

Environment Agency

NEC4 professional services contract (PSC)

Scope

Project / contract Information

Project name	Boston Upstream System
Project 1B1S reference	ENV0002207C
Contract reference	
Date	30/03/2020
Version number	1.0
Author	

Revision history

Revision date	Summary of changes	Version number
	First issue	

This Scope should be read in conjunction with the version of the Minimum Technical Requirements current at the Contract Date. In the event of conflict, this Scope shall prevail. The *services* are to be compliant with the following version of the Minimum Technical Requirements:

Document	Document Title	Version No	Issue date
412_13_SD01	Minimum Technical Requirements	Version 9	28 Aug 2018

Details of the services

Boston is a historical market town with a history of flooding. Currently tidal flooding presents greater risk to town centre than the risk from fluvial flooding. The Environment Agency is in a process of constructing the Boston Barrier which, once operational will better protect over 14,000 properties in the town from tidal flooding.

All forecasts have an allowable error of $\pm 0.2\text{m}$ inbuilt, therefore the barrier closure trigger has been set at 5.1m AOD to take this into account. The barrier will be closed in time for a forecasted tidal level of 5.1m AOD and assuming an operational level of 5.30m, the barrier will be closed for levels $\geq 5.3\text{m}$ AOD.

Fluvial flooding from the River Witham is not a significant threat for Boston. The discharge of fluvial flows is controlled by Grand Sluice and the tidal defences in place along the Haven will contain fluvial flood flows far in excess of those passed through Grand Sluice. Previous studies have indicated that, during larger flood events, fluvial flows in excess of a 10% chance of flooding will overtop the flood banks of the Lower Witham in the upper reaches and are not conveyed to the town of Boston. [Business Case 2008]

Objective

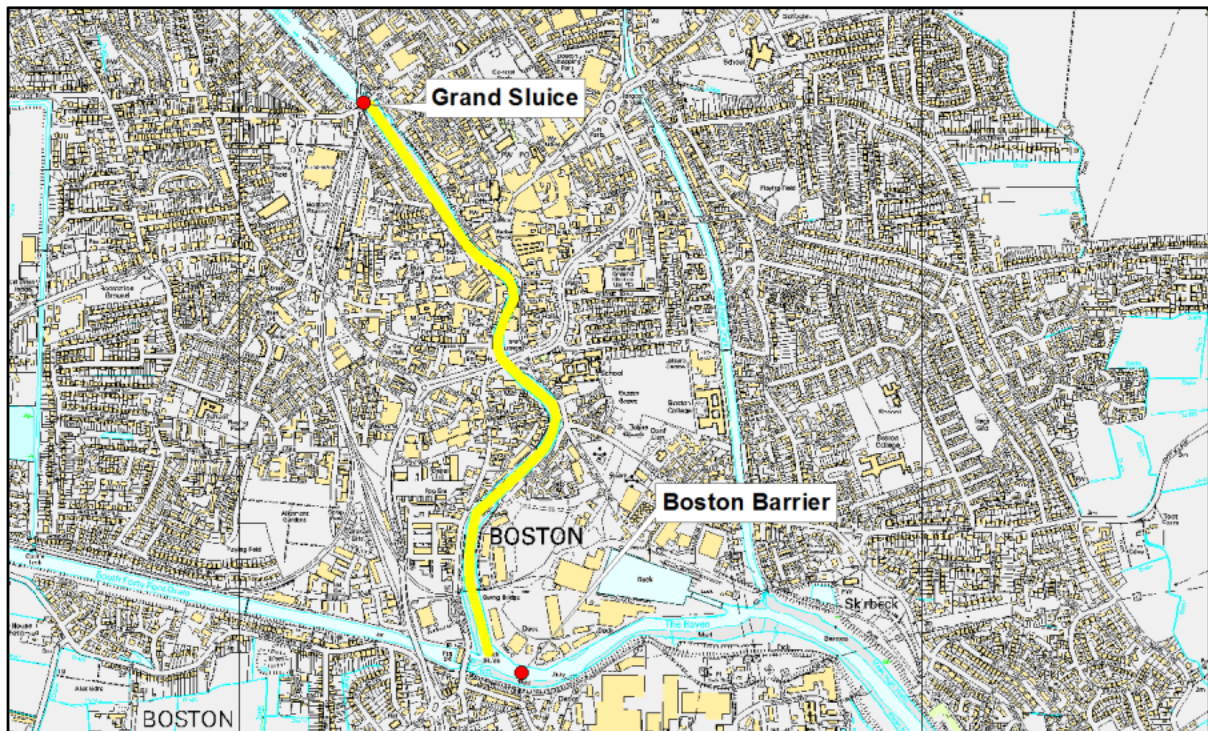
The geographical scope of the project is along the Witham Haven between the Boston Barrier and Grand Sluice (see project extent map below).

The objective of this commission is to sustain a revised standard of service of 5.5m AOD, improve the management of flood risk assets in the town of Boston and reduce the risk of an asset failure.

This is in line with the Boston Combined Strategy which was approved in 2008 and identified 5 separate phases of work to achieve its vision “to manage the risk from flooding in Boston

whilst enabling opportunities for regeneration” [Procurement Strategy Meeting report May 2008] focusing on reducing the risk of tidal flooding and regenerating the town’s waterways.

Extent of the work:



Works related to Grand Sluice have been taken out this commission and will be specified in separate contract documents.

Outcome Specification

The *Consultant* shall undertake the following:

1. Review of the data: a desktop study of the existing asset data provided by the Client
2. Screening of the data and assessment of the robustness/ usability of data
3. Undertake gap analysis of existing data
4. Organise a workshop and present gap analysis of all the missing data to the Client
5. Provide a report with recommendations, taking into account the workshop outputs, for asset inspection or further surveys as and if required to allow for the SOC to be written including options and costings
6. Prepare a plan for the next stage of the asset inspections. Provide programme, number of people and durations. The next stage - surveys will be added under a separate instruction before SOC stage

1. Drawings, site information or reports already available

As per Appendix 1

2. Services and other things provided by the *Client*

- a) Existing information.
- b) ASite.
- c) FastDraft
- d) *Client's* Advisors.
- e) Access to sites.
- f) BIM (IDP)
- g) Data and information management and intellectual property rights
All of the data listed as being supplied to the *Consultant* as part of this study remains the IP of the Client.
- h) Data custodianship
The data custodian for project deliverables from this commission will be the PCM team.

Appendices

Appendix A Existing information

Title	Comments
Boston Upstream assets	Table with existing asset information
IMAN001473 Haven Works: PAR Appendix K1: Technical Assessment Report	Dec 2011
Flood Defence Wall Inspection Report - V1_Ver1	Boston Haven Site 4 Works – Post Flood Event Inspection. Dec 2013
2004 Witham Haven survey	Asset survey data
2014 Witham Haven survey	Asset survey data
2020-02-11 Jakeman's slip photographs	
TIDAL DEFENCES HAVEN BRIDGE TO SWING BRIDGE TIDAL DEFENCES IN BOSTON TIDAL DEFENCES TOWN BRIDGE TO GRAND SLUICE	1984 Asset survey 1984 Asset survey 1983 Asset survey
TIDAL WITHAM AT BOSTON	1977 Asset survey
Boston Haven 2004	Asset survey data and photographs
Health& Safety Files – hard copies available in the Ceres House office: Jakeman's Slip 2003 Boston River Walls (South Terrace) 1999	Health& Safety Files

Appendix B BIM Protocol – Production and Delivery Table

www.Pow.bim4.info

N.B. You need google chrome for this link to work.

IDP to be printed and included in final version of scope.

All *Client* issued information referenced within the Information Delivery Plan requires verifying by the *Consultant* unless it is referenced elsewhere within the *Scope*.