

Civil and Structural Engineering - Scope of Service

The scope and duties for the Civil and Structural Engineering services for the SWCF 2016-2020 framework are detailed below. These are based on the ACE (2009) Schedule of Services Part G(a) – Civil and Structural Engineering Single Consultant or Non-lead Consultant. It should be noted that these documents precede certain changes in the law however the Consultant is expected to comply with all relevant legal requirements imposed by UK law.

Three project procurement routes are generally envisaged, these are;

- 1) Traditional procurement
- 2) Design and Build (D&B), two stage with novation (the design is developed by the Consultant to RIBA Stage 3 including the planning application, Employers Requirements are prepared for a design and build project and the consultant appointment is novated fully to the contractor at the end of Riba Stage 3/ commencement of Riba stage 4)
- 3) Design and Build, two stage without novation (the design is developed by the Consultant to RIBA Stage 3 including the planning application, Employers Requirements are prepared for a design and build project involving other designers employed by the Contractor and the Consultant is retained to act as the clients Technical Advisor)

Services

The civil and structural work elements will generally comprise:

- Earthworks and Excavation
- Demolition of Structures
- Foundations including forms of piling but not the design of proprietary piling
- Earth and Water retaining structures
- Ground and surface treatment
- Local and main, public health and land drainage
- Paving and surfacing; roads, carpark and footpaths
- Fencing and landscaping
- Structures in masonry, brickwork and/or blockwork, unreinforced or reinforced
- Structures in timber
- Structures in metalwork, ferrous or non-ferrous
- Structures in concrete both in-situ and pre-cast

The following services are related to the civil and structural services but the detail design does not form part of the C&S commercial offer and the work elements require design inputs from specialists. The Consultant should allow for liaison with the specialists as appropriate:

- Proprietary pile design
- Proprietary ground improvement techniques
- Proprietary retaining wall design
- Proprietary flooring systems
- Proprietary cladding and glazing systems
- Tensile structures

The following services deemed as 'other services' are to be performed by the consultant as required but do not form part of the base scope of works or commercial offer. These may be agreed between client and consultant on a case by case basis:

- G3.1-G3.18 (other services)
- G4.1 – G4.1.12 (services to be arranged but not necessarily performed by the C&S consultant)

1) Traditional

The required services associated with the traditional procurement route is based on ACE schedule G(a) ('The services') which comprise the following stages which are aligned to the RIBA Plan of Work 2013 stages as shown in the table below;

ACE work Stage	ACE description	Equivalent RIBA Plan of Work 2013
G2.1	Appraisal stage	1
G2.2	Strategic briefing stage	
G2.3	Outline proposals stage	2
G2.4	Detailed proposals stage	
		3
G2.5	Final proposals stage	
G2.6	Production information stage	4
G2.7	Tender information stage	
		5 (Specialist design elements)
G2.8	Mobilisation stage	6
	Construction to practical completion stage	6
	After practical completion stage	7
G3	Other Services to be performed by the consultant	TBA

2) Design and Build with Novation

The services associated with the D&B (with novation) route is based on ACE schedule G(a) ('The services'). An additional service required is the collation of the drawings and specifications into an Employers Requirements document. Novation of the appointment to the Contractor will occur at the commencement of RIBA Stage 4.

ACE work Stage	ACE description	Equivalent RIBA Plan of Work
G2.1	Appraisal stage	1
G2.2	Strategic briefing stage	
G2.3	Outline proposals stage	2
G2.4	Detailed proposals stage	
		3 ²
G2.5	Final proposals stage	
G2.6	Production information stage	4
G2.7	Tender information stage	
		5 (Specialist design elements)

G2.8	Mobilisation stage	6
	Construction to practical completion stage	6
	After practical completion stage	7
G3	Other Services to be performed by the consultant	TBA

² Consultant appointment to be novated at end of RIBA stage 3

3) Design and Build without Novation

The D&B without novation route is based on ACE schedule G(a) ('The services') with completion of the employer requirements/performance specification at Riba stage 3. The Contractor design work will commence at RIBA stage 4. The table below details the stages which are aligned to the RIBA and ACE plan of work.

ACE work Stage	ACE description	Equivalent RIBA Plan of Work
G2.1	Appraisal stage	1
G2.2	Strategic briefing stage	
G2.3	Outline proposals stage	
G2.4	Detailed proposals stage	3 ²
G2.5	Final proposals stage	
G2.6	Production information stage	4
G2.7	Tender information stage	
		5 (Specialist design elements)
G2.8	Mobilisation stage	6
	Construction to practical completion stage	6
	After practical completion stage	7
G3	Other Services to be performed by the consultant	TBA

It should be noted that under this procurement route the following services are not required of the C&S consultant:-

- G2.4
- G2.5
- G2.6
- G2.8.2, G2.8.10