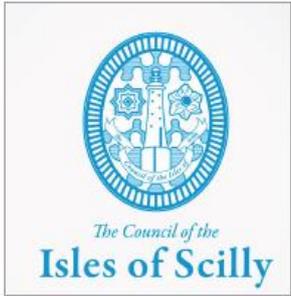


STRIDE TREGLOWN PROJECT MANAGEMENT



ATLANTIC OUTFALL & MINOR OUTFALL WORKS FOR THE COUNCIL OF THE ISLES OF SCILLY

PRE CONSTRUCTION INFORMATION

STRIDE TREGLOWN JOB NO.	12914
PREPARED BY	RMC
CHECKED BY	JW
DATE	25.07.16
FILE	12914_B20_160725_PCI DOCUMENT
REVISION NO.	B

Revisions

Revision	Description
Rev -	First Issue for tender

This Pre Construction Information has been prepared in accordance with Regulations 4 and 11(6) of the Construction (Design and Management) Regulations 2015 (CDM 2015).

This Information is intended to record the main Health & Safety issues identified by the Client, the Principal Designer and the Designers prior to construction and is to be addressed by the Principal Contractor (PC).

The Principal Contractor will prepare and develop a Construction Phase Plan as part of his duties under Regulation 12 and will take all reasonable steps to ensure the co-operation between all Contractors as detailed in Regulations 13 and 14.

Topics 1 to 5 of this document follow the guidance in Appendix 2 of CDM 2015.

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1. Description of project

1.1. Project description and programme details

Brief description of project

Brief description of project

Reconstruction of drainage outfall at Atlantic Hotel, Hugh Town, St. Mary's, Isles of Scilly:
 Breaking out of existing concrete encased and bedded outfall pipe; reconstruction of outfall, with new reinforced concrete bed, polypipe, reinforced concrete encasement and tidal flaps.
 Breaking out of existing manhole chamber; reconstruction of chamber with concrete bed, masonry walls and steel cover; channels and benching, stainless steel weir plate and screen.
 Installation of remote monitoring and alarm system, with chamber mounted sensors, wall mounted flashing beacon, pole mounted antenna, with receiver located in existing sewage pumping station.
 Outfall at Mermaid Inn: installation of tidal flap to end of existing outfall pipe.
 Outfall at Old Town Beach: breaking out of length of existing outfall pipe and concrete encasement; new length of outfall pipe and encasement, with new tidal flap.

Programme details

Planned start of construction: March/April 2016, date to be agreed

Duration: to be agreed with PC

Minimum time allowed between appointment of PC and commencement of work on site: 4 weeks

Notification to HSE (F10)

Dates

Initial	Revision 1	Revision 2	Revision 3	Revision 4
xxx	xxx	xxx	xxx	xxx

1.2. Details of Client, Designers, CDM-C, Principal Contractor and Others

Name of client

The Council of the Isles of Scilly

Address

Town Hall, ST. Mary's, Isles of Scilly, TR21 0LW

Project personnel	Company	Contact name		Phone/Fax/Mob
Client	The Council of the Isles of Scilly Town Hall St. Mary's Isles of Scilly, TR21 0LW	Helen Pearce hpearce@scilly.gov.uk	P	01720 424369
		Sean Parsons sparsons@scilly.gov.uk	M P M	
Project Manager	Stride Treglown Management	David Knight davidknight@stridetreglown.com	P F M	01752 202088 01752 202089 07768 474215
Principal Designer	Stride Treglown Management	Ray Cottrell raycottrell@stridetreglown.com	P F M	0117 9157357 0117 9745207 0779 973 2582

Project personnel	Company	Contact name		Phone/Fax/Mob
Designers				
Civil Engineer	James Lockyer Associates Ltd. 1 Oakland Mews Liskeard Business Park, Liskeard, Cornwall PL14 3UX	James Lockyer jwl@jameslockyer.co.uk	P F M	01579 344771 01579 344882
Principal Contractor (PC)	TBC		P F M	

1.3. Use as a workplace

The structure **will / will not** * be used as a workplace. Accordingly, the finished design **does / does-not** * need to take account of the relevant requirements of The Workplace (Health, Safety and Welfare) Regulations 1992.

1.4. Extent and location of existing records and plans

To include references of available drawings of structure(s) to be demolished or incorporated in the proposed structure(s) and also plans of the site and site environs.

Drawing references	See James Lockyer drawings 4606/CB/F/101 rev D, /CB/F/111 rev D, /CD/300 rev D/ /CD/301 rev E, /CD/302 rev F for the existing facility
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To include references of available record information on structure(s) to be demolished or incorporated in the proposed structure(s) and also all relevant survey / inspection / analysis reports. This may include specifications, construction details, performance criteria and other information that defines the existing structure(s). This information may also be part of a Health & Safety File previously prepared for the structure(s) and held by the client.

Information references	See James Lockyer Schedule of Work 4606-SW-Atlantic-Rev6
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2. Client's considerations and management requirements

2.1. Arrangements

To include arrangements for planning & managing construction works, the client's health & safety goals, communication and liaison arrangements, security of the site, welfare provision etc etc.

The works will take place within publicly accessible areas. The works are to be carried out in a single phase, whilst ensuring the safety of the public.
The health and safety of public are paramount and the Principal Contractor is not to permit any actions undertaken on the site to compromise same.
Site welfare facilities shall be provided in accordance with Schedule 2 of the Construction (Design and Management) Regulations, precise details and locations to be detailed in the Construction Phase H & S Plan. Use of existing facilities, if available, may be permitted, subject to proper use and cleaning being maintained. Contractors using these should be presentable and free of dust/debris head to toe.
Any LA highways restrictions are to be ascertained by the PC and complied with by users of the site.

2.2. Requirements

To include requirements relating to the health & safety of the client's employees, tenants, customers or those involved in the project, e.g. site hoarding, site transport or vehicle movement restrictions, client permit-to-work systems, fire precautions, emergency procedures, means of escape, 'no go' areas, security and authorisation requirements, designated confined spaces, smoking restrictions, parking restrictions etc etc.

All necessary sub-phasing of the construction works, including provision of temporary barriers, hoardings, fences and walkways, together with a detailed programme shall be agreed with the Client.
Working hours shall be 0800-1700 Monday to Friday, unless otherwise authorised by the Client or specifically agreed.
All necessary permits to work are to be obtained for works within the existing facility.
Vehicular access is available to a point adjacent to the Atlantic outfall construction site, the nearest access for deliveries and areas for offloading is the slipway off Hugh Street to the side and at the rear of the Atlantic Hotel. It should be noted that the slipway is steep. Access for works to the Mermaid Inn outfall is limited, since the outfall projects from the rear wall which overlooks the beach. Vehicular access for works to the Old Town beach outfall is available via Old Town Road or Old Town Lane, thence from the promenade overlooking the beach. Space for deliveries and site accommodation is limited; out of hours deliveries and materials handling may be required; to be agreed as part of the site set up strategy to be detailed in the Construction Phase H & S Plan.
Maintain unobstructed access to adjacent properties for ambulances and medical emergency teams at all times day & night.
Maintain access to adjacent properties for fire appliances at all times day & night.
Maintain unobstructed access to nearby residences and for delivery & collection vehicles to service areas of nearby facilities.
The Principal Contractor will be required within the Construction Phase Health and Safety Plan to establish emergency procedures which take into account the specific layout of the site and surrounding environment, to allow for emergency escape from the construction site to the surrounding area. Muster areas are to be identified within the Construction Phase Plan.
All Council procedures for contractors working within council premises are to be strictly adhered to and all necessary work permits obtained in sufficient time.
All necessary sub-phasing of the construction works, including provision of temporary barriers, hoardings, fences and walkways, together with a detailed programme shall be agreed with the Client.

3. Environmental restrictions and existing on-site risks

3.1. Safety Hazards

To include safety hazards including boundaries and access (including temporary access), narrow streets, lack of parking / turning / storage space, restrictions on deliveries / waste collection, adjacent land uses including transportation uses, existing storage of hazardous materials, location of existing services (especially concealed installations), ground conditions / underground structures / watercourse which may affect safe use of plant, existing structures including form / stability / fragile or hazardous materials, previous structural modifications, fire damage, ground shrinkage, movement, poor maintenance, difficulties relating to existing plant / equipment such as height restrictions, pre-stressed / post-tensioned structures etc etc. Provide details of all survey information relating to the above.

Hazard	Risk level	Who is affected?	Precautionary measures
Sites are within publicly accessible areas	High	Public Contractors	The PC to take appropriate precautionary measures to safeguard all adjacent users during the works, including adequate means of segregating the works from the public. PC to agree and detail safe access arrangements in CPHSP.
Atlantic outfall adjacent/partially within an active slipway	High	Contractors	See previous item. The PC is to liaise with users of the slipway and boat owners, to ensure all parties are aware of potential hazards and adequate precautions are taken.
Works undertaken within tidal zone	High	Contractors	Works to be timed and staged to avoid high tide periods. Pre-plan works, with tide times taken into consideration, including with respect to site guarding and protection.
Live services in working areas	High	Contractors	All live services to be traced and identified; existing buried or overhead services in the vicinity of the site to be protected (see also GE 700 E2).
Location of existing services	High	Contractors	The available details relating to the nature and location of existing services in and around the site provided by the Designers in the documentation & specification. If the Principal Contractor does encounter unexpected services, work must stop immediately and Client, relevant Designer & CDM-C must be contacted.

Information Generally
See information included with tender documents/drawings.

3.2. Health Hazards

To include health hazards including asbestos, existing storage of hazardous materials, contaminated land, existing structures containing hazardous materials, health risks arising from the client's activities etc etc. Provide details of all survey information relating to the above.

Hazard	Risk level	Who is affected?	Precautionary measures
Infection/biohazards contacted from live drainage environments (e.g. Weils disease/leptospirosis)	Med	Contractors	Operatives to be fully briefed on hazards, appropriate PPE to be worn and hygiene precautions to be undertaken. See HSE INDG48 (rev1).

Information Generally
See further information in the following; <ul style="list-style-type: none"> Health & Safety File held in the offices of Council of the Isles of Scilly

4. Significant design and construction hazards

4.1. Significant design assumptions and suggested work methods, sequences and other control measures

See Design Risk Assessment included in Appendix 2.

4.2. Arrangements for co-ordination of ongoing design work and handling design changes

Elements of the design process may continue into the construction phase. The Health & Safety information generated by the Designers is to be shown on the drawings as they are issued, having been discussed with the Principal Contractor as soon as the H&S issue is identified and, in all cases, prior to the formal issue of drawings 'For Construction'. The PC must take account of all such information in providing information for preparing or updating the Construction Phase Plan. The PC and Designers are to notify the PD immediately of all such developing H&S issues.

4.3. Information on significant risks identified during design

To include **significant risks** identified by designers which cannot be avoided or designed out and, where appropriate, a broad indication of the precautions assumed for dealing with them.

Hazard	Risk level	Who is affected?	Precautionary measures
Dust, vibration and noise affecting adjacent residents and users, particularly during demolition operations	High	Public Contractors	Dust dampening measures to undertaken when appropriate. Noise suppression equipment to be used where possible. See also GE700 E3 and F2.
Existing Atlantic outfall is badly deteriorated and located on a beach amongst moored vessels; risk of instability and collapse of excavations	Med	Public Contractors	Provide temporary support as necessary and adopt good working practice in accordance with current legislation.
Grubbing up existing Atlantic outfall; risk of unstable structure/falling objects/injury/damage	Med	Public Contractors	Works to be carried out carefully to minimise risk of damage/injury; <u>tender stage method statement to be submitted.</u>
Excavation through beach sands and sandy soils overlying granite rock – risk of instability and collapse of excavations.	Med	Public Contractors	Provide temporary support as necessary and adopt good working practice in accordance with current legislation.
Confined space access to manhole S1 for replacement of flap valve – asphyxiation and other hazards associated with CS working.	Med	Contractors	Confined space access requirements to be enacted as a precautionary measure.

Excavating and constructing new screening chamber around live sewer.	Med	Public Contractors	Maintain flow in existing sewers by temporary diversions, stoppers, over-pumping or other means Provide tender stage method statement to confirm proposals, including measures to address and prevent spillage/overflow onto foreshore, and compliances with EA Pollution Prevention Guidelines. Refer to SoW B10/110, B10/120 and B20/020.
Connections to existing services within existing SPS building – works within existing plant rooms and service ways in close proximity to live services and with restricted working space.	Med	Contractors	RAMS to be produced for constructing works within plant rooms. Permit to work system to be in operation.

4.4. Materials requiring particular precautions

To include health hazards arising from construction materials where particular precautions are required, either because of their nature or the manner of their intended use. These will have been identified by designers as hazards which cannot be avoided or designed out. Note that a COSHH data register for 'common' materials will be included in the Construction Phase Plan provided by the Principal Contractor.

Material Hazard	Risk level	Who is affected?	Precautionary measures
None identified beyond those expected for a project of this nature			

5. The Health & Safety File

The Health & Safety File will be prepared by the Principal Designer from information provided by the Client, the PC and the Designers, all in accordance with Appendix 4 of the CDM Regulations.

Prior to practical completion, information pursuant to that listed in the box below is to be provided to the PD to enable compilation of the Health & Safety File. The PD will advise on the deadline(s) for submission of information.

*The Health & Safety File is likely to be a constituent part of a suite of handover documentation which may also include a General Reference Manual, a Building Fabric Manual, a Building Services Manual, a Building Log-book (if required under the Building Regulations, Part L), a Building Users' Guide and any other information deemed necessary by the Client to be included. **Please note that the PD's statutory duties only extend to the Health & Safety File element of the handover documentation.***

The PD may issue full instructions for the information requirements of the Health & Safety File in a separate document - the Health & Safety File Planner. The PD can also provide advice and a 'model' format for a Building Manual if requested in a separate document – the Building Manual Planner.

HEALTH & SAFETY FILE REQUIREMENTS BASED UPON APPENDIX 4 OF THE CDM REG'S

- A. Brief description of the work carried out
- B. Any residual hazards and how they have been dealt with (for example surveys / information concerning asbestos, contaminated land, water-bearing strata, buried services etc)
- C. Key structural principles (for example sources of substantial stored energy, i.e. pre / post-tensioned structures) and safe working loads for floors and roofs etc.
- D. Hazardous materials used (for example lead paint, special coatings which must not be burnt off etc.)
- E. Information regarding the removal or dismantling of installed plant and equipment (for example special arrangements for lifting, sequences or special instructions for dismantling)
- F. Health & safety information about equipment provided for cleaning or maintaining the structure
- G. The nature, location and markings of significant services including, for example, underground cables, gas supply equipment, fire-fighting services etc.
- H. Information and 'As-built' drawings of the structure, its plant and equipment

6. Other Information

This section records any other Health & Safety information which the Client, Principal Designer or Designers deem relevant which is not defined or included elsewhere in this Pre-construction Information.

Designer Risk Assessment/Registers are included at Appendix 2. The PC is to take note of all risks identified therein, produce suitable RAMS and employ appropriate precautions.

Appendix 1 – F10 Notification

Although the project may not be notifiable under the 2015 CDM Regulations, an F10 is to be submitted to the HSE when the Principal Contractor has been appointed.

Appendix 2 – Design Risk Assessments

James Lockyer Associates – Designers Risk Assessment

Project: Annex to Buzza Reservoir contract:
Reconstruction of Atlantic Hotel Outfall and associated works
Job No. JLA/4606

Design Risk Assessment
STAGE: DETAILED DESIGN

DESIGNERS RISK ASSESSMENT

The designers risk assessment considers the significant hazards and risks that were identified during the design stage. Commonplace hazards which should be controlled by good management and good site practices have not been described.

Description of the Project				
Client	Council of the Isles of Scilly			
Project Manager	Stride Treglown			
CDM Coordinator	Stride Treglown			
Designer	James Lockyer Associates			
Location	St Mary's, Isles of Scilly			
Nature of works	Reconstruction of Atlantic Hotel Outfall and associated works			
Timescale	Stage	Programme Targets	Dates Achieved	Anticipated Period
Commencement of Construction		March 2015		-
Completion of Construction		June 2015		12 weeks
Design, Construction & Materials	Comment		Action	
Design Requirements and Objectives	Restore integrity of outfall and screening chamber Reinstate and improve other outfalls			
Form of Design	Schedule of reconstruction and repair works			
Existing Drawings & H&S File	Comment	Hazard	Risk	Action
Available drawings and records	Site inspections were completed to obtain details of the existing structures and services where available to allow preparation of working drawings, with limited information from record drawings.	Information may be inaccurately recorded	L	Check and trace position of services, insofar as practicable and necessary to complete the works. (SW B10/090)
H&S File	Not available			

The Existing Environment	Comment	Hazard	Risk	Action
Current and surrounding uses	The existing outfall is located on Town Beach adjacent to an active slipway, where the screening chamber is located Other outfalls are accessible from the beaches.	Interface with local residents	H	Ensure Contract Preliminaries (by Stride Treglown), include measures for Security, Safety & Protection. Cordon off construction area and prevent unauthorised access to site. Require tender stage method statement (SW B10/090 & B10/120)
Existing services	Existing buried services (drainage) are indicated to be located in the vicinity of the works to the CSO and screening chamber	Flooding Disruption to supply Injury/damage	M	Specify requirement to trace and locate existing services, and for protection of existing buried services in the vicinity of the site. (SW B20/020)
Existing structures	Existing outfall is badly deteriorated and located on a beach amongst moored vessels	Interface with local residents Instability and collapse of excavations	M	Identify requirement for temporary support to be provided and requirement for good working practice in accordance with current legislation. (SW B10/090 & B20/020)
Ground Conditions	Excavation through beach sands and sandy subsoils overlying granite bedrock	Instability and collapse of excavations	M	Identify requirement for temporary support to be provided and requirement for good working practice in accordance with current legislation. (SW B10/090, B10/110 & B20/040)

Significant Design & Construction Hazards Identified	Comment	Hazard	Risk	Action
General Items/Preliminaries	See Existing Environment & Site Wide Elements			
Demolition/Alteration/Renovation	Grubbing up existing outfall	Unstable structure Falling objects Injury/damage	M	Identify requirement for works to be carefully completed to minimise risk of damage and disturbance to existing structures, and to maintain existing services Require Tender Stage Method Statement to ensure Contractor takes hazards into account. (SW B10/120, B20/020 & B30/020)
Groundworks/External Works	Excavation in sandy subsoils adjacent to existing structures and services	Collapse of excavations Excavating through rock	M	Identify requirement for temporary support to be provided and requirement for good working practice in accordance with current legislation. (SW B10/090 & B20/040)
	Requirement for confined space access – limited to replacement of existing flap valve in manhole S1. Framework for confined space access identified as a precaution	Asphyxiation and other hazards associated with CS	M	Confined space access requirements specified as a precautionary measure (SW B10/100)
	Operatives to be briefed to guard against Leptospirosis (Weil’s disease) and wear suitable gloves and protective clothing	Disease	M	Identify requirement for Operative briefing and PPE (SW B10/080)
Erection/Construction of Structure	Staged construction in tidal zone will not facilitate guarding and protection of works	Personnel and property injury and damage	M	Identify requirement for guarding and protecting of works and for Tender Stage Method Statement to ensure Contractor takes hazards into account (SW B10/120)
	Reinforced concrete encasement to outfall	Personal injury	L	Protect projecting ends of ends of rebar (B20/040)

Site Wide Elements	Comment	Hazard	Risk	Action
Site access & egress	Movement of site traffic and local residents. See also Existing Environment above	Accident resulting from vehicular movement See also Existing Environment above	H	Ensure Contract Preliminaries (by Stride Treglown), identify need for access to be maintained to adjacent domestic properties, particularly for emergency vehicles. See also Existing Environment above
Site accommodation	No particular hazards perceived that cannot be overcome by good management and site practice. See also Existing Environment above	See Existing Environment above	L	See Existing Environment above
Layout & storage areas	No particular hazards perceived that cannot be overcome by good management and site practice. See also Existing Environment above	See Existing Environment above	M	See Existing Environment above
Traffic & pedestrian routes	Movement of site traffic and local residents. See also Existing Environment above	See Existing Environment above	M	Ensure Contract Preliminaries (by Stride Treglown), identify need for access to be maintained to adjacent domestic properties, particularly for emergency vehicles. See also Existing Environment above
Overlap with Client	Movement of site traffic and local residents. See also Existing Environment above	See Existing Environment above	M	Ensure Contract Preliminaries (by Stride Treglown), identify need for access to be maintained to adjacent domestic properties, particularly for emergency vehicles. See also Existing Environment above

Future Maintenance & Operation	Comment	Hazard	Risk	Action
Cleaning & Maintenance	Regular access will be required to screening chamber to clear away screenings	Restricted access and lifting cover Exposure to sewage	L M	Specification of bespoke cover and frame to facilitate access (SW B30/050) Screen will need checking following storm events and routinely. Clearance of screen should be simple matter of washing down with hosepipe from above Monitoring and alarm system specified to low and high level alerts of discharge (SW B30/060) Quick release screen specified to facilitate removal (SW B30/040)
	Infrequent access may be required to ensure new check valve is performing F4	Entry into confined space and exposure to sewage	L	Duckbill check valve should be less prone to blockage/seizure than the existing flap valve
Operation	As above	As above		As above
Future Alterations/Extensions	Requirement for accurate as-built information to record structural details and locations of buried services.	N/A	N/A	Ensure Contract Preliminaries (by Stride Treglown), identify need for contractor to provide as-built information if different from construction drawings.
Risk assessment prepared by		Reviewed and checked by		
J W LOCKYER		STEVE WALSH		
Date	January 2015	February 2015		

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