



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

**Bid Receiving Public Works and Government
Services Canada/Réception des soumissions
Travaux publics et Services gouvernementaux
Canada**

800 Burrard Street, Room 219

800, rue Burrard, pièce 219

Vancouver

British Columbia

V6Z 0B9

Bid Fax: (604) 775-9381

INVITATION TO TENDER

APPEL D'OFFRES

**Tender To: Public Works and Government Services
Canada**

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.

**Soumission aux: Travaux Publics et Services
Gouvernementaux Canada**

Nous offrons par la présente de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens, services et construction énumérés ici et sur toute feuille ci-annexée, au(x) prix indiqué(s).

Comments - Commentaires

Vendor/Firm Name and Address

**Raison sociale et adresse du
fournisseur/de l'entrepreneur**

Issuing Office - Bureau de distribution

Public Works and Government Services Canada -
Pacific Region

800 Burrard Street, Room 219

800, rue Burrard, pièce 219

Vancouver

British C

V6Z 0B9

Title - Sujet Heavy Civil Equipment Constr. SVC	
Solicitation No. - N° de l'invitation F1571-155067/A	Date 2015-11-26
Client Reference No. - N° de référence du client F1571-155067	GETS Ref. No. - N° de réf. de SEAG PW-\$PWY-004-7670
File No. - N° de dossier PWY-5-38299 (004)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2015-12-17	
Time Zone Fuseau horaire Pacific Standard Time PST	
F.O.B. - F.A.B.	
Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Mestry, Ruth (PWY)	Buyer Id - Id de l'acheteur pwy004
Telephone No. - N° de téléphone (604) 775-9385 ()	FAX No. - N° de FAX (604) 775-6633
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DFO - Steveston Small Craft Harbour - Richmond, BC	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée See Herein	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

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INVITATION TO TENDER

Standard ITT

IMPORTANT NOTICE TO BIDDERS

LIMITATION OF LIABILITY

PWGSC is limiting the Contractor's first party liability for work in Low Rise, High Rise and Heritage Buildings. See changes to GC1.6 "Indemnification by the Contractor" of R2810D in the Supplementary Conditions.

SUPPORT THE USE OF APPRENTICES

Through Canada's Economic Action Plan 2013, the Government of Canada proposes to support the employment of apprentices in federal construction and maintenance projects. Refer to SI10.

INTEGRITY PROVISIONS - BID

Important changes have been made to the Integrity Provisions - Bid as of July 3rd 2015. See GI01, Integrity Provision-Bid of R2710T of the General Instructions for more information.

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R2710T GENERAL INSTRUCTIONS - CONSTRUCTION SERVICES - BID SECURITY REQUIREMENTS (GI) (2015-07-03)

The following GI's are included by reference and are available at the following Web Site <https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/5/R>

- GI01 Integrity Provisions - Bid
- GI02 Completion of Bid
- GI03 Identity or Legal Capacity of the Bidder
- GI04 Applicable Taxes
- GI05 Capital Development and Redevelopment Charges
- GI06 Registry and Pre-qualification of Floating Plant
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ITT (08-2015)

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APPENDIX 1 - COMBINED PRICE FORM

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SPECIAL INSTRUCTIONS TO BIDDERS (SI)

SI01 INTEGRITY PROVISIONS – DECLARATION OF CONVICTED OFFENCES

As applicable, pursuant to GI01 of the Declaration of Convicted Offences, paragraph 10 (copied below) of the General Instructions R2710T, the Bidder must provide with its bid, a completed Declaration Form, to be given further consideration in the procurement process.

Declaration of Convicted Offences

Where a Bidder or its Affiliate is unable to certify that it has not been convicted of any of the offences referenced under the Canadian Offences Resulting in Legal Incapacity, the Canadian Offences and the Foreign Offences subsections, the Bidder must provide with its bid the completed Declaration Form, to be given further consideration in the procurement process.

SI02 BID DOCUMENTS

1. The following are the bid documents:

- a. Invitation to Tender - Page 1;
- b. Special Instructions to Bidders;
- c. General Instructions - Construction Services - Bid Security Requirements R2710T (2015-07-03)
- d. Clauses & Conditions identified in "Contract Documents";
- e. Drawings and Specifications;
- f. Bid and Acceptance Form and related Appendix(s); and
- g. Any amendment issued prior to solicitation closing.

Submission of a bid constitutes acknowledgement that the Bidder has read and agrees to be bound by these documents.

2. General Instructions - Construction Services - Bid Security Requirements R2710T is incorporated by reference and is set out in the Standard Acquisition Clauses and Conditions (SACC) Manual, issued by Public Works and Government Services Canada (PWGSC). The SACC Manual is available on the PWGSC Web site: <https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/5/R>

SI03 ENQUIRIES DURING THE SOLICITATION PERIOD

1. Enquiries regarding this bid must be submitted in writing to the Contracting Officer named on the Invitation to Tender - Page 1 as early as possible within the solicitation period. Except for the approval of alternative materials as described in GI15 of R2710T, enquiries should be received no later than five (5) calendar days prior to the date set for solicitation closing to allow sufficient time to provide a response. Enquiries received after that time may not result in an answer being provided.
2. To ensure consistency and quality of the information provided to Bidders, the Contracting Officer shall examine the content of the enquiry and shall decide whether or not to issue an amendment.
3. All enquiries and other communications related to this bid sent throughout the solicitation period are to be directed ONLY to the Contracting Officer named on the Invitation to Tender - Page 1. Failure to comply with this requirement may result in the bid being declared non-responsive.

SI04 OPTIONAL SITE VISIT

Contractors are recommended to visit the site prior to submitting a tender for this work and to make inquiries or investigations necessary to become thoroughly acquainted with the site as well as the nature and extent of the work.

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A non-mandatory bidders meeting will be held at 10:00 am on Tuesday December 8, 2015. Interested Contractors are to meet at the Steveston Harbour Authority office, 12740 Trites Road, Richmond, B.C

SI05 REVISION OF BID

A bid may be revised by letter or facsimile in accordance with GI10 of R2710T. The facsimile number for receipt of revisions is (604) 775-9381.

SI06 BID RESULTS

1. A public bid opening will be held in the office designated on the Front Page "Invitation to Tender" for the receipt of bids shortly after the time set for solicitation closing.
2. Following solicitation closing, bid results may be obtained by calling at number. (604) 775-9384.

SI07 INSUFFICIENT FUNDING

In the event that the lowest compliant bid exceeds the amount of funding allocated for the Work, Canada in its sole discretion may

- a. cancel the solicitation; or
- b. obtain additional funding and award the Contract to the Bidder submitting the lowest compliant bid; and/or
- c. negotiate a reduction in the bid price and/or scope of work of not more than 15% with the Bidder submitting the lowest compliant bid. Should an agreement satisfactory to Canada not be reached, Canada shall exercise option (a) or (b).

SI08 BID VALIDITY PERIOD

1. Canada reserves the right to seek an extension to the bid validity period prescribed in BA04 of the Bid and Acceptance Form. Upon notification in writing from Canada, Bidders shall have the option to either accept or reject the proposed extension.
2. If the extension referred to in paragraph 1.of SI08 is accepted, in writing, by all those who submitted bids, then Canada shall continue immediately with the evaluation of the bids and its approvals processes.
3. If the extension referred to in paragraph 1.of SI08 is not accepted in writing by all those who submitted bids then Canada shall, at its sole discretion, either
 - a. continue to evaluate the bids of those who have accepted the proposed extension and seek the necessary approvals; or
 - b. cancel the invitation to tender.
4. The provisions expressed herein do not in any manner limit Canada's rights in law or under GI11 of R2710T.

SI09 CONSTRUCTION DOCUMENTS

The successful Contractor will be provided with one paper copy of the sealed and signed drawings, the specifications and the amendments upon acceptance of the offer. Additional copies, up to a maximum (2), will be provided free of charge upon request by the Contractor. Obtaining more copies shall be the responsibility of the Contractor including costs.

SI10 PUBLIC WORKS AND GOVERNMENT SERVICES CANADA APPRENTICE PROCUREMENT INITIATIVE

1. To encourage employers to participate in apprenticeship training, Contractors bidding on construction and maintenance contracts by Public Works and Government Services Canada (PWGSC) are being asked to sign a voluntary certification, signaling their commitment to hire and train apprentices.
2. Canada is facing skills shortages across various sectors and regions, especially in the skilled trades. Equipping Canadians with skills and training is a shared responsibility. In Economic Action Plan (EAP) 2013, the Government of Canada made a commitment to support the use of apprentices in federal construction and maintenance contracts. Contractors have an important role in supporting apprentices through hiring and training and are encouraged to certify that they are providing opportunities to apprentices as part of doing business with the Government of Canada.
3. Through the Economic Action Plan 2013 and support for training programs, the Government of Canada is encouraging apprenticeships and careers in the skilled trades. In addition, the government offers a tax credit to employers to encourage them to hire apprentices. Information on this tax measure administered by the Canada Revenue Agency can be found at: www.cra-arc.gc.ca. Employers are also encouraged to find out what additional information and supports are available from their respective provincial or territorial jurisdiction.
4. Signed certifications (Appendix 3) will be used to better understand contractor use of apprentices on Government of Canada maintenance and construction contracts and may inform future policy and program development.
5. The Contractor hereby certifies the following:

In order to help meet demand for skilled trades people, the Contractor agrees to use, and require its subcontractors to use, reasonable commercial efforts to hire and train registered apprentices, to strive to fully utilize allowable apprenticeship ratios * and to respect any hiring requirements prescribed by provincial or territorial statutes

The Contractor hereby consents to this information being collected and held by PWGSC, and Employment and Social Development Canada to support work to gather data on the hiring and training of apprentices in federal construction and maintenance contracts.

To support this initiative, a voluntary certification signaling the Contractor's commitment to hire and train apprentices is available at Appendix 3.

If you accept fill out and sign Appendix 3

** The journeyman-apprentice ratio is defined as the number of qualified/certified journeymen that an employer must employ in a designated trade or occupation in order to be eligible to register an apprentice as determined by provincial/territorial (P/T) legislation, regulation, policy directive or by law issued by the responsible authority or agency.*

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SI11 WEB SITES

The connection to some of the Web sites in the solicitation documents is established by the use of hyperlinks. The following is a list of the addresses of the Web sites:

Treasury Board Appendix L, Acceptable Bonding Companies

<http://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=14494§ion=text#appL>

Buy and Sell <https://www.achatsetventes-buyandsell.gc.ca>

Canadian economic sanctions <http://www.international.gc.ca/sanctions/index.aspx?lang=eng>

Contractor Performance Evaluation Report (Form PWGSC-TPSGC 2913)

<http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/documents/2913.pdf>

Bid Bond (form PWGSC-TPSGC 504) <http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/documents/504.pdf>

Performance Bond (form PWGSC-TPSGC 505) <http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/documents/505.pdf>

Labour and Material Payment Bond (form PWGWSC-TPSGC 506)

<http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/documents/506.pdf>

Standard Acquisition Clauses and Conditions (SACC) Manual

<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/5/R>

PWGSC, Industrial Security Services <http://ssi-iss.tpsgc-pwgsc.gc.ca/index-eng.html>

PWGSC, Code of Conduct and Certifications

<http://www.tpsgc-pwgsc.gc.ca/app-acq/cndt-cndct/contexte-context-eng.html>

Construction and Consultant Services Contract Administration Forms Real Property Contracting

<http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/formulaires-forms-eng.html>

Declaration Form

<http://www.tpsgc-pwgsc.gc.ca/ci-if/formulaire-form-eng.html>

SUPPLEMENTARY CONDITIONS (SC)

SC01 LIMITATION OF LIABILITY

GC1.6 of R2810D is deleted and replaced with the following:

GC1.6 Indemnification by the Contractor

1. The Contractor shall indemnify and save Canada harmless from and against all claims, demands, losses, costs, damages, actions, suits, or proceedings whether in respect to losses suffered by Canada or in respect of claims by any third party, brought or prosecuted and in any manner based upon, arising out of, related to, occasioned by, or attributable to the activities of the Contractor in performing the Work, provided such claims are caused by the negligent or deliberate acts or omissions of the Contractor, or those for whom it is responsible at law.
2. The Contractor's obligation to indemnify Canada for losses related to first party liability shall be limited to:
 - a. In respect to each loss for which insurance is to be provided pursuant to the insurance requirements of the Contract, the Commercial General Liability insurance limit for one occurrence as referred to in the insurance requirements of the Contract .
 - b. In respect to losses for which insurance is not required to be provided in accordance with the insurance requirements of the Contract, the greater of the Contract Amount or \$5,000,000, but in no event shall the sum be greater than \$20,000,000.

The limitation of this obligation shall be exclusive of interest and all legal costs and shall not apply to any infringement of intellectual property rights or any breach of warranty obligations.

3. The Contractor's obligation to indemnify Canada for losses related to third party liability shall have no limitation and shall include the complete costs of defending any legal action by a third party. If requested by Canada, the Contractor shall defend Canada against any third party claims.
4. The Contractor shall pay all royalties and patent fees required for the performance of the Contract and, at the Contractor's expense, shall defend all claims, actions or proceedings against Canada charging or claiming that the Work or any part thereof provided or furnished by the Contractor to Canada infringes any patent, industrial design, copyright trademark, trade secret or other proprietary right enforceable in Canada.
5. Notice in writing of a claim shall be given within a reasonable time after the facts, upon which such claim is based, became known.

SC02 INSURANCE TERMS

1) Insurance Contracts

- (a) The Contractor must, at the Contractor's expense, obtain and maintain insurance contracts in accordance with the requirements of the Certificate of Insurance. Coverage must be placed with an Insurer licensed to carry out business in Canada.
- (b) Compliance with the insurance requirements does not release the Contractor from or reduce its liability under the Contract. The Contractor is responsible for deciding if additional insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any additional insurance coverage is at the Contractor's expense, and for its own benefit and protection.

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2) Period of Insurance

- (a) The policies required in the Certificate of Insurance must be in force from the date of contract award and be maintained throughout the duration of the Contract.
- (b) The Contractor must be responsible to provide and maintain coverage for Products/Completed Operations hazards on its Commercial General Liability insurance policy, for a period of six (6) years beyond the date of the Certificate of Substantial Performance.

3) Proof of Insurance

- (a) Before commencement of the Work, and no later than thirty (30) days after acceptance of its bid, the Contractor must deposit with Canada a Certificate of Insurance on the form attached herein.
- (b) Upon request by Canada, the Contractor must provide originals or certified true copies of all contracts of insurance maintained by the Contractor pursuant to the Certificate of Insurance.

4) Insurance Proceeds

In the event of a claim, the Contractor must, without delay, do such things and execute such documents as are necessary to effect payment of the proceeds.

5) Deductible

The payment of monies up to the deductible amount made in satisfaction of a claim must be borne by the Contractor.

CONTRACT DOCUMENTS (CD)

1. The following are the contract documents:
 - a. Contract Page when signed by Canada;
 - b. Duly completed Bid and Acceptance Form and any Appendices attached thereto;
 - c. Drawings and Specifications;
 - d. General Conditions and clauses

GC1	General Provisions – Construction Services	R2810D	(2015-07-09);
GC2	Administration of the Contract	R2820D	(2015-02-25);
GC3	Execution and Control of the Work	R2830D	(2015-02-25);
GC4	Protective Measures	R2840D	(2008-05-12);
GC5	Terms of Payment	R2850D	(2015-02-25);
GC6	Delays and Changes in the Work	R2860D	(2013-04-25);
GC7	Default, Suspension or Termination of Contract	R2870D	(2008-05-12);
GC8	Dispute Resolution	R2880D	(2015-04-01);
GC9	Contract Security	R2890D	(2014-06-26);
GC10	Insurance	R2900D	(2008-05-12);
	Allowable Costs for Contract Changes Under GC6.4.1	R2950D	(2015-02-25);
	Supplementary Conditions		
 - d. Any amendment issued or any allowable bid revision received before the date and time set for solicitation closing;
 - f. Any amendment incorporated by mutual agreement between Canada and the Contractor before acceptance of the bid; and
 - g. Any amendment or variation of the contract documents that is made in accordance with the General Conditions.
2. The documents identified by title, number and date above are incorporated by reference and are set out in the Standard Acquisition Clauses and Conditions (SACC) Manual, issued by Public Works and Government Services Canada (PWGSC). The SACC Manual is available on the PWGSC Web site: <https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>
3. The language of the contract documents is the language of the Bid and Acceptance Form submitted.

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BID AND ACCEPTANCE FORM (BA)

BA01 IDENTIFICATION

Heavy Civil Equipment Rental, Marine Construction Work
Steveston Gulf and Paramount Site, Steveston Channel, Richmond, B.C.

BA02 BUSINESS NAME AND ADDRESS OF BIDDER

Name: _____

Address: _____

Telephone: _____ Fax: _____ PBN: _____

BA03 THE OFFER

The Bidder offers to Canada to perform and complete the Work for the above named project in accordance with the Bid Documents for the **TOTAL BID AMOUNT INDICATED IN APPENDIX 1**.

BA04 BID VALIDITY PERIOD

The bid shall not be withdrawn for a period of (thirty) [30] days following the date of solicitation closing.

BA05 ACCEPTANCE AND CONTRACT

Upon acceptance of the Contractor's offer by Canada, a binding Contract shall be formed between Canada and the Contractor. The documents forming the Contract shall be the contract documents identified in Contract Documents (CD).

BA06 CONSTRUCTION TIME

The Contractor shall perform and complete the Work by November 30, 2016.

BA07 BID SECURITY

The Bidder is enclosing bid security with its bid in accordance with GI08 - Bid Security Requirements of R2710T - General Instructions - Construction Services - Bid Security Requirements.

BA08 SIGNATURE

Name and title of person authorized to sign on behalf of Bidder (Type or print)

Signature

Date

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APPENDIX 1 - COMBINED PRICE FORM (1 page)

- 1) The prices per unit shall govern in establishing the Total Extended Amount. Any arithmetical errors in this Appendix will be corrected by Canada.
- 2) Canada may reject the bid if any of the prices submitted do not reasonably reflect the cost of performing the part of the work to which that price applies.

UNIT PRICE TABLE

The Unit Price Table designates Work to which a Unit Price Arrangement applies.

(a) Work included in each item is as described in the referenced specification section.

(b) The Price per Unit shall not include any amounts for Work that is not included in that unit price Item

Work will be performed in accordance with the contract schedules within the scope of work and unit price table:

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Item	Class of Labour, Plant or Material	Unit of Measurement	Estimated Quantity (EQ)	Price per Unit applicable taxes extra (PU)	Extended amount (EQ x PU) applicable taxes extra
1.0	Mobilization/Demobilization				
1	Mobilization/ Demobilization Trucking	HOUR	100	\$ _____	\$ _____
2.0	Equipment Supply				
.1	349 Cat Excavator or Eq.	HOURS	600	\$ _____	\$ _____
.2	320 Cat Excavator or Eq.	HOURS	300	\$ _____	\$ _____
.3	314 Cat Excavator or Eq.	HOURS	200	\$ _____	\$ _____
.4	D3K Cat Bulldozer or Eq.	HOURS	300	\$ _____	\$ _____
.5	D7E Cat Bulldozer or Eq.	HOURS	200	\$ _____	\$ _____
.6	910K Cat Wheel Loader or Eq.	HOURS	200	\$ _____	\$ _____
.7	938M Cat Wheel Loader or Eq.	HOURS	200	\$ _____	\$ _____
.8	416F Cat Backhoe Loader or Eq.	HOURS	400	\$ _____	\$ _____
.9	279D Compact Track Loader or Eq.	HOURS	500	\$ _____	\$ _____
.10	CS44 Vibratory Compactor	HOURS	160	\$ _____	\$ _____
.11	CS54B Vibratory Compactor	HOURS	160	\$ _____	\$ _____
.12	Tandem Dump Truck	HOURS	1000	\$ _____	\$ _____
.13	Volvo A35G Rock Truck or Eq.	HOURS	400	\$ _____	\$ _____
3.0	Crew Rental				
.1	Operational Crew	Man Hours	2000	\$ _____	\$ _____
.2	Misc. Labour Crew	Man Hours	500	\$ _____	\$ _____
4.0	Material Supply				
.1	Clear Crush Rock	m ³	2500	\$ _____	\$ _____
.2	Grade A Road Base	m ³	2500	\$ _____	\$ _____
.3	Washed River Sand	m ³	500	\$ _____	\$ _____
.4	12"-24" Rip-Rap Rock	m ³	30,000	\$ _____	\$ _____
.5	Concrete Supply and Placement (35 MPa)	m ³	700		
5.0	OTHER				
.1	Material Disposal – Mark-up over tipping fees based on \$100,000 of fees (\$100,000 + % mark- up)	N/A	\$100,000	+ _____ %	\$ _____
TOTAL ESTIMATED AMOUNT					\$ _____

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APPENDIX 3 - VOLUNTARY CERTIFICATION TO SUPPORT THE USE OF APPRENTICES

Note; The contractor will be asked to fill out a report every six months or at project completion as per sample "Voluntary Reports for Apprentices Employed during the Contract" provided at Annex C

Name: _____

Signature: _____

Company Name: _____

Company Legal Name: _____

Solicitation Number: _____

Number of company employees: _____

Number of apprentices planned to be working on this contract: _____

Trades of those apprentices:

Solicitation No. - N° de l'invitation

F1571-155067/A

Client Ref. No. - N° de réf. du client

Amd. No. - N° de la modif.

File No. - N° du dossier

PWY-5-38141

Buyer ID - Id de l'acheteur

pwy004

CCC No./N° CCC - FMS No./N° VME

APPENDIX 4 – DEPARTMENTAL REPRESENTATIVE'S AUTHORITY

TO BE PROVIDED AT CONTRACT AWARD.

Contracting Authority is :

Name : _____

Title : _____

Department : _____

Division : _____

Telephone : ____ - ____ - _____

e-mail : _____

Technical Authority is :

Name : _____

Title : _____

Department : _____

Division : _____

Telephone : ____ - ____ - _____

e-mail : _____

Solicitation No. - N° de l'invitation

F1571-155067/A

Amd. No. - N° de la modif.

File No. - N° du dossier

PWY-5-38141

Buyer ID - Id de l'acheteur

pwy004

CCC No./N° CCC - FMS No./N° VME

ANNEX A - CERTIFICATE OF INSURANCE (Not required at solicitation closing)

Attached

CERTIFICATE OF INSURANCE



Travaux publics et
Services gouvernementaux
Canada

Public Works and
Government Services
Canada

Description and Location of Work Heavy Civil Equipment Rental, Marine Construction Work Steveston Gulf and Paramount Site, Steveston Channel, Richmond, BC.	Contract No. F1571-155067/001/PWY
	Project No. F1571-155067

Name of Insurer, Broker or Agent	Address (No., Street)	City	Province	Postal Code
----------------------------------	-----------------------	------	----------	-------------

Name of Insured (Contractor)	Address (No., Street)	City	Province	Postal Code
------------------------------	-----------------------	------	----------	-------------

Additional Insured
Her Majesty the Queen in Right of Canada as represented by the Minister of Public Works and Government Services

Type of Insurance	Insurer Name and Policy Number	Inception Date D / M / Y	Expiry Date D / M / Y	Limits of Liability		
				Per Occurrence	Annual General Aggregate	Completed Operations Aggregate
Commercial General Liability Umbrella/Excess Liability				\$	\$	\$
Builder's Risk / Installation Floater				\$		

I certify that the above policies were issued by insurers in the course of their Insurance business in Canada, are currently in force and include the applicable insurance coverage's stated on page 2 of this Certificate of Insurance, including advance notice of cancellation / reduction in coverage.

Name of person authorized to sign on behalf of Insurer(s) (Officer, Agent, Broker)

Telephone number

Signature _____

Date D / M / Y

CERTIFICATE OF INSURANCE Page 2 of 2

General

The insurance policies required on page 1 of the Certificate of Insurance must be in force and must include the insurance coverage listed under the corresponding type of insurance on this page.

The policies must insure the Contractor and must include Her Majesty the Queen in Right of Canada as represented by the Minister of Public Works and Government Services as an additional Insured.

The insurance policies must be endorsed to provide Canada with not less than thirty (30) days notice in writing in advance of a cancellation of insurance or any reduction in coverage.

Without increasing the limit of liability, the policies must protect all insured parties to the full extent of coverage provided. Further, the policies must apply to each Insured in the same manner and to the same extent as if a separate policy had been issued to each.

Commercial General Liability

The insurance coverage provided must not be substantially less than that provided by the latest edition of IBC Form 2100. The policy must either include or be endorsed to include coverage for the following exposures or hazards if the Work is subject thereto:

- (a) Blasting.
- (b) Pile driving and caisson work.
- (c) Underpinning.
- (d) Removal or weakening of support of any structure or land whether such support be natural or otherwise if the work is performed by the insured contractor.

The policy must have the following minimum limits:

- (a) **\$5,000,000** Each Occurrence Limit;
- (b) **\$10,000,000** General Aggregate Limit per policy year if the policy contains a General Aggregate; and
- (c) **\$5,000,000** Products/Completed Operations Aggregate Limit.

Umbrella or excess liability insurance may be used to achieve the required limits.

Builder's Risk / Installation Floater

The insurance coverage provided must not be less than that provided by the latest edition of IBC Forms 4042 and 4047.

The policy must permit use and occupancy of any of the projects, or any part thereof, where such use and occupancy is for the purposes for which a project is intended upon completion.

The policy may exclude or be endorsed to exclude coverage for loss or damage caused by asbestos, fungi or spores, cyber and terrorism.

The policy must have a limit that is **not less than the sum of the contract value** plus the declared value (if any) set forth in the contract documents of all material and equipment supplied by Canada at the site of the project to be incorporated into and form part of the finished Work. If the value of the Work is changed, the policy must be changed to reflect the revised contract value.

The policy must provide that the proceeds thereof are payable to Canada or as Canada may direct in accordance with GC10.2, "Insurance Proceeds" (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/5/R/R2900D/2>).

STEVESTON SMALL CRAFT HARBOUR – HEAVY CIVIL EQUIPMENT RENTAL

Solicitation No. F1571-155067/A

FISHERIES AND OCEANS CANADA
SMALL CRAFT HARBOURS – PACIFIC REGION



Section 00 01 10 – Table of Contents

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Section 01 11 00 – Summary of Work

Part 1 General

1.1 RELATED REQUIREMENTS

- .1 00 10 00 - SCHEDULE OF QUANTITIES AND PRICES
- .2 01 11 00 - SUMMARY OF WORK
- .3 01 13 00 - GENERAL REQUIREMENTS
- .4 01 35 29.06 - HEALTH AND SAFETY REQUIREMENTS
- .5 01 35 43 - ENVIRONMENTAL PROCEDURES
- .6 01 45 00 - QUALITY CONTROL
- .7 01 74 11 - CLEANING
- .8 01 74 21 - CONSTRUCTION/DEMOLITION WASTE MANAGEMENT AND
DISPOSAL
- .9 01 77 00 - CLOSEOUT PROCEDURES
- .10 11 01 00 - HEAVY EQUIPMENT RENTAL
- .11 31 00 00 – EARTHWORK SHORT FORM

1.2 DEFINITIONS

- .1 Throughout contract documents, the words “Site,” “Owner,” “Contracting Authority,” “Harbour Authority,” “Contractor,” “Engineer,” or “Department,” shall be defined as follows:
 - .1 Site
“Site” referred to herein is Steveston Small Craft Harbour, 12740 Trites Road Richmond, BC, V7E 3R8, Canada.
 - .2 Contracting Authority
“Contracting Authority” referred to herein is Public Works and Government Services Canada – Pacific Region (PWGSC), 800 Burrard Street, 12th Floor, Vancouver, BC V6Z 2V8, Canada.
 - .3 Owner
“Owner” referred to herein is the Department of Fisheries and Oceans Canada – Small Craft Harbours, Suite 200-401 Burrard Street, Vancouver, BC V6C 3S4.
 - .4 Engineer/Departmental Representative
“Engineer/Departmental Representative” referred to herein is commonly an employee of the Owner assigned by the Owner as the Engineer and Technical Authority for the project. The Engineer may be a sub-contract Consultant for technical and inspection purposes and the Technical Authority must still be an employee of the Owner.



.5 Contractor
Contractor” referred to herein is the party accepted by the Owner, with whom a formal contract is signed, to complete the work of this project.

.4 Department
The Department of Fisheries and Oceans, Canada.

1.3 DRAWINGS

.1
.1 Steveston Heavy Equipment – Site Locations

1.4 LOCATION

.1 Steveston Small Craft Harbour is located in Richmond, British Columbia, along the Fraser River.

1.5 WORK COVERED BY CONTRACT DOCUMENTS

.1 Work covered in this section comprises of supplying heavy equipment complete with the operators and labourers to the Site. Work tasks as directed by Departmental Engineer

.2 All work under this agreement covers the furnishings of all labour, materials, tools, supervision, transport and equipment necessary for the provision of heavy equipment supply complete with the operators for the Site as specified herein.

.3 Work Description

.1 Work under this contract consists of the procurement for operating hours for equipment, operators, labourers and the supply of materials to complete designated heavy marine construction. The Owner will identify each task in advance and provide drawings and specifications for each task. The contractor will provide a work plan and schedule for completion of each task.

.4 The task work includes but is not limited to:

- .1 General Site Excavation
- .2 Ditching and Pipe Placement
- .3 Site Grading and Sloping
- .4 Demolition of In-Ground Structures.
- .5 Removal and Placement of Fill
- .6 Backfill and Compact Fill.
- .7 Material Delivery and Placement
- .8 Rip-Rap Placement



1.6 SCHEDULE OF QUANTITIES

- .1 The following are in reference to items as detailed in Section 00 10 00 – SECHEDULE OF QUANTITES AND PRICES.

1.0 MOBILIZATION/DEMObILIZATION

The lump sum cost for this item shall include the supply of materials, equipment, tools, services, labour and all things necessary to complete the following:

- .1 Mobilization/ demobilization of all crew and equipment to Steveston Harbour.
- .2 Any overhead costs not covered in other items.
- .3 Site clean-up and disposal of all materials not being salvaged.

2.0 EQUIPMENT SUPPLY

.1 349 Cat Excavator or Equivalent

The daily cost of the 349 Cat Excavator Rental includes the following:

- .1 Supply a 349 Cat Excavator that conforms to technical specifications in Section 11 01 00.

.2 320 Cat Excavator or Equivalent

The daily cost of the 320 Cat Excavator A Rental includes the following:

- .1 Supply a 320 Cat Excavator A that conforms to technical specifications in Section 11 01 00.

.3 314 Cat Excavator or Equivalent

The daily cost of the 314 Cat Excavator Rental includes the following:

- .1 Supply a 314 Cat Excavator that conforms to technical specifications in Section 11 01 00.

.4 D3K Cat Bulldozer or Equivalent

The daily cost of the D3K Cat Bulldozer Rental includes the following:

- .1 Supply a D3K Cat Bulldozer that conforms to technical specifications in Section 11 01 00.



.5 D7E Cat Bulldozer or Equivalent

The daily cost of the D7E Cat Bulldozer Rental includes the following:

- .1 Supply a D7E Cat Bulldozer that conforms to technical specifications in Section 11 01 00.

.6 910K Cat Wheel Loader or Equivalent

The daily cost of the 910K Cat Wheel Loader Rental includes the following:

- .1 Supply a 910K Cat Wheel Loader that conforms to technical specifications in Section 11 01 00.

.7 938M Cat Wheel Loader or Equivalent

The daily cost of the 938M Cat Wheel Loader Rental includes the following:

- .1 Supply a 938M Cat Wheel Loader that conforms to technical specifications in Section 11 01 00.

.8 416F Cat Backhoe Loader or Equivalent

The daily cost of the 416F Cat Backhoe Loader Rental includes the following:

- .1 Supply a 416F Cat Backhoe Loader that conforms to technical specifications in Section 11 01 00.

.9 279D Compact Track Loader or Equivalent

The daily cost of the 279D Compact Track Loader Rental includes the following:

- .1 Supply a 279D Compact Track Loader that conforms to technical specifications in Section 11 01 00.

.10 CS44 Vibratory Compactor or Equivalent

The daily cost of the CS44 Vibratory Compactor Rental includes the following:

- .1 Supply a CS44 Vibratory Compactor that conforms to technical specifications in Section 11 01 00.

.11 CS54B Vibratory Compactor or Equivalent

The daily cost of the CS54B Vibratory Compactor Rental includes the following:



- .1 Supply a CS54B Vibratory Compactor that conforms to technical specifications in Section 11 01 00.

.12 Tandem Dump Truck

The daily cost of the Tandem Dump Truck Rental includes the following:

- .1 Supply a Tandem Dump Truck that conforms to technical specifications in Section 11 01 00.

.13 Volvo A35G Rock Truck or Equivalent

The daily cost of the Rock Truck Rental includes the following:

- .1 Supply a Rock Truck that conforms to technical specifications in Section 11 01 00.

3.0 CREW RENTAL

.1 Operational Crew

The man hour cost of the Operational Crew includes the following:

- .1 Supply minimum four (4) man crew, which includes a foreman for the coordination and safety of the crew.
- .2 Man hours are calculated as the summation of hours that each crew member worked.
- .3 The crew shall be professional, self-sufficient and capable of completing standard heavy civil construction work in accordance to construction drawings, without the direct supervision of the Owner.
- .4 This crew shall be responsible for coordinating all equipment rented on site.

.2 Misc. Labour Crew

The man hour cost of the Misc. Labour Crew includes the following:

- .1 Supply minimum four (4) man crew, which includes a foreman for the coordination and safety of the crew.



- .2 Man hours are calculated as the summation of hours that each crew member worked.
- .3 The crew shall be professional, self-sufficient and capable of completing standard heavy civil construction work in accordance to construction drawings, without the direct supervision of the Owner.
- .4 This crew shall be responsible for completed general additional labour on site.

4.0 MATERIAL SUPPLY

.1 Clear Crush Rock

The cubic meter cost of Supply of Clear Crush includes the following:

- .1 Supply of Clear Crush Gravel as outlined in Section 31 00 00 – Earthworks Short Form. Material will be priced delivered onsite per cubic meter.
- .2 Material spec sheet will be submitted and approved by the Departmental Representative before delivery.

.2 Grade A Road Base

The cubic meter cost of Supply Road Base includes the following:

- .1 Supply of Road Base as outlined in Section 31 00 00 – Earthworks Short Form. Material will be priced delivered onsite per cubic meter.
- .2 Material spec sheet will be submitted and approved by the Departmental Representative before delivery.

.3 Washed River Sand

The cubic meter cost of Supply Sand includes the following:

- .1 Supply of Sand as outlined in Section 31 00 00 – Earthworks Short Form. Material will be priced delivered onsite per cubic meter.
- .2 Material spec sheet will be submitted and approved by the Departmental Representative before delivery.

.4 12-24” Rip-Rap Rock



The cubic meter cost of Supply Rip-Rap includes the following:

- .1 Supply of Road Base as outlined in Section 31 00 00 – Earthworks Short Form. Material will be priced delivered onsite per cubic meter.
- .2 Material spec sheet and sizing will be submitted and approved by the Departmental Representative before delivery.

.5 Concrete Supply and Placement

The cubic meter cost of Supply and Placement of Concrete includes the following:

- .1 Supply of concrete as outlined in Section 31 00 00 – Earthworks Short Form. Payment will be priced delivered and placed onsite per cubic meter.
- .2 Material spec sheet and type will be submitted and approved by the Departmental Representative before delivery.

1.7 WORK SEQUENCE AND OWNER OCCUPANCY

- .1 There is an expectation of estimated requirement for mobilization at the following dates:
 - December 29th, 2015 – Equipment Requirement and task will be identified to the contractor by December 5st, 2015
 - February 1st, 2016 - Equipment Requirement and tasks will be identified to the contractor by January 1st, 2016
 - July 1st, 2016 - Equipment Requirement and tasks will be identified to the contractor by June 1st, 2016
- .2 For each task project, the Contractor shall only mobilize/demobilize equipment items (from Section 01 11 00) approved by the Owner.
- .3 All projects including clean-up and final demobilization must be completed by November 30th, 2016.
- .4 Co-ordinate Project Schedule with Owner and Harbour Authority.



.1 Steveston Harbour must remain operational at all times during construction.

.5 Co-operate with Owner in scheduling operations to minimize conflict and to facilitate Owner usage.

1.8 CONTRACTOR USE OF PREMISES

.1 Co-ordinate use of premises under direction of Owner.

.2 Remove or alter existing work to prevent injury or damage to portions of existing work which remain.

.3 Repair or replace portions of existing work which have been altered during construction operations to match existing or adjoining work, as directed by Engineer.

.4 At completion of operations condition of existing work: equal to or better than that which existed before new work started.

1.9 DOCUMENTS REQUIRED

.1 Maintain at job site, one copy each document as follows:

.1 Contract Drawings, Specifications and any Addenda.

.2 Change Orders and other Modifications to Contract.

.3 Copy of Approved Work Schedule.

.4 Health and Safety Plan and Other Safety Related Documents.

.5 All regulatory permits required for the work

.6 Associated Best Management Practices documentation.

Part 2 Products

2.1 NOT USED

.1 Not used.

Part 3 Execution

3.1 NOT USED

.1 Not used.

END OF SECTION





Section 01 13 00 – General Requirements

Part 1 General

1.1 RELATED REQUIREMENTS

- .1 01 11 00 - SUMMARY OF WORK
- .2 01 35 29.06 - HEALTH AND SAFETY REQUIREMENTS

1.2 INSPECTION OF SITE

- .1 It is the responsibility of each bidder to obtain all necessary information pertaining to local site conditions and existing works, beyond the information provided in this Specification and accompanying drawing(s).

1.3 PERMITS, CERTIFICATES, LAWS AND ORDINANCES

- .1 The Contractor must, at his own expense, procure all permits, certificates and licenses required of him by law for the execution of his work under this contract. He shall comply with all Federal, Provincial or Municipal laws, ordinances or rules and regulations relating to the performance of his work and in force during the duration of this contract.
- .2 The Contractor is required to give all required notices, comply with all local, municipal, provincial, and federal laws, ordinances, codes, by-laws, rules and regulations relating to the work.
- .3 All work to be done in accordance with Work Safe BC regulations.
- .4 The Contractor shall comply with Federal and Provincial laws, orders and regulations concerning the control and abatement of water and air pollution.
- .5 The Contractor shall comply with the requirements of any local or other Noise By Laws.

1.4 MINIMUM STANDARDS

- .1 In the absence of other standards specified in the Contract Documents, all work is to conform to, or exceed, the minimum standards of the Canadian Government Specifications Boards, the Canadian Standards Association, the American Society for Testing of Materials, or the National Building Code of Canada, whichever is applicable.
- .2 All work to be done in accordance with Work Safe BC regulations.

1.5 INTERFERENCE WITH OPERATION

- .1 The Contractor shall obey all navigation regulations and conduct operations so as to interfere as little as possible with the use of berthing spaces, fairways and passages. Install and maintain any and all protection to navigation as may be required by any



properly constituted authority or by the Owner. During the course of construction and clean-up, do not dispose of surplus, waste or demolished materials in navigable waters.

- .2 The Contractor shall upon instruction of the Owner or Engineer, promptly remove any of the Contractor's equipment located outside the specified work area and obstructing any harbour operation.

1.6 COMPLIANCE WITH STANDARD SPECIFICATIONS CODES AND REGULATIONS

- .1 Unless expressly stated to the contrary, all materials, equipment and articles furnished by the Contractor shall comply with the applicable provisions of the standards of the Canadian Standards Association (CSA) or the Canadian Government Specification Board (CGSB) with the applicable provisions of the American Society for Testing Materials (ASTM), National Dredging Association (NFPA), American Concrete Institute (ACI) and the American Water Works Association (AWWA).
- .2 The Contractor shall follow all regulations in accordance with the Fisheries Act. Care shall be taken not to release any deleterious materials to fish habitat, into the water.
- .3 All work to be done in accordance with Work Safe BC regulations.

1.7 CONTRACTOR'S PERSONNEL

- .1 The Contractor's representative on site shall be completely familiar with the method of work to be employed. Such personnel shall remain on site for the duration of the work.

1.8 RESPONSIBILITY TO PERSONNEL

- .1 The Contractor shall have full responsibility for the board, lodging and transportation of his personnel and subcontractors. The cost for this shall be incorporated into his unit prices. He shall comply with all labor requirements, and Worker's Compensation regulations.

1.9 BARRIERS, LIGHTS AND WATCHING

- .1 The Contractor shall provide all requisite barriers, fences, warning signs, lights and watching for the protection of persons and property on or adjacent to the Site.

1.10 PROGRESS REPORT

- .1 The Contractor shall keep a daily record of progress of the work available for inspection by the Engineer.
- .2 The daily record shall include particulars of weather conditions, number of men working, plant and equipment working and work performed.



1.11 ENGINEER'S ACCESS

- .1 The Contractor shall provide access to the work for the Engineer's inspectors and surveyors as required.

1.12 PERMITS AND ROYALTIES

- .1 Permits and licenses required for the Contractors work are the responsibility of the Contractor and shall be for the Contractor's account. The Contractor shall have the appropriate business license.

1.13 PROTECTION OF EXISTING STRUCTURES

- .1 Existing structures, adjacent marine facilities, roads, services, piping or equipment within the work area which are not to be replaced shall be properly protected from any injury or damage, direct or indirect. Any damage that is caused as a result of the operations of the Contractor shall be repaired and made good at the Contractor's expense to the satisfaction of the Engineer.

1.14 WEATHER

- .1 Time lost by the Contractor due to stoppage on account of adverse weather conditions may be allowed, at the discretion of the Engineer, as an extension of time for the completion of the work over and above the date of completion specified in the contract agreement. However, no work can be extended past March 31.

1.15 SOIL DATA AND EXISTING TOPOGRAPHY

- .1 The Contractor shall notify the Engineer of any subsurface conditions at the place of the work that may differ materially from those indicated in the Contract Documents.

1.16 UTILITIES AND SERVICES

- .1 The Contractor shall be responsible for any damage to overhead, underwater and/or underground utilities and/or services caused by the Contractor's operations and shall repair and make good the repairs at the Contractor's own expense.
- .2 The Contractor shall be responsible, unless otherwise agreed to by the Engineer, for all temporary or construction services and utilities, and first aid facilities.

1.17 MATERIAL HANDLING AND STORAGE

- .1 Any materials damaged by the Contractor during handling, transportation and storage shall be replaced at the Contractor's expense.

1.18 MATERIALS AND EQUIPMENT SUPPLIED BY THE CONTRACTOR



- .1 The Contractor shall supply all labor, hand tools, power tools, generators, equipment and all other materials required to complete this Contract.

1.19 CONSTRUCTION WORK SCHEDULE

- .1 The Contractor shall work whatever shifts required in order to ensure the work meets regulatory windows and is completed as outlined in the agreed work plan.
- .2 The Contractor shall normally perform all work within the hours of daylight except in instances where the Contractor has requested and received approval for shift changes from the Owner.
- .3 Within 7 days of award the Contractor is to supply a week by week schedule of proposed activities related to the contract.
- .4 The Contractor must notify the Owner immediately whenever a variation from the construction schedule is expected to occur or when the submission of the submittals will be delayed.

1.20 SETTING OUT OF WORK

- .1 The Contractor is expected to familiarize themselves with the Site, facilities and amenities within.
- .2 The Contractor shall not enter on nor occupy with men, tools, equipment or material, any ground outside the property of the Harbour Authority without the written consent of the party owning such ground. Other Contractors or employees or representatives of the Department may, for all necessary purposes, enter upon the work and premises used by the Contractor, and the Contractor shall conduct his work so as not to impede unnecessarily any work being done by others nor adjacent to the Site.

1.21 AS-BUILT DRAWINGS

- .1 The Contractor shall mark up one set of plans with any changes or amendments implemented during the Contract. These plans shall be submitted to the engineer before the Final Certificate of completion is issued.

1.22 SITE SECURITY

- .1 The Contractor is responsible for all materials and equipment either supplied by the Contractor, the Client Department, or the Owner. The Contractor is responsible for the repair and replacement of stolen or damaged items.

1.23 CO-OPERATION WITH HARBOUR AUTHORITY



- .1 The Contractor will give the Harbour Authority a minimum 24 hours notice for work that may interrupt access to the harbour.
- .2 The site shall be left in a safe condition at the completion of each work day.

1.24 CONDITION OF STRUCTURE

- .1 Existing structures, adjacent marine facilities, roads, and all other structures, services, piping or equipment within the work area shall be properly protected from any injury or damage, direct or indirect. Any damage that is caused as a result of the operations of the Contractor shall be repaired and made good at the Contractors expense to the satisfaction of the Owner.

1.25 INSPECTION OF STRUCTURE

- .1 The Owner or inspector, shall inspect the completed works. The Contractor shall be responsible for the costs of any re-inspections that may be required due to errors or omissions of the Contractor.

Part 2 Products

2.1 NOT USED

- .1 Not used.

Part 3 Execution

3.1 SITE ACCESS

- .1 The Contractor shall provide access to the work for the Owner's inspectors and surveyors as required.
- .2 General site access shall be coordinated with the Owner.
- .3 The Contractor shall maintain routes of travel, with the Owner being the sole judge as to what may be deemed reasonable.
- .4 The Contractor shall erect and maintain barriers, fences, lights, warning devices, and other protective devices as may be required for prevention of theft or damage of goods and protection of the public and workmen, or if so ordered by the Owner.

3.2 CONSTRUCTION AREA

- .1 The Contractor shall regulate construction traffic on public areas and comply with all local ordinances in connection therewith, including load limitation and removal of debris.



- .2 The Contractor shall confine his operations on the Site to those areas actually required for the work including routes and regulations approved by the Owner for haulage of materials.

3.3 NIGHT WORK

- .1 The Contractor shall keep proper lights each night between the hours of sunset and sunrise upon all floating plants, false-work and other obstructions where necessary, and upon all buoys of such size and in such locations as required by a governing authority. When work is done at night, maintain from sunset to sunrise such lights on or about the work and plant as necessary for the proper observation of the work and the efficient prosecution thereof.

3.4 CLEAN-UP

- .1 At all times the Contractor shall keep the Site free from accumulation of waste material and debris and leave the Site clean and tidy on completion.

3.5 TEMPORARY SERVICES

- .1 On site the Contractor shall make his own arrangements for supply of water and electricity.
- .2 The Contractor shall supply for his own use; sanitary, first aid, and all other temporary services and facilities required for the work.

3.6 CARE OF FINISHED WORK

- .1 The Contractor shall protect all finished work from injury, defacement, unauthorized entry, or trespass until such time as the work described in the Contract Documents is substantially complete.

3.7 DISPOSAL

- .1 All material designated to be replaced or removed will become the property of the Contractor and will be disposed of in an environmentally acceptable manner so that they neither become a menace to marine navigation nor a nuisance to the public on adjacent or any other property.
- .2 All replaced items, cut-offs and waste material shall be disposed by the Contractor in strict accordance with provincial, local, and municipal regulations and Part 8 of the National Building Code and with the Canadian Construction Safety Code.
- .3 Conduct clean-up and disposal operations to comply with local ordinances and antipollution laws.

3.8 SITEWORK



- .1 All work shall be completed as per direction of on-site Owner or representative.
- .2 All heavy construction equipment shall be free of leaks and cleaned prior to construction.
- .3 The Contractor shall have absorbent pads on site in case of any oil leaks or contaminants entering the water.

END OF SECTION



Section 01 33 00 – Submittal Procedures

Part 1 General

1.1 RELATED REQUIREMENTS

- .1 01 13 00 - GENERAL REQUIREMENTS
- .2 01 35 29.06 - HEALTH AND SAFETY REQUIREMENTS
- .3 01 35 43 - ENVIRONMENTAL PROCEDURES
- .4 01 45 00 - QUALITY CONTROL
- .5 01 74 21 - CONSTRUCTION/DEMOLITION WASTE MANAGEMENT AND
DISPOSAL
- .6 01 77 00 - CLOSEOUT PROCEDURES

1.2 ADMINISTRATIVE

- .1 Submit to Departmental Representative submittals listed for review. Submit promptly and in orderly sequence to not cause delay in Work. Failure to submit in ample time is not considered sufficient reason for extension of Contract Time and no claim for extension by reason of such default will be allowed.
- .2 Do not proceed with Work affected by submittal until review is complete.
- .3 Present shop drawings, product data, samples and mock-ups in SI Metric units.
- .4 Where items or information is not produced in SI Metric units converted values are acceptable.
- .5 Review submittals prior to submission to Departmental Representative. This review represents that necessary requirements have been determined and verified, or will be, and that each submittal has been checked and co-ordinated with requirements of Work and Contract Documents. Submittals not stamped, signed, dated and identified as to specific project will be returned without being examined and considered rejected.
- .6 Notify Departmental Representative, in writing at time of submission, identifying deviations from requirements of Contract Documents stating reasons for deviations.
- .7 Verify field measurements and affected adjacent Work are co-ordinated.
- .8 Contractor's responsibility for errors and omissions in submission is not relieved by Departmental Representative's review of submittals.
- .9 Contractor's responsibility for deviations in submission from requirements of Contract Documents is not relieved by Departmental Representative review.
- .10 Keep one reviewed copy of each submission on site.



1.4 SHOP DRAWINGS AND PRODUCT DATA

- .1 The term "shop drawings" means drawings, diagrams, illustrations, schedules, performance charts, brochures and other data which are to be provided by Contractor to illustrate details of a portion of Work.
- .2 Submit shop drawings bearing stamp and signature of qualified professional Engineer registered or licensed in British Columbia Canada.
- .3 Indicate materials, methods of construction and attachment or anchorage, erection diagrams, connections, explanatory notes and other information necessary for completion of Work. Where articles or equipment attach or connect to other articles or equipment, indicate that such items have been co-ordinated, regardless of Section under which adjacent items will be supplied and installed. Indicate cross references to design drawings and specifications.
- .4 Allow 10 days for Owner's review of each submission.
- .5 Adjustments made on shop drawings by Owner are not intended to change Contract Price. If adjustments affect value of Work, state such in writing to Owner prior to proceeding with Work.
- .6 Make changes in shop drawings as Owner may require, consistent with Contract Documents. When resubmitting, notify Owner in writing of revisions other than those requested.
- .7 Accompany submissions with transmittal letter, containing:
 - .1 Date.
 - .2 Project title and number.
 - .3 Contractor's name and address.
 - .4 Identification and quantity of each shop drawing, product data and sample.
 - .5 Other pertinent data.
- .8 Submissions include:
 - .1 Date and revision dates.
 - .2 Project title and number.
 - .3 Name and address of:
 - .1 Subcontractor.
 - .2 Supplier.
 - .3 Manufacturer.
 - .4 Contractor's stamp, signed by Contractor's authorized representative certifying approval of submissions, verification of field measurements and compliance with Contract Documents.
 - .5 Details of appropriate portions of Work as applicable:



- .1 Fabrication.
 - .2 Layout, showing dimensions, including identified field dimensions, and clearances.
 - .3 Setting or erection details.
 - .4 Capacities.
 - .5 Performance characteristics.
 - .6 Standards.
 - .7 Operating weight.
 - .8 Wiring diagrams.
 - .9 Single line and schematic diagrams.
 - .10 Relationship to adjacent work.
- .9 After Owner's review, distribute copies.
- .10 Submit one electronic copy of shop drawings for each requirement requested in specification Sections and as Owner may reasonably request.
- .11 Submit one electronic copy of product data sheets or brochures for requirements requested in specification Sections and as requested by Owner where shop drawings will not be prepared due to standardized manufacture of product.
- .12 Submit one electronic copy of test reports for requirements requested in specification Sections and as requested by Owner.
- .1 Report signed by authorized official of testing laboratory that material, product or system identical to material, product or system to be provided has been tested in accord with specified requirements.
- .13 Submit one electronic copy of Manufacturer's Field Reports for requirements requested in specification Sections and as requested by Owner.
- .1 Documentation of the testing and verification actions taken by manufacturer's representative to confirm compliance with manufacturer's standards or instructions.
- .14 Supplement standard information to provide details applicable to project.
- .15 If upon review by Owner, no errors or omissions are discovered or if only minor corrections are made, copies will be returned and fabrication and installation of Work may proceed. If shop drawings are rejected, noted copy will be returned and resubmission of corrected shop drawings, through same procedure indicated above, must be performed before fabrication and installation of Work may proceed.
- .16 The review of shop drawings by Public Works and Government Services Canada (PWGSC) is for sole purpose of ascertaining conformance with general concept.
- .1 This review shall not mean that PWGSC approves detail design inherent in shop drawings, responsibility for which shall remain with Contractor submitting same,



and such review shall not relieve Contractor of responsibility for errors or omissions in shop drawings or of responsibility for meeting requirements of construction and Contract Documents.

- .2 Without restricting generality of foregoing, Contractor is responsible for dimensions to be confirmed and correlated at job site, for information that pertains solely to fabrication processes or to techniques of construction and installation and for co-ordination of Work of sub-trades.

1.8 CERTIFICATES AND TRANSCRIPTS

- .1 Immediately after award of Contract, submit Workers' Compensation Board status.
- .2 Submit transcription of insurance immediately after award of Contract.

Part 2 Products

2.1 NOT USED

- .1 Not Used.

Part 3 Execution

3.1 NOT USED

- .1 Not Used.

END OF SECTION



Section 01 35 29.06 – Health and Safety Requirements

Part 1 General

1.1 RELATED SECTIONS

- .1 Section 01 11 00 – SUMMARY OF WORK
- .2 Section 01 35 43 – ENVIRONMENTAL PROCEDURES

1.2 REFERENCES

- .1 Canada Labour Code, Part 2, Canada Occupational Safety and Health Regulations
- .2 Health Canada/Workplace Hazardous Materials Information System (WHMIS)
 - .1 Material Safety Data Sheets (MSDS).
- .4 Province of British Columbia
 - .1 Workers Compensation Act, RSBC 1996 - Updated 2012.

1.3 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Submit site-specific Health and Safety Plan: Within 7 days after date of Notice to Proceed and prior to commencement of Work. Health and Safety Plan must include:
 - .1 Results of site specific safety hazard assessment.
 - .2 Results of safety and health risk or hazard analysis for site tasks and operations.
- .3 Submit 3 copies of Contractor's authorized representative's work site health and safety inspection reports to Departmental Representative.
- .4 Submit copies of reports or directions issued by Federal, Provincial and Territorial health and safety inspectors.
- .5 Submit copies of incident and accident reports.
- .6 Submit WHMIS MSDS - Material Safety Data Sheets.
- .7 Departmental Representative will review Contractor's site-specific Health and Safety Plan and provide comments to Contractor within 5 days after receipt of plan. Revise plan as appropriate and resubmit plan to Departmental Representative 5 days after receipt of comments from Departmental Representative.



- .8 Departmental Representative's review of Contractor's final Health and Safety plan should not be construed as approval and does not reduce the Contractor's overall responsibility for construction Health and Safety.
- .9 On-site Contingency and Emergency Response Plan: address standard operating procedures to be implemented during emergency situations.

1.4 FILING OF NOTICE

- .1 File Notice of Project with Provincial authorities prior to beginning of Work.
- .2 Contractor shall be responsible and assume the Principal Contractor role for each work zone location and not the entire complex. Contractor shall provide a written acknowledgement of this responsibility with 3 weeks of contract award. Contractor to submit written acknowledgement to CSST along with Ouverture de Chantier Notice.
- .3 Work zone locations include:
 - .1 Steveston Small Craft Harbour.
- .4 Contractor shall agree to install proper site separation and identification in order to maintain time and space at all times throughout life of project.

1.5 SAFETY ASSESSMENT

- .1 Perform site specific safety hazard assessment related to project.

1.6 MEETINGS

- .1 Schedule and administer Health and Safety meeting with Departmental Representative prior to commencement of Work.

1.7 PROJECT/SITE CONDITIONS

- .1 Work at site will involve contact with:
 - .1 Steveston Small Craft Harbour Authority

1.8 GENERAL REQUIREMENTS

- .1 Develop written site-specific Health and Safety Plan based on hazard assessment prior to beginning site Work and continue to implement, maintain, and enforce plan until final demobilization from site. Health and Safety Plan must address project specifications.
- .2 Departmental Representative may respond in writing, where deficiencies or concerns are noted and may request re-submission with correction of deficiencies or concerns.



1.9 RESPONSIBILITY

- .1 Be responsible for health and safety of persons on site, safety of property on site and for protection of persons adjacent to site and environment to extent that they may be affected by conduct of Work.
- .2 Comply with and enforce compliance by employees with safety requirements of Contract Documents, applicable federal, provincial, territorial and local statutes, regulations, and ordinances, and with site-specific Health and Safety Plan.

1.10 COMPLIANCE REQUIREMENTS

- .1 Comply with Workers Compensation Act, B.C. Reg.
- .2 Comply with R.S.Q., c. S-2.1, an Act respecting Health and Safety, and c. S-2.1, r.4
Safety Code for the Construction Industry.
- .3 Comply with Occupational Health and Safety Regulations, 1996.
- .4 Comply with Occupational Health and Safety Act, General Safety Regulations, O.I.C.
- .5 Comply with Canada Labour Code, Canada Occupational Safety and Health Regulations.

1.11 UNFORSEEN HAZARDS

- .1 When unforeseen or peculiar safety-related factor, hazard, or condition occur during performance of Work, follow procedures in place for Employee's Right to Refuse Work in accordance with Acts and Regulations of the Province having jurisdiction and advise Departmental Representative verbally and in writing.
- .2 When unforeseen or peculiar safety-related factor, hazard, or condition occur during performance of Work, advise the Health and Safety co-ordinator and follow procedures in accordance with Acts and Regulations of the Province having jurisdiction and advise Departmental Representative verbally and in writing.

1.12 HEALTH AND SAFETY CO-ORDINATOR

- .1 Employ and assign to Work, competent and authorized representative as Health and Safety Co-ordinator. Health and Safety Co-ordinator must:
 - .1 Have site-related working experience specific to activities associated with.
 - .2 Have working knowledge of occupational safety and health regulations.



- .3 Be responsible for completing Contractor's Health and Safety Training Sessions and ensuring that personnel not successfully completing required training are not permitted to enter site to perform Work.
- .4 Be responsible for implementing, enforcing daily and monitoring site-specific Contractor's Health and Safety Plan.

1.13 POSTING OF DOCUMENTS

- .1 Ensure applicable items, articles, notices and orders are posted in conspicuous location on site in accordance with Acts and Regulations of the Province having jurisdiction, and in consultation with Departmental Representative.

1.14 CORRECTION OF NON-COMPLIANCE

- .1 Immediately address health and safety non-compliance issues identified by authority having jurisdiction or by Departmental Representative.
- .2 Provide Departmental Representative with written report of action taken to correct non-compliance of health and safety issues identified.
- .3 Departmental Representative may stop Work if non-compliance of health and safety regulations is not corrected.

1.15 WORK STOPPAGE

- .1 Give precedence to safety and health of public and site personnel and protection of environment over cost and schedule considerations for Work.

Part 2 Products

2.1 NOT USED

- .1 Not used.

Part 3 Execution

3.1 NOT USED

- .1 Not used.

END OF SECTION



Section 01 35 43 – Environmental Procedures

Part 1 General

1.1 RELATED REQUIREMENTS

- .1 01 11 00 - SUMMARY OF WORK
- .2 01 45 00 - QUALITY CONTROL
- .3 01 74 11 - CLEANING
- .4 11 01 00 - HEAVY EQUIPMENT RENTAL

1.2 REFERENCES

- .1 Definitions:
 - .1 Environmental Pollution and Damage: presence of chemical, physical, biological elements or agents which adversely affect human health and welfare; unfavourably alter ecological balances of importance to human life; affect other species of importance to humans; or degrade environment aesthetically, culturally and/or historically.
 - .2 Environmental Protection: prevention/control of pollution and habitat or environment disruption during construction.

1.3 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
 - .1 Submit manufacturer's instructions, printed product literature and data sheets and include product characteristics, performance criteria, physical size, finish and limitations.
 - .2 Submit copies of WHMIS MSDS in accordance with Section 01 35 29.06 - Health and Safety Requirements.

1.4 FIRES

- .1 Fires and burning of rubbish on site is not permitted

1.5 DRAINAGE

- .1 Control disposal or runoff of water containing suspended materials or other harmful substances in accordance with local authority requirements.

1.6 SITE CLEARING AND PLANT PROTECTION

- .1 Protect trees and plants on site and adjacent properties as indicated.



- .2 Protect trees and shrubs adjacent to construction work, storage areas and trucking lanes, and encase with protective wood framework from grade level to height of [2] m minimum.
- .3 Protect roots of designated trees to dripline during excavation and site grading to prevent disturbance or damage.
 - .1 Avoid unnecessary traffic, dumping and storage of materials over root zones.
- .4 Minimize stripping of topsoil and vegetation.
- .5 Restrict tree removal to areas designated by Departmental Representative.

1.7 WORK ADJACENT TO WATERWAYS

- .1 Construction equipment to be operated on land only.
- .2 Use waterway beds for borrow material only after written receipt of approval from Departmental Representative.
- .3 Waterways to be kept free of excavated fill, waste material and debris.

1.8 POLLUTION CONTROL

- .1 Maintain temporary erosion and pollution control features installed under this contract.
- .2 Control emissions from equipment and plant to local authorities' emission requirements.
- .3 Prevent sandblasting and other extraneous materials from contaminating air and waterways beyond application area, by providing temporary enclosures.
- .4 Cover or wet down dry materials and rubbish to prevent blowing dust and debris. Provide dust control for temporary roads.

1.9 HISTORICAL/ARCHAEOLOGICAL CONTROL

- .1 Not Used

1.10 NOTIFICATION

- .1 Owner will notify Contractor in writing of observed noncompliance with Federal, Provincial or Municipal environmental laws or regulations, permits, and other elements of Contractor's Environmental Protection plan.
- .2 Contractor: after receipt of such notice, inform Owner of proposed corrective action and take such action for approval by Owner.
- .3 Owner will issue stop order of work until satisfactory corrective action has been taken.



- .4 No time extensions granted or equitable adjustments allowed to Contractor for such suspensions.

Part 2 Products

2.1 NOT USED

- .1 Not Used.

Part 3 Execution

3.1 CLEANING

- .1 Leave work area clean at end of each day.
- .2 Ensure public waterways, storm and sanitary sewers remain free of waste and volatile materials disposal.
- .3 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment to the approval of the Owner.

END OF SECTION



Section 01 45 00 – Quality Control

Part 1 General

1.1 RELATED SECTIONS

- .1 Not Used.

1.2 REFERENCES

- .1 Construction General Conditions

1.3 INSPECTION

- .1 Refer to Construction General Conditions for stipulated interpretation.
- .2 Allow Owner access to Work. If part of Work is in preparation at locations other than
- .3 Place of Work; allow access to such Work whenever it is in progress.
- .4 Give timely notice requesting inspection if Work is designated for special tests, inspections or approvals.
- .5 If Contractor covers or permits to be covered Work that has been designated for special tests, inspections or approvals before such is made, uncover such Work, have inspections or tests satisfactorily completed and make good such Work.
- .6 Owner will order part of Work to be examined if Work is suspected to be not in accordance with Contract Documents. If, upon examination such work is found not in accordance with Contract Documents, correct such Work and pay cost of examination and correction.

1.4 ACCESS TO WORK

- .1 Allow inspection/testing agencies access to Work, off site manufacturing and fabrication plants.
- .2 Co-operate to provide reasonable facilities for such access.

1.5 PROCEDURES

- .1 Notify appropriate agency in advance of requirement for tests, in order that attendance arrangements can be made.
- .2 Submit samples and/or materials required for testing, as specifically requested in specifications. Submit with reasonable promptness and in orderly sequence to not cause delays in Work.



- .3 Provide labour and facilities to obtain and handle samples and materials on site. Provide sufficient space to store and cure test samples.

1.6 REJECTED WORK

- .1 Refer to Construction General Conditions for stipulated interpretation.
- .2 Remove defective Work, whether result of poor workmanship, use of defective products or damage and whether incorporated in Work or not, which has been rejected as failing to conform to Contract Documents. Replace or re-execute in accordance with Contract Documents.
- .3 Make good other Contractor's work damaged by such removals or replacements promptly.
- .4 If in opinion of Owner it is not expedient to correct defective Work or Work not performed in accordance with Contract Documents, Owner will deduct from Contract Price difference in value between Work performed and that called for by Contract Documents, amount of which will be determined by The Engineer.

1.7 REPORTS

- .1 Submit 4 copies of inspection and test reports to Owner.

Part 2 Products

2.1 NOT USED

- .1 Not used.

Part 3 Execution

3.1 NOT USED

- .1 Not Used.

END OF SECTION



Section 01 74 11 - Cleaning

Part 1 General

1.1 REFERENCES

- .1 Refer to Construction General Conditions for stipulated interpretation.

1.2 PROJECT CLEANLINESS

- .1 Maintain Work in tidy condition, free from accumulation of waste products and debris, other than that caused by Owner or other Contractors.
- .2 Remove waste materials from site at daily regularly scheduled times or dispose of as directed by Owner.
- .3 Clear snow and ice from access to building, bank/pile snow in designated areas only.
- .4 Make arrangements with and obtain permits from authorities having jurisdiction for disposal of waste and debris.
- .5 Provide on site bin containers for collection of waste materials and debris.
- .6 Dispose of waste materials and debris off site.
- .7 Clean interior areas prior to start of finishing work, and maintain areas free of dust and other contaminants during finishing operations.
- .8 Store volatile waste in covered metal containers, and remove from premises at end of each working day.
- .9 Provide adequate ventilation during use of volatile or noxious substances.
- .10 Use only cleaning materials recommended by manufacturer of surface to be cleaned, and as recommended by cleaning material manufacturer.
- .11 Schedule cleaning operations so that resulting dust, debris and other contaminants will not fall on wet, newly painted surfaces nor contaminate building systems.

1.3 FINAL CLEANING

- .1 Refer to Construction General Conditions for stipulated interpretation.
- .2 When Work is Substantially Performed remove surplus products, tools, construction machinery and equipment not required for performance of remaining Work.



- .3 Remove waste products and debris other than that caused by others, and leave Work clean and suitable for occupancy.
- .4 Prior to final review remove surplus products, tools, construction machinery and equipment.
- .5 Remove waste products and debris.
- .6 Remove waste materials from site at regularly scheduled times or dispose of as directed by Owner. Do not burn waste materials on site.
- .7 Make arrangements with and obtain permits from authorities having jurisdiction for disposal of waste and debris.
- .8 Clean and polish glass, mirrors, hardware, wall tile, stainless steel, chrome, porcelain enamel, baked enamel, plastic laminate, and mechanical and electrical fixtures. Replace broken, scratched or disfigured glass.
- .9 Remove stains, spots, marks and dirt from decorative work, electrical and mechanical fixtures, furniture fitments, walls, and floors.
- .10 Clean lighting reflectors, lenses, and other lighting surfaces.
- .11 Vacuum clean and dust building interiors, behind grilles, louvres and screens.
- .12 Wax, seal, shampoo or prepare floor finishes, as recommended by manufacturer.
- .13 Inspect finishes, fitments and equipment and ensure specified workmanship and operation.
- .14 Broom clean and wash exterior walks, steps and surfaces; rake clean other surfaces of grounds.
- .15 Remove dirt and other disfiguration from exterior surfaces.
- .16 Clean and sweep roofs, gutters, areaways, and sunken wells.
- .17 Sweep and wash clean paved areas.
- .18 Clean equipment and fixtures to sanitary condition; clean or replace filters of mechanical equipment.
- .19 Clean roofs, downspouts, and drainage systems.
- .20 Remove debris and surplus materials from crawl areas and other accessible concealed spaces.



.21 Remove snow and ice from access to building.

1.4 WASTE MANAGEMENT AND DISPOSAL

.1 Separate waste materials for reuse and recycling in accordance with Section 01 74 21 – Construction/Demolition Waste Management and Disposal.

Part 2 Products

2.1 NOT USED

.1 Not Used

Part 3 Execution

3.1 NOT USED

.1 Not Used

END OF SECTION



Section 01 74 21 – Construction Demolition and Waste Management and Disposal

Part 1 General

1.1 WASTE MANAGEMENT GOALS

- .1 Prior to start of Work conduct meeting with Owner to review and discuss PWGSC's Waste Management Plan and Goals.
- .2 Accomplish maximum control of solid construction waste.
- .3 Preserve environment and prevent pollution and environment damage.

1.2 DEFINITIONS

- .1 Class III: non-hazardous waste - construction renovation and demolition waste.
- .2 Recyclable: ability of product or material to be recovered at end of its life cycle and re manufactured into new product for reuse.
- .3 Recycle: process by which waste and recyclable materials are transformed or collected for purpose of being transferred into new products.
- .4 Recycling: process of sorting, cleansing, treating and reconstituting solid waste and other discarded materials for purpose of using in altered form. Recycling does not include burning, incinerating, or thermally destroying waste.
- .5 Reuse: repeated use of product in same form but not necessarily for same purpose. Reuse includes:
 - .1 Salvaging reusable materials from re modelling projects, before demolition stage, for resale, reuse on current project or for storage for use on future projects.
 - .2 Returning reusable items including pallets or unused products to vendors.
- .6 Salvage: removal of structural and non-structural materials from deconstruction/disassembly projects for purpose of reuse or recycling.
- .7 Separate Condition: refers to waste sorted into individual types.
- .8 Source Separation: acts of keeping different types of waste materials separate beginning from first time they became waste.



1.3 STORAGE, HANDLING AND PROTECTION

- .1 Store, materials to be reused, recycled and salvaged in locations as directed by Owner.
- .2 Unless specified otherwise, materials for removal become Contractor's property.
- .3 Protect, stockpile, store and catalogue salvaged items.
- .4 Separate non salvageable materials from salvaged items. Transport and deliver non salvageable items to licensed disposal facility.
- .5 Protect structural components not removed for demolition from movement or damage.
- .6 Support affected structures. If safety of building is endangered, cease operations and immediately notify Owner.
- .7 Protect surface drainage, mechanical and electrical from damage and blockage.
- .8 Separate and store materials produced during dismantling of structures in designated areas.
- .9 Prevent contamination of materials to be salvaged and recycled and handle materials in accordance with requirements for acceptance by designated facilities.
 - .1 On site source separation is recommended.
 - .2 Remove co mingled materials to off site processing facility for separation.
 - .3 Provide waybills for separated materials.

1.4 DISPOSAL OF WASTES

- .1 Do not bury rubbish or waste materials.
- .2 Do not dispose of waste into waterways, storm, or sanitary sewers.
- .3 Remove materials from deconstruction as deconstruction/disassembly Work progresses.

1.5 USE OF SITE AND FACILITIES

- .1 Execute work with least possible interference or disturbance to normal use of premises.

1.6 SCHEDULING



- .1 Co-ordinate Work with other activities at site to ensure timely and orderly progress of Work.

Part 2 Products

2.1 NOT USED

- .1 Not Used

Part 3 Execution

3.1 CLEANING

- .1 Remove tools and waste materials on completion of Work, and leave work area in clean and orderly condition.
- .2 Clean up work area as work progresses.
- .3 Source separate materials to be reused/recycled into specified sort areas.

3.2 CANADIAN GOVERNMENTAL DEPARTMENTS CHIEF RESPONSIBILITY FOR THE ENVIRONMENT

- .1 Schedule E Government Chief Responsibility for the Environment of British Columbia:

Address	General Inquires	Fax
Ministry of Environment #200-10470 152nd Street Surrey B.C. V3R 0Y3	604-582-5200	604-930-7119
Waste Reduction Commission Soils and Hazardous Waste 770 South Pacific Blvd, Suite 303 Vancouver BC V6B 5E7	604-660 9550	604-660 9596

END OF SECTION



Section 01 77 00 – Closeout Procedures

Part 1 General

1.1 REFERENCES

- .1 Refer to Construction General Conditions for stipulated interpretation.

2.2 ADMINISTRATIVE REQUIREMENTS

- .1 Acceptance of Work Procedures:
 - .1 Contractor's Inspection: Contractor: conduct inspection of Work, identify deficiencies and defects, and repair as required to conform to Contract Documents.
 - .1 Notify Owner in writing of satisfactory completion of Contractor's inspection and submit verification that corrections have been made.
 - .2 Request Consultant's inspection.
 - .2 Consultant's Inspection:
 - .1 Consultant and Contractor to inspect Work and identify defects and deficiencies.
 - .2 Contractor to correct Work as directed.
 - .3 Completion Tasks: submit written certificates in English that tasks have been performed as follows:
 - .1 Work: completed and inspected for compliance with Contract Documents.
 - .2 Defects: corrected and deficiencies completed.
 - .3 Equipment and systems: tested, and fully operational.
 - .4 Certificates required submitted.
 - .5 Operation of systems: demonstrated to Owner's personnel.
 - .6 Work: complete and ready for final inspection.
 - .4 Final Inspection:
 - .1 When completion tasks are done, request final inspection of Work by Consultant, and Contractor.
 - .2 When Work incomplete according to Consultant, complete outstanding items and request re-inspection.



- .5 Declaration of Substantial Performance: when Consultant considers deficiencies and defects corrected and requirements of Contract substantially performed, make application for Certificate of Substantial Performance.
- .6 Commencement of Lien and Warranty Periods: date of Owner's acceptance of submitted declaration of Substantial Performance to be date for commencement for warranty period and commencement of lien period unless required otherwise by lien statute of Place of Work.
- .7 Final Payment:
 - .1 When Consultant considers final deficiencies and defects corrected and requirements of Contract met, make application for final payment.
 - .2 Refer to CONSTRUCTION GENERAL CONDITIONS 2: when Work deemed incomplete by Consultant, complete outstanding items and request re-inspection.
- .8 Payment of Holdback: after issuance of Certificate of Substantial Performance of Work, submit application for payment of holdback amount in accordance with contractual agreement.

1.3 FINAL CLEANING

- .1 Clean in accordance with Section 01 74 11 - Cleaning.
 - .1 Remove surplus materials, excess materials, rubbish, tools and equipment.

Part 2 Products

2.1 NOT USED

- .1 Not Used

Part 3 Execution

3.1 NOT USED

- .1 Not Used

END OF SECTION



Section 11 01 00 – Heavy Equipment Rental

Part 1 General

1.1 DESCRIPTION

- .1 This section provides minimum technical specifications for equipment supplied by the Contractor.

1.2 MEASURE OF PAYMENT

- .1 Payment for each equipment will be measured using the unit from the SCHEDULE OF QUANTITIES AND PRICES.
- .2 Hourly/daily rates shall include all operator costs.
- .3 Travel costs shall be included in mobilization/demobilization items.

Part 2 Products

1.1 EQUIPMENT

- .1 No claim, demand or legal proceeding is to be brought against the Crown in respect to damage of equipment caused by negligence of the operator.
- .2 The following equipment or equivalent equipment is required for this Agreement:
 - .1 349 Cat Excavator or Equivalent
 - .1 Minimum Technical Specifications
 - .1 Bucket capacity range (heaped) from 0.4 to 1.5 cubic meters
 - .2 Standard, Ditching, and Cleanup bucket required with hydraulic thumb
 - .3 Operating weight approximately 53,000 kilograms
 - .2 Quantity - 1 (one)
 - .2 320 Cat Excavator or Equivalent – A
 - .1 Minimum Technical Specifications
 - .1 Bucket capacity range (heaped) from 0.4 to 1.5 cubic meters
 - .2 Standard, Ditching, and Cleanup bucket required with hydraulic thumb
 - .3 Operating weight approximately 21,000 kilograms



.2 Quantity - 2 (two)

.3 314 Cat Excavator or Equivalent

- .1 Minimum Technical Specifications
 - .1 Bucket capacity range (heaped) from 0.4 to 0.8 cubic meters
 - .2 Standard, Ditching, and Cleanup bucket required.
 - .3 Blade attachment required
 - .3 Operating weight approximately 14,800 kilograms
- .2 Quantity - 2 (two)

.4 D3K Cat Bulldozer or Equivalent

- .1 Minimum Technical Specifications
 - .1 Flywheel power equal to 80 horsepower
 - .2 equipped with power angle and 6 way tilt blades.
 - .3 Operating weight approximately 7,900 kilograms
- .2 Quantity - 1 (one)

.5 D7E Cat Bulldozer or Equivalent

- .1 Minimum Technical Specifications
 - .1 Flywheel power equal to 230 horsepower
 - .2 equipped with ripper attachment.
 - .3 equipped with power angle and 6 way tilt blades
 - .4 Operating weight approximately 26,000 kilograms
- .2 Quantity - 1 (one)

.6 910K Cat Wheel Loader or Equivalent

- .1 Minimum Technical Specifications
 - .1 Flywheel power equal to 93 horsepower
 - .2 Operating weight approximately 7,100 kilograms
- .2 Quantity - 1 (one)

.7 938M Cat Wheel Loader or Equivalent



- .1 Minimum Technical Specifications
 - .1 Flywheel power equal to 180 horsepower
 - .2 Operating weight approximately 16,000 kilograms
- .2 Quantity - 1 (one)
- .8 416F Cat Backhoe Loader or Equivalent
 - .1 Minimum Technical Specifications
 - .1 Flywheel power equal to 87 horsepower
 - .2 Operating weight approximately 11,000 kilograms
 - .2 Quantity - 2 (two)
- .9 279D Compact Track Loader or Equivalent
 - .1 Minimum Technical Specifications
 - .1 Flywheel power equal to 72.9 horsepower
 - .2 50% Tipping Load 1,300 kilograms.
 - .2 Quantity - 2 (two)
- .10 CS44 Vibratory Compactor or Equivalent
 - .1 Minimum Technical Specifications
 - .1 Flywheel power equal to 100 horsepower
 - .2 66in wide steel drum
 - .3 Operating Weight 7,200 kilograms.
 - .2 Quantity - 1 (one)
- .11 CS54B Vibratory Compactor or Equivalent
 - .1 Minimum Technical Specifications
 - .1 Flywheel power equal to 131 horsepower
 - .2 84in wide steel drum
 - .3 Operating Weight 10,500 kilograms.
 - .2 Quantity - 1 (one)
- .12 Tandem Dump Truck
 - .1 Minimum Technical Specifications



Minimum truck capacity of the unit being bid shall be 13 cubic meters without sideboards or 18 cubic meters with sideboards.

.2 Quantity - 2 (two)

.13 Volvo A35G Rock Truck or Equivalent

.1 Minimum Technical Specifications

.1 Minimum truck capacity of the unit being bid shall be 15 cubic meters.

.2 Flywheel power equal to 263 horsepower

.2 Quantity - 2 (two)

.3 License and inspected in accordance with provincial regulations.

.4 To be equipped with standard night working lights.

.5 Equipped with back-up beeper and horn.

.6 Repair any damage to equipment expeditiously.

.7 Maintain equipment in good running order for duration of the contract.

.8 Lubrication and fluid level checks will be carried out by the Contractor. All minor on site repairs and maintenance will be carried out by the Contractor at their expense. The Contractor shall be responsible for supplying proper fluids, lubricants, filters and tools for carrying out all on site maintenance. The Contractor shall also be responsible, at their expense, for the proper disposal of waste oils, filters and containers.

.9 Contractor's equipment operators will be fully licensed in accordance with provincial requirements and workmanship to be performed to an industry standard.

.10 Contractor to supply, at no extra charge to SCH, all POL necessary for the duration of the contract.

Part 3 Execution

3.1 IDENTIFICATION OF WORK



- .1 The Owner will identify projects requiring heavy equipment rental and provide a schedule for completion of each project.
- .2 Equipment Operators
 - .1 Operators for all heavy equipment rentals that perform services under this agreement shall be licensed for road travel as required and must be experienced/qualified for equipment to the satisfaction of the Owner.

END OF SECTION



Section 31 00 00 – Earthwork Short Form

Part 1 General

1.1 RELATED REQUIREMENTS

- .1 01 11 00 - SUMMARY OF WORK
- .2 11 01 00 - HEAVY EQUIPMENT RENTAL

1.2 REFERENCES

- .1 ASTM International
 - .1 ASTM D698-[07e1], Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400ft-lbf/ft³) (600kN-m/m³).

1.3 ADMINISTRATIVE REQUIREMENTS

- .1 Co-ordination: arrange with authority having jurisdiction for relocation of buried services that interfere with execution of work.
 - .1 Pay costs of relocating services.

1.4 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Site Quality Control Submittals: submit in accordance with Section 01 45 00 - Quality Control.

Part 2 Products

2.1 MATERIALS

- .1 Clear Crush Rock
 - .1 A uniformly graded crushed product used in the production of asphalt, pre-cast concrete, drainage, landscaping, rail ballast and slab preparations.
 - .2 12.5mm, 20mm and 75mm grades.
- .2 Grade A Road Base
 - .1 Sand, gravels, and large rock, and is good for general infill. Varies from pit to pit.
 - .2 75mm Screened Pit Run
- .3 Sand



.1 Washed sand used as backfill, trenchfill and as a pipe bedding.

.2 “Cove Sand”

.4 Rip-Rap

.1 Large shore angular rip-rap

.2 Sizing Chart:

.1 525mm x 1800mm – 4000kg

.2 400mm x 1275mm – 2000kg

.3 250mm x 800mm – 500kg

.5 Concrete Supply and Placement

GENERAL

.1 All work shall be carried out in conformance with CSA Standard CAN3.A23.1-M.

MATERIALS

.1 Cement shall be type GU.

.2 Fine aggregate shall conform to Clause 5.3 CSA Standard CAN3.A23.1-M.

.3 Coarse aggregate shall conform to Clause 5.4 CSA Standard CAN3.A23.1-M group 1.

.4 Water shall be clean and free from injurious amounts of oil, alkali, organic matter and deleterious materials.

CONCRETE MIXES

.1 All concrete shall develop a 28 day compressive strength of 35 MPa minimum, unless noted otherwise on the drawings.

.2 Minimum cement content shall be 300 kg per cubic metre.

.3 Maximum water cement ratio shall be 0.40.

.4 Air content shall be between 5% and 8%.

.5 Set retarding admixtures shall not be used unless approved by the Engineer.



- .6 The concrete mix design shall be submitted to the Engineer for approval prior to placing concrete. The mix design including admixtures shall not be changed without prior approval of the Engineer.
- .7 Exposure class of concrete shall be C-1 as per CAN/CSA A23.1-M.

PLACING, FINISHING AND CURING CONCRETE

- .1 All concrete shall be placed in accordance with the requirements of Clause 19 CSA Standard CAN3.A23.1-M and as indicated on the drawings.
- .2 All concrete shall be placed continuously between start of placement and a control joint. Control joint locations shall be proposed by the contractor and are subject to prior approval by the Engineer. Joint surfaces of cured concrete shall be roughened and thoroughly cleaned.
- .3 Accurate records shall be maintained for all cast-in-place concrete including date of placement, location, quantity, temperature and test samples taken.
- .4 The Engineer shall be notified prior to commencement of concrete placement as specified in Clause 5.0.
- .5 All defective concrete shall be removed and replaced as directed by the Engineer.
- .6 Concrete shall be vibrated adequately by means of mechanical vibrators. Rock pockets and honeycombing shall not be accepted.

Part 3 Execution

3.1 EXAMINATION

- .1 Before commencing work verify locations of buried services on and adjacent to site.

3.2 PREPARATION

- .1 Temporary erosion and sedimentation control:
 - .1 Provide temporary erosion and sedimentation control measures to prevent soil erosion and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways, according to requirements of authorities having jurisdiction.
 - .2 Inspect, repair, and maintain erosion and sedimentation control measures during construction until permanent vegetation has been established.
 - .3 Remove erosion and sedimentation controls and restore and stabilize areas disturbed during removal.



- .2 Protection of in-place conditions:
 - .1 Protect excavations from freezing.
 - .2 Keep excavations clean, free of standing water, and loose soil.
 - .3 Where soil is subject to significant volume change due to change in moisture content, cover and protect to Departmental Representative's approval.
 - .4 Protect natural and man-made features required to remain undisturbed. Unless otherwise indicated or located in an area to be occupied by new construction, protect existing trees from damage.
 - .5 Protect buried services that are required to remain undisturbed.
- .3 Removal:
 - .1 Remove trees, stumps, logs, brush, shrubs, bushes, vines, undergrowth, rotten wood, dead plant material, exposed boulders and debris within areas designated on drawings.
 - .2 Remove stumps and tree roots below footings, slabs, and paving, and to 600 mm below finished grade elsewhere.
 - .3 Remove obsolete buried services within 2 m of foundations: cap cut-offs.

3.3 EXCAVATION

- .1 Shore and brace excavations, protect slopes and banks and perform work in accordance with Provincial and Municipal regulations whichever is more stringent.
- .2 Strip topsoil over areas to be covered by new construction, over areas where grade changes are required, and so that excavated material may be stockpiled without covering topsoil.
 - .1 Stockpile topsoil on site for later use.
- .3 Excavate as required to carry out work.
 - .1 Do not disturb soil or rock below bearing surfaces.
 - .2 Notify Departmental Representative when excavations are complete.

3.4 BACKFILLING



- .1 Remove snow, ice, construction debris, organic soil and standing water from spaces to be filled.
- .2 Lateral support: maintain even levels of backfill around structures as work progresses, to equalize earth pressures.
- .3 Compaction of subgrade: compact existing subgrade under walks, paving, and slabs on grade, to same compaction as fill.
 - .1 Fill excavated areas with gravel and sand compacted as specified for fill.
- .4 Placing:
 - .1 Place backfill, fill and base course material in 150 mm lifts: add water as required to achieve specified density.
- .5 Compaction: compact each layer of material to following densities for material to [ASTM D698]:
 - .1 To underside of base courses: 95%.
 - .2 Base courses: 100%.
 - .3 Elsewhere: 90%.
- .6 In trenches:
 - .1 Up to 300 mm above pipe or conduit: sand placed by hand.
 - .2 Over 300 mm above pipe or conduit: native material approved by Departmental Representative.
- .7 Under seeded and sodded areas: use site excavated material to bottom of topsoil except in trenches and within 600 mm of foundations.

3.5 GRADING

- .1 Grade so that water will drain away from buildings, walls and paved areas, to catch basins and other disposal areas approved by Departmental Representative.

3.6 CLEANING

- .1 Progress Cleaning: clean in accordance with Section [01 74 11 - Cleaning].
 - .1 Leave Work area clean at end of each day.
 - .2 Dispose of cleared and grubbed material off site daily.



- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section [01 74 11 - Cleaning].

END OF SECTION



Public Works and Government Services Canada
REAL PROPERTY SERVICES
 Western Region
SERVICES IMMOBILIERS
 Région de l'ouest

DO NOT SCALE DRAWINGS

Fisheries & Oceans Canada
Small Craft Harbours Branch
 Pacific Division
 200 - 401 Burrard Street
 Vancouver, Canada, V6C 3S4

STEVESTON
SMALL CRAFT HARBOUR

Approved by/Approuvé par
 M.B.
 Designed by/Conçu par
 J.A.
 Drawn by/Dessiné par
 WBL
 Project Manager/Coordinateur de Projet
 PWSO
 Architectural and Engineering Services Manager/Responsable Architecture et de Services d'Ingénierie, PWSO
 Client/Client

Drawing Title/Titre de dessin

SITE LOCATION
HEAVY EQUIPMENT RENTAL

Project No./No. de projet
S-SHER

Sheet/Feuille
001
 OF

