

**Archdeacon Duggan Bridge Rehabilitation
Works Contract**

Project: C948

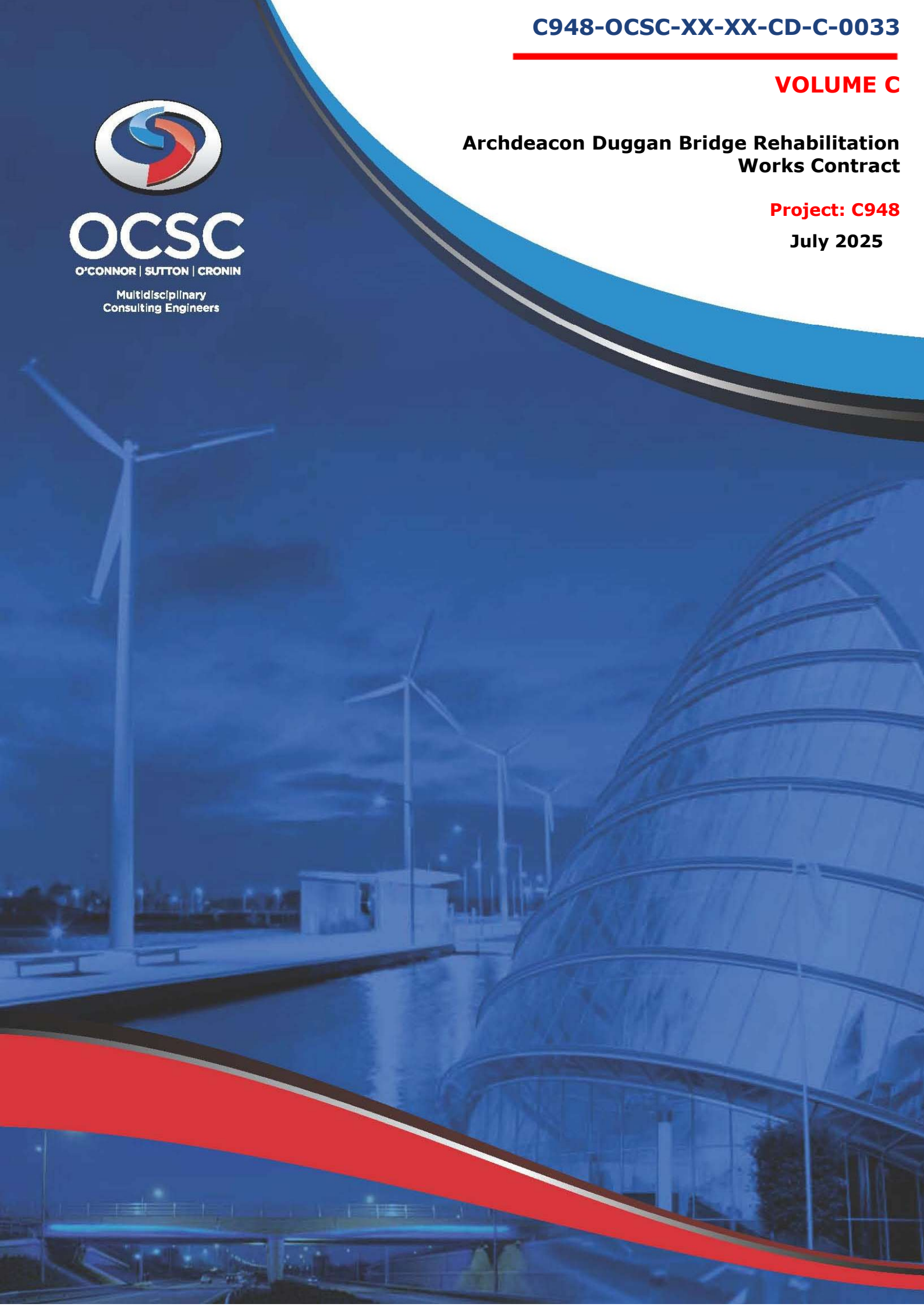
July 2025



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VOLUME C

**Archdeacon Duggan Bridge Rehabilitation
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DOCUMENT CONTROL & HISTORY

OCSC Job No.: C948	Project Code	Originator	Zone Volume	Level	File Type	Role Type	Number	Status / Suitability Code	Revision
	C948	OCSC	XX	XX	CD	C	0033	A2	C07
Rev.	Status	Authors		Checked		Authorised		Issue Date	
C07	A2	Joao Moraes		L.Hadfield		B. Heron		September 2026	
C06	A2	Joao Moraes		L.Hadfield		B. Heron		August 2026	
C05	A2	Joao Moraes		L.Hadfield		B. Heron		July 2026	
C04	A2	L. Ullas		L.Hadfield		B. Heron		June 2026	
C03	A2	H.Alfirs		B.Heron		B.O'Rourke		July 2025	
C02	A2	H.Alfirs		L.Hadfield		B.O'Rourke		February 2025	
C01	A1	G. Mullins		B. Heron		B. O'Rourke		August 2024	
P01	S0	G. Mullins		B. Heron		B. O'Rourke		July 2024	



CONTENTS



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SECTION 1 Preambles to the Method of Measurement

SECTION 2 Amendments to the Method of Measurement

SECTION 3 Pricing Document

SECTION 4

SECTION 5

SECTION 6

SECTION 7

SECTION 8

SECTION 9

SECTION 10

**Archdeacon Duggan Bridge
Rehabilitation Works Contract**

VOLUME C

Client: Cork County Council

Project: C948

September 2026



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Preambles to the Method of Measurement



Bonneagar Iompair Éireann
Transport Infrastructure Ireland

TII Publications



Introduction to the Requirements for Measuring and Pricing

CC-RMP-00010
April 2022

About TII

Transport Infrastructure Ireland (TII) is responsible for managing and improving the country's national road and light rail networks.

About TII Publications

TII maintains an online suite of technical publications, which is managed through the TII Publications website. The contents of TII Publications is clearly split into 'Standards' and 'Technical' documentation. All documentation for implementation on TII schemes is collectively referred to as TII Publications (Standards), and all other documentation within the system is collectively referred to as TII Publications (Technical).

Document Attributes

Each document within TII Publications has a range of attributes associated with it, which allows for efficient access and retrieval of the document from the website. These attributes are also contained on the inside cover of each current document, for reference.

TII Publication Title	<i>Introduction to the Requirements for Measuring and Pricing</i>
TII Publication Number	<i>CC-RMP-00010</i>

Activity	<i>Construction & Commissioning (CC)</i>		Document Set	<i>Standards</i>
Stream	<i>Requirements for Measuring and Pricing (RMP)</i>		Publication Date	<i>April 2022</i>
Document Number	<i>00010</i>		Historical Reference	-

TII Publications Website

This document is part of the TII publications system all of which is available free of charge at <http://www.tiipublications.ie>. For more information on the TII Publications system or to access further TII Publications documentation, please refer to the TII Publications website.

TII Authorisation and Contact Details

This document has been authorised by the Director of Professional Services, Transport Infrastructure Ireland. For any further guidance on the TII Publications system, please contact the following:

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TII Publications



Activity:	Construction & Commissioning (CC)
Stream:	Requirements for Measuring and Pricing (RMP)
TII Publication Title:	Introduction to the Requirements for Measuring and Pricing
TII Publication Number:	CC-RMP-00010
Publication Date:	April 2022
Set:	Standards

Contents

1.	Contents of the Requirements for Measuring and Pricing	1
2.	Definitions.....	8
3.	General Principles.....	9
4.	Preparation of Bill of Quantities.....	10
5.	References.....	25

Updates to TII Publications resulting in changes to
Introduction to the Introduction to the Requirements for Measuring and Pricing CC-RMP-
00010

Date: April 2022

Page No: 22

Section No: 2

Amendment Details:

Preambles to Bill of Quantities, General Directions, Section 2 - new sentence included in item (vii) that the provision of insurances and bonds are deemed to be general obligations.

Contents Table

1.	Contents of the Requirements for Measuring and Pricing	1
2.	Definitions.....	8
3.	General Principles.....	9
4.	Preparation of Bill of Quantities.....	10
5.	References.....	25

Preambles to Bill of Quantities

General Directions

- 1 The Requirements for Measuring and Pricing (RMP) in TII Publications (Standards) is published as a collective group of documents under the Construction and Commissioning activity within the TII Publications system. The Bill of Quantities has been prepared in accordance with the RMP.
- 2 In the Bill of Quantities the sub-headings and item descriptions identify the work covered by the respective items, read in conjunction with the matters listed against the relevant marginal headings “Item Coverage” in the different parts of the RMP, these Preambles and the amendments to the RMP immediately following these Preambles. The nature and extent of the work is to be ascertained by reference to the Works Requirements and Contract Conditions. The rates and prices entered in the Bill of Quantities shall be deemed to be the full inclusive value of the work covered by the several items including the following, unless expressly stated otherwise.
 - (i) Labour and costs in connection therewith.
 - (ii) The supply of materials, goods, storage and costs in connection therewith including delivery to Site. Taking delivery of materials and goods supplied by others, unloading, storage, and costs in connection therewith.
 - (iii) Plant and costs in connection therewith.
 - (iv) Fixing, erecting and installing or placing of materials and goods in position.
 - (v) Temporary Works.
 - (vi) The effect on the phasing of the Works or any element of the Works to the extent set forth or reasonably implied in the documents on which the tender is based.
 - (vii) General obligations, liabilities and risks involved in the execution of the Works set forth or reasonably implied in the documents on which the tender is based (The provision of insurances and bonds are deemed to be general obligations).
 - (viii) Establishment charges, overheads and profit.
 - (ix) Waste.
 - (x) Attendance and transport for sampling and testing carried out by the Employer’s Representative, tests carried out by the Contractor in accordance with the particular requirements of Appendix 1/5, supplying results of tests carried out by the Contractor and providing test certificates.
 - (xi) Supply and delivery of samples to the Employers Representative in accordance with the particular requirements of Appendix 1/6.
 - (xii) Complying with Quality Assurance schemes and providing certificates of conformity.
 - (xiii) Preparation and supply of detailed working drawings.
 - (xiv) Awaiting approvals and or consents;
 - (xv) Complying with all Legal Requirements and ensure that the Contractor’s Personnel comply with all Legal Requirements, including but not limited to those environmental, archaeological and health and safety requirements as set out in the Works Requirements and Contract Conditions.

Measurement	3	(i) The measurement of work shall be computed net from the dimensions stated in the Contract unless otherwise stated in the RMP. (ii) Where the tender documents provide for the Contractor to select the type of buried structure (where the structure is not within Designated Outlines) to be constructed then the measurement of all work in each area so affected shall be based upon the thinnest pavement construction and surfacing over structures permitted by the Contract in that area for the particular type of buried structure the Contractor has elected to construct.
Pricing of Items	4	(i) Each individual item shall have a rate or price entered against it. Rates and prices shall be expressed to two decimal places Reserved Sums and Contract Sums for Specialists will be provided by the Contracting Authority. Prices entered for attendances and management of specialist works will remain as tendered, even after the Reserved Sums are replaced with actual sums following tendering of the specialist works. These prices may not be less than zero.
Alternative Specified Materials, Designs and Options Within Types of Pavement	5	Not used
Privately and Publicly owned Services or Supplies	6	The information in the Contract as to the whereabouts of existing services and mains is believed to be correct but the Contractor shall not be relieved thereby of his obligations under the Contract. The Contractor shall include in his rates and prices for locating and taking measures for the support and full protection of pipes, cables and other apparatus during the progress of the Works, obtaining the written consent of the appropriate authority to interrupt the service or supply and for keeping the Employer's Representative informed of all arrangements he makes with the owners of privately owned services or supplies, Statutory Undertakers and Public Authorities as appropriate.
Labours	7	Not used
Roadworks Overall Requirements	8	The Contractor shall allow in his rates and prices for complying with requirements in respect of pavement construction, horizontal alignments, surface levels and surface regularity of pavement courses, cold weather working, use of surfaces by traffic and construction plant, and general requirements for sub-bases and bases.
Work within and below any water condition	9	The Contractor shall allow in his prices for any items of structures designed by the Contractor provided under CC-RMP-02500, for taking measures required to execute work in any condition where there is a presence of any type of water.
Dealing with Flow	10	The Contractor shall allow in his rates and prices for taking measures to deal with the existing flow of water, sewage and the like.
	11	Not used

Site Limitations and Constraints	12	The Contractor shall allow in his rates and prices for complying with any limitations and constraints on the use of the Site.
Hard Material	13	For the purposes of the Contract the following are designated as Hard Material in accordance with Section 2 Definitions, paragraph 1(h)(i) and (ii): (a)* strata; (b) those deposits designated by limits shown on the Drawings. (c) existing pavements, footways, paved areas (but excluding unbound materials) and foundations in masses in excess of 0.20 cubic metres.
Equivalent Products and Materials	14	(i) Where the Contractor offers an equivalent product or material in place of the one identified or specified, which is accepted for incorporation into the Works by the Employer's Representative, then the rates and prices in the Bill of Quantities shall be deemed to include for all the obligations and costs associated with the incorporation of the equivalent into the Works, including design, provision of data and drawings, certificates, awaiting approvals, resubmissions and modifications and amendments to the Works. (ii) Unless specifically stated to the contrary in the Contract the measurement of the Works affected by the incorporation of the equivalent products and materials shall be based on the Tender documents and not on the Works as amended and completed to incorporate the equivalent products and materials.
Permanent Works Designed by the Contractor	15	Where the Contract requires part(s) of the Works to be designed by the Contractor, the rates and prices in the Bill of Quantities shall include for all the obligations and costs associated with the incorporation of the Contractor's design into the Works, including design, provision of data and drawings, certificates, awaiting approvals, resubmissions and modifications and amendments to the Works.
Structures Designed by the Contractor	16	Earthworks within the Designated Outlines shall not be included by the Employer in the earthworks schedules.
Alterations for Road Authorities	17	Not Used
†Amendments to the Requirements for Measuring and Pricing	18	Amendments to the Requirements for Measuring and Pricing are not advisable and in any case are only acceptable under an Approved Departure from TII, as noted under Section 3 General Principles.

[Notes to compiler:

The Preambles to Bill of Quantities (duly completed) must be reproduced unaltered and bound in the Bill of Quantities.

*To be completed by compiler as appropriate.

† Where an Approved Departure has been obtained from TII to amend any part of the RMP in accordance with Section 3 General Principles of CC-RMP-00010 – Introduction to the Requirements for Measuring and Pricing this preamble should be the last numbered preamble and inserted immediately prior to the amendments.]



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**Archdeacon Duggan Bridge
Rehabilitation Works Contract**

VOLUME C

Client: Cork County Council

Project: C948

September 2026



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Amendments to the Method of Measurement

Bill of Quantities Additional and Substitute Items

Contents

Series	Items	Type
100	82 - 86 Temporary Access to Structures Designed by the Contractor	A
100	87 - 91 Temporary Works Structures	A
1700	40 - 43 Concrete repair for spalling concrete	A

Note: A = Additional Items S = Substitute Items

Series 100: Temporary Access to Structures Designed by the Contractor

Temporary Works Structures

- 82** Unless stated otherwise in the Contract these items shall be used when the Contract provides for Temporary Access to Structures to be designed by the Contractor. Notwithstanding the provisions for measurements of the Works set forth elsewhere all the Works shall be deemed to be measured and included within the single items in the Bill of Quantities priced by the Contractor.

Units

- 83** The unit of measurement shall be:
- (i) Provision and Erection of Temporary Works Structures item.
 - (ii) Maintenance of Temporary Works Structures weekly
 - (iii) Dismantling of Temporary Works Structures item.

Measurement

- 84** The measurement of Temporary works Structures shall be the complete construction within the Designated Outlines.

Itemisation

- 85** Separate items shall be provided for special structures in accordance with Section 3 of CC-RMP-00010, paragraphs 3 and 4 and the following:

Group		Feature
I	1	Provision & Erection
	2	Maintenance
	3	Dismantling
II	1	Temporary Access to Structures designed by the Contractor.
III	1	Until Completion of the Works

Temporary Works Structures designed by the Contractor

- 86** The items for special structures designed by the Contractor shall in accordance with the Preambles to Bill of Quantities General Direction include for:

Item Coverage

- a) design;
- b) provision of design calculations and details;
- c) certificates;
- d) provision of labour plant and equipment, including specialist equipment;
- e) preparation and submission of priced schedule of quantities where requested;
- f) provision of data, drawings and details of fabrication of temporary and permanent works;
- g) resubmission and modifications
- h) amendments to the Works
- i) everything necessary for the completion of the Works, as shown in the relevant item coverages in the Chapters and document of the Method of Measurement;
- j) obtaining licences and agreements;

- k) making arrangements with owners and occupiers of land temporarily required and costs arising therefrom;
- l) preparing, amending and submitting to the Employer's Representative and other interested bodies, proposals and programme;
- m) consulting with An Garda Síochána and other statutory authorities;
- n) design of temporary diversions;
- o) preparation of site;
- p) site clearance, fencing, safety fencing, concrete safety barriers, drainage, earthworks, pavements, kerbs, footways, traffic signs, road markings, road lighting, structures, parapets, ramps and accesses;
- q) temporary diversions of services;
- r) maintaining navigable channel in watercourse;
- s) scaffolding, crash deck, debris collection and disposal, access control, support systems, encapsulation and ventilation system;
- t) traffic signs, traffic signs provided by the Employer, road markings, lamps, barriers and traffic control signals including maintaining, cleaning, repositioning, covering, uncovering and removing;
- u) complying with the requirements for labour and plant working on or adjacent to a road, river, and at entry and exit points to the Site including signing;
- v) road lighting, modification and removal;
- w) giving of notice to the Employer's Representative;
- x) water, sanitation, heating, power and lighting services;
- y) maintenance;
- z) replacing items damaged during the foregoing operations;
- aa) Dismantling and removal.

Series 100: Temporary Works Structures

Temporary Works Structures

- 87** Unless stated otherwise in the Contract these items shall be used when the Contract provides for Temporary Works Structures to be designed by the Contractor.
Notwithstanding the provisions for measurements of the Works set forth elsewhere all the Works (with the exception of those works scheduled as not to be included) within the Designated Outlines shall be deemed to be measured and included within the single items in the Bill of Quantities priced by the Contractor.
The measurement of the remainder of the Works shall exclude all Works contained within the Designated Outlines except for those works scheduled as stated above.

Units

- 88** The unit of measurement shall be:
- (iv) Erection and dismantling of Temporary Works Structures item.
 - (v) Maintenance of Temporary Works Structures weekly

Measurement

- 89** The measurement of Temporary works Structures shall be the complete construction within the Designated Outlines.

Itemisation

- 90** Separate items shall be provided for special structures in accordance with Section 3 of CC-RMP-00010, paragraphs 3 and 4 and the following:

Group		Feature
I	1	Erection
	2	Maintenance
	3	Dismantling
II	1	Temporary Works Structures designed by the Contractor.
III	1	Until Completion of the Works

Temporary Works Structures designed by the Contractor

- 91** The items for special structures designed by the Contractor shall in accordance with the Preambles to Bill of Quantities General Direction include for:

Item Coverage

- bb) design;
- cc) provision of design calculations and details;
- dd) certificates;
- ee) preparation and submission of priced schedule of quantities;
- ff) provision of data, drawings and details of fabrication;
- gg) resubmission and modifications
- hh) amendments to the Works
- ii) obtaining aesthetic approval;
 - i. everything necessary for the completion of the Works within the Designated Outlines, as shown in the relevant item coverages in the Chapters and

- document of the Method of Measurement, with the exception of those works scheduled as not to be included
- ii. completing a Technical Acceptance Report and submitting to the TII for acceptance.
 - jj) obtaining licences and agreements;
 - kk) making arrangements with owners and occupiers of land temporarily required and costs arising therefrom;
 - ll) preparing, amending and submitting to the Employer's Representative and other interested bodies, proposals and programme;
 - mm) consulting with An Garda Síochána and other authorities;
 - nn) design of temporary diversions;
 - oo) preparation of site;
 - pp) site clearance, fencing, safety fencing, concrete safety barriers, drainage, earthworks, pavements, kerbs, footways, traffic signs, road markings, road lighting, structures, parapets, ramps and accesses;
 - qq) temporary diversions of services;
 - rr) maintaining navigable channel in watercourse;
 - ss) scaffolding, crash deck, debris collection and disposal, access control, support systems, encapsulation and ventilation system;
 - tt) traffic signs, traffic signs provided by the Employer, road markings, lamps, barriers and traffic control signals including maintaining, cleaning, repositioning, covering, uncovering and removing;
 - uu) complying with the requirements for labour and plant working on or adjacent to a road, river, and at entry and exit points to the Site including signing;
 - vv) road lighting, modification and removal;
 - ww) giving of notice to the Employer's Representative;
 - xx) water, sanitation, heating, power and lighting services;
 - yy) maintenance;
 - zz) replacing items damaged during the foregoing operations;
 - aaa) Dismantling and removal.

Series 1700: Structural concrete

Concrete repair for spalling concrete

Units	40	The units of measurement shall be: (i) Concrete repair for spalling concretenumber.												
Measurement	41	The measurement of Concrete repair for spalling concrete shall be the number of individual surface areas to be repaired to the required depth.												
Itemisation	42	Separate items shall be provided for Concrete repair for spalling concrete in accordance with Section 3 of CC-RMP-00010 paragraphs 3 and 4 and the following: <table><tr><td>Group</td><td>Feature</td></tr><tr><td>I</td><td>1 Concrete repair for spalling concrete</td></tr><tr><td>II</td><td>1 Size of repair not exceeding 0.5 sq.m</td></tr><tr><td></td><td>2 Size of repair exceeding 0.5 sq.m but not exceeding 1.0 sq.m</td></tr><tr><td></td><td>3 Size of repair exceeding 1.0 sq.m but not exceeding 2.0 sq.m</td></tr><tr><td></td><td>4 Size of repair exceeding 2 sq.m</td></tr></table>	Group	Feature	I	1 Concrete repair for spalling concrete	II	1 Size of repair not exceeding 0.5 sq.m		2 Size of repair exceeding 0.5 sq.m but not exceeding 1.0 sq.m		3 Size of repair exceeding 1.0 sq.m but not exceeding 2.0 sq.m		4 Size of repair exceeding 2 sq.m
Group	Feature													
I	1 Concrete repair for spalling concrete													
II	1 Size of repair not exceeding 0.5 sq.m													
	2 Size of repair exceeding 0.5 sq.m but not exceeding 1.0 sq.m													
	3 Size of repair exceeding 1.0 sq.m but not exceeding 2.0 sq.m													
	4 Size of repair exceeding 2 sq.m													
Concrete repair for spalling concrete	43	The items for Concrete repair for spalling concrete shall in accordance with the Preambles to Bill of Quantities General Directions include for:												
Item Coverage		a) all labour, plant, materials, and equipment to include specialist equipment; b) access arranged including temporary access; c) temporary works; d) protection of works to include encapsulation; e) determination of the area or length of the repair and agreement with the Employer's Representative etc f) determination of the area or length of the repair and agreement with the Employer's Representative; g) removal of unsound concrete and cutting back reinforcement within the repair area; h) treatment to exposed steel; i) steel anchoring; j) installation of high-performance repair mortar; k) treatment of repair area and surrounds; l) wetting and removal of excess water; m) finishing repair material flush with the level of the surrounding concrete surface and brushing and applying surface texture to match existing; n) curing and protection; o) complying with temperature constraints;												

**Archdeacon Duggan Bridge
Rehabilitation Works Contract**

VOLUME C

Client: Cork County Council

Project: C948

September 2026



O'CONNOR SUTTON CRONIN
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Pricing Document

Part 1 - Preliminaries

Ref	Description	Qty	Unit	Rate	Amount
	<u>Series 100 Preliminaries</u>				
	<u>Temporary Accommodation</u>				
A	Erection of principal offices for the Employers Representative until completion of works	1.00	item		
B	Erection of stores and workshops for the Contractor	1.00	item		
C	Erection of offices and messes for the Contractor	1.00	item		
D	Servicing of principal offices for the Employers Representative until completion of works	1.00	item		
E	Servicing of stores and workshops for the Contractor	1.00	item		
F	Servicing of offices and messes for the Contractor	1.00	item		
G	Dismantling of principal offices for the Employers Representative at completion of works	1.00	item		
H	Dismantling of stores and workshops for the contractor	1.00	item		
I	Dismantling of offices and messes for the Contractor	1.00	item		
	<u>Operatives for the Employer's Representative</u>				
J	Operatives for the Employer's Representative	20.00	day		
	<u>Information Board</u>				
K	Information Board, VMS, size 2600mm x 1600mm, battery powered, 5G connection	3.00	nr		
L	Information Board, Site Health and Safety, size 2400mm x 1200mm	3.00	nr		
	<u>Traffic Safety and Management</u>				
M	Traffic safety and management	1.00	item		
N	Taking measures for or construction, maintenance, removal of contraflow arrangements	1.00	item		
O	Removing from store and installing temporary vertical safety barriers in accordance with Appendix 1/17	1.00	item		
P	Taking up or down and removing from site temporary vertical safety barriers in accordance with Appendix 1/17	1.00	item		
	<u>Recovery Vehicles</u>				
Q	Provision of tilt and lift recovery vehicle	1.00	item		
	<u>Progress Photographs</u>				
R	Set of progress photographs taken weekly for the duration of the works to be provided in both digital and hard copy.	24.00	nr		
C948	Page: 1 / 1			To Collection	0.00

Part 1 - Preliminaries

Ref	Description	Qty	Unit	Rate	Amount
	<u>Progress Photographs (Cont'd)</u>				
A	Additional aerial progress photographs taken weekly for the duration of the works to be provided in both digital and hard copy	24.00	nr		
	<u>Road Sweeping and Cleaning</u>				
B	Road sweeping and cleaning, to provided for the duration of the works until Substantial Completion	1.00	item		
	<u>Emergency Services</u>				
C	Provide for Emergency Services	1.00	item		
	<u>Facilities for Local Authority, Public or Private Utility Undertakers and Other Contractors</u>				
D	Facilities for Local Authority, Public or Private Utility Undertakers and other Contractor, Cork County Council	1.00	item		
E	Facilities for Local Authority, Public or Private Utility Undertakers and other Contractor, ESB	1.00	item		
F	Facilities for Local Authority, Public or Private Utility Undertakers and other Contractor, Network Gas	1.00	item		
G	Facilities for Local Authority, Public or Private Utility Undertakers and other Contractor, Irish Water	1.00	item		
H	Facilities for Local Authority, Public or Private Utility Undertakers and other Contractor, Eir	1.00	item		
I	Facilities for Local Authority, Public or Private Utility Undertakers and other Contractor, Virgin Media	1.00	item		
J	Facilities for all other Local Authority, Public or Private Utility Undertakers and other Contractors not listed	1.00	item		
	<u>Project Supervisor for the Construction Stage</u>				
K	Acceptance of the appointment as Project Supervisor for the Construction Stage	1.00	item		
	<u>Safety File</u>				
L	Safety File	1.00	item		
	<u>As Built Records</u>				
M	As Built Records	1.00	item		
C948	Page: 1 / 2 To Collection				0.00

Part 1 - Preliminaries

	Description	Amount
	Series 100 Preliminaries	0.00
C948	Page: 1 / 3To Summary	0.00

Part 2 - Main Carriageway - Deck Repair

Ref	Description	Qty	Unit	Rate	Amount
A	<u>Series 200 Site Clearance</u>	0.70	ha		
	<u>Site Clearance</u>				
	General site clearance				
C948					0.00

Part 2 - Main Carriageway - Deck Repair

Ref	Description	Qty	Unit	Rate	Amount
	<u>Series 500 Drainage and Service Ducts</u>				
	<u>Drains, Sewers, Piped Culverts and Service Ducts</u> <u>(Excluding Filter Drains, Narrow Filter Drains & Fin Drains)</u>				
A	1 X 50mm internal diameter service duct in footway (Public Lighting) in non-trafficked area depth to invert exceeding 1 metre not exceeding 2 metres, average depth to invert 300mm in polythene wrap, in accordance with drawing C948-OCSC-04-DR-C-0104	740.00	m		
B	1 X 100mm internal diameter spare duct in footway in non-trafficked area depth to invert exceeding 1 metre not exceeding 2 metres, average depth to invert 300mm in polythene wrap, in accordance with drawing C948-OCSC-04-DR-C-0104	740.00	m		
	<u>Connections</u>				
C	Connection, Gully 100mm borehole through deck 500mm depth	20.00	nr		
	<u>Chambers and Gullies</u>				
D	Gullies, ductile iron side inlet gully, 500mm x 500mm, depth to invert exceeding 1 meters not exceeding 2 metres, D400 cover and frame	20.00	nr		
E	JB4 chamber, cover and frame (Eircom) , depths to invert exceeding 1 metre not exceeding 2 metrew, box-out detail in accordance with drawing C948-OCSC-04-XX-DR-C-0107	1.00	nr		
F	JB4 chamber, cover and frame (Spare Duct) , depths to invert exceeding 1 metre not exceeding 2 metrew, box-out detail in accordance with drawing C948-OCSC-04-XX-DR-C-0107	5.00	nr		
C948	Page: 2 / 2 To Collection				0.00

Part 2 - Main Carriageway - Deck Repair

Ref	Description	Qty	Unit	Rate	Amount
	<u>Series 600 Earthworks</u>				
	<u>Excavation</u>				
A	Excavation of non-compliant material in cutting and other excavations 0 metres to 3 metres in depth. non-compliant material is classified as Category C (Soils suitable for disposal to a Non Hazardous Licenced Landfill) in accordance with Waste Acceptance Criteria (WAC) set out in Directive 1999/31/EC (The Landfill Directive) and the Council Decision of 19 December 2002, or such legislation as is current at award of Contract.	385.00	m3		
	<u>Excavation in Hard Material</u>				
B	Extra over excavation for excavation in hard material in cutting and other excavation	810.00	m3		
	<u>Disposal of Material</u>				
C	Disposal of non-compliant material	385.00	m3		
	<u>Disused Sewers, Drains, Cables, Ducts, Pipelines and the Like Occurring at Formation or Sub-formation Level; Disused Basements, Cellars and the Like and Gullies</u>				
D	Removal of disused gullies in accordance with drawing C948-OCSC-04-XX-DR-C-0102	20.00	nr		
E	Backfilling disused gullies with ST3 mix	20.00	m3		
C948	Page: 2 / 3 To Collection				0.00

Part 2 - Main Carriageway - Deck Repair

Ref	Description	Qty	Unit	Rate	Amount
	<u>Series 700 Pavements</u>				
	<u>Pavement</u>				
A	Pavement, Base Course, AC32 DENSE BIN 40/60 DES TO IS EN 13108-1 DENSE (Full Road Build Up) 50mm-165mm varied thickness in carriageway in accordance with Work Requirements TII-CC-SPW-00900 CL 3.1.1 and drawing C948-OCSC-XX-DR-C-0107	2,500.00	m2		
B	Pavement, Binder Course, AC20 DENSE BIN 40/60 DES TO IS EN 13108-1 (Full Road Build Up) 60mm thick in carriageway accordance with Works Requirements TII-CC-SPW-00900 CL 3.1.4 and drawing C948-OCSC-XX-DR-C-0107	2,500.00	m2		
C	Pavement, Surface course, SMA 14 SURF PMB 65/105-60 DES (Full Road Build Up) 40mm in carriageway in accordance with Works Requirements TII-CC-SPW-00900 CL 5.1.3 and drawing C948-OCSC-XX-DR-C-0107	2,500.00	m2		
D	Pavement, Protective layer (Full Road Build Up) 20mm sand asphalt in road build up in accordance with IS EN 13108-4 and drawing C948-OCSC-XX-DR-C-0107	2,500.00	m2		
E	Pavement, Surface Course, SMA 14 SURF PMB 65/105-60 DES (Full Road Build Up) 40mm in carriageway in accordance with Works Requirements TII-CC-SPW-00900 CL 5.1.3 and drawing C948-OCSC-XX-DR-C-0107	550.00	m2		
	<u>Regulating Course</u>				
F	Regulating Course, AC20 DENSE BIN 40/60 DES TO IS EN 13108-1 binder course (Road Inlay) 25mm-40mm varied thickness in road inlay in accordance with drawing C948-OCSC-XX-DR-C-01007	45.00	t		
	<u>Surface Treatment</u>				
G	High friction surfacing, Type 1 certified BBA/HAPAS rapid cure based on Methyl Methacrylate to proposed concrete footway in accordance with drawing C948-OCSC-04-XX-DR-C-0104	1,200.00	m2		
	<u>Bond Coat</u>				
H	Bond Coat (Full Road Build Up) in accordance with Works Requirements CC-SPW-00900 CL 10.1.4 and drawing C948-OCSC-XX-DR-C-01007	7,500.00	m2		
I	Bond Coat (Road Inlay) in accordance with Works Requirements CC-SPW-00900 CL 10.1.4 and drawing C948-OCSC-XX-DR-C-01007	550.00	m2		
	<u>Cold Milling</u>				
J	Cold milling (Planing) of existing carriageway surface to a depth exceeding 170mm but not exceeding 285mm	2,500.00	m2		
K	Cold milling (Planing) of existing pavement for proposed road inlay to a depth not exceeding 300mm	550.00	m2		
C948	Page: 2 / 4			To Collection	0.00

Part 2 - Main Carriageway - Deck Repair

Ref	Description	Qty	Unit	Rate	Amount
	<u>Series 1100 Kerbs, Footways and Paved Areas</u>				
	<u>Kerbs, Channels, Edgings, Combined Drainage and Kerb Blocks and Linear Drainage Channel Systems</u>				
A	Insitu Concrete Kerb 125mm upstands laid straight or curved exceeding 12 meters radius in accordance with drawing C948-OCSC-04-XX-DR-C-0104	750.00	m		
B	Insitu Concrete Kerb 125mm upstands curved not exceeding 12 meters radius in accordance with drawing C948-OCSC-04-XX-DR-C-0104	25.00	m		
	<u>Additional Concrete for Kerbs, Channels, Edgings, Combined Drainage and Kerb Blocks and Linear Drainage Channel Systems</u>				
C	Additional concrete for kerbs, channels, edging, combined drainage and kerb C948-OCSC-04-XX-DR-C-0104	45.00	m3		
	<u>Footways and Paved Areas</u>				
D	Rubbing Strip as Concrete Footway, 350mm thick C40/50 concrete exposure class XF4 to Clause 1106 with one layer A393 mesh, on one layer 1000 gauge polyethylene membrane to act as separation layer between waterproofing and concrete, brushed surface finish as specified in Clause 1106. Surface sloping at 10 degrees or less to the horizontal.	1,200.00	m2		
C948	Page: 2 / 5 To Collection				0.00

Part 2 - Main Carriageway - Deck Repair

Ref	Description	Qty	Unit	Rate	Amount
	<u>Series 1200 Traffic Signs and Road Markings</u>				
	<u>Road Markings</u>				
A	Continuous centre line marking 100mm in white thermoplastic screed and applied solid glass beads 100mm as per RRM 001 of Traffic Signs Manual	160.00	m		
B	Intermittent centre line marking 100mm in white thermoplastic screed and applied solid glass beads 100mm, 2600mm line length with 900mm spacing between lines as per RRM 002A of Traffic Signs Manual	200.00	m		
C	Continuous centre line marking 100mm in white thermoplastic screed and applied solid glass beads 100mm as per RRM 021 of Traffic Signs Manual	90.00	m		
D	Symbols in white thermoplastic screed with applied solid beads "R600" wording as per M 105 of Traffic Signs Manual	1.00	nr		
E	Symbols in white thermoplastic screed with applied solid beads "Direction Arrow - Right" as per RRM 006 of Traffic Signs Manual	1.00	nr		
F	Symbols in white thermoplastic screed with applied solid beads "SLOW" wording as per M 106 of Traffic Signs Manual	16.00	nr		
C948	Page: 2 / 6 To Collection				0.00

Part 2 - Main Carriageway - Deck Repair

Ref	Description	Qty	Unit	Rate	Amount
	<u>Series 2300 Bridge Expansion Joints and Sealing of Gaps</u>				
	<u>Bridge Deck Expansion Joints</u>				
A	Expansion joint to be replaced with type 6 joint or similar approved, total installation length exceeding 10m but not exceeding 11m, with 600mm x 10mm non-slip aluminium cover plate on rubbing strip, in accordance with detail, section A-A and section B-B on drawing C948-OCSC-04-DR-C-0104	6.00	nr		
B	Saw cut joint to be replaced with buried joint filler, total installation length exceeding 10m but not exceeding 11m with 250mm x 5mm galvanised steel plate, in accordance with detail on drawing C948-OCSC-04-XX-DR-C-0107	55.00	m		
C	Joint sealer to proposed joint filler comprising bitumen seal 30mm x 10mm in accordance with drawing C948-OCSC-04-XX-DR-C-0107	55.00	m		
D	Polysulphide seal to be replaced in parapet edge beam, 20mm in width in accordance with drawing C948-OCSC-04-XX-DR-C-0104	42.00	m		
C948	Page: 2 / 7 To Collection				0.00

Part 2 - Main Carriageway - Deck Repair

	Description	Amount
	Series 200 Site Clearance	0.00
	Series 500 Drainage and Service Ducts	0.00
	Series 600 Earthworks	0.00
	Series 700 Pavements	0.00
	Series 1100 Kerbs, Footways and Paved Areas	0.00
	Series 1200 Traffic Signs and Road Markings	0.00
	Series 2300 Bridge Expansion Joints and Sealing of Gaps	0.00
C948	Page: 2 / 8 To Summary	0.00

Part 3 - Structures - Concrete Repairs

Ref	Description	Qty	Unit	Rate	Amount
	<u>Series 100 Special Preliminaries</u>				
	<u>Temporary Access</u>				
A	Provision and Erection of Temporary Works Structures designed by the Contractor until completion of the works	1.00	item		
B	Maintenance of Temporary Works Structures designed by the Contractor	1.00	item		
C	Dismantling of Temporary Works Structures designed by the Contractor on completion of the works	1.00	item		
	<u>Temporary Works Structures</u>				
D	The Contractor is to allow for all measures required to maintain the safety of all people engaged in the Works, and of the public throughout the contract. The encapsulation system must protect and prevent all debris and materials from falling into the river and onto adjoining lands. Full details of protective measures to address the escape of debris from the works area are to be submitted to the Employers Representative for Acceptance.	1.00	item		
E	The Contractor shall as part of the Works Requirements provide for Service Providers, their workmen, contractors, sub-contractors and agent's access to the Site for the purposes of installation, inspection, maintenance, repair, upgrading and renewal as the case may be of the Cabling and/or the Utilities.	1.00	item		
F	The Contractor shall as part of the Works Requirements provide for excavations to ascertain the locations of underground services including excavations by hand and provision of working space	1.00	item		
G	The Contractor shall as part of the Works Requirements provide for support and protection of ducts, pipes, cables and other apparatus during the progress of the Works	1.00	item		
H	The Contractor shall as part of the Works Requirements provide for taking measures to ensure that no existing services are interrupted without the written consent of the Local Authority, Public or Private Utility Undertakers, Service Provider, or Private Owners.	1.00	item		
I	The Contractor shall as part of the Works Requirements provide for keeping the Employers Representatives informed of arrangements made with the owners of public and privately owned services	1.00	item		
C948		Page: 3 / 1		To Collection	0.00

Part 3 - Structures - Concrete Repairs

Ref	Description	Qty	Unit	Rate	Amount
	<u>Series 1700 Structural Concrete</u>				
	<u>Steel Reinforcement for Structures</u>				
A	High Tensile B500 Grade dowels 250mm length nominal size 16mm and under in accordance with drawing C948-OCSC-04-XX-DR-C-0106	52.00	nr		
	<u>Concrete Repair - Horizontal</u>				
B	Concrete repair for spalling concrete, size of repair not exceeding 0.5m2 in accordance with drawings C948-OCSC-04-XX-DR-C-0105-0106	3.00	nr		
C	Concrete repair for spalling concrete, size of repair exceeding 0.5m2 but not exceeding 1m2 in accordance with drawings C948-OCSC-04-XX-DR-C-0105-0106	1.00	nr		
D	Concrete repair for spalling concrete, size of repair exceeding 1m2 but not exceeding 2m2 in accordance with drawings C948-OCSC-04-XX-DR-C-0105-0106	2.00	nr		
E	Concrete repair for spalling concrete, size of repair exceeding 2m2 in accordance with drawings C948-OCSC-04-XX-DR-C-0105-0106	3.00	nr		
	<u>Concrete Repair - Vertical</u>				
F	Concrete repair for spalling concrete, size of repair exceeding 0.5m2 but not exceeding 1m2 in accordance with drawings C948-OCSC-04-XX-DR-C-0105-0106	1.00	nr		
G	Concrete repair for spalling concrete, size of repair exceeding 1m2 but not exceeding 2m2 in accordance with drawings C948-OCSC-04-XX-DR-C-0105-0106	1.00	nr		
H	Concrete repair for spalling concrete, size of repair exceeding 2m2 in accordance with drawings C948-OCSC-04-XX-DR-C-0105-0106	1.00	nr		
C948	Page: 3 / 2 To Collection				0.00

Part 3 - Structures - Concrete Repairs

	Description	Amount
	Series 100 Special Preliminaries	0.00
	Series 1700 Structural Concrete	0.00
C948	Page: 3 / 3To Summary	0.00

Part 4 - Structures Designed by the Contractor

Ref	Description	Qty	Unit	Rate	Amount
	<u>Series 2000 Waterproofing for Structures</u>				
	<u>Waterproofing to Footpath</u>				
A	Spray applied waterproofing to give a minimum dry film thickness of 2mm in accordance with manufacturers specification, more than 300mm wide horizontal or at any inclination up to and including 30° to the horizontal	700.00	m2		
B	Spray applied waterproofing to give a minimum dry film thickness of 2mm in accordance with manufacturers specification, more than 300mm wide at any inclination more than 30° up to and including 90° to the horizontal	262.50	m2		
C	Waterproofing membrane primer in accordance with manufacturers specification, more than 300mm wide horizontal or at any inclination up to and including 30° to the horizontal	700.00	m2		
D	Waterproofing membrane primer in accordance with manufacturers specification, more than 300mm wide at any inclination more than 30° up to and including 90° to the horizontal	262.50	m2		
	<u>Waterproofing to Carriageway</u>				
E	Spray applied waterproofing to give a minimum dry film thickness of 2mm in accordance with manufacturers specification, more than 300mm wide horizontal or at any inclination up to and including 30° to the horizontal	2,800.00	m2		
F	Spray applied waterproofing to give a minimum dry film thickness of 2mm in accordance with manufacturers specification, more than 300mm wide at any inclination more than 30° up to and including 90° to the horizontal	112.50	m2		
G	Waterproofing membrane primer in accordance with manufacturers specification, more than 300mm wide horizontal or at any inclination up to and including 30° to the horizontal	2,800.00	m2		
H	Waterproofing membrane primer in accordance with manufacturers specification, more than 300mm wide at any inclination more than 30° up to and including 90° to the horizontal	112.50	m2		
	<u>Waterproofing to Services</u>				
I	Waterproofing of piped services 50mm in diameter, in any inclination, circular	700.00	m2		
J	Waterproofing of piped services 100mm in diameter, in any inclination, circular	480.00	m2		
	<u>Removal of Existing Waterproofing</u>				
K	Removal of existing waterproofing More than 300mm wide horizontal or at any inclination up to and including 30° to the horizontal	3,050.00	m2		
L	Removal of existing waterproofing More than 300mm wide at any inclination more than 30° up to and including 90° to the horizontal	300.00	m2		
C948	Page: 4 / 1			To Collection	0.00

Ref	Description	Qty	Unit	Rate	Amount

Part 4 - Structures Designed by the Contractor

Ref	Description	Qty	Unit	Rate	Amount
	<u>Series 2500 Special Structures</u>				
	<u>Waterproofing to Footpath</u>				
A	Special structures designed by the contractor, waterproofing to footpath	1.00	item		
	<u>Waterproofing to Carriageway</u>				
B	Special structures designed by the contractor, waterproofing to carriageway	1.00	item		
	<u>Waterproofing to Services</u>				
C	Special structures designed by the contractor, waterproofing to services	1.00	item		
	<u>Removal of Existing Waterproofing</u>				
D	Special structures designed by the contractor, removal of existing waterproofing	1.00	item		
C948	Page: 4 / 3 To Collection				0.00

Part 4 - Structures Designed by the Contractor

	Description	Amount
	Series 2000 Waterproofing for Structures	0.00
	Series 2500 Special Structures	0.00
C948	Page: 4 / 4To Summary	0.00

Bill	Description	Amount
1	Part 1 - Preliminaries	0.00
2	Part 2 - Main Carriageway - Deck Repair	0.00
3	Part 3 - Structures - Concrete Repairs	0.00
4	Part 4 - Structures Designed by the Contractor	0.00
C948	Page: S/1	0.00



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