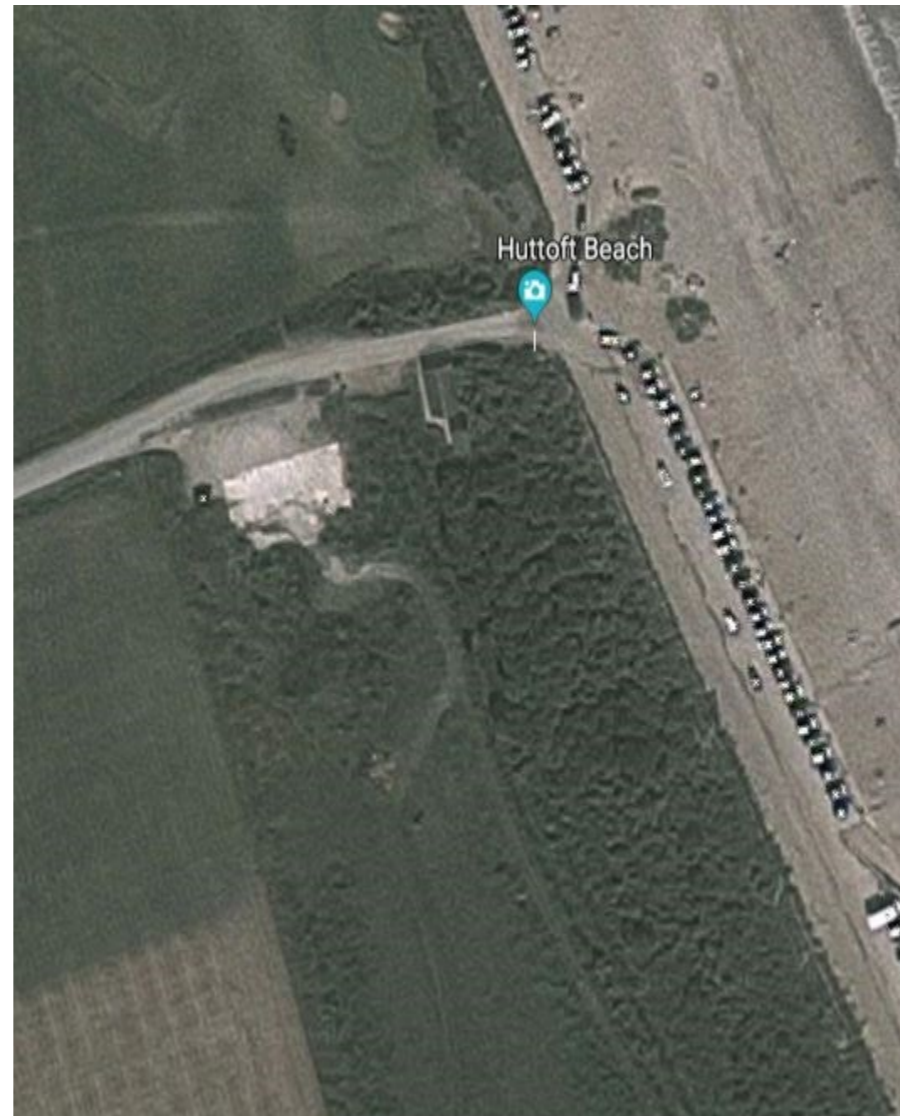
2.0 Introduction

This feasibility study for Huttoft Bank Boat Cafe has been undertaken by Kier Business Services in order to review all aspects of the potential project. An analysis of the existing site has been carried out to look at aspects such as site constraints, existing and future service provision and environmental factors.

The project brief from LCC has provided the basis for the building design with comment and input from each of the disciplines contained in their individual reports.

The proposed café is required by the Environment Agency to sit on the footprint of the existing boat house building to avoid any further impact on the existing dunes.

It is envisaged that this comprehensive assessment and feasibility study will enable the client to understand the constraints and opportunities of the existing site and the proposed new building. This report will subsequently provide a solid basis on which to move forwards with the detailed design stage of the project.



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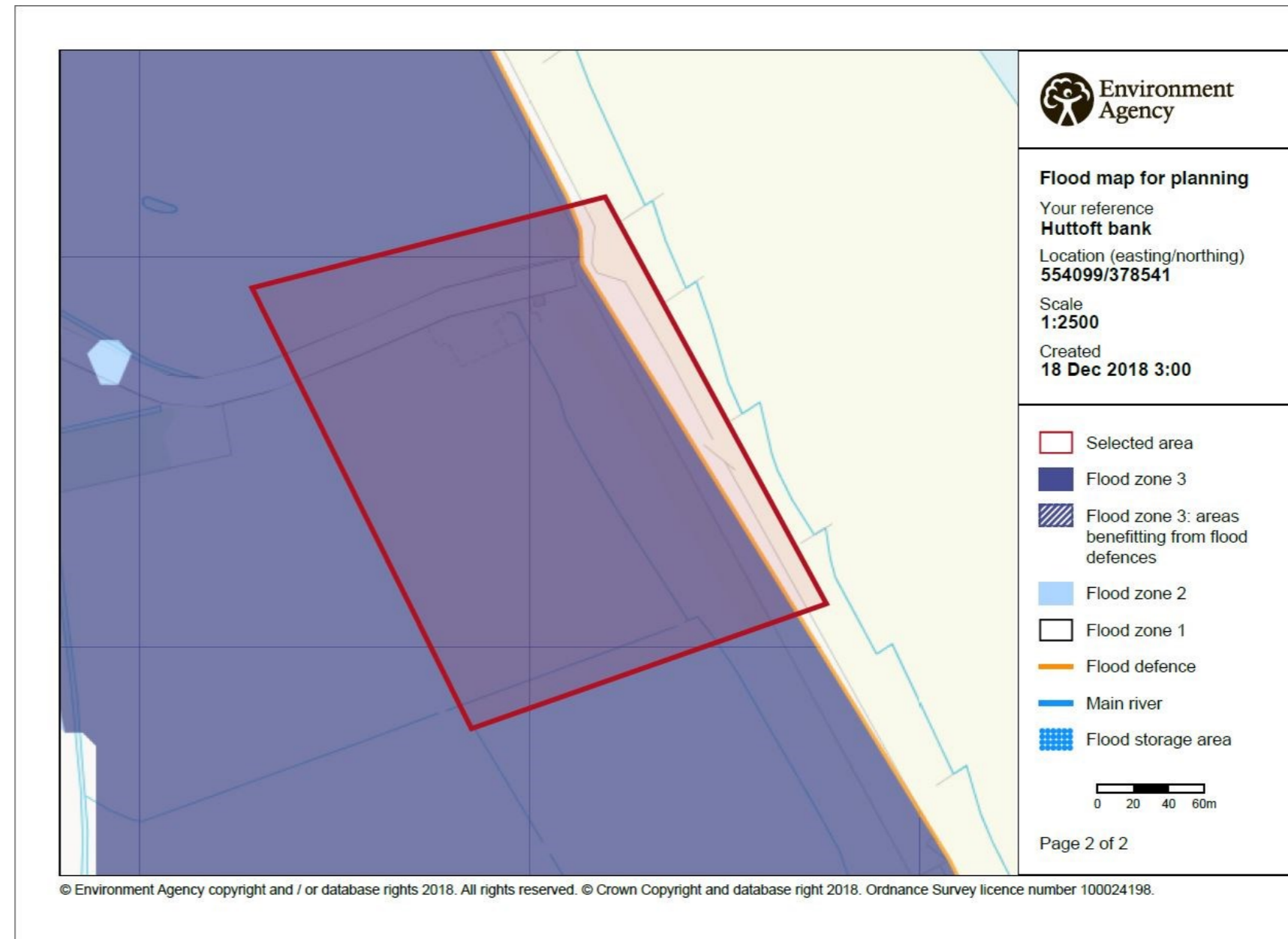
Introduction

Chapter Two

3.0 Surveys and Investigations

3.1 Flood Risk.

Information from the Environment Agency suggests that the site lies in a Flood Zone 3 and is therefore at high risk of flooding. A flood risk assessment will be required to accompany the planning application.



Flood Risk Map

3.2 Utilities Records

3.2.1 Water & Sewerage.

Anglian Water show existing connections to mains water supplies, there are no sewerage provisions to the site and so it is assumed the use of a septic tank will be required.

3.2.2 Gas.

There is no gas on the site.

3.2.3 Electricity.

There is no electricity on the site but supplies are available on Sea Lane.

3.2.4 BT.

A BT line on poles runs across the site.

3.2.5 Virgin Media.

There does not currently appear to be a Virgin Media connection in the area.

3.3 Building Control & Planning.

The site falls under the administration of East Lindsey District Council.

Lincolnshire County Council Planning Officers have been consulted for initial feedback relating to the scheme, preliminary feedback appears to be positive.

The Planners have recommended early consultation with ELDC, Huttoft Parish Council, Local County Councillor, Highways, Lincolnshire Wildlife Trust and Environment Agency.

Preliminary discussions with building control have raised no concerns, particularly with regard to the use of neighbouring toilet facilities.

3.4 Highways & Footpaths.

The site is accessed via Sea Lane which is an un-classified road without public footpaths.



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3.5 Topographical & Underground Services Survey

Given the high-level nature of this Feasibility Study, topographical and underground services surveys are excluded at this time. However, moving forwards, it is critical that these surveys should be undertaken at the earliest opportunity beyond feasibility. In particular it would be critical to receive survey and legal information relating to the site boundary in order to establish the exact distance between the west wall of the building and the site boundary.

3.6 Archaeology.

Lincolnshire County Council's Historic Environment Team and Heritage Lincolnshire were approached with regards to the proposals, both report that there are no archaeological implications on the site.

3.7 Ecology.

If the scheme is to progress to Planning Application Stage, the Planning team have informed us that an ecological assessment would be required as it is part of the Coastal Conservation area, a Local Wildlife site.

3.8 Arboriculture.

There are no trees within the existing site that would be affected by the proposed works.

3.9 Site Investigation.

It is suggested within the CSE report that an additional geo-environmental site investigation may be required to inform any future design development. This will also be required to ensure the site is free from any un-exploded ordinance.

3.10 Drainage Survey.

Details of existing below ground drainage surveys, SuDS and ground water are referred to in the Civil and Structural report in Section 5. It is suggested that a drainage condition survey and permeability testing should be carried out if the design progresses beyond feasibility stage.

3.11 Condition Survey.

A condition survey is not available for the boat house building but given its age and appearance it is anticipated to be in poor condition.

3.12 Asbestos Survey.

An Asbestos Survey is not available and so a R and D asbestos survey will be required prior to commencement of any work on site.

Architectural Report

Chapter 4

4.0 Architectural Report

4.1 Site Context

The Land was acquired under Section 58 powers of the Lindsey County Council (Sand hills) Act 1932. It is part of the Coastal Conservation Area which spans the East coast. Purchase of a stretch of sand hills, beach with former Coastguard Station and Rocket House (both of which were subsequently sold) - also Pt Os 227 & Pt Os 270, being a plot adjacent to Roman Bank, together with vehicular rights of way over two roads off Roman Bank 07/04/1937. See also Huttoft Mogg's Eye/Marsh Yard Car Park (UPRN E2495), which also comprised part of this acquisition. The toilets on the Car Terrace site belong to ELDC, whose responsibility it is to maintain. This site is covered by a wider area of land which has now been selected as a Local Wildlife Site (LWS). These are areas that stand out as being of particular value for wildlife, and which are recognised within the planning system.

The site is part of the Coastal Conservation Area and falls within **Lincolnshire Coastal Country Park** is located between Sandilands and Chapel St Leonard's, covering approximately five miles of coastline and up to 22 square miles of coastal hinterland. The area comprises working farmland, established nature reserves (reed beds and wetlands) and coastal dunes, providing accessible natural greenspace for residents and visitors. The partnership, led by Lincolnshire County Council, is working to link together existing wildlife sites by creating new nature reserves with wetland, reed bed and grazing marsh habitats, along with creating new access routes and supporting the development of a year round tourist destination.

4.2 Site Issues

The site is bounded by the beach access to the north, dunes to the east, public toilet access to the south and a drainage dyke to the west.

Sand gathers around the north-east corner and so the wall to this corner will have to act as a retaining wall.

Any development is restricted to the footprint of existing boathouse to avoid any impact on the dunes and it may be necessary to apply for an Environmental Permit due to the proximity to the sea defence.



Aerial Location Plan

Imagery@2018 Google

4.3 Building Brief

The brief for the new building was to include:

- Café - Kitchen, internal fit out to be confirmed.
- Seating area internal - circa 10-20 covers, subject to available area.
- Break out decking areas.
- WCs - existing WC block - to be refurbished.

4.4 Layout

The building will sit within the confines of the existing boat shed footprint, it will be single storey with a roof terrace. The internal layout has been developed in conjunction with the client to maximise the useable café space and hence no toilets have been included, instead, the customers and staff will use the existing adjacent toilet facilities which will be refurbished.

4.5 Construction

The building is required to be flood resistant and resilient.

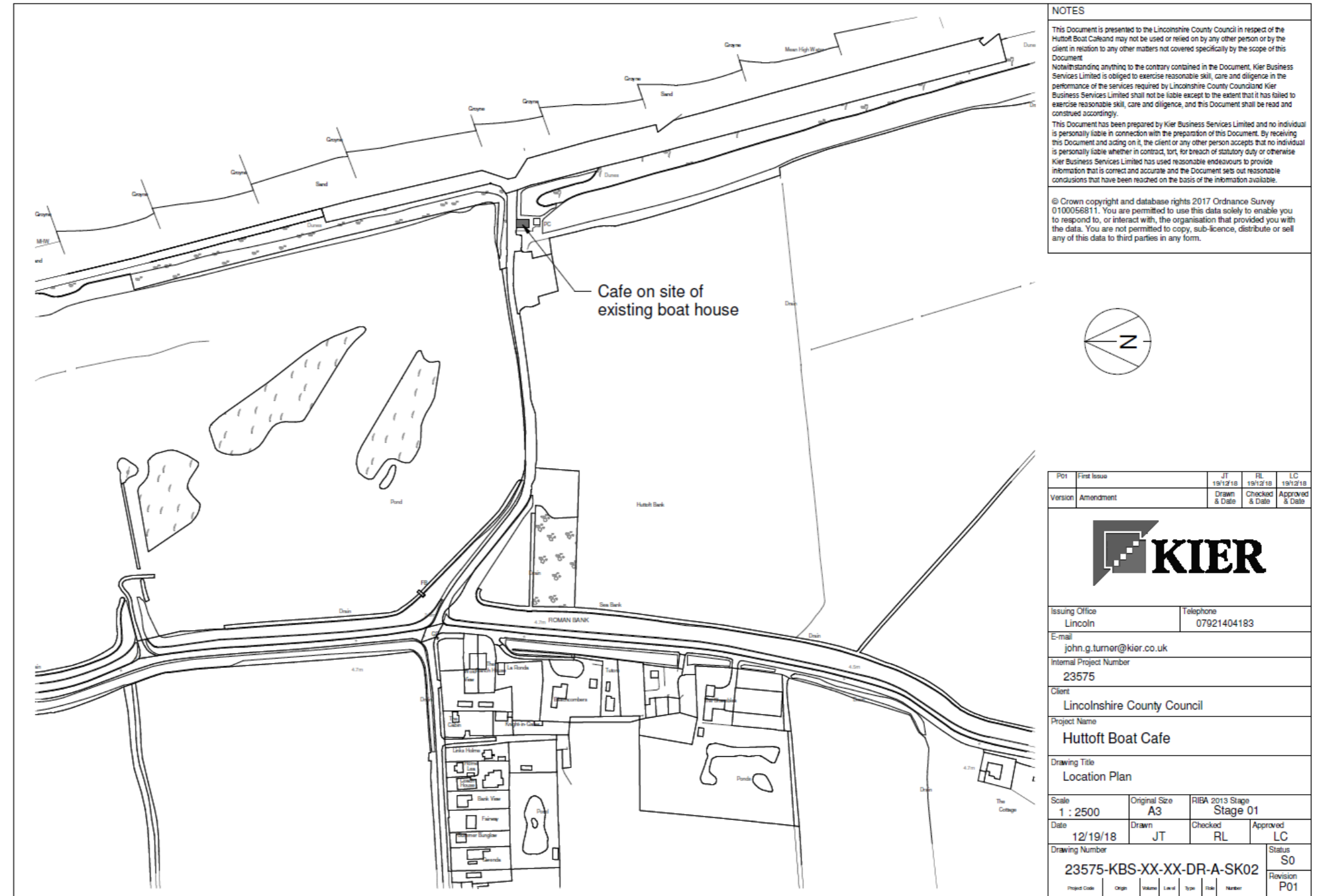
Steel frame and traditional methods of construction were considered but dismissed due to cost reasons and it is anticipated that the building will be of modular construction.

We have approached Springfield Mobile Limited of Unit 2, 12 Abbotsfield Road, St.Helens, Merseyside, WA9 4HU who have advised on the feasibility of the unit and provided a budget price for the supply and installation of a modular building which is incorporated into the breakdown in chapter 7.

4.6 External works

External deck has been included at this stage but further investigation is required as we are awaiting feedback from Lindsey Marsh Internal Drainage board.

4.9 Location Plan



NOTES

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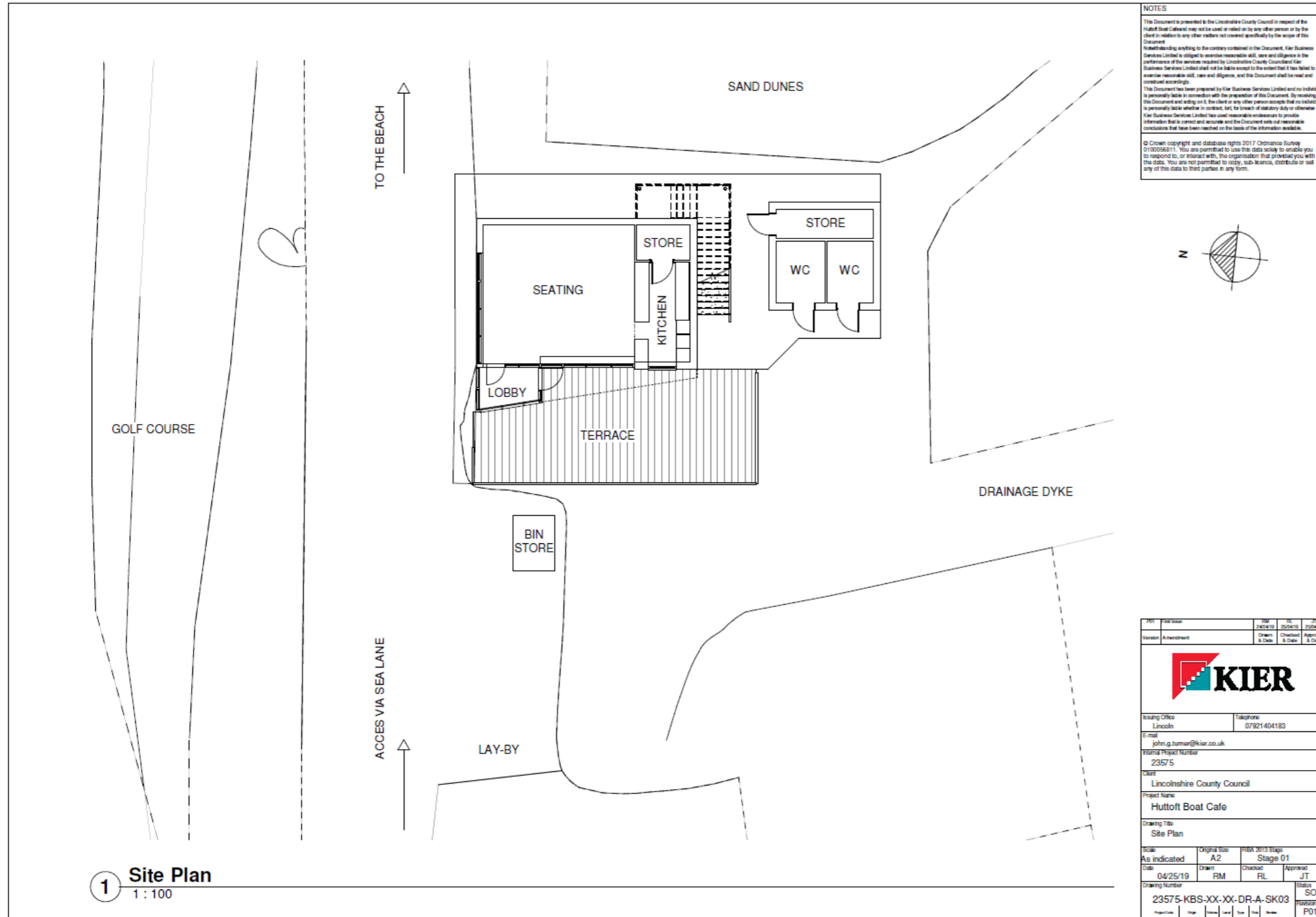
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| | | | | |
|---|---------------------|-----------------------------|----------------|-----------------|
| P01 | First Issue | JT | RL | LC |
| Version | Amendment | 19/12/18 | 19/12/18 | 19/12/18 |
| | | Drawn & Date | Checked & Date | Approved & Date |
| | | | | |
| Issuing Office Lincoln | | Telephone 07921404183 | | |
| E-mail john.g.turner@kier.co.uk | | | | |
| Internal Project Number 23575 | | | | |
| Client Lincolnshire County Council | | | | |
| Project Name Huttoft Boat Cafe | | | | |
| Drawing Title Location Plan | | | | |
| Scale 1 : 2500 | Original Size A3 | RIBA 2013 Stage Stage 01 | | |
| Date 12/19/18 | Drawn JT | Checked RL | Approved LC | |
| Drawing Number 23575-KBS-XX-XX-DR-A-SK02 | | | | Status S0 |
| Project Code | Origin | Volume | Level | Revision P01 |

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4.10 Site Plan



NOTES

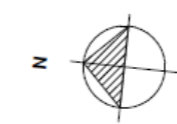
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1 Site Plan
1:100

| | | | | |
|---|---------------------|-----------------------------|----------------|---------------------------------|
| Rev | Issued | By | On | 22/04/19 |
| Version | Amendment | Drawn & Date | Checked & Date | Approved & Date |
| | | | | |
| Issuing Office Lincoln | | Telephone 07921404183 | | |
| Email john.g.hammer@kier.co.uk | | | | |
| Internal Project Number 23575 | | | | |
| Client Lincolnshire County Council | | | | |
| Project Name Huttoft Boat Cafe | | | | |
| Drawing Title Site Plan | | | | |
| Scale As indicated | Original Size A2 | BIMA 2013 Stage Stage 01 | | |
| Date 04/25/19 | Drawn RM | Checked RL | Approved JT | |
| Drawing Number 23575-KBS-XX-XX-DR-A-SK03 | | | | Status SO Revision P01 |
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5.0 Civil and Structural Engineers Report

Huttoft Bank Boat Café, Sea Lane, Huttoft, Alford,
Lincolnshire LN13 9RR

Introduction

The existing structure is a precast concrete building, approx. 8m x 5m on plan, with a duopitch corrugated asbestos-cement sheet roof, large metal framed doors to the north elevation and boarded up windows to the south and west elevations. A detached, more modern, public toilet building is located within 10m to the south of the building and a small layby and car park to the west.

The existing building is located immediately behind a large sand bank and attracts a build-up of windblown sand deposits against its east elevation.

The existing building is proposed to be demolished and replaced with a modern single storey replacement on the same footprint with an accessible roof deck area for public viewing.

A refurbishment and demolition asbestos survey will be required.

Site History

Historic mapping from 1888 shows the beach access road as an extension from Sea Lane at the junction with Roman Bank Road (later renamed Sea Bank between 1907 and 1951).

The building and Public Conveniences buildings first appear on the 1968 mapping, as does the indication of land drainage ditches to the south of Sea Lane and the formation of Sealands Golf Course to the north.

The current site layout appears to represent that shown on the most recent historic mapping, dating from around 1971, however it is assumed that the public toilet building has been replaced or refurbished to a more modern construction in recent years due to its present day appearance.

Surrounding Area

The surrounding area to the building and public toilets is remote, with Sealands Golf Course to the north, Huttoft Beach to the east and open grassland to the south. To the

west, Whitehorse Farm and residential dwellings with gardens are located to the south of Sea Lane, beyond Roman Bank/Sea Bank.

A topographical survey and services trace will need to be carried out to inform proposed site levels and identify any buried services/obstructions.

An ecology/habitat survey will need to be carried out to advice of any restrictions regarding local wildlife, flora and fauna.

Geology

The British Geological Survey (BGS) online historic borehole data was unavailable at the time of writing.

Reference to the site investigation report for the recent Chapel Point North Sea Observatory, approx. 6km to the south of this site, indicates the likelihood of loose sands, silts and clays. For the North Sea Observatory project, screw piles were utilised due to the variable ground conditions.

A full geo-environmental site investigation will need to be carried out for the Café area in order to investigate the geology, hydrology, contamination and ground gases etc.

Radon

Publicly available mapping data indicates that the site is not located in a radon potential area.

Flood Risk

The site is in a Flood Zone 3, which is land assessed as having a 1 in 100 or greater annual probability of river flooding (>1%), or a 1 in 200 or greater annual probability of flooding from the sea (>0.5%) in any year. A Flood Risk Assessment will be required as part of a planning application.

The site is high risk of flooding from the sea. The proposed drainage, building construction and floor levels will need to be carefully considered to take account of this.

Drainage

The existing public toilets are understood to be served by a septic tank. Surface water discharge from the existing Café, public toilets, Sea Lane and car parking provision is currently unknown and may simply drain to ground if there is no highway drainage provision at present.

Foul water disposal from the new Café building will need to be discharged to a septic tank.

6.0 CDM Report

6.1 General

The Construction (Design and Management) Regulations 2015 (CDM 2015) were introduced under the Health and Safety at Work Act 1974, and they apply to all construction projects carried out in Great Britain.

CDM 2015 aims to ensure that no-one is harmed during the work, and that the accommodation is safe to use and maintain whilst providing good value. CDM 2015 promotes effective planning which will also help ensure that the construction work is well managed with fewer unexpected costs and problems.

In order to achieve the above CDM 2015 places various legal duties on the key parties involved in the project namely; the client, the designers and the contractors. Further details on the specific duties can be provided on request.

The CDM 2015 will apply to the proposed project. The client must therefore ensure they comply with their duties under the Regulations including the written appointment of a Principal Designer and a Principal Contractor.

6.2 Site Location & Existing Structures

The land is part of the Coastal Conservation Area which spans the East coast. LCC Purchased a stretch of Sandhill's, beach with former Coastguard Station and Rocket House.

The existing Huttoft Bank Boat House is a precast concrete building, approx. 8m x 5m on plan, with a duopitch corrugated asbestos-cement sheet roof, large metal framed doors to the north elevation and boarded up windows to the south and west elevations. A detached, more modern, public toilet building is located within 10m to the south of the Café and a small layby and car park to the west.

Historic mapping from 1888 shows the beach access road as an extension from Sea Lane at the junction with Roman Bank Road (later renamed Sea Bank between 1907 and 1951).

The Boat House and Public Conveniences buildings first appear on the 1968 mapping, as does the indication of land drainage ditches to the south of Sea Lane and the formation of Sealands Golf Course to the north.

The current site layout appears to represent that shown on the most recent historic mapping, dating from around 1971, however it is assumed that the public toilet building has been replaced or refurbished to a more modern construction in recent years due to its present day appearance.

6.3 Existing Site Access

Access onto the site is via a beach drive (Known as Huttoft Bank) which is a relatively narrow roadway off Roman Bank a fairly busy trunk road following the coast from Skegness. The access road gives access to the Beach Terrace Carpark & Café,, with Sealands Golf Course to the north, Huttoft Beach to the east and open grassland to the south. To the west, Whitehorse Farm and residential dwellings with gardens are located to the south of Sea Lane, beyond Roman Bank/Sea Bank.



Fig 1 showing Huttoft Bank access Road

6.4 Contractor Site Access

The proposed extension is to be on the footprint of the existing building, Contractors access will be the same as the current access down Huttoft Bank.



Fig 2 Showing Boat House & Cafe

6.5 Segregation

It is anticipated that segregation of the construction works will be by 2m high anti climb herras fencing, this will be around the perimeter of the building and site compound.

6.6 Services

A Linesearch 'before u dig' enquiry LSBUD Ref: 14422433 indicates that there are no mains electricity, gas, potable water or sewers along Sea Lane to the east of Roman Bank/Sea Bank.

BT mapping indicates a supply along Sea Lane to the east of Roman Bank/Sea Bank.

Anglian Water records show water in Roman Bank but not in Huttoft Bank.

Anglian Water records show no drainage assets around the site; however it is understood that there is some form of sewage treatment plant on site.

Western Power service drawings show no assets around the site.

Cadent Gas record drawings show no assets in the area.

Virgin Media records drawings show no assets in and around the site.

It is recommended that a GPRS Survey is undertaken to ascertain any unknown services and underground obstructions within the curtilage of the site .

CDM Report

Chapter Six

6.7 Ground Conditions

The Structural section of the feasibility covers the ground conditions and a full geo-environmental site investigation will be required.

6.8 Asbestos

The whole of the boathouse roof is a duopitch corrugated asbestos-cement sheet roof an R&D Asbestos survey will be required.

6.9 Demolition / Temporary Works

The proposed works include the full demolition of the existing building a written method statement will be required prior to demolition.

Any temporary works required in association with the construction of the new structure must be designed, installed and inspected by a competent qualified person.

6.10 Fire Strategy / Emergency Access

The proposed buildings travel distance is under 18 metre's therefore a fire exit is not required however there is a pair of double doors out of cafe .

6.11 Welfare

The client must be satisfied suitable welfare provisions are provided in accordance with Schedule 2 of the CDM 2015. It is anticipated that the Principal Contractor will be required to provide adequate welfare provision as part of their site setup.

6.12 Access and Maintenance

In developing the design consideration needs to be given to future access/maintenance of the structure.

6.13 Unexploded Ordnance

Publicly available mapping data indicates that Skegness was a Luftwaffe target 15km to the south and Mablethorpe indicated as an 'Other' target 6km to the north. It must be also noted that one of the buildings was historically called the Rocket store these were primarily emergency maroons.

It would be recommended that a UXO survey be carried out at the next project phase which may be referenced within the site investigation Phase 1 desk study.

7.0 QS Report

QS Report

Chapter Seven

Order of Cost Estimate Summary



Project: HUTTOFT BEACH CAFÉ
Reference: BOAT CAFÉ - MODULAR OPTION
Date: 29/04/2019

| | | | | | |
|---|--------------|---------|---|---------|----------|
| Building works estimate | | | £ | 355,956 | |
| Main contractor's preliminaries estimate | included | | £ | - | |
| Sub-total | | | £ | 355,956 | |
| Main contractor's overheads and profits estimate | included | | £ | - | |
| Works cost estimate | | | £ | 355,956 | |
| Other development/project costs estimate | | | £ | - | |
| Base cost estimate | | | £ | 355,956 | |
| BCIS Tender Price Index | 326 | 1Q 2019 | | | |
| Risk allowances estimate | | | | | |
| (a) Design development risks estimate | | 5.00% | £ | 17,798 | |
| (b) Construction risks estimate | | 5.00% | £ | 17,798 | |
| (c) Employer change risks estimate | not included | 0.00% | £ | - | |
| (d) Employer other risks estimate | not included | 0.00% | £ | - | |
| | | | £ | 35,596 | £ 35,596 |
| Construction cost estimate (excluding inflation) | | | £ | 391,552 | |
| Tender inflation estimate | | 0.61 % | £ | 391,552 | £ 2,402 |
| BCIS Tender Index | 328 | 2Q 2019 | | | |
| Construction cost estimate (excluding construction inflation) | | | £ | 393,954 | |
| Construction inflation estimate | | 2.13 % | £ | 393,954 | £ 8,408 |
| BCIS Tender Index | 335 | 4Q 2019 | | | |
| Construction cost estimate (excluding inflation) | | | £ | 402,361 | |
| Project/design team fees estimate | 15% | | £ | 60,354 | |
| Total Project Estimate including Fees | | | £ | 462,716 | |
| Total Project Estimate including Fees less 10% | -10% | | £ | 416,444 | |
| Total Project Estimate including Fees plus 10% | 10% | | £ | 508,987 | |
| VAT Assessment | | | | | Excluded |

Assumptions & Qualifications

Project: HUTTOFT BEACH CAFÉ
Reference: BOAT CAFÉ - MODULAR OPTION
Date: 29/04/2019

Exclusions

- 1 VAT excluded.
- 2 No allowance for phasing
- 3 Excludes risk allowances from risk register
- 4 No allowance for ICT hardware, servers, Interactive Whiteboards and computers
- 5 No allowance for external works incl. car parking
- 6 No allowance for using roof deck as a sitting area
- 7 No allowance for installing a new drainage system
- 8 No allowance for gas supplies to the site
- 9 No Allowance have been made for external works
- 10 No inflation calculation included as no proposed works programme in place

Assumptions and Qualifications

- 1 Based on Kier sketch drawing dated 12/12/18 - Proposed General Arrangement, 23575-KBS-XX-XXDR-A-SK01
- 2 Assumes work carried out during normal working hours.
- 3 Included allowance for utility services upgrade (subject to survey).
- 4 Allowance for localised drainage works included
- 5 Based on BCIS Rates, rates from Spons Price Book and in-house past projects
NB Rate reflects BCIS forecast as shown on summary. It should be noted that following the triggering of Article 50 (Brexit), the current situation is causing uncertainty within the marketplace generally, therefore we would advise an estimated accuracy range of plus or minus 10%.
- 6
- 7 Design development risk allowances have been included.
- 8 Construction risk allowances have been included.

Estimate prepared by: S.Supiya

Checked by: F. Ngulube MRICS





County Offices
Newland
Lincoln
LN1 1YL

| Huttoft Boat Café Preliminary Spend Profile | |
|---|-------------------|
| Month | Spend |
| Apr-19 | 7,185.00 |
| May | |
| June | 5,000.00 |
| July | 5,000.00 |
| Aug | 5,000.00 |
| Sept | 5,000.00 |
| Oct | 1,844.00 |
| Nov | 1,844.00 |
| Dec | 1,843.00 |
| Jan-20 | 105,000.00 |
| Feb | 105,000.00 |
| March | 105,000.00 |
| Apr | 105,000.00 |
| May | |
| June | |
| July | |
| Aug | |
| Sept | |
| Oct | |
| Nov | |
| Dec | |
| Jan-21 | |
| Feb | |
| March | |
| Apr | 10,000.00 |
| Total | 462,716.00 |



8.0 Risk Register

A Risk Register has been put together by the Project Manager is this is set out on the following pages to outline the possible risks that may be encountered during the project, their probability, impact and potential related costs.

Risk Register

Chapter Eight

Tick here to include completed risks in the table
 Tick here to exclude risks with suppressed risk status

Probability: Impact: Select Category:

[Click here to search](#)

| Sel | Ref | Date raised | Raised by | Last updated | Risk | Probability | Impact | Status | Owner | Cost | Score | Standard | Previous Snapshot |
|--------------------------|-----|-------------|-------------------------------------|--------------|--|-------------|----------|------------------|-------------|--------------------------|-------|----------|-------------------|
| <input type="checkbox"/> | 1 | 19 Dec 2018 | John Turner input on 19 Dec 2018 | | Project fails to get planning approval Category : Strategic & Commercial | Possible | Critical | Live Risk Status | John Turner | £0.00 £0.00 | 6 | | |
| <input type="checkbox"/> | 2 | 19 Dec 2018 | John Turner input on 19 Dec 2018 | 19 Dec 2018 | Project fails to get approval from the Environment Agency Category : Strategic & Commercial | Possible | Critical | Live Risk Status | John Turner | £0.00 £0.00 | 6 | | |
| <input type="checkbox"/> | 3 | 19 Dec 2018 | John Turner input on 19 Dec 2018 | 29 Apr 2019 | Electricity supply not available to too costly Category : Economic/Financial | Possible | Major | Live Risk Status | John Turner | £30,000.00 £18,900.00 | 5 | | |
| <input type="checkbox"/> | 4 | 19 Dec 2018 | John Turner input on 19 Dec 2018 | 29 Apr 2019 | In-adequate foul water drainage Category : Economic/Financial | Possible | Major | Live Risk Status | John Turner | £20,000.00 £12,600.00 | 5 | | |
| <input type="checkbox"/> | 5 | 19 Dec 2018 | John Turner input on 19 Dec 2018 | 29 Apr 2019 | Un- exploded ordinance on site Category : Economic/Financial | Hardly Ever | Major | Live Risk Status | John Turner | £10,000.00 £5,000.00 | 4 | | |



Preliminary Programme

Chapter 9

9.1 Programme Commentary

9.2 Introduction

This commentary is based on the preliminary programme included in this report. The proposed dates form the basis for discussion and agreement with LCC and will define the scheduling principles / assumptions to be adopted henceforth for planning purposes.

9.3 Current Position

This report is the completion of Preparation & Brief (RIBA 1).

9.4 Funding

The project funding is yet to be confirmed.

9.5 Planning Application

The planning application is scheduled for submission in August 2019 with a decision anticipated in October 2019.

9.6 Surveys

The following surveys will need to be undertaken:

Below ground utilities desk top.

Drainage (CCTV) survey.

GPRS (utilities) and UXO survey.

Site Investigation.

Topographical Survey.

Ecological Survey.

Asbestos Refurbishment and Demolition Survey.

Surveys are scheduled to commence in February 2019. Procurement of surveys will comply with LCC Corporate Property Procurement & Tendering Policy Handbook.

9.7 Preparation and Brief (RIBA 1)

The Preparation and Brief stage, Outline Feasibility, RIBA 1, completed in April 2019.

9.8 Developed Design (RIBA 2/3)

RIBA 2/3 commences in June 2019 and is planned for completion and sign off in August 2019, following which a planning application will be submitted subject to receipt of all necessary supporting documentation.

9.9 Technical Design (RIBA 4)

RIBA 4 commences in August 2019 with expected completion September 2019 however the Technical Design will be progressing at risk as the Planning Application decision will not have been reached at this point (decision anticipated October 2019). Written acknowledgment will be required from LCC to proceed at risk.

9.10 Contractor Procurement

Contractor procurement will be via a traditional tender process assuming a 4 week tender period. The Principal Contractor will be appointed once RIBA stage 4 has been completed.

It is intended that a preferred contractor will be appointed in November 2019.

9.11 Implementation

Construction works are scheduled for commencement in September 2019 following a 6 week mobilisation period and the lead-in periods for ordering materials. Works on site will extend for 16 weeks with practical completion anticipated in April 2020. The 12 month Maintenance Period will follow concluding in April 2021.

9.12 Critical path

The high level critical path is identified as follows:

Outline feasibility.

Surveys.

Stage 3 report.

Developed design.

Planning and consent.

Technical design.

Contractor procurement.

Mobilisation.

Construction.

10.0 Conclusions

An analysis of the site was carried out in terms of environmental factors such as flood risk, although the site is deemed to be in high risk of flooding, damage could be mitigated by the use of flood resistant and resilient materials. An ecology survey is required as the site is part of the coastal conservation area. Archaeological teams have reported that there is to be low risk of finds on the site. A Site Investigation survey and a drainage survey are required and therefore these remain potential risk items. The main risk factors for the project are failure to obtain planning or Environment Agency approval, early consultation has taken place and will be ongoing throughout the design process.

The building would be of modular construction.

A new three phase electricity supply would be installed. It is anticipated that this will terminate in the store in the existing toilet block where a new meter would be installed.

A supply would then be taken to the modular unit to serve electric heating, lighting and small power in the cafe. Mechanical ventilation would be required to the kitchen.

The timetable for completion of the project based on preliminary programme is anticipated as April 2020, subject to review and critical path items.

The Estimated cost for the scheme based on BCIS rates and budget price from modular building provider, excluding vat, is £462,716#

Meridian figure given - refer to Chapter 7 for percentage range

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Appendices

Chapter 11



Appendix A1—Anglian Water Supply Record



(c) Crown copyright and database rights 2018 Ordnance Survey 100022432 Date: 14/12/18 Scale: 1:9269 Map Centre: 553765,378640 Data updated: 04/09/18 Clean Water Plan A4

This plan is provided by Anglian Water pursuant to its obligations under the Water Industry Act 1991 sections 196 or 199. It must be used in conjunction with any search results attached. The information on this plan is based on data currently recorded but position must be regarded as approximate. Service pipes, private sewers and drains are generally not shown. Users of this map are strongly advised to commission their own survey of the area shown on the plan before carrying out any works. The actual position of all apparatus MUST be established by trial holes. No liability whatsoever, including liability for negligence, is accepted by Anglian Water for any error or inaccuracy or omission, including the failure to accurately record, or record at all, the location of any water main, discharge pipe, sewer or disposal main or any item of apparatus. This information is valid for the date printed. This plan is produced by Anglian Water Services Limited (c) Crown copyright and database rights 2018 Ordnance Survey 100022432. This map is to be used for the purposes of viewing the location of Anglian Water plant only. Any other uses of the map data or further copies is not permitted. This notice is not intended to exclude or restrict liability for death or personal injury resulting from negligence.

| | | | |
|----------------------|--|---------|--|
| Potable Water | | Fitting | |
| Raw Water | | Hydrant | |
| Decommissioned Water | | | |

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Appendix A2—Anglian Water Sewerage Record



(c) Crown copyright and database rights 2018 Ordnance Survey 100022432 Date: 14/12/18 Scale: 1:9269 Map Centre: 553765,378640 Data updated: 04/09/18 Wastewater Plan A4

This plan is provided by Anglian Water pursuant to its obligations under the Water Industry Act 1991 sections 196 or 199. It must be used in conjunction with any search results attached. The information on this plan is based on data currently recorded but position must be regarded as approximate. Service pipes, private sewers and drains are generally not shown. Users of this map are strongly advised to commission their own survey of the area shown on the plan before carrying out any works. The actual position of all apparatus MUST be established by trial holes. No liability whatsoever, including liability for negligence, is accepted by Anglian Water for any error or inaccuracy or omission, including the failure to accurately record, or record at all, the location of any water main, discharge pipe, sewer or disposal main or any item of apparatus. This information is valid for the date printed. This plan is produced by Anglian Water Services Limited (c) Crown copyright and database rights 2018 Ordnance Survey 100022432. This map is to be used for the purposes of viewing the location of Anglian Water plant only. Any other uses of the map data or further copies is not permitted. This notice is not intended to exclude or restrict liability for death or personal injury resulting from negligence.

| | | | | | |
|-----------------------|-----------|----------|---|--------------------------------|---|
| Foul Sewer | — — — — — | Outfall* | ⊖ | Sewage Treatment Works | □ |
| Surface Sewer | — — — — — | Inlet* | ⊕ | Public Pumping Station | ● |
| Combined Sewer | — — — — — | Manhole* | ● | Decommissioned Pumping Station | ● |
| Final Effluent | — — — — — | | | | |
| Rising Main* | — — — — — | | | | |
| Private Sewer* | — — — — — | | | | |
| Decommissioned Sewer* | — — — — — | | | | |

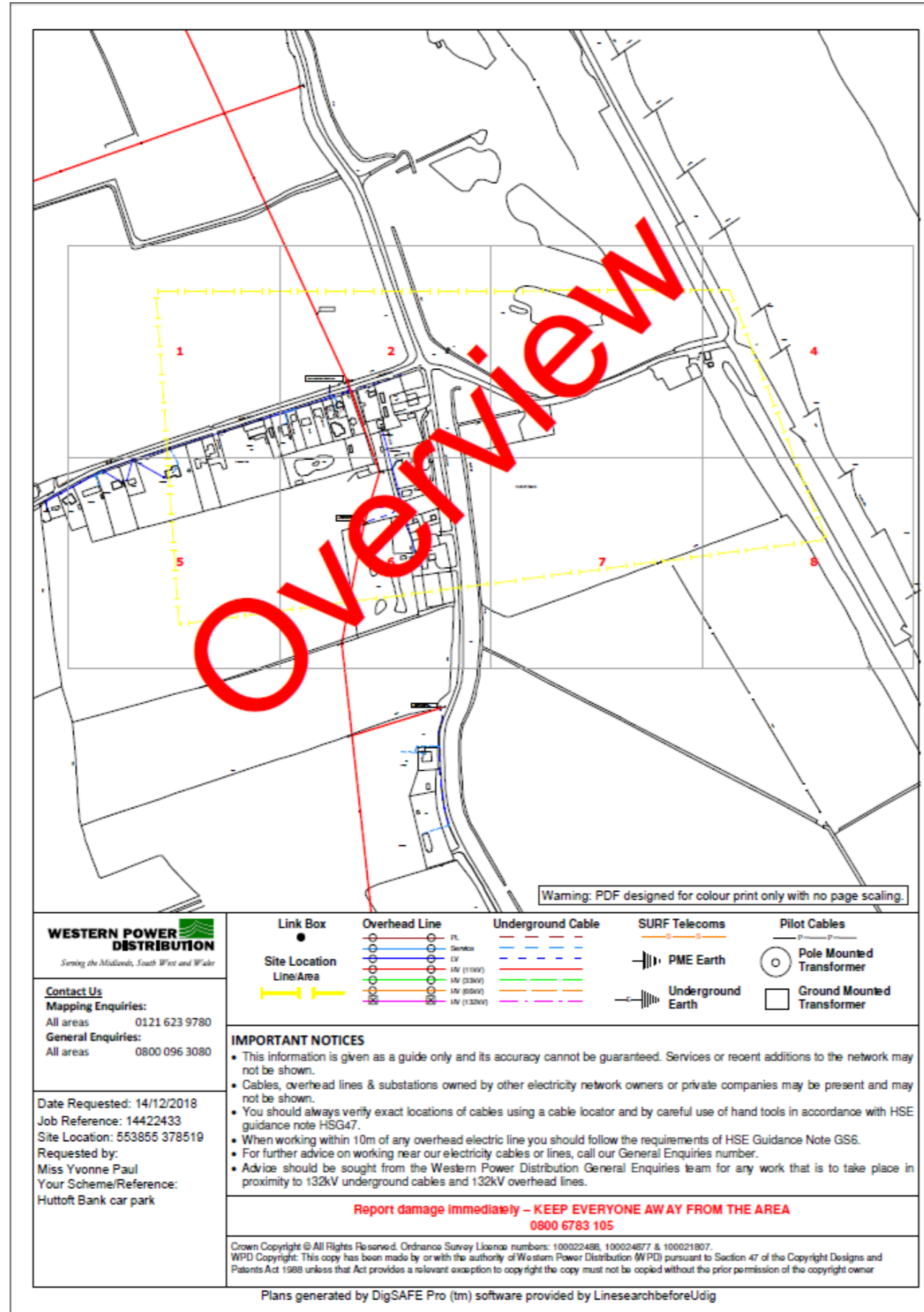
*(Colour denotes effluent type)

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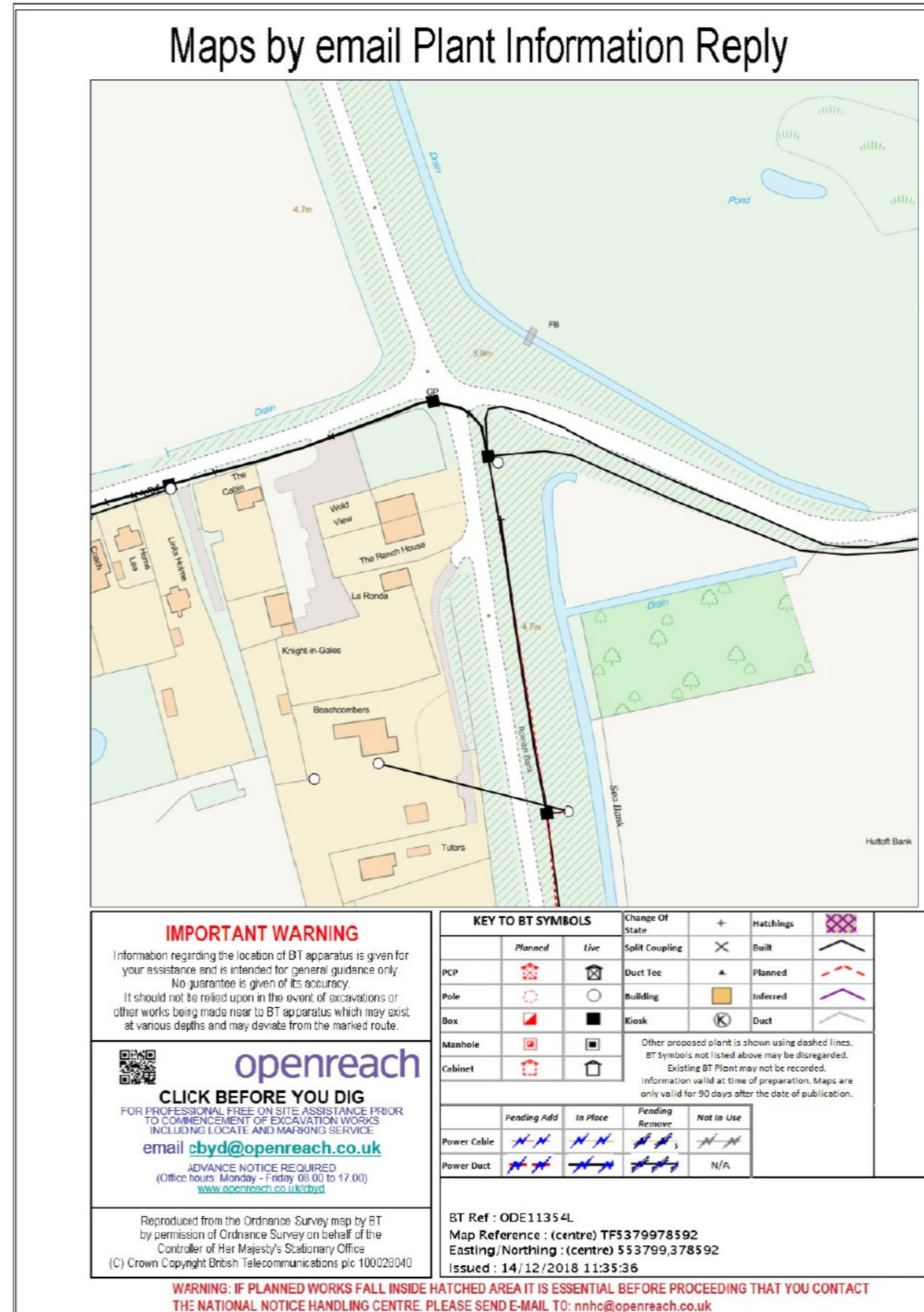


Appendix C

Western Power Supply Record



Appendix D—BT Records Map





Kier Property

Design and Business Services

Exchange Station

Tithbarn Street

Liverpool

L2 2QP

0151 600 5000

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