



Invitation to Tender No. 26-009

Oceanside Place Arena 2026 Roofing Program

The Regional District of Nanaimo, hereinafter referred to as the "Regional District", invites Tenders for the Oceanside Place Arena 2026 Roofing Program.

Brief description of the project:

- a) **Roof Section 2:** Upgrade the roof surface protection with a liquid applied membrane.
- b) **Roof Section 5:** Remove & replace the single-ply roof membrane.

The work is requested to be completed by September 30, 2026.

Tenders are to be submitted **via email** in PDF format with "26-009 Oceanside Place Arena 2026 Roofing Program" as the subject line to John Marcellus, Superintendent, Arena Services at JMarcellus@rdn.bc.ca bearing the name of the firm bidding on or before on or before **3:00 p.m. local time on February 19, 2026** (the "Tender Closing"). The Regional District will not be responsible for any technological delays. It is the Tenderer's sole responsibility to ensure their Tender is received when, where and how it is specified in this document. Tenders received in any other manner will not be accepted.

A **mandatory site visit** is scheduled for **10:00 am local time on February 10, 2026**, at Oceanside Place, 830 Island Hwy W, Parksville, BC V9P 2X4. Roofing contractors will be required to sign an attendance sheet and should wear a high visibility vest and steel-toed boots. Tenders will not be accepted from bidders who were not represented at the site meeting. Bidders must be current members of the Canadian Roofing Contractor Association (CRCA).

All enquiries related to this Tender are to be directed in writing to, Joel Sharp, Alpine Roof Consulting Ltd. at jsharp@alpineroof.ca.

Tenders will not be opened in public. The Regional District may or may not post unverified bid results at its sole option.

Each Tender Form received from a Tenderer must be accompanied by a **verifiable digital E-Bid Bond** in the amount equal to TEN PERCENT (10%) of the TOTAL AMOUNT OF TENDER and a **verifiable digital Consent of Surety** as defined by the Surety Association of Canada. <https://suretycanada.com/SAC/Surety-Bonds/E-Bonding.aspx>. Scanned copies are unacceptable. The successful Tenderer will be required to submit a 50% Labour & Material Bond and a 50% Performance Bond.

Tenders must remain valid for sixty (60) days following the closing time and date.

The Regional District reserves the right to reject any or all tenders, and to accept the tender deemed most favourable in the interests of the Regional District.

The lowest or any tender may not be accepted.

This procurement is subject to Chapter 5 of the Canadian Free Trade Agreement. The Regional District's language in its procurement documents shall be English.



Regional District of Nanaimo

Invitation to Tender No. 26-009

Oceanside Place Arena 2026 Roofing Program

Issue Date: February 3, 2026

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PART 1 INVITATION**1.1 INVITATION TO TENDER**

The Regional District of Nanaimo (the “Regional District”) invites tenders for the Oceanside Place Arena 2026 Roofing Program.

1.2 DESCRIPTION OF WORK

- a) **Base Bid Roof Section 2:** Upgrade the roof surface protection with a liquid applied membrane roofing system.
- b) **Base Bid Roof Section 5:** Remove & replace the single-ply roof membrane.
 - a. **Optional Bid Roof Section 5:** Replace ballast with new.

1.3 TENDER SUBMISSION

- 1.3.1 Tenders will be submitted **via email** in PDF format with “26-009 Oceanside Place Arena 2026 Roofing Program” as the subject line to John Marcellus, Superintendent, Arena Services at JMarcellus@rdn.bc.ca bearing the name of the firm bidding on or before on or before **3:00 p.m. local time on February 19, 2026** (the “Tender Closing”). The Regional District will not be responsible for any technological delays. It is the Tenderer’s sole responsibility to ensure their Tender is received when, where and how it is specified in this document.
- 1.3.2 Electronically submitted Tenders will be deemed to be successfully received at the time as posted on the incoming email on the RDN’s server.
- 1.3.3 Tenders received after the Tender Closing date and time will not be considered by the Regional District.
- 1.3.4 The submission of a Tender constitutes the agreement of the Tenderer to be solely responsible for all costs and expenses incurred by it in preparing and submitting its Tender, including any costs incurred by the Tenderer after the Tender Closing.

PART 2 PRE-TENDER ENQUIRIES AND ADDENDA**2.1 Enquiries should be addressed to:**

Joel Sharp, Alpine Roof Consulting Ltd. at jsharp@alpineroof.ca

Please Note: The Consultant named above is the only valid contact for enquiries. No explanation, interpretation, or clarification of the Tender Documents by any other person whatsoever shall bind the Regional District in the interpretation of the Tender Documents.

- 2.2 Any requests for explanations, interpretations or clarifications made by Tenderers should be submitted in writing to the Regional District at least five (5) calendar Days before Tender Closing to allow enough time for a response.
- 2.3 If the Regional District, in the Regional District's sole discretion, determines that a clarification, addition, deletion or revision of the Tender Documents is required then the Regional District will issue a written addendum. Notice of the issuance of a written addendum, and the issued written addendum, will be posted on the Regional District of Nanaimo website www.rdn.bc.ca/current-bid-opportunities and the BC Bid website www.bcbid.gov.bc.ca. It is the sole responsibility of all prospective Tenderers to check for any addenda prior to submitting their Tender.
- 2.4 All Addenda issued by the Regional District shall be incorporated into and become part of the Tender Documents.
- 2.5 If a Tenderer finds any errors, omissions, or discrepancies in the Tender Documents, it shall immediately notify the Regional District's named contact in writing.
- 2.6 No oral explanation, interpretation, or clarification of the Tender Documents by any person whatsoever shall bind the Regional District in the interpretation of the Tender Documents.

PART 3 INSPECTION OF SITE

- 3.1 It is the responsibility of the Tenderer to examine the Work Site before submitting a Tender. It is the Tenderer's responsibility to be familiar with and allow for all site conditions which might affect the Work and the Tender. The Regional District will not grant, and the Tenderer will not be entitled to any additional payments or extensions of time due to site conditions which were or would have been reasonably foreseeable upon a proper inspection of the Work Site by the Tenderer.
- 3.2 The submission of a Tender by the Tenderer shall be deemed to be an acknowledgement that the Tenderer has relied and is relying on its own examination of the Work Site, and all other matters related to the completion of Work.
- 3.3 The Tenderer shall comply with all applicable regulations of the Workers' Compensation Board of British Columbia while attending the Work Site.

PART 4 COMPLETION OF TENDER DOCUMENTS

- 4.1 The Tenderer should complete the Tender Form in ink or in type.
- 4.2 All prices are to be in Canadian currency. Prices shall include all necessary costs including but not limited to supply, fabrication and finishing, conveyance and delivery to the Work Site, packing, crating, freight, cartage, shipping charges, unloading, installation, overhead, profit and all tariffs, duties, and taxes (excluding GST) unless otherwise indicated, including British Columbia Provincial Sales Tax. The Federal Goods and Services Tax (GST) shall be shown as a separate item on the Tender Form.

PART 5 BID SECURITY

- 5.1 The Tenderer shall submit, with its Tender, a deposit in the form of a **verifiable digital bid bond** (the "Bid Bond") in favour of the Regional District of Nanaimo signed and sealed by the Tenderer and the Tenderer's Surety. The form of Bid Bond shall be in the form acceptable to the Regional District. The Bid Bond shall equal ten percent (10%) of the Tender Price. A **verifiable digital Consent of Surety** shall also be submitted with the Tender. <https://suretycanada.com/SAC/Surety-Bonds/E-Bonding.aspx>.
- 5.2 The Regional District will retain the Bid Bond of the successful Tenderer until:
- (1) the successful Tenderer has executed the Agreement;
 - (2) the successful Tenderer has provided all bonding and documentation in accordance with Section 00100, Clauses 15.2 and 15.3.
- 5.3 All bonds and documentation required shall be issued by a company licensed to transact business in the Province of British Columbia. **The Bonds and Consent of Surety must be verifiable and in a digital format as defined by the Surety Association of Canada. Scanned copies, photocopies, and facsimiles, including those under seal, may result in the rejection of the Tender.**

PART 6 BID RIGGING

- 6.1 The Tenderer's attention is directed to the Competition Act which provides that bid-rigging as defined in the Act is an indictable offence punishable upon conviction by a fine or imprisonment or both.
- 6.2 The Tenderer shall not engage in collusion of any sort and shall ensure that no person or other legal entity, other than the bidder has an interest in the bidder's tender and prepare the tender without any knowledge of, comparison of figures with, or arrangement with any other person or firm preparing a Tender for the same work.

PART 7 SOLICITATION

- 7.1 The Tenderer may not make any representations or solicitations to any director, officer, or employee of the Regional District with respect to the Tender either before or after submission of the Tender except as provided herein. If any director, officer, employee, agent sub-contractor, supplier or other representative of the Tenderer communicates with any director, officer or employee of the Regional District or any consultant engaged by the Regional District in connection with this Invitation to Tender about this Invitation to Tender, other than the person named under Part 2 – Pre-Tender Enquiries and Addenda, the Regional District shall have the unfettered right, regardless of the nature of the communication, to reject the Tender submitted by the Tenderer.

PART 8 CONDITIONS OF TENDER

- 8.1 Tenders which contain qualifying conditions or otherwise fail to conform to the requirements of the Tender Documents may be disqualified or rejected. The Regional District may, however, in its sole discretion, reject or retain for its consideration Tenders which are non-conforming because they do not contain the content or form required by the Tender Documents or for failure to comply with the process for submission set out in this Section 00100.

PART 9 SUBMISSION OF TENDER

- 9.1 All Tenders shall be signed by authorized officers.
- 9.2 It is solely the responsibility of the Tenderer to ensure that it has obtained, prior to the Tender Closing, all Addenda issued by the Regional District.
- 9.3 The Regional District may not accept an amendment to a previously submitted Tender unless:
- (1) it is in writing;
 - (2) it is electronically received via email prior to the Tender Closing with the email entitled: "26-009 Oceanside Place Arena 2026 Roofing Program—Tenderer's Name".
 - (3) it indicates a change to a Tender already submitted; and
 - (4) it is signed by the person or persons who signed the original Tender.
- 9.4 Tenderers shall be solely responsible for the completion and delivery of Tenders and any amendments in the manner and time specified. No extension of the Tender Closing will be given to accommodate Tenderers or amendments to Tenders that do not comply with the requirements of Section 00100.

PART 10 VARIATION TO TENDER DOCUMENT

- 10.1 If the Tenderer wishes to propose any variations to the specifications and/or terms and conditions, it should submit the proposed variations to the contact person for enquiries as identified in Section 00100, Clause 3.1 at least ten (10) calendar Days before the Tender Closing, otherwise the variations may not be considered by the Regional District. The acceptability of any such variations will be at the Regional District's sole and unfettered discretion.
- 10.2 Requested variations should be submitted in sufficient detail to facilitate evaluation by the Regional District.
- 10.3 Approved variations will be incorporated in the specifications and/or terms and conditions by the issuance of Addenda posted on the RDN website and BC Bid website.
- 10.4 Unless otherwise expressly stated in the Tender, the Tenderer agrees to accept without reservation or amendment, the whole of the specifications and Tender Documents.
- 10.5 If the Regional District stipulates a completion date herein, and the Tenderer is unable to commit to this date, the Tenderer may submit a Tender Form stating the Tenderer's best possible completion. The acceptability of such completion date will be at the Regional District's sole and unfettered discretion and may be justification for rejecting the Tender.

PART 11 IRREVOCABILITY OF OFFER

- 11.1 The Tender submitted by the Tenderer shall be irrevocable and remain open for acceptance by the Regional District for a period of 60 Days from the Tender Closing, whether another Tender has been accepted or not. If at any time after 60 Days from the Tender Closing, the Tenderer has not revoked its Tender in writing, the Regional District may accept the Tender.
- 11.2 If a Tenderer, for any reason whatsoever, purports to revoke its Tender within 60 Days from the Tender Closing, or if for any reason whatsoever a successful Tenderer does not execute and deliver the Agreement, the Regional District, without limiting any other remedy it may have under the Tender Documents or otherwise, shall be entitled to:
- (1) exercise its rights under any Bid Bond and retain the amount payable to the Regional District under the Bid Bond as liquidated damages; or
 - (2) require the Tenderer to pay to the Regional District an amount equal to the difference between the Tender price of its Tender and any other Tender which is accepted by the Regional District, if such other Tender is for a greater price, plus the total of all costs, expenses, and damages, including legal fees on a solicitor

and own client basis, incurred by the Regional District because of or related to such revocation or failure by the Tenderer.

PART 12 TENDER OPENING

- 12.1 **Tenders will not be opened in public.** The Regional District of Nanaimo may or may not post unverified bid results at its sole option. The Regional District of Nanaimo wishes to thank all Tenderers for their effort in responding to this opportunity.

PART 13 ACCEPTANCE AND REJECTION OF TENDERS

- 13.1 Notwithstanding any other provision in the Tender Documents, any practice or custom in the construction industry, or the procedures and guidelines recommended for use on publicly funded construction projects, the Regional District, in its sole discretion, shall have the unfettered right to:
- (1) accept any Tender;
 - (2) reject any Tender;
 - (3) reject all Tenders;
 - (4) accept a Tender which is not the lowest Tender;
 - (5) reject a Tender even if it is the only Tender received by the Regional District;
 - (6) accept all or any part of a Tender; and
 - (7) award all or a portion of the Work to any Tenderer.
- 13.2 If a Tender contains a defect or fails in some way to comply with the requirements of the Tender Documents, which in the sole and unfettered discretion of the Regional District is not material, the Regional District may waive the defect and accept the Tender. Bids that are unsigned, improperly signed, conditional, illegible, obscure, contain erasures, alterations, irregularities or fail to include Bonding and Consent of Surety in the form requested may be rejected by the Regional District. The Regional District reserves the right to correct any mathematical extension errors.
- 13.3 Awards shall be given on Tenders that will, in the opinion of the Regional District, give the greatest value based on quality, service, price and time of completion. In determining what constitutes greatest value, the Regional District may consider its previous experience with the Tenderer. Without limiting the generality of the foregoing, the Regional District may consider: the quality of work; the timeliness of completion; the number, scope, and reasonableness of requested change orders; public impact; compliance with applicable health, safety, labour, and environmental laws; environmental and social practices; and the number and reasonableness of any claims. The Regional District's previous experience with the Tenderer regarding its competence and cooperation may also be taken into consideration in determining greatest value.

The Regional District reserves the right to rely upon its records, references, and recollections in this regard. The Regional District may also obtain references other than those provided by the Tenderer and may use these references in determining greatest value.

- 13.4 The Regional District, in its sole discretion, reserves the right to reject the Tender in the event the Regional District determines, acting reasonably on the information available to it, that the Tenderer is in material non-compliance with, or has been convicted of a material offence or violation of, health, safety, labour or environmental laws. The Regional District's judgment in this regard will be final.
- 13.5 The Regional District will notify the successful Tenderer in writing that its Tender has been accepted (the "Notice of Intent to Award").
- 13.6 No information about an award of a contract will be given out between the time of opening and the time an award has been made.

PART 14 SUCCESSFUL TENDERER REQUIREMENTS:

- 14.1 The successful Tenderer should execute and deliver the Agreement to the Regional District within seven (7) business days after it has received the Agreement from the Regional District such time limit being extended only with the written approval of the Regional District.
- 14.2 The successful Tenderer should submit to the Regional District of Nanaimo the following original documentation (facsimile or photocopy copies not acceptable) within seven (7) business days of the notification of the successful Tender under Section 00100, Clause 14.5:
- (1) Original Performance Bond and Labour and Material Payment Bond (the "Bonds") each of which shall equal fifty percent (50%) of the Total Contract Price, issued by a Surety licensed to transact the business of suretyship in the Province of British Columbia, in favour of the Regional District, signed and sealed by the successful Tenderer and the Tenderer's Surety. The form of Performance Bond and Labour and Material Payment Bond shall be in a form acceptable to the Regional District. The Performance Bond shall encompass the Warranty and Guarantee period and shall, in any event, be in effect for no less than two (2) years from the date of issuance of the Notice of Acceptance.
 - (2) A certificate of General Liability insurance pursuant to "CCDC 41 – 2020 Insurance Requirements" with the Regional District of Nanaimo named as additionally insured.
 - (3) A Workers' Compensation Board Clearance Letter of Clearance indicating good standing and remittance up to date.

- 14.3 The successful Tenderer shall not commence the Work until it has received a Notice to Proceed issued by the Regional District.

PART 15 AWARD OF CONTRACT

- 15.1 All contracts require the approval of the appropriate Regional District authority prior to award. Where a contract requires the approval of the Regional District's Board prior to award, the total price of any Tender and the reason for selecting the successful Tenderer may be released at a regular meeting of the Regional District's Board or a Committee of the Board.
- 15.2 Notwithstanding Clause 17.1(4) below, the Regional District reserves the right to release to the public the total price of any Tender, regardless of whether it was identified by the Tenderer as confidential. By submitting a Tender, each Tenderer consents to the release of the total price and, where applicable, information disclosable under the Act that is relevant to the selection of the successful Tenderer, to provide transparency in relation to expenditures of this type.

PART 16 FORM OF CONTRACT

- 16.1 The successful contractor will be expected to enter a CCDC2-2020 Stipulated Price Contract as amended herein in the "Supplementary General Conditions" section 00500.

PART 17 CONFIDENTIALITY AND SECURITY

- 17.1 The following conditions apply:
- (1) The Tender Documents, or any portion thereof, may not be used for any purpose other than submission of Tenders; and
 - (2) The successful Tenderer must agree not to divulge or release any information that has been given to it or acquired by it on a confidential basis while carrying out the Work or performing its services.
 - (3) It is the Regional District's policy to maintain confidentiality with respect to all confidential information related to the Tender, but the Tenderer acknowledges and agrees that the Tender becomes the property of the Regional District and any confidential information disclosed by it to the Regional District may be subject to a request for public disclosure under *the Freedom of Information and Protection of Privacy Act, R.S.B.C. 1996, c.165*, as amended from time to time (in this Clause and Clause 17.2, the "Act").
 - (4) The Tenderer acknowledges that the Act provides an exemption from disclosure for information as specified in Section 21 of the Act. Accordingly, if any information supplied to the Regional District fits within Section 21 of the Act, the

Tenderer must specifically advise the Regional District and request the Regional District not to disclose that information, however confidentiality cannot be guaranteed. The successful contractor and award value is routinely released.

PART 18 DISCLAIMERS/LIMITATIONS OF LIABILITY

- 18.1 Neither acceptance of a Tender nor execution of an Agreement shall constitute approval of any activity or development contemplated in any Tender that requires any approval, permit, or license pursuant to any federal, provincial, regional district or municipal statute, regulation, or bylaw. It is the responsibility of the Contractor to obtain such prior commencement of the Work.
- 18.2 The Regional District, its directors, officers, servants, employees, agents, and consultants expressly disclaim all liability for representations, warranties, express or implied or contained in, or for omissions from this Tender or any written or oral information transmitted or made available at any time to a Tenderer by or on behalf of the Regional District. Nothing in this Tender is intended to relieve a Tenderer from forming its own opinions and conclusions in respect of this Tender.
- 18.3 Except as expressly and specifically permitted in these Instructions to Tenderers, no Tenderer shall have any claim for any compensation of any kind whatsoever, because of participating in this Invitation to Tender, and by submitting a Tender each Tenderer shall be deemed to have agreed that it has no claim.

PART 19 SUSTAINABLE PURCHASING PRACTICES

- 19.1 It is the Regional District's policy to ensure that procurement decisions for the supply of goods, services and construction consider economic considerations, as well as the Tenderer's environmental and social practices. The Regional District expects that each Tenderer has and will comply with internationally recognized labour conventions and recommendations of the International Labour Organization (ILO), of which Canada is a member, and any applicable legislation pertaining to workplace safety, health, labour and employment, human rights, and the environment. In Canada this includes but is not limited to the latest editions of the following: *Corruption of Foreign Public Officials Act* (Canada), *Human Rights Code* (BC), *Employment Standards Act*, *Workers Compensation Act* (BC), *Canadian Environmental Protection Act*, *Fisheries Act* (Canada), *Transportation of Dangerous Goods Act* (BC), *Transportation of Dangerous Goods Act*, (Canada), *Environmental Management Act* (BC).

PART 20 PRIME CONTRACTOR

- 20.1 The successful Contractor shall be deemed to be the Prime Contractor within the meaning of Part 3, Division 3, Section 118(1) of the Workers Compensation Act. The successful Contractor must be qualified and willing to assume this responsibility.

PART 21 HOURS OF WORK

- 21.1 The hours of work shall be at the discretion of the Owner, and in accordance with the local bylaws.

PART 22 CONFLICT OF INTEREST

- 22.1 The Tenderer declares that it has no financial interest, directly or indirectly in the business of any third party that would be or be seen to be a conflict of interest in carrying out the services. It warrants that neither it nor any of its officers or directors, or any employee with authority to bind the Bidder, has any financial or personal relationship or affiliation with any elected official or employee of the Regional District or their immediate families which might in any way be seen by the Regional District to create a conflict.

PART 23 LITIGATION CLAUSE

- 23.1 The RDN may, in its absolute discretion, reject a Tender, if the Tenderer, or any officer or director of the Tenderer is or has been engaged either directly or indirectly through another corporation in legal action against the RDN, its elected or appointed officers and employees in relation to:
- (a) any other contract for works or services; or
 - (b) any matter arising from the RDN's exercise of its powers, duties, or functions under the Local Government Act, Community Charter, or another enactment within five years of the date of this Bid Call.

In determining whether to reject a Tender under this clause, the RDN will consider whether the litigation is likely to affect the Tenderer's ability to work with the RDN, its consultants and representatives and whether the RDN's experience with the Tenderer indicates that the RDN is likely to incur increased staff and legal costs in the administration of this Contract if it is awarded to the Tenderer.

END OF SECTION

PART 1 TENDERER'S NAME

This Tender for Tender No. 26-009 Oceanside Place Arena 2026 Roofing Program, is hereby submitted by:

Company Name of Tenderer (please print)

Address of Tenderer

Telephone Number of Tenderer

Email Address of Tenderer

GST Registration Number

Authorized Signature

Date

Print Name

(the "Tenderer")

Email Tender Form, Verifiable digital Bid Bond and Verifiable Digital Consent of Surety to John Marcellus, Superintendent, Arena Services at

JMarcellus@rdn.bc.ca

PART 2 TENDER DOCUMENTS

2.1 The Tender Documents for this Contract include the following:

- (1) All documents listed in Section 00001, Table of Contents
- (2) Issued Addenda

PART 3 TENDERER'S DECLARATIONS

3.1 The Tenderer declares that it has read and understood and agrees to be bound by the Tender Documents.

- 3.2 The Tenderer declares that it has fulfilled and complied with all those obligations and requirements under the Tender Documents which are required to be fulfilled by the Tender Closing.
- 3.3 The Tenderer confirms, represents, and warrants that all information which it has provided or will provide to the Regional District is true and accurate in every respect.
- 3.4 If the Tender is accepted by the Regional District, the Tenderer shall commence the Work within 7 calendar Days of issuance of Notice to Proceed from the Regional District, unless the Notice to Proceed states otherwise. The Tenderer agrees to substantially complete the work by September 30, 2026.
- 3.5 The Tenderer agrees to be designated to be the Prime Contractor within the meaning of Part 3, Division 3, Section 118(1) of the Workers Compensation Act and is qualified and willing to assume this responsibility.
- 3.6 The Tenderer agrees it is a current member of the Canadian Roofing Contractor Association (CRCA).
- 3.7 The Tenderer agrees to comply with all applicable laws, bylaws, codes, and regulations of the authorities having jurisdiction during the performance of the Work of the Contract.
- 3.8 The Tenderer declares they are competent, experienced, and qualified to perform all the Work of the Contract in accordance with the Bid Documents, Specifications, and Drawings.
- 3.9 The Tenderer declares this bid is based upon and includes performance of all the Work of the Contract in complete accordance with the Bid Documents, Specifications, and Drawings without exception.
- 4.0 The Tenderer declares this bid price includes all our costs and obligations stemming from the complete performance of all of the Work of the Contract, according to the Bid Documents, Specifications, and Drawings.
- 4.1 The Tenderer acknowledges and agrees the Regional District reserves the right to reject any or all tenders, and to accept the tender deemed most favourable in the interests of the Regional District. The lowest or any tender may not be accepted.
- 4.2 Tenders shall be open to acceptance by the Regional District for a period of sixty (60) days from the time and date of the bid closing. All prices are in Canadian currency.
- 4.4 The Tenderer hereby submits a lump sum price as required by the specifications and agrees that this price will be used for payment of work through approved Progress Payments. Any Extra Work will require a change order procedure. The Tenderer agrees that the prices quoted shall remain in force until the date of completion of the Contract.

- 4.5 The Tenderer confirms that the Tender Price includes all necessary costs including but not limited to supply, fabrication and finishing, conveyance and delivery to Site, packing, crating, freight, cartage, shipping charges, off-loading, installation, construction, drafting charges, labour, overhead, profit, etc. and all tariffs, duties and taxes unless otherwise indicated, including British Columbia Provincial Sales Tax. The applicable Federal Goods and Services Tax (GST) shall be shown as a separate item to the Tender Price.
- 4.6 The Tenderer agrees that the progress of the Work will be measured by the Regional District or its authorized representative, whose decision will be final.

A. STIPULATED LUMP SUM PRICING

DESCRIPTION	PRICE (\$)
ROOF SECTION 2 BASE SCOPE	\$
ROOF SECTION 5 BASE SCOPE	\$
ROOF SECTION 5 WET INSULATION ALLOWANCE (2.5" POLYISO - 5% OF ROOF AREA)	\$
GOODS AND SERVICES TAX @ 5%	\$
TOTAL PRICE	\$

The TOTAL PRICE stated above will be used to compare submitted Tenders to establish the low bidder. The Regional District reserves the right to check the above extensions and additions and to make corrections as necessary. In the event a correction is made by the Regional District the corrected figure shall prevail and be used as the Tender Price in the Tenderer's Offer.

B. OPTIONAL ADDITIONAL PRICING (At the Regional District's sole discretion to accept or not)

DESCRIPTION	PRICE (\$)
ROOF SECTION 5 – REPLACE EXISTING BALLAST WITH NEW	\$
GOODS AND SERVICES TAX @ 5%	\$
TOTAL PRICE	\$

DESCRIPTION	PRICE (\$)
ROOF SECTION 5 – ADD 4% POLYISO INSULATION CRICKETS WHERE SHOWN ON DRAWINGS.	\$
GOODS AND SERVICES TAX @ 5%	\$
TOTAL PRICE	\$

HOURLY & UNIT RATES

If chargeable additional work is authorized by the Regional District, the following rates shall apply:

Supervisor \$_____ per hour

Qualified Tradesperson \$_____ per hour

Labourer \$_____ per hour

COMPLETION

All 2026 work as specified will be 100% complete by no later than _____

Part 1 GENERAL

1.1 PROJECT INFORMATION

- .1 The name of the project is:

Oceanside Place Arena 2026 Roofing Program
- .2 The location of the work site is:

830 Island Highway W, Parksville, BC V9P 2X4

1.2 PARTIES

- .1 The Owner is:

Regional District of Nanaimo
6300 Hammond Road
Nanaimo, BC V9T 6N2
- .2 The Consultant is:

Alpine Roof Consulting Ltd.
Joel Sharp, Civ.Tech., ARCA Accepted Inspector
Email: jsharp@alpineroof.ca
- .3 Direct inquiries to the Consultant.

1.3 BIDDING REQUIREMENTS

- .1 Refer to Section 00100 Instructions to Tenderers.

1.4 CONTRACT SECURITY

- .1 Upon acceptance of the Bid, and prior to the Owner's entering into a contract agreement, the retained Bidder shall submit contract security in the form of two project specific bonds to the Owner from a Surety provider authorized to provide surety in the jurisdiction of the work. Those two bonds shall be as follows:
 - .1 A Performance Bond for 50% of the Total Bid Price.
 - .2 A Labour and Material Payment Bond for 50% of the Total Bid Price.
- .2 No other form of contract security shall be accepted.

1.5 INSURANCE REQUIREMENTS

- .1 The successful contractor shall have in force a Comprehensive General Liability insurance policy with a limit of minimum **TEN MILLION CANADIAN DOLLARS**, provided by a credible insurance provider with the Regional District of Nanaimo named as additionally insured on the certificate. Refer to the CCDC41-2020 Insurance Requirements.

1.6 WORKSAFE BC (WSBC) ACCOUNT

- .1 The successful contractor shall have an account in good standing with WorkSafeBC (WSBC).
- .2 A Clearance Letter from the WSBC shall be submitted prior to the Owner's entering into a contract agreement, and upon request for the duration of the project.

1.7 FORM OF CONTRACT

- .1 The form of contract shall be Canadian Construction Documents Committee CCDC 2 (2020) Stipulated Price Contract as amended by the Supplementary General Conditions.

1.8 DOCUMENT PRECEDENCE

- .1 The precedence of documents shall be as follows:
 - .1 Contract Agreement
 - .2 Supplementary General Conditions
 - .3 Executed Tender Form
 - .4 Most recent Addendum followed by other Addenda, the more recent taking precedence over earlier Addenda
 - .5 Specifications
 - .6 Drawings
 - .7 Instructions to Tenderers

Part 2 SAFETY

2.1 PRIME CONTRACTOR

- .1 The successful Contractor must be qualified and willing to be designated as the Prime Contractor and shall fulfill the Prime Contractor responsibilities. The successful Contractor shall submit formal acceptance of that role in writing.
- .2 The Work Site shall be defined as the roof, and the areas on the ground which are within the Prime Contractor's control and affected by the Work.
- .3 The Prime Contractor shall be solely responsible for defining, identifying, limiting access to, or otherwise controlling the Work Site.
- .4 The Prime Contractor shall be solely responsible for the safety of all persons on the Work Site.
- .5 The Prime Contractor shall dictate the rules and policies regarding safety on the Work Site.
- .6 All persons on the Work Site shall report to and comply with the requirements of the Prime Contractor.

- .7 The Prime Contractor shall be solely responsible for enforcing the requirements of the Occupational Health and Safety Act on the Work Site.

2.2 WIND

- .1 The Contractor shall be solely responsible for securing all object on the Work Site from blowing in wind.
- .2 At all times, the Contractor shall prevent all objects on the Work Site from moving out of control due to wind.

2.3 OVERLOADING

- .1 The Contractor shall be solely responsible for not overloading any part of the structure.
- .2 Do not place materials, equipment, or other objects on top of the structure in excess of the structure's capacity to bear the load.
- .3 Accept responsibility for any damages resulting from overloading the structure.

2.4 WORKER QUALIFICATIONS

- .1 Every installation will have a minimum on one journeyman on site at all times.

Part 3 ADMINISTRATIVE REQUIREMENTS

3.1 PERMITS

- .1 The contractor shall apply for and obtain any permits required from the authority having jurisdiction. The cost of any required permits shall be included in the contract price.

3.2 HOURS OF WORK

- .1 The hours of work shall be at the discretion of the Owner, and in accordance with the local bylaws.

3.3 INVOICING

- .1 See CCDC2 Contract and Supplementary Conditions.

3.4 LIEN HOLD BACK

- .1 Ten per cent (10%) Builders Lien Holdback shall be deducted from each progress invoice.
- .2 Fifty-five (55) days after the date of receipt of the written declaration of Substantial Performance, and if the declaration of Substantial Performance is not disputed, the contractor may submit an invoice for the amount of the Builders Lien Holdback withheld to that date.

3.5 PAYMENT

- .1 See CCDC2 Contract and Supplementary Conditions.

Part 4 EXTRAS

4.1 UNFORESEEN CONDITIONS

- .1 See CCDC2 Contract and Supplementary Conditions.

4.2 CONTRACTOR PROPOSED CHANGES

- .1 See CCDC2 Contract and Supplementary Conditions.

4.3 CONTEMPLATED CHANGE NOTICES

- .1 See CCDC2 Contract and Supplementary Conditions.

4.4 CHANGE ORDERS

- .1 See CCDC2 Contract and Supplementary Conditions.

4.5 TIME AND MATERIALS WORK

- .1 See CCDC2 Contract and Supplementary Conditions.

Part 5 USE OF THE PREMISES

5.1 WORKER CONDUCT

- .1 Workers are strictly forbidden from attending the property while under the influence of alcohol, cannabis, or other intoxicating drugs. Possession, use, or consumption of alcohol, cannabis, or other intoxicating drugs on the property is strictly forbidden.
- .2 Smoking and vaping are not permitted on the property. Workers wishing to smoke or vape must do so off of the property.
- .3 Workers shall be required to refrain from using loud and profane language. Music at a lower volume is permitted.
- .4 Clothing bearing offensive images or text are not permitted on the property. At the discretion of the Owner's Representative, workers shall, upon request, remove objectionable clothing.

5.2 FENCING

- .1 The contractor shall erect a temporary fence to enclose and limit access by the public to all areas on the ground adjacent to the building and below the work site on the roof.
- .2 Placement of the fence shall be at the discretion of the Owner's Representative. Co-ordinate the placement of the fence with the Owner's Representative.

5.3 PROTECTION OF PROPERTY

- .1 Protect property, including but not limited to sidewalks and curbs, landscaping, windows, and building exterior finishes, from damage during the performance of the work.

- .2 Repair any damages caused as a result of the performance of the work to the acceptance of the Owner's Representative.

5.4 PARKING

- .1 At the discretion of the Owner, trucks, trailers, and equipment may be parked on the property as may be necessary for the performance of the work. Obtain permission from the Owner's Representative for all parking on the property.
- .2 Worker's personal and work vehicles are to be arranged in conjunction with the owner.

5.5 SANITARY FACILITY

- .1 Workers may not use the facilities inside the building.
- .2 The Contractor shall provide a suitable temporary sanitary facility for the use of the workers and maintain in a clean condition.

5.6 SECURITY

- .1 The Contractor shall be solely responsible for securing all object on the Work Site from blowing in wind. At all times, the Contractor shall prevent all objects on the Work Site from moving out of control due to wind.
- .2 The Contractor shall be solely responsible for the security of the Work Site while it is under his control, and for the security of his property. The contractor leaves his property on the Owner's property at his own peril, including but not limited to vehicles, tools, equipment, and construction materials.
- .3 The Contractor accepts that the Owner shall not be liable for any loss of or damage to the Contractor's property from any cause, including but not limited to theft, vandalism, fire, lightning, or weather event.

5.7 ACCESS TO THE ROOF

- .1 Access to the roof shall be by exterior temporary ladder, which shall be supplied by and shall be the sole responsibility of the Contractor.
- .2 Workers shall not be permitted to enter the building except for specifically necessary tasks related to the performance of the work. Prior to entering the building, workers shall obtain permission from the Owner's Representative and comply with the Owner's instructions.

Part 6 CONSTRUCTION REQUIREMENTS

6.1 EQUIPMENT

- .1 The Contractor shall supply all required ladders, hoists, tools, power cords, generators, and equipment to perform and execute the work of the contract.

6.2 ELECTRICITY

- .1 The Contractor shall use his own portable generators and fuel to produce all electricity required for the performance of the work.

6.3 WATER

- .1 Water to be supplied by owner.

6.4 WASTE MANAGEMENT

- .1 The Contractor shall remove all demolished materials, packaging, and other waste from the site and dispose of in accordance with the requirements of the authority having jurisdiction.
- .2 The cost of all waste disposal shall be included in the Bid Price.

6.5 QUALITY CONTROL

- .1 The Consultant shall conduct periodic visual reviews of the work. Correct any deficiencies identified by the Consultant. Costs are covered by Owner.
- .2 The Contractor shall be solely responsible for ensuring that the finished construction conforms to the specifications, drawings, and the referenced standards.
- .3 Construction which does not conform to the specifications, drawings, and the referenced standards shall be deemed to be deficient. Deficient construction shall be promptly corrected by the Contractor. No claims for extras shall be considered for correction of deficient work. Payment shall not be authorized for deficient construction.

6.6 PROGRESS CLEANING

- .1 Contain waste and debris.
- .2 Maintain the work site is a neat and tidy condition acceptable to the Owner.

6.7 FINAL CLEANING

- .1 Remove all equipment, waste, and debris from the site.
- .2 Clean any surfaces or property which were marred during the performance of the work.
- .3 Leave the site in a condition acceptable to the Owner.

END OF SECTION

1.1 PREREQUISITES

- .1 Examine the site. Verify existing conditions. Accept the specifications and drawings. Notify the Consultant of any discrepancies or concerns with the design.
- .2 Accept the role of Prime Contractor for the Work Site for the purposes of the Occupational Health and Safety Act.
- .3 Closely co-ordinate with the Owner's Representative and the Consultant throughout the duration of the project.

1.2 SCHEDULE

- .1 Mobilize, deliver all required materials, and commence the work as per the Notice to Proceed. Some mobilization or preparatory work may commence prior to that date at the sole discretion of the Owner. For any work prior to that date, request permission and closely co-ordinate with the Owner's Representative.
- .2 Complete the scope of work and demobilize from the site by September 30, 2026. If this condition is not met, then the Owner may submit in writing to the Contractor's surety provider that unsatisfactory progress is being made.
- .3 Minor detail work and metal flashing installation may continue after September 30, 2026 at the sole discretion of the Owner. For any work after that date, request permission and closely co-ordinate with the Owner's Representative.

1.3 EXTENT OF WORK

- .1 **Base Bid Pricing:**
 - .1 Upgrade the roofing membrane surface with a liquid applied membrane on **Roof Section 2** in accordance with these specifications and drawings.
 - .2 Replace the roofing membrane on **Roof Section 5** in accordance with these specifications and drawings.
 - .3 Include an allowance on **Roof Section 5** for replacing anticipated wet 2.5" PolyISO insulation (5% of roof area).
- .2 **Optional Pricing:**
 - .1 Provide an optional cost for new ballast on **Roof Section 5** if the existing ballast is deemed to not be re-usable. Include all costs related to removal and disposal of the existing ballast.
 - .2 Provide an optional cost for new 4% sloped polyisocyanurate insulation crickets on **Roof Section 5**, where shown on the drawings.

1.4 SCOPE OF WORK

- .1 Remove the existing roofing assemblies, sheet metal flashings, and related accessories on the specified roof sections in accordance with these specifications. Refer to Section 02 41 19 Selective Demolition.
- .2 **Roof Section 2** – Apply liquid applied roofing restoration systems in accordance with Liquid Applied Membrane Section 07 01 50 and in accordance with the drawings.
- .3 **Roof Section 5** – Apply single ply membrane roofing systems in accordance with Single Ply Roofing Section 07 54 19 and in accordance with the drawings.
- .4 Supply and install all new sheet metal flashings related to the membrane roofing in accordance with Sheet Metal Flashings Section 07 62 00 and accordance with the drawings.
- .5 Temporarily remove all roof mounted equipment as required to complete re-roofing, and re-install afterwards. Refer to Mechanical Requirements Section 23 05 00 and Electrical Requirements Section 26 05 00.
- .6 Refer to Mechanical Section 23 05 00 for any mechanical requirements.
- .7 Refer to Electrical Section 26 05 00 for any electrical requirements.
- .8 Roof Sections 2 – Provide a **20 Year Manufacturer Membrane Warranty.**
- .9 Roof Section 5 – Provide a **30 Year Manufacturer Membrane Warranty.**

END OF SECTION

Part 1 General

1.1 REGULATORY REQUIREMENTS

- .1 Conform to applicable code for demolition work, dust control, products requiring electrical disconnection and reconnection.
- .2 Obtain required permits from authorities.
- .3 Do not close or obstruct egress width to any building or site exit.
- .4 Do not disable or disrupt building fire or life safety systems without prior written approval from the Owner.
- .5 Conform to applicable regulatory procedures when discovering hazardous or contaminated materials.

1.2 PROJECT CONDITIONS

- .1 Conduct demolition to minimize interference with adjacent and occupied building areas.
- .2 Cease operations immediately if structure appears to be in danger and notify Consultant. Do not resume operations until directed.

Part 2 Products

2.1 MATERIALS

- .1 No materials included.
- .2 The composition of the existing roofing systems are as follows:
 - .1 Roof Section 2:**
 - .1 2 Ply SBS Membrane
 - .2 Fibreboard Insulation
 - .3 EPS Insulation
 - .4 Vapour Retarder
 - .5 Gypsum Board Sheathing
 - .6 Metal Deck
 - .2 Roof Section 5:**
 - .1 Gravel Ballast
 - .2 EPDM Membrane
 - .3 2.5" Organic PolyISO Insulation
 - .4 Poly Vapour Retarder
 - .5 Metal Deck

Part 3 Execution

3.1 PREPARATION

- .1 Protect existing materials which are not to be demolished.
- .2 Notify affected utility companies before starting work and comply with their requirements.
- .3 Mark location and termination of utilities.

3.2 DEMOLITION

- .1 Demolish in an orderly and careful manner.
- .2 Protect and do not damage, mar, or deface existing building elements which are to remain in place.
- .3 Remove all sheet metal flashings on all roof sections.
- .4 Remove ballast and EPDM membrane (**Roof Section 5**) to expose the insulation.
- .5 Remove demolished materials from site except where specifically noted otherwise. Dispose of in accordance with the requirements of the authority having jurisdiction.
- .6 Do not burn or bury materials on site.
- .7 Remove materials as Work progresses. Upon completion of Work, leave areas in clean condition.

END OF SECTION

Part 1 General

1.1 REFERENCES

- .1 BC Building Code, current edition.
- .2 National Lumber Grades Authority- Standard Grading Rules for Canadian Lumber.
- .3 CRCA – Roofing Systems Application Standards.

1.2 QUALITY ASSURANCE

- .1 Lumber by grade stamp of an agency certified by Canadian Lumber Standards Accreditation Board.
- .2 Plywood, particleboard, OSB and wood based composite panels in accordance with CSA and ANSI standards.

1.3 DELIVERY, STORAGE AND HANDLING

- .1 Storage and Handling Requirements:
 - .1 Store materials off ground; keep clean and dry.
 - .2 Store and protect wood from moisture, mud, or other defects.
 - .3 Replace defective or damaged materials with new.

1.4 REFERENCE STANDARDS

- .1 Lumber: softwood, S4S, moisture content 19% (S-dry) or less in accordance with CSA O141 and NLGA Standard Grading Rules for Canadian Lumber.
- .2 Canadian softwood plywood (CSP): to CSA O151, standard construction.

Part 2 Products

2.1 WOOD PRODUCTS

- .1 Spruce lumber, 1.5" thick.
 - .1 Finger jointed lumber shall not be accepted.
- .2 Sheathing: Plywood, 1/2" thick.
 - .1 Oriented Strand Board (OSB) shall not be accepted.

2.2 FASTENERS

- .1 Fasteners for lumber:
 - .1 Phosphorous coated nails, 3"
 - .2 No. 8 x 3" wood screws.
 - .3 On concrete or masonry: Minimum ¼" x 2.5" hit pin anchors.
- .2 Fasteners for sheathing:
 - .1 Phosphorous coated nails, 2"
 - .2 No. 8 x 1.25" wood screws.
 - .3 To concrete or masonry: Min. ¼" x 1.25" hit pin anchors.
- .3 **Staples shall not be accepted.**

2.3 INSULATION

- .1 Rockwool insulation.

Part 3 Execution

3.1 EXAMINATION

- .1 Verification of Conditions: verify that conditions of substrates are acceptable for product installation in accordance with manufacturer's written instructions.
 - .1 Visually inspect substrate.
 - .2 Inform Consultant of unacceptable conditions immediately upon discovery.
 - .3 Proceed with installation only after unacceptable conditions have been remedied and reviewed by the Consultant.
 - .4 Proceeding with work indicates acceptance of existing conditions.

3.2 CARPENTRY IN CONNECTION WITH ROOFING

- .1 Build up parapets, area dividers, building expansion joints, curbed penetrations, and other projections to the required heights using plies of dimensional lumber.
 - .1 Apply lumber straight, flush, and true.
 - .2 Apply lumber of the same width as the top of the parapet, curb, etc. that it is being applied on top of.
 - .3 Apply lumber continuously. Tightly abut end joints.
 - .4 Fasten each ply of lumber with 3" nails at maximum 12" on center, between 1" and 1.5" of the sides of the lumber plies, staggered from side to side.

- .2 Line the vertical faces of parapets, area dividers, building expansion joints, curbed penetrations and roof to wall connections with the specified sheathing.
- .3 At roof to wall connections, bevel the top edges of the sheathing.
- .4 Remove any existing gum box penetrations and construct new wooden curbs, anchored to the roof deck.
- .5 Build curbs at other penetrations where noted on the drawings.
- .6 Install wooden elements as required to construct the details in accordance with the intent of the detail drawings.

3.3 PROTECTION

- .1 Protect installed products and components from damage during construction.
- .2 Protect installed products and components from moisture immediately after installation.
- .3 Repair damage to adjacent materials caused by rough carpentry installation.

END OF SECTION

Part 1 General

1.1 SECTION INCLUDES

- .1 Roof re-coating preparation.
- .2 Application of fluid-applied roof membrane and flashings over existing modified bituminous membrane roofing.

1.2 REFERENCE STANDARDS

- .1 CRCA (Canadian Roofing Contractors' Association) - CRCA Roofing Specifications Manual.
- .2 RCABC (Roofing Contractors' Association of British Columbia) - Roofing Specifications Manual.

1.3 FIELD CONDITIONS

- .1 Weather Limitations: Proceed with rehabilitation work only when existing and forecasted weather conditions permit Work to proceed without water entering existing roofing system or building.
 - .1 Store all materials prior to application at temperatures recommended by manufacturer.
 - .2 Apply coatings within range of ambient and substrate temperatures recommended by manufacturer.
 - .3 Do not apply roofing in snow, rain, fog, or mist.
- .2 Protect building to be rehabilitated, adjacent buildings, walkways, site improvements, exterior plantings, and landscaping from damage or soiling from rehabilitation operations.
- .3 Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities.
- .4 Daily Protection: Coordinate installation of roofing so insulation and other components of roofing system not permanently exposed are not subjected to precipitation or left uncovered at the end of the workday or when rain is forecast.
- .5 Owner will occupy portions of building immediately below re-coating area. Conduct re-coating so Owner's operations will not be disrupted. Provide Owner with not less than 72 hours' notice of activities that may affect Owner's operations.

1.4 WARRANTY

- .1 Manufacturer's Warranty: Roof System Manufacturer's standard form in which Manufacturer agrees to repair or replace components of roofing system that fail in materials or workmanship within warranty period, as follows.
 - .1 Form of Warranty: Manufacturer's standard warranty form.
 - .2 Scope of Warranty: Work of this Section and including sheet metal details and termination details installed by the roof system Installer and approved by the Roof System Manufacturer.
 - .3 Warranty Period: 20 years from date of completion.
- .2 Manufacturer Inspection Services: By manufacturer's technical representative, to report maintenance responsibilities to Owner necessary for preservation of Owner's warranty rights. The cost of manufacturer's inspections is included in the Contract Sum.
 - .1 Inspections to occur in following years: 2, 5, 10, & 15 following completions.
- .3 Installer Warranty: Installer's warranty signed by Installer, as follows.
 - .1 Form of Warranty: Form included in Project Manual.
 - .2 Scope of Warranty: Work of this Section.
 - .3 Warranty Period: 2 years from date of completion.

1.5 QUALITY ASSURANCE

- .1 Installer Qualifications: Company specializing in performing the work of this section and approved by the manufacturer.
- .2 The Consultant shall conduct periodic observations of the work. Correct any identified deficiencies.
- .3 The Contractor shall be solely responsible for ensuring that the work conform to the specifications and references standards and manufacturer's requirements.

1.6 REGULATORY REQUIREMENTS

- .1 Conform to the BC Building Code and all applicable regulations for the jurisdiction in which the work is occurring.

1.7 DELIVERY, STORAGE, AND HANDLING

- .1 Deliver products in manufacturer's original containers, dry, undamaged, seals and labels intact.
- .2 Store products in weather protected environment, clear of ground and moisture.

Part 2 PRODUCTS

2.1 MANUFACTURERS

- .1 Basis of Design: The roof system specified in this Section is based upon products of Tremco Canada Division, RPM Canada, Toronto, ON (800) 668-9879, www.tremcoroofing.com that are named in other Part 2 articles. Provide specified products.
 - .1 Tremco.
 - .2 Manufacturers of comparable products: Approved by Owner, Architect, or Owner's Consultant prior to bid.
- .2 Source Limitations: Obtain components for roofing system from same manufacturer as membrane roofing or manufacturer approved by membrane roofing manufacturer.

2.2 PERFORMANCE REQUIREMENTS

- .1 General Performance: Rehabilitated roofing shall withstand exposure to weather without failure or leaks due to defective manufacture or installation.
 - .1 Accelerated Weathering: Roofing system shall withstand 5000 hours of exposure when tested according to ASTM G152, ASTM G154, or ASTM G155.
- .2 Material Compatibility: Provide roofing materials that are compatible with one another under the conditions of service and application required, as demonstrated by roofing manufacturer based on testing and field experience.
- .3 Exterior Fire-Test Exposure: Roofing system exterior fire-test exposure performance following application of rehabilitation coating shall not be less than that of the pre-rehabilitated roof performance when tested in accordance with CAN/ULC-S107, based upon manufacturer's tests of identical applications.
- .4 Energy Performance: Provide roof coating with initial solar reflectance index not less than 78 when calculated according to ASTM E1980, based upon testing of identical products by a qualified testing agency.
- .5 Energy Performance: Provide rehabilitated roofing according to one of the following when tested according to CRRC-1:
 - .1 Three-year, aged solar reflectance of not less than 0.55 and emissivity of not less than 0.75.
- .6 Three-year, aged solar reflectance index of not less than 64 when calculated according to ASTM E1980.

2.3 MATERIALS

- .1 General: Re-coating materials recommended by roofing system manufacturer for intended use and compatible with components of existing membrane roofing system.
- .2 Infill Materials: Where required to replace test cores and to patch existing roofing, use infill materials matching existing membrane roofing system materials, unless otherwise indicated.
- .3 Temporary Roof Drainage: Design and selection of materials for temporary roof drainage are the responsibilities of the Contractor.

2.4 LIQUID-APPLIED ROOFING MEMBRANE (TREMCO ALPHAGUARD BIO)

- .1 AlphaGuard BIO is an odorless, reinforced roofing and waterproofing solution distinguished by its high bio-based content. It is ideal when there is a demand for high-performance roofs, but odor is not allowed.
 - .1 Basis of design products:
 - .1 Tremco, **AlphaGuard Bio Base Coat**.
 - .1 Min. Thickness on Granular MB: 3 gallons per 100 sq.ft. (48 wet/dry mils).
 - .2 Tremco, **AlphaGuard Bio Top Coat (2 Coats)**.
 - .1 Initial Top Coat: Min. Thickness: 1 gallon per 100 sq.ft. (16 wet/dry mils) over cured Base Coat with granules rolled into application.
 - .2 Final Top Coat: Min. Thickness: 1 gallon per 100 sq. ft. (16 wet/dry mils) over cured Initial Top Coat.
 - .3 Colour: White.
 - .3 Granules: As approved by Tremco.
 - .4 Primers: As required by manufacturer for specified products.
 - .5 Liquid-Applied Membrane Reinforcing Fabric:
 - .1 Applied at SBS Membrane Seams and Drains Only.
 - .2 Polyester Reinforcing and Protection Fabric: 100 percent stitch-bonded mildew-resistant polyester fabric intended for reinforcement of compatible fluid-applied membranes.
 - .3 Basis of design: **Tremco, Permafab**.

2.5 AUXILIARY MATERIALS

- .1 General: Auxiliary materials recommended by roofing system manufacturer for intended use and compatible with existing roofing system and fluid-applied roofing system.
- .2 Seam Sealer: Waterproof seam and patching material compatible with applied coating.
- .3 Joint Sealant: Elastomeric joint sealant compatible with applied coating, with movement capability appropriate for application.
 - .1 Joint Sealant, Polyurethane: ASTM C920, Type S, Grade NS, Class 50 single-component moisture curing sealant, formulated for compatibility and use in dynamic and static joints; paintable.
 - .1 Basis of design product:
 - .1 Tremco, **TremSEAL Pro.**
 - .2 Colour: Closest match to substrate.
- .4 Fasteners: Factory-coated steel fasteners and metal or plastic plates meeting corrosion-resistance provisions in FM 4470; designed for fastening roofing membrane components to substrate; tested by manufacturer for required pullout strength; and acceptable to roofing system manufacturer.
- .5 Miscellaneous Accessories: Provide miscellaneous accessories recommended by roofing system manufacturer.

Part 3 EXECUTION

3.1 EXAMINATION

- .1 Examine existing roofing substrates, with Installer present, for compliance with requirements and for other conditions affecting application and performance of roof coatings.
 - .1 For the record, prepare written report, endorsed by Installer, listing conditions detrimental to performance.
 - .2 Verify compatibility of approved re-coating system with and suitability of substrates.
 - .3 Verify that substrates are visibly dry and free of moisture.
 - .4 Verify that roofing membrane surfaces have adequately aged to enable proper bond with re-coating system base coat.
 - .5 Verify that existing roofing membrane is free of blisters, splits, open laps, indications of shrinkage, and puncture damage or other indications of impending roof system failure.
 - .6 Commencing application of fluid-applied re-coating membrane indicates acceptance of surfaces and conditions.

3.2 SITE CONDITIONS

- .1 Ambient Conditions:
 - .1 Do not apply roofing membrane during inclement weather or when ambient temperatures are below manufacturer's indicated minimum application temperature.
 - .2 Do not apply roofing membrane to damp or frozen deck surface.
 - .3 Do not expose materials vulnerable to water or sun damage in quantities greater than can be weatherproofed during same day.

3.3 CLEANING

- .1 In areas where finished surfaces are soiled by work of this section, consult manufacturer of surfaces for cleaning advice and comply with their instructions.
- .2 Repair or replace defaced or disfigured finishes caused by work of this section.

3.4 PROTECTION OF FINISHED WORK

- .1 Protect building surfaces against damage from roofing work.
- .2 Where traffic must continue over finished roof membrane, protect surfaces.

3.5 SELECTIVE DEMOLITION

- .1 Refer to Section 02 41 19 Selective Demolition.

3.6 ROUGH CARPENTRY

- .1 Refer to Section 06 10 00 Rough Carpentry.

3.7 PREPARATION

- .1 Protect existing roofing system that is indicated not to be rehabilitated, and adjacent portions of building and building equipment.
 - .1 Mask surfaces to be protected. Seal joints subject to infiltration by coating materials.
 - .2 Limit traffic and material storage to areas of existing roofing membrane that have been protected.
 - .3 Maintain temporary protection and leave in place until replacement roofing has been completed.
- .2 Pollution Control: Comply with environmental regulations of authorities having jurisdiction. Limit the spread of dust and debris.
 - .1 Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
 - .2 Remove debris from building roof by chute, hoist, or other device that will convey debris to grade.

- .3 Shut down air intake equipment in the vicinity of the Work in coordination with the Owner. Cover air intake louvers before proceeding with re-coating work that could affect indoor air quality or activate smoke detectors in the ductwork.
 - .1 Verify that rooftop utilities and service piping affected by the Work have been shut off before commencing Work.
- .4 Maintain roof drains in functioning condition to ensure roof drainage at end of each workday. Prevent debris from entering or blocking roof drains and conductors. Use roof-drain plugs specifically designed for this purpose. Remove roof-drain plugs at end of each workday, when no work is taking place, or when rain is forecast.
 - .1 Do not permit water to enter into or under existing membrane roofing system components that are to remain.

3.8 ROOFING COATING PREPARATION

- .1 Removal of Wet Insulation: Remove portions of roofing membrane with underlying wet insulation. Remove wet insulation, fill in tear-off areas to match existing insulation and membrane, and prepare patched membrane for roof coating application specified below.
- .2 Repair of Ponding Areas: Repair areas indicated as ponding areas or areas of inadequate drainage by removing roof membrane, adding additional insulation as required to provide minimum slopes to drain required by roofing rehabilitation coating manufacturer, and replace membrane with material matching existing. Submit photographic report indicating compliance.
- .3 Membrane Surface Preparation:
 - .1 Remove pavers and walkway pads from roofing membrane. Salvage pavers and accessories for reuse.
 - .2 Remove loose granular aggregate from granular aggregate-surfaced built-up bituminous roofing with a power broom.
 - .3 Remove blisters, ridges, buckles, roofing membrane fastener buttons projecting above the membrane, and other substrate irregularities from existing roofing membrane that would inhibit application of uniform, waterproof coating.
 - .4 Substrate Cleaning: Clean substrate of contaminants such as dirt, debris, oil, and grease that can affect adhesion of coating by power washing at maximum 13,800 kPa (2,000 psi.).
 - .1 Dispose of wastewater in accordance with requirements of authorities having jurisdiction.
- .4 Verify that existing substrate is dry before proceeding with application of coating. Spot check substrates with an electrical capacitance moisture-detection meter.
 - .1 Verify adhesion of new products.

- .5 Existing Flashing and Detail Preparation: Repair flashings, gravel stops, copings, and other roof-related sheet metal and trim elements. Reseal joints, replace loose or missing fasteners, and replace components where required to leave in a watertight condition.
 - .1 Do not damage metal counterflashings that are to remain. Replace metal counterflashings damaged during removal with counterflashings specified in Division 07 Section "Sheet Metal Flashing and Trim."
 - .2 Roof Drains: Remove drain strainer and clamping ring. Grind metal surfaces down to clean, bare, metal.
- .6 Membrane Repair: Repair membrane at locations with irregularities using seam sealer mastic and reinforcing fabric.
- .7 Membrane Seam Reinforcement: Reinforce membrane seams using seam sealer mastic and reinforcing fabric overlapping onto field of existing membrane not less than width required by roof coating manufacturer.

3.9 FLUID-APPLIED FLASHING APPLICATION

- .1 Fluid-Applied Flashing and Detail Base Coat Application: Complete base coat and fabric reinforcement at parapets, curbs, penetrations, and drains prior to application of field of fluid-applied membrane. Apply base coat in accordance with manufacturer's written instructions.
 - .1 Apply base coat on prepared and primed surfaces and spread coating evenly. Extend coating minimum of 200 mm (8 inches) up vertical surfaces and 100 mm (4 inches) onto horizontal surfaces.
 - .2 Back roll to achieve not less than minimum coating thickness indicated in Part 2 product listing, unless greater thickness is recommended by manufacturer. Verify thickness as work progresses.
 - .3 Fabric Reinforcement: Embed fabric reinforcement into wet base coat at membrane seams. Lap adjacent flashing pieces of fabric minimum 75 mm (3 inches) along edges and 150 mm (6 inches) at end laps. Roll surface of fabric reinforcing to completely embed and saturate fabric. Leave finished base coat with fabric free of pin holes, voids, or openings.
 - .4 Roof Drains: Install base coat onto surrounding membrane surface and metal drain bowl flange. Install target piece of fabric reinforcement immediately into wet base coat and roll to fully embed and saturate fabric. Reinstall clamping ring and strainer following application of topcoat.
 - .5 Allow base coat to cure prior to application of topcoat.

3.10 SBS MEMBRANE SEAMS – REINFORCED LIQUID APPLIED APPLICATION

- .1 SBS Seams Application: Complete base coat and fabric reinforcement at SBS Seams prior to application of field fluid-applied membrane. Apply base coat in accordance with manufacturer's written instructions.
 - .1 Apply base coat on prepared surfaces and spread coating evenly. Extend coating minimum of 75 mm (3 inches) onto horizontal surfaces on either side of the SBS seam.
 - .2 Back roll to achieve not less than minimum coating thickness indicated in Part 2 product listing unless greater thickness is recommended by manufacturer. Verify thickness as work progresses.
 - .3 Fabric Reinforcement: Embed minimum 100mm (4 inch) wide fabric reinforcement strip into wet base coat along all the seams.
 - .1 Roll surface of fabric reinforcing to completely embed and saturate fabric. Leave finished base coat with fabric free of pin holes, voids, or openings.
 - .2 Following curing of base coat and prior to application of top coats, sand raised or exposed edges of fabric reinforcement.

3.11 LIQUID-APPLIED MEMBRANE APPLICATION

- .1 Base Coat: Apply base coat to field of membrane in accordance with manufacturer's written instructions.
 - .1 Apply base coat on properly prepared surfaces and spread coating evenly.
 - .2 Back roll to achieve not less than minimum coating thickness indicated in Part 2 product listing unless greater thickness is recommended by manufacturer. Verify thickness as work progresses.
 - .3 The final dry film thickness of the base coat should be a minimum of 48 mils of dry mils.
- .2 Topcoat (2 Coat) Application: Apply 2 top coats to the field of membrane and flashings uniformly in a complete, continuous installation, and in accordance with manufacturer's written instructions.
 - .1 Allow base coat to cure prior to application of topcoat.
 - .2 Following curing of base coat and prior to application of topcoat, sand raised or exposed edges of fabric reinforcement.
 - .3 Prime base coat prior to application of topcoat if topcoat is not applied within 72 hours of the base coat application, using manufacturer's recommended primer.
 - .4 Apply first top coat at a rate 1 gallon per 100 sq.ft. (16 wet/dry mils) over cured Base Coat. Roll manufacturer approved granules into the first topcoat at manufacturer's recommended application rate.

- .5 Allow to dry and repair any deficiencies.
- .6 Once cured, use a blower to remove any loose granules or debris from the roofing surface.
- .7 Apply second top coat at a rate 1 gallon per 100 sq.ft. (16 wet/dry mils) over the dry first coat.
- .8 Apply topcoats extending coating up vertical surfaces and out onto horizontal surfaces. Install topcoat over field base coat and spread coating evenly.
- .9 Back roll to achieve not less than minimum coating thickness indicated in Part 2 product listing, unless greater thickness is recommended by manufacturer. Verify thickness as work progresses.
- .10 The final dry film thickness of the top coat(s) should be a minimum of 32 mils of dry mils.
- .11 Avoid foot traffic on new fluid-applied membrane for a minimum of 24 hours.
- .12 Once cured, use a blower to remove any loose granules from the roofing surface.

END OF SECTION

Part 1 GENERAL

1.1 SECTION INCLUDES

- .1 Loose Laid and Ballasted Single-Ply Roof Membrane.

1.2 REFERENCE STANDARDS

- .1 Canadian Roofing Contractors Association - Roofing Systems Application Standards Manual.

1.3 SYSTEM DESCRIPTION

.1 Roof Section 5

- .1 Re-Use Gravel Ballast (Provide Option for New)
- .2 New TREMCO Single-Ply KEE Membrane, Loose Laid.
- .3 Optional Tapered PolyISO Insulation Crickets, Loose Laid.
- .4 Allowance for Maximum 5% Replacement PolyISO Insulation, Loose Laid.
- .5 Existing PolyISO Insulation, Loose Laid.
- .6 Existing Poly Vapour Retarder.
- .7 Existing Metal Q-Decking.

1.4 SUBMITTALS FOR REVIEW

- .1 Tapered Insulation Layout Drawings.

1.5 QUALITY ASSURANCE

- .1 Perform Work to applicable CRCA Roofing Systems Application Standards Manual, and in accordance with the manufacturer's written instructions.
- .2 Installer Qualifications: Company specializing in performing the work of this section and approved by the manufacturer.
- .3 Installer Qualifications: An employer of workers trained and certified by manufacturer, including a full-time on-site supervisor with a minimum of five years' experience installing products comparable to those specified, able to communicate verbally with Contractor, Owner's Consultant and employees, and qualified by the roofing system manufacturer to install manufacturer's product and furnish warranty of type specified.
- .4 Manufacturer Qualifications: Approved manufacturer with UL listed roofing systems comparable to those specified for this Project, with minimum five years' experience in manufacture of comparable products in successful use in similar applications, and able to furnish warranty with provisions matching specified requirements.
- .5 Manufacturer's Installation Instructions: Obtain and maintain on-site access to manufacturer's written recommendations and instructions for installation of products.

1.6 REGULATORY REQUIREMENTS

- .1 Conform to the BC Building Code where applicable.

1.7 DELIVERY, STORAGE, AND HANDLING

- .1 Deliver roofing materials to Project site in original containers with seals unbroken and labeled with manufacturer's name, product brand name and type, date of manufacture, approval or listing agency markings, and directions for storing and mixing with other components.
- .2 Store liquid materials in their original undamaged containers in a clean, dry, protected location and within the temperature range required by roofing system manufacturer. Protect stored liquid material from direct sunlight.
 - .1 Discard and legally dispose of liquid material that cannot be applied within its stated shelf life.
- .3 Protect roof insulation materials from physical damage and from deterioration by sunlight, moisture, soiling, and other sources. Store in a dry location. Comply with insulation manufacturer's written instructions for handling, storing, and protecting during installation.
- .4 Handle and store roofing materials and place equipment in a manner to avoid permanent deflection of deck.

1.8 PROJECT / FIELD CONDITIONS

- .1 Protect building, adjacent buildings, walkways, site improvements, exterior plantings, and landscaping from damage or soiling from roofing operations.
- .2 Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities.
- .3 Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit roofing system to be installed according to manufacturer's written instructions and warranty requirements.
- .4 Store all materials prior to application at temperatures between 5 and 32 deg. C (40 and 90 deg. F).
- .5 Apply materials within range of ambient and substrate temperatures recommended by manufacturer. Do not apply materials when air temperature is below 5 or above 43 deg. C (40 and 110 deg. F).
- .6 Do not apply roofing in snow, rain, fog, or mist.
- .7 Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit roofing system to be installed according to manufacturer's written instructions and warranty requirements.

- .8 Daily Protection: Coordinate installation of roofing so insulation and other components of roofing system not permanently exposed are not subjected to precipitation or left uncovered at the end of the workday or when rain is forecast.
 - .1 Provide tie-offs at end of each day's work to cover exposed roofing and insulation with a course of roofing sheet securely in place with joints and edges sealed.
 - .2 Complete terminations and base flashings and provide temporary seals to prevent water from entering completed sections of roofing.
 - .3 Remove temporary plugs from roof drains at end of each day.
 - .4 Remove and discard temporary seals before beginning work on adjoining roofing.

1.9 WARRANTY

- .1 Manufacturer's Warranty: Roof System Manufacturer's standard form in which Manufacturer agrees to repair or replace components of roofing system that fail in materials or workmanship within warranty period, as follows.
 - .1 Form of Warranty: Manufacturer's standard warranty form.
 - .2 Scope of Warranty: The warranty covers material and workmanship.
 - .3 Warranty inspection and maintenance program provided with warranty at a minimum of 5-year intervals. (Provided and included by the manufacturer)
 - .4 Warranty Extension: Warranty extension program available at the end of the warranty period.
 - .5 Transfers: No limitation on a number of warranty transfers.
 - .6 Scope of Warranty: Work of this Section and including sheet metal details and termination details installed by the roof system Installer and approved by the Roof System Manufacturer.
 - .7 Warranty Period: **30 years from date of completion.**
 - .8 **All of the above is included in the material costs.**
- .2 Manufacturer Inspection and Preventive Maintenance Service: To report maintenance responsibilities necessary for preservation of Owner's warranty rights and to perform periodic routine maintenance required, as described in Manufacturer's standard form. Cost of manufacturer's inspections & preventive maintenance is included in the material costs.
 - .1 Scope of Service: Manufacturer's standard form.
 - .2 Inspections to occur in following years: 2, 5, 10,15, 20 and 25 following completion.
- .3 Installer Warranty: Installer's warranty signed by Installer, as follows.
 - .1 Scope of Warranty: Work of this Section.
 - .2 Warranty Period: 2 years from date of completion.

Part 2 PRODUCTS

2.1 MATERIALS, GENERAL

- .1 Material Compatibility: Roofing materials shall be compatible with one another and adjacent materials under conditions of service and application required, as demonstrated by roof membrane manufacturer based on testing and field experience.
- .2 The following noted system is based on a Tremco KEE Membrane system.

2.2 PERFORMANCE REQUIREMENTS

- .1 General Performance: Installed membrane roofing and base flashings shall withstand specified uplift pressures, thermally induced movement, and exposure to weather without failure due to defective manufacture, fabrication, installation, or other defects in construction. Membrane roofing and base flashings shall remain watertight.
 - .1 Dynamic Impact/Puncture Resistance, ASTM D5635: >35.
 - .2 Static Puncture Resistance ASTM D 5602 (99 lbf): >150.

2.3 TPA ROOF MEMBRANE:

- .1 Thermoplastic Ketone Ethylene Ester (KEE) coated polyester fabric-reinforced sheet, ASTM D6754.
 - .1 Basis of design product:
 - .1 Tremco, TremPly KEE Single Ply Roof Membrane.
 - .2 Breaking Strength, minimum, ASTM D751: Machine direction, 87 kN/m (500 lbf); Cross machine direction, 70 kN/m (400 lbf).
 - .3 Tear Strength, minimum, ASTM D751: Machine direction, 21 kN/m (125 lbf); Cross machine direction, 25 kN/m (145 lbf).
 - .4 Elongation at Break, ASTM D751: 20 percent.
 - .5 Dynamic Impact/Puncture Resistance, ASTM D5635: 35.
 - .6 Minimum Membrane Thickness, nominal, less backing, ASTM D751: 1.5 mm **(60 mils)**
 - .7 Thickness over fiber, optical method: 0.016 inches.
 - .8 Accelerated Weathering, ASTM G155 and ASTM G154: 15,000 hr., no cracking or crazing.
 - .9 Abrasion Resistance, ASTM D3389: Not greater than 2,000 cycles, H-18 wheel, 1,000 g load.
 - .10 Colour: **White**
- .2 Membrane Flashing: Manufacturer's standard, smooth-backed, sheet flashing of same material, type, reinforcement, thickness, and colour as PVC sheet membrane.
 - .1 Basis of design: TremPly KEE 60mil (Same as Above)

2.4 AUXILIARY ROOFING MATERIALS

- .1 Adhesives and sealants that are not on the exterior side of weather barrier shall comply with the following limits for VOC content when calculated according to 40 CFR 59, Subpart D (EPA Method 24):
 - a. Single-Ply Roof Membrane Sealants: 450 g/L.
 - b. Nonmembrane Roof Sealants: 300 g/L.
 - c. Sealant Primers for Nonporous Substrates: 250 g/L.
 - d. Sealant Primers for Porous Substrates: 775 g/L.
- .2 Flashing Membrane Adhesive:
 - .1 Bonding adhesive, solvent based fast drying, VOC-compliant, for bonding KEE smooth-backed single ply membranes and flashings to substrates.
 - .1 Basis of design product: Tremco, **TremPly KEE LV Bonding Adhesive**.
- .3 Metal Termination Bars: Manufacturer's standard predrilled stainless-steel or aluminum bars, approximately 25 mm by 3 mm (1 by 1/8 inch) thick; with anchors.
- .4 Ballast Retaining Bar: Perimeter securement system consisting of a slotted extruded-aluminum retention bar with an integrated compression fastening strip.
 - .1 Fasteners: 38-mm (1-1/2-inch) stainless steel fasteners with neoprene washers.
- .5 Fasteners: Factory-coated steel fasteners and metal or plastic plates complying with corrosion-resistance provisions in FM Approvals 4470, designed for fastening components to substrate, and acceptable to membrane roofing system manufacturer.
- .6 Joint Sealant: Elastomeric joint sealant compatible with roofing materials, with movement capability appropriate for application.
 - .1 Joint Sealant, Polyurethane: ASTM C920, Type S, Grade NS, Class 50 single-component moisture curing sealant, formulated for compatibility and use in dynamic and static joints; paintable.
 - .1 Basis of design product: Tremco, TremSEAL Pro.
 - .2 Colour: Closest match to substrate.
- .7 Prefabricated Pipe Flashings: As recommended by roof membrane manufacturer.
- .8 Miscellaneous Accessories: Provide pourable sealers, preformed cone and vent sheet flashings, preformed inside and outside corner sheet flashings, T-joint covers, lap sealants, termination reglets, and other accessories.

2.5 ROOF INSULATION

- .1 Tapered Insulation Crickets (**Optional – See Bid Form**)
 - .1 Accepted Product:
 - .1 Any CRCA Accepted Organic PolyISO Insulation.
 - .2 Slope: 4%.
 - .2 Wet Insulation Replacement If Found (**See Bid Form for Breakout**)
 - .1 Accepted Product:
 - .1 Any CRCA Accepted Organic PolyISO Insulation.
 - .2 Thickness: 2.5"

2.6 BALLAST (OPTIONAL REPLACEMENT – SEE BID FORM)

- .1 Stone Ballast: Smooth, washed, riverbed gravel or other acceptable smooth-faced stone that withstands weather exposure without significant deterioration and does not contribute to membrane degradation.
 - .1 Basis of design product: Double washed round river rock.
 - .2 Size, ASTM D448: No. 4, 3/4 to 1-1/2 inches (19 to 38 mm), and No. 2, 1-1/2 to 2-1/2 inches (38 to 63 mm).

2.7 WALKWAY PAVERS

- .1 Provide new 24" x 24" Smooth Concrete Pavers where shown on drawings.
 - .1 Accessories: 1" Extruded Polystyrene Insulation Strips

Part 3 EXECUTION

3.1 EXAMINATION

- .1 Examine substrates, areas, and conditions, with contractor present, for compliance with the following requirements and other conditions affecting performance of roofing system:
 - .1 Verify that roof openings and penetrations are in place and curbs are set and braced and that roof drain bodies are securely clamped in place.
 - .2 Retain paragraph below if project will be let with wood cants, blocking, and nailers installed under another trade subcontract.
 - .3 Verify that blocking, curbs, and nailers are securely anchored to roof deck at penetrations and terminations and that nailers match thicknesses of insulation.
 - .4 Existing Prepared Roof Substrate: Verify that existing insulation and substrate is sound and dry. Refer to requirements of Division 07 Section "Preparation for Re-Roofing."
- .2 Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- .1 Clean substrate of dust, debris, moisture, and other substances detrimental to roofing installation according to roofing system manufacturer's written instructions. Remove sharp projections.
- .2 Prevent materials from entering and clogging roof drains and conductors and from spilling or migrating onto surfaces of other construction. Remove roof-drain plugs when no work is taking place or when rain is forecast.
- .3 Complete terminations and base flashings and provide temporary seals to prevent water from entering completed sections of roofing system at the end of the workday or when rain is forecast. Remove and discard temporary seals before beginning work on adjoining roofing.

3.3 INSTALLATION, GENERAL

- .1 Install roofing system in accordance with manufacturer's written instructions and approved details.
- .2 Install blocking, curbs, and nailers in accordance with requirements of Division 06 Section "Miscellaneous Rough Carpentry."

3.4 LOOSE LAID INSULATION INSTALLATION

- .1 Coordinate installing membrane roofing system components, so insulation is not exposed to precipitation or left exposed at the end of the workday.
- .2 Comply with membrane roofing system and insulation manufacturer's written instructions for installing roof insulation.

3.5 LOOSE-LAID AND BALLASTED MEMBRANE INSTALLATION

- .1 Loosely lay roof membrane over area to receive roofing according to roofing system manufacturer's written instructions.
- .2 Unroll roof membrane and allow to relax before installing.
- .3 Comply with requirements in ANSI/SPRI RP-4 for applicable system.
- .4 Start installation of roofing in presence of roofing system manufacturer's technical personnel and Owner's testing and inspection agency.
- .5 Accurately align roof membrane, without stretching, and maintain uniform side and end laps of minimum dimensions required by manufacturer. Stagger end laps.
- .6 Perimeter Adhere roof membrane at corners, perimeters, and transitions according to requirements in ANSI/SPRI RP-4.
- .7 Apply roof membrane with side laps shingled with slope of deck where possible.

- .8 Seams: Clean seam areas, overlap roof membrane, and hot-air weld side and end laps of roof membrane and sheet flashings to ensure a watertight seam installation.
 - .1 Test lap edges with probe to verify seam weld continuity.
 - .2 Apply lap sealant to seal cut edges of roof membrane and sheet flashings.
 - .3 Verify field strength of seams a minimum of twice daily, and repair seam sample areas.
 - .4 Repair tears, voids, and lapped seams in roof membrane that do not comply with requirements.
- .9 Spread sealant bed over deck-drain flange at roof drains, and securely seal roof membrane in place with clamping ring.
- .10 Aggregate Ballast: Apply uniformly over roof membrane at the rate required by roofing system manufacturer, but not less than the following, spreading with care to minimize possibility of damage to roofing system. Lay ballast as roof membrane is installed, leaving roofing ballasted at the end of the workday.
 - .1 Ballast Wt., ANSI/SPRI RP-4 System 1: Size 4 aggregate, 50 kg/sq. m (12 lb/sq. ft).

3.6 WALKWAYS

- .1 Provide new concrete paver walkway where shown on roof plan.
- .2 Install 1" Extruded Polystyrene Insulation Strips beneath pavers to allow surface drainage.

3.7 PERIMETER FLASHING INSTALLATION

- .1 Install sheet flashings and preformed flashing accessories and adhere to substrates according to membrane roofing system manufacturer's written instructions.
- .2 Apply bonding adhesive to substrate and underside of sheet flashing at required rate and allow to partially dry. Do not apply to seam area of flashing.
- .3 Flash penetrations and field-formed inside and outside corners with cured or uncured sheet flashing.
- .4 Clean seam areas, overlap, and firmly roll sheet flashings into the adhesive. Hot-air weld side and end laps to ensure a watertight seam installation.
- .5 Seal top termination of base flashing with a metal termination bar and a continuous bead of joint sealant.

3.8 FIELD QUALITY CONTROL

- .1 Retain this article if field inspecting and testing are required. Revise to suit local practices and requirements of authorities having jurisdiction, if applicable.
- .2 Final Roof Inspection: Arrange for roofing system manufacturer's technical personnel to inspect roofing installation at commencement and upon completion.
 - .1 Notify Owner's Consultant and Owner 48 hours in advance of date and time of inspection.
- .3 Additional testing and inspecting, at Contractor's expense, will be performed to determine if replaced or additional work complies with specified requirements.

3.9 PROTECTING AND CLEANING

- .1 Protect roofing system from damage and wear during remainder of construction period. When remaining construction will not affect or endanger roofing, inspect roofing for deterioration and damage, describing its nature and extent in a written report, with copies to Owner's Consultant and Owner.
- .2 Correct deficiencies in or remove roofing system that does not comply with requirements, repair substrates, and repair or reinstall roofing system to a condition free of damage and deterioration at time of Substantial Completion and according to warranty requirements.
- .3 Clean overspray and spillage from adjacent construction using cleaning agents and procedures recommended by manufacturer of affected construction.

END OF SECTION

Part 1 General

1.1 REFERENCES

- .1 The Canadian Roofing Contractors Association Roofing Systems Application Standards Manual.

1.2 DELIVERY, STORAGE AND HANDLING

- .1 Deliver, store and handle materials to prevent dents, bends, scratches, or other defects.

Part 2 Products

2.1 STEEL SHEET

- .1 24-gauge prefinished sheet steel with factory applied coating of colour selected by the Owner's representative.
 - .1 The Contractor shall obtain the Owner's colour selection in writing prior to ordering.
- .2 24-gauge prefinished sheet steel for capping area divider.
- .3 24-gauge prefinished sheet steel for new fascia flashing. (Match Existing Profile)

2.2 ACCESSORIES

- .1 Fasteners:
 - .1 Minimum 1.5" spiral nails.
 - .2 1.25" coarse threaded screws with flanged, pre-painted hex heads and neoprene washers.
 - .3 Minimum No. 8 x 1.25" screws with flat pan heads.
- .2 Masonry wall anchors: Minimum 3/16" x 1.25" hit pin anchors.
- .3 Sealant: Mulco Supra or equal upon submission of product data for acceptance. Colour to match metal flashings.

2.3 FABRICATION

- .1 Maximum length of parapet cap flashings shall be 5'.
 - .1 If 8' or 10' lengths are to be used, follow CRCA requirements for wind clips and mid-span fastening.
- .2 Fabricate metal flashings and other sheet metal work in accordance with the CRCA Standards.
- .3 All edges shall be hemmed.

- .4 Bottom outside edges of cap flashings and drip edge flashings shall kick out minimum ½" at 45 degrees.
- .5 All joints shall be S-locked.
- .6 All transitions, joints, intersections, and corners shall be of minimum 1" tall locked standing seams.
- .7 Cap flashings shall have minimum 4" vertical flanges on outside faces and shall extend minimum 1.5" over top termination of lower finishes.
- .8 Counter flashings shall extend up minimum 3" behind higher existing metal flashings or claddings.

Part 3 Execution

3.1 INSTALLATION

- .1 Install sheet metal flashings in accordance with the CRCA Standards.
- .2 Conceal fastenings in the S-locked joints.
- .3 Allow for expansion in the S-locked joints.
- .4 Hem and lock standing seams at corners.

3.2 COUNTER FLASHINGS ON MASONRY WALLS

- .1 Fasten metal flashings with hit pin anchors in pre-drilled holes at each joint and at maximum 18" on center.

3.3 FIELD QUALITY CONTROL

- .1 The completed work shall be visually reviewed by the Consultant. Correct any deficiencies.
- .2 The Contractor shall be solely responsible for ensuring that the work conforms to the specifications and referenced standard.

3.4 CLEANING

- .1 On completion and verification of performance of installation, remove surplus materials, excess materials, rubbish, tools and equipment.
- .2 Leave work areas clean, free from asphalt, grease, finger marks and stains.

END OF SECTION

Part 1 General

1.1 INTENT

- .1 Temporarily disconnect, remove, raise, or reinstall mechanical system components and ductwork as necessary to facilitate the execution of the work. Specific instructions for each component shall be referenced on the drawings.

1.2 CO-ORDINATION AND INSTALLER QUALIFICATIONS

- .1 All mechanical installations and gas line work shall be undertaken exclusively by qualified technicians.
- .2 Coordinate all mechanical shutdowns or modifications closely with the owner's representative.

1.3 REFERENCE STANDARD

- .1 Strict adherence to all applicable codes, including the National Plumbing Code of Canada, is mandatory for all work.
- .2 Sheet Metal and Air Conditioning Contractors National Association (SMACNA) Standard 2020 – HVAC Duct Construction Standards, 4th Edition

Part 2 Execution

2.1 EXAMINATION

- .1 Prior to commencement, inspect all HVAC units, existing drain piping, vent piping, chimneys, chimney caps, air extractors, hoods, and sheet metal specialties.
- .2 Notify the Owner's representative of any components or systems which are damaged or otherwise unacceptable for re-use.
- .3 Commencement of work indicates acceptance of existing conditions.

2.2 H.V.A.C. UNITS, AIR EXTRACTORS, GAS LINES, ETC.

- .1 Closely co-ordinate this work with the building operations staff.
- .2 Obtain permission for system shutdowns and provide notification of shutdowns as dictated by the building operations staff.
- .3 Temporarily decommission HVAC units, air extractors, gas lines as required to perform roofing work.
- .4 Raise the HVAC units up as required to conduct roofing work.
- .5 Recommission all systems as soon as possible after roofing work.

END OF SECTION

Part 1 General

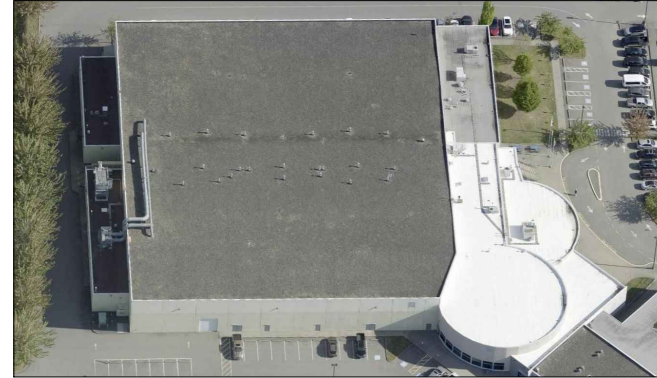
1.1 ELECTRICAL REQUIREMENTS

- .1 Any electrical work is to be conducted only by competent and qualified electricians.
- .2 Any electrical work is to be conducted in accordance with the Local Building Code.
- .3 Temporarily disconnect, remove, raise, re-install, etc. electrical system components as required to conduct roofing and raise curb heights to a minimum of 8" above finished roof system. Refer to drawings for further instructions.
- .4 Notify the Owner of any existing electrical systems or components which do not conform to current applicable Codes.
- .5 Obtain any required permits and inspections. The cost of any such permits or inspections is to be included in the contract price.
- .6 Co-ordinate any required electrical work with the building owner's representative. Provide notice for shutdowns in accordance with the owner's requirements.

1.2 ELECTRICAL SCOPE

- .1 Disconnect and temporarily remove any electrical devices and services as required to conduct roofing work, and re-install and re-commission afterwards.
- .2 Temporarily terminate any electrical services in a safe condition.
- .3 Protect any temporarily removed electrical devices from damage. Re-install in the same condition as was before removal. Be responsible for any damages caused to any components during the performance of the work of the contract.
- .4 Any component of any lightning rod grounding system which is disconnected and reconnected shall be inspected by a qualified lightning system inspector. The cost of such inspection shall be included in the contract price. Submit the lightning grounding system re-certification to the Owner's representative at project close out.

END OF SECTION



CONSULTANT:



CLIENT:

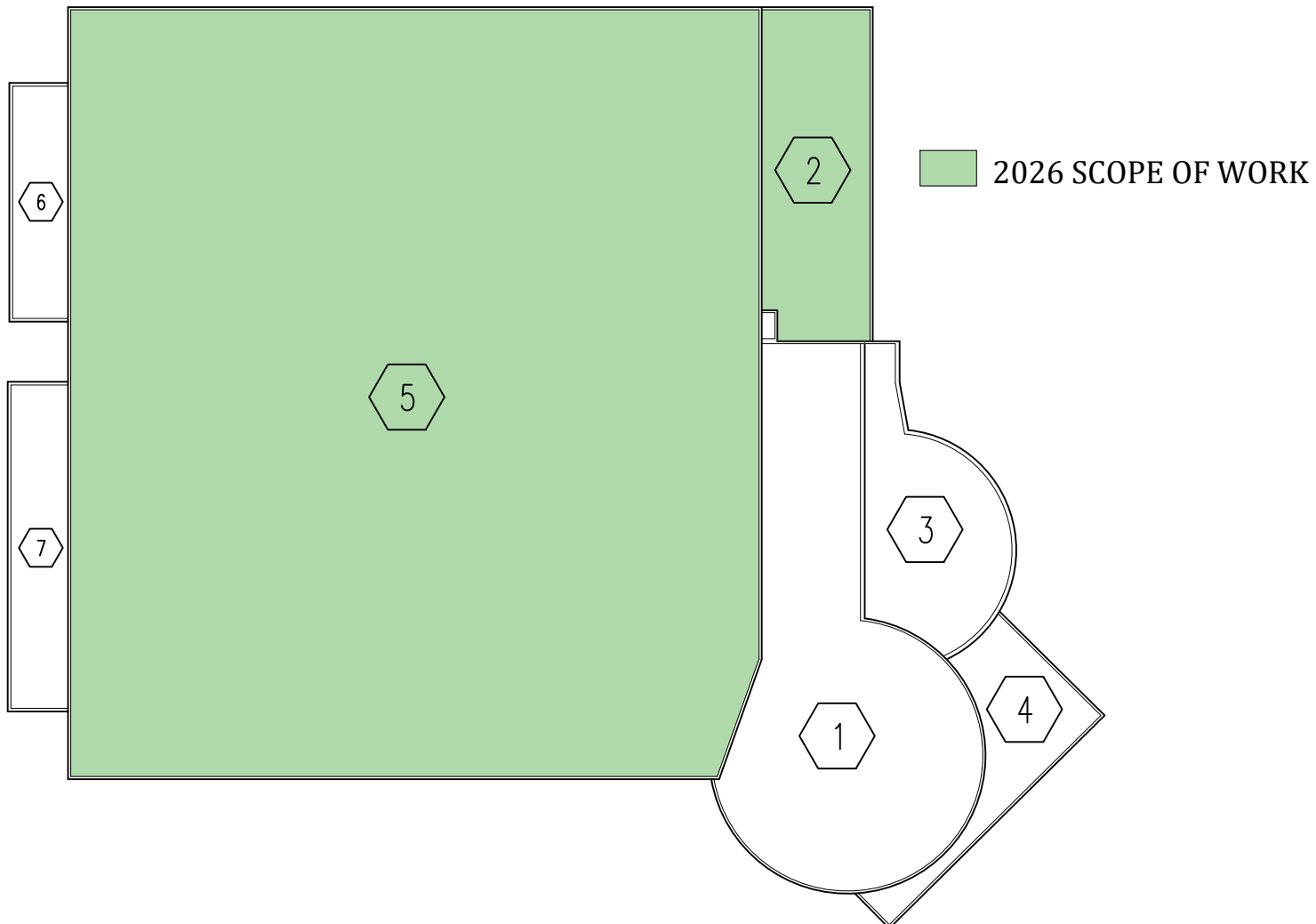


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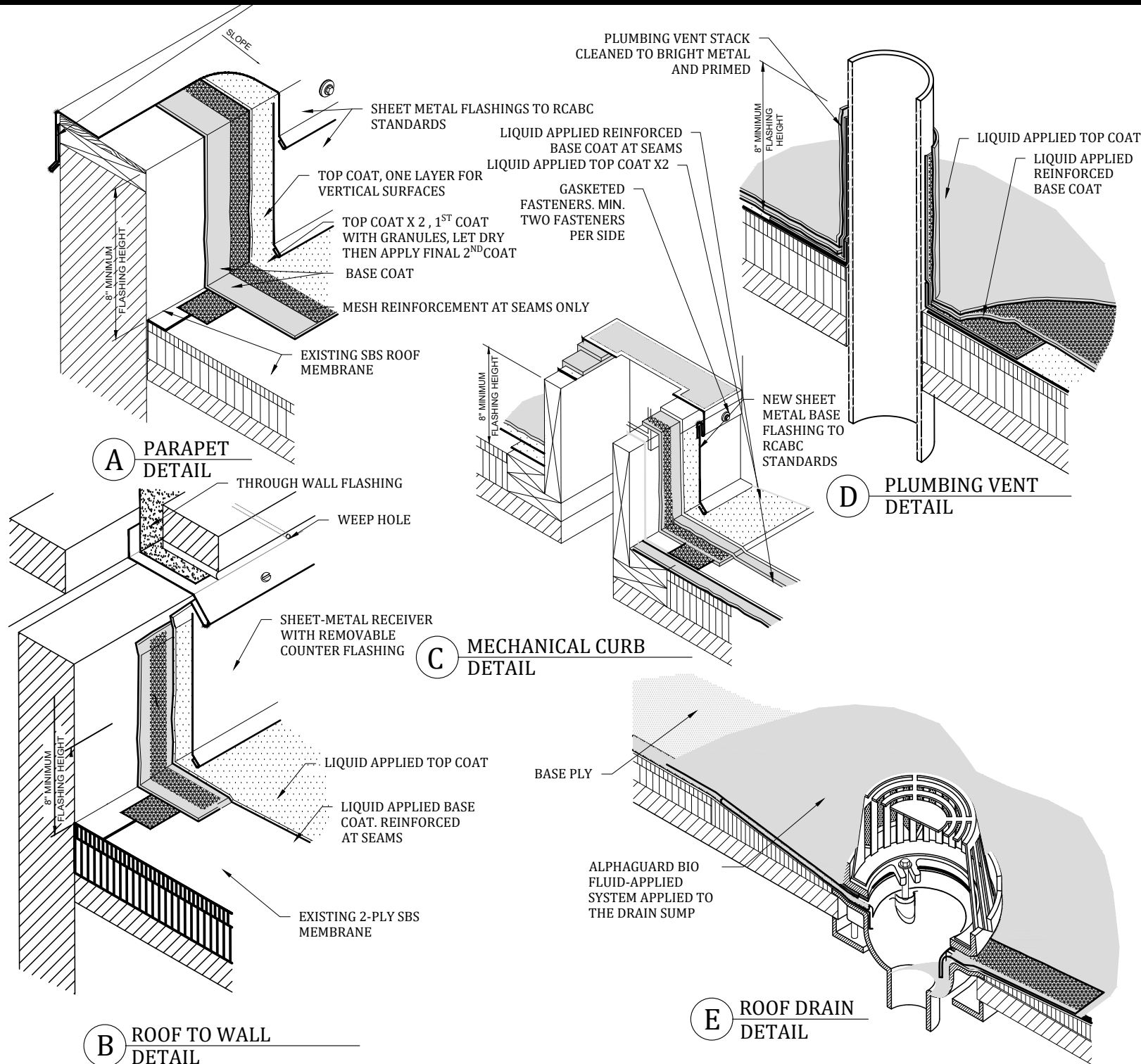
**OCEANSIDE PLACE ARENA
2026 ROOFING PROGRAM**

830 W ISLAND HWY W
PARKSVILLE, BC
V9P 2X4

LEGEND:



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FILE NO.:	25-117
DRAWN BY:	J.S.
SCALE:	N.T.S.
DWG. TITLE	DWG. NO.:
ROOF KEY PLAN	1 OF 5



CONSULTANT:

ALPINE
ROOF CONSULTING LTD.

CLIENT:

**REGIONAL
DISTRICT
OF NANAIMO**

PROJECT NAME:

**OCEANSIDE PLACE ARENA
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830 W ISLAND HWY W
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FILE NO.: 25-117

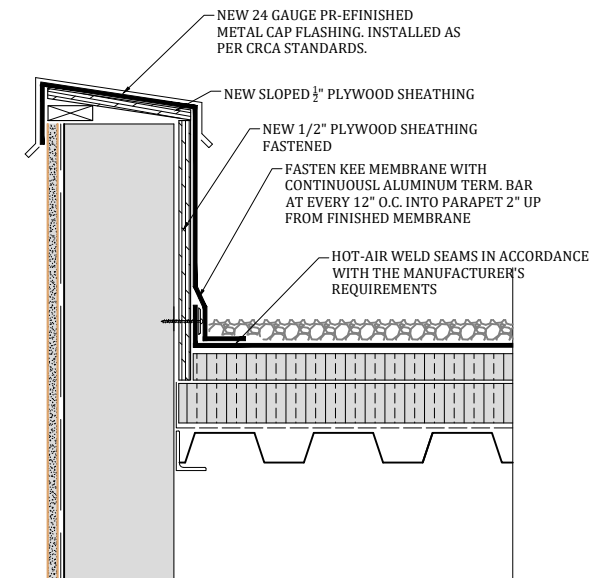
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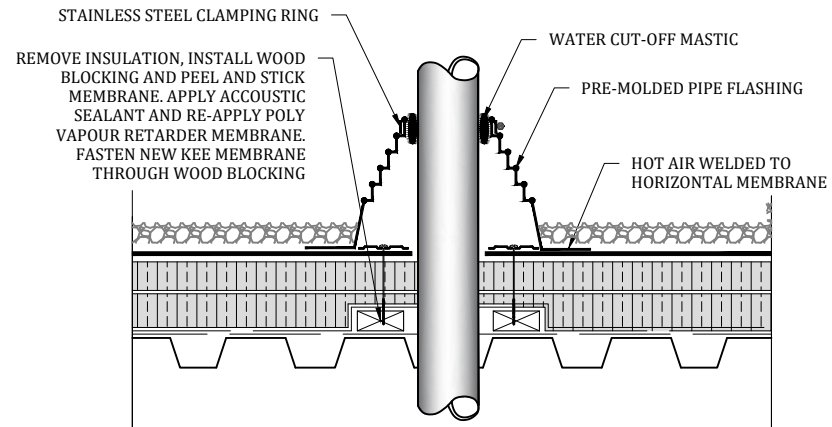
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DETAILS**

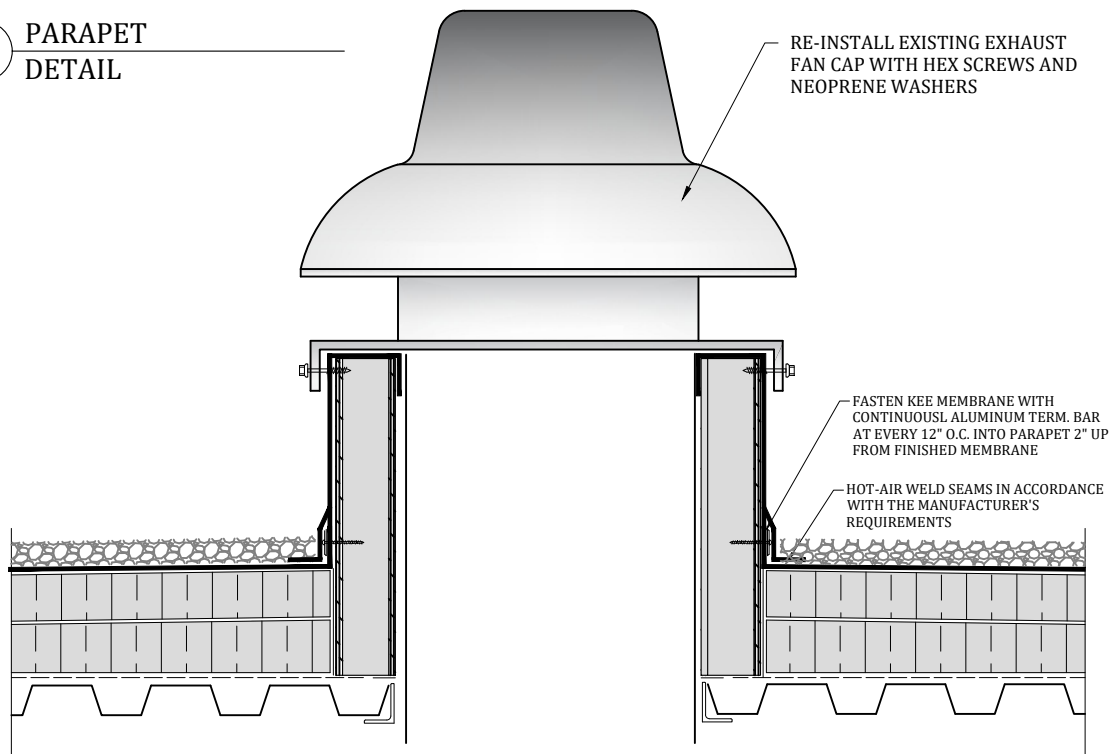
3 OF 5



F PARAPET
DETAIL



G PIPE SEAL
DETAIL



H EXHAUST FAN CURB
DETAIL

CONSULTANT:

ALPINE
ROOF CONSULTING LTD.

CLIENT:

**REGIONAL
DISTRICT
OF NANAIMO**

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CONSULTANT:



CLIENT:



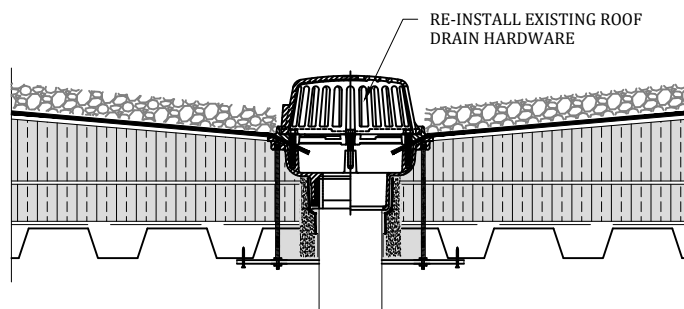
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2026 ROOFING PROGRAM**

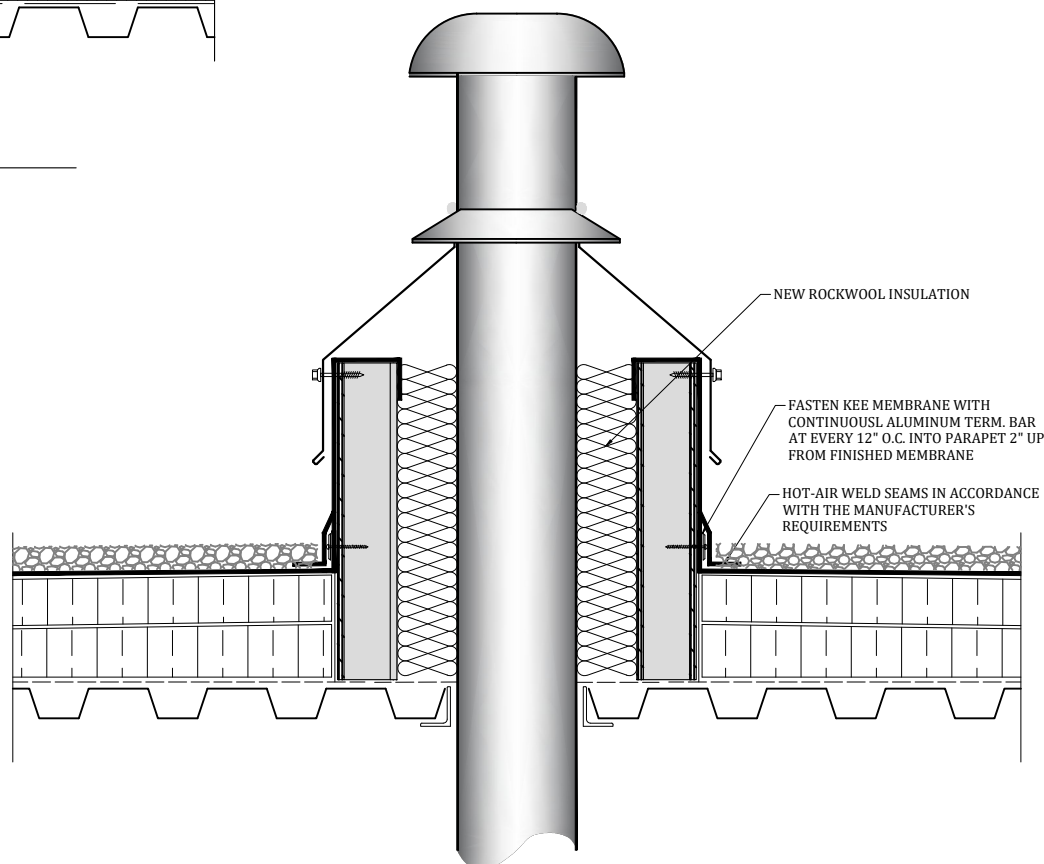
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V9P 2X4

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SCALE:	N.T.S.
DWG. TITLE	DWG. NO.:
KEE DETAILS	5 OF 5



I ROOF DRAIN
DETAIL



J EXISTING B-VENT / NEW VENT CURB
DETAIL

Prime Contractor Preconstruction Meeting Form

Date		Meeting Location	
Contract #		WSBC Firm #	
Prime Contractor Company Name			
Prime Contractor's Superintendent			
Description of Designated Workplace			
Description of Work			
RDN Contract Representative			

Agreement

The Prime Contractor:
Check

<input type="checkbox"/>	Acknowledges appointment as Prime Contractor defined by Workers Compensation Act Part 2 OH&S Division 4, section 24.
<input type="checkbox"/>	Understands the Owners duties as defined in the WorkSafeBC Workers Compensation Act Part 2 OH&S Division 4, section 25(b)
<input type="checkbox"/>	Understands for any discrepancy establishing health and safety protocol, the Workers' Compensation Act Part 2, division 3 19(1) shall prevail.
<input type="checkbox"/>	Acknowledges being informed of any known workplace hazards by the owner or owner's delegate, by signing attached "Existing Known Hazard Assessment" form.
<input type="checkbox"/>	Shall communicate known hazards to any persons who may be affected and ensure appropriate measures are taken to effectively control or eliminate the hazards.
<input type="checkbox"/>	Shall ensure all workers are suitably trained and qualified to perform the duties for which they have been assigned.
<input type="checkbox"/>	Shall ensure or coordinate first aid equipment and services as required by WorkSafeBC OH&S Regulation.
<input type="checkbox"/>	Shall coordinate the occupational health and safety activities for the project.
<input type="checkbox"/>	Assumes responsibility for the health and safety of all workers and for ensuring compliance by all workers with the Workers Compensation Act (Part 3) and WorkSafeBC OH&S Regulation.

<input type="checkbox"/>	Understands any WorkSafeBC violation by the Prime Contractor may be considered a breach of contract resulting in possible termination or suspension of the contract and/or any other actions deemed appropriate at the discretion of the RDN.
<input type="checkbox"/>	Understands any penalties, sanctions or additional costs levied against the Prime Contractor will be the responsibility of the Prime Contractor.
<input type="checkbox"/>	Confirms the Prime Contractor's Safe Work procedures and risk assessments were prepared by, or approved by, a Qualified Person as defined by WorkSafeBC OH&S Regulation.
<input type="checkbox"/>	Accepts the following required documents shall be maintained and made available upon request from the RDN and/or WorkSafeBC Prevention Officer at the workplace

Documents required to be maintained and available by the Prime Contractor will include, but not be limited to:

Check

<input type="checkbox"/>	All notices which the Prime Contractor is required to provide to WorkSafeBC as per WorkSafeBC OH&S Regulation.
<input type="checkbox"/>	Any written summaries of remedial action taken to reduce occupational health and safety hazards within the area of responsibility.
<input type="checkbox"/>	All directives and inspection reports issued by WorkSafeBC.
<input type="checkbox"/>	Records of any incidents and accidents occurring within the Prime Contractor's area of responsibility.
<input type="checkbox"/>	Completed accident investigations for any incidents and accidents occurring within the Prime Contractor's area of responsibility

On a **construction project** workplace, these additional documents are required to be maintained and available by the Prime Contractor:

<ul style="list-style-type: none"> Records of all orientation and regular safety meetings held between contractors and their workers, including topics discussed, worker names and companies in attendance.
<ul style="list-style-type: none"> Written evidence of regular inspections within the workplace.
<ul style="list-style-type: none"> Occupational first aid records.
<ul style="list-style-type: none"> Worker training records.
<ul style="list-style-type: none"> Current list of the name of a qualified person designated to be responsible for each subcontractor (employer's) site health and safety activities.
<ul style="list-style-type: none"> Diagram of the emergency route to the hospital.

The following information must be **provided** to the RDN Contract Representative:
Check

<input type="checkbox"/>	WorkSafeBC Notice of Project (if applicable)
<input type="checkbox"/>	WorkSafeBC Clearance Letter
<input type="checkbox"/>	Prime Contractor's OH&S Safety Program
<input type="checkbox"/>	Prime Contractor's Site/Project Specific Hazard Identification and Risk Assessments, Safe Work Procedures, etc.
If an item is not checked, explain the reason below (for example, emergency repair):	

<input type="checkbox"/>	First Aid Attendant(s)	
<input type="checkbox"/>	Safety Supervisor(s)	
<input type="checkbox"/>	Location of First Aid Station	

Signature of Prime Contractor	
Signature of RDN Contract Representative	

Pre-Existing and Known Hazard Identification

Discussion between the Prime Contractor and the RDN Contract Representative

Date		Meeting Location	
Prime Contractor Company Name			
Prime Contractor's Superintendent			
RDN Contract Representative			

- RDN Contract Representative to make the Prime Contractor aware of any known extraordinary pre-existing hazards specific to the contract.
- It is recognized the pre-existing and known hazards identified may not be a comprehensive list and due caution is always required.
- Use additional pages if necessary.

Identified Extraordinary Hazards	Action required to eliminate or control hazards and ensure worker safety

Prime Contractor Representative (signature)

RDN Contract Representative (signature)

Prime Contractor Representative (print name)

RDN Contract Representative (print name)



REQUEST FOR TENDER No. 26-009

Oceanside Place Arena 2026 Roofing Program

SECTION 400

Form of Contract is CCDC2-2020 STIPULATED PRICE CONTRACT included by reference only.



SUPPLEMENTARY CONDITIONS TO CCDC2 – 2020 STIPULATED PRICE CONTRACT

Project Name: 26-009 Oceanside Place Arena 2026 Roofing Program

These Supplementary Conditions modify and amend the CCDC 2 – 2020 – Stipulated Price Contract between the parties and form a part of the *Contract*. In the event of any conflict between the provisions of any of the other *Contract Documents* and any provision of these Supplementary Conditions, the provision contained in these Supplementary Conditions shall govern.

AGREEMENT BETWEEN OWNER AND CONTRACTOR

1. In Article A-5.2.1, replace subsections (1) and (2) with the following:

“(1) 2% per annum above the prime rate.”

DEFINITIONS

2. In the definition of ‘Contract Documents’, add the words “in writing” immediately after “...between the parties”.
3. In the definition of ‘Change Order’, delete the words “prepared by the Consultant and”.
4. Add the following definitions:

“Force Majeure Event

Force Majeure Event means an event that occurs after the effective date of this *Contract*, is not caused by and is beyond the reasonable control of the party claiming the *Force Majeure Event* and could not be prevented or overcome by the exercise of due diligence by the party claiming the *Force Majeure Event*. *Force Majeure Events* include adverse weather occurring of a magnitude having a statistical reoccurrence that is less frequent than 1-in-25 years, collective bargaining disputes, earthquake, epidemic or pandemic, explosion, fire, flood, landslides or similar geotechnical events, and lightning, but do not include lack of funds or escalation in prices of material unless such escalation in prices is caused by one of the listed *Force Majeure Events*.”

“Milestone Dates

Milestone Dates means any date specified in the *Contract Documents* for completion of the *Work*, or a portion of the *Work*, including the date for *Substantial Performance of the Work* and date for attainment of *Ready-for-Takeover*.”

GENERAL CONDITIONS

5. In GC 1.1.5.1, move “Supplementary Conditions” to the top of the list, such that it appears above “the *Agreement* between *Owner* and *Contractor*”.
6. Delete the contents of GC 1.1.10 entirely and insert the word "Reserved".
7. In GC 2.2.11, add the following after the last sentence:

“The failure of the *Consultant* to exercise its authority under this GC 2.2.11 shall not relieve the *Contractor* of its obligation to perform the *Work* in accordance with the *Contract*.”
8. Add new GC 2.2.19 as follows:

“2.2.19 Provisions contained in GC 2.2.1 through GC 2.2.18 are only intended to create rights and responsibilities as between the *Owner* and *Contractor*. Nothing in GC 2.2.1 through GC 2.2.18 is intended to create any rights as between the *Owner* and *Consultant* or as between the *Consultant* and *Contractor*.”
9. Add new GC 2.3.8 as follows:

“2.3.8 For clarity, any review or inspection of the *Work* shall be for the *Owner’s* benefit only and shall not relieve the *Contractor* of its obligation to perform the *Work* in accordance with the *Contract*.”
10. Delete the contents of GC 3.4.1.1 entirely and insert the following:

“.1 prepare and submit to the *Owner* within ten (10) *Working Days* after the date of execution of the *Agreement*, a construction schedule to the reasonable satisfaction of the *Owner* that indicates the timing of the major activities of the *Work* and provides sufficient detail of the critical events and their interrelationship to demonstrate the *Work* will be performed in conformity with the *Contract Time* including meeting all *Milestone Dates*,”
11. Add new GC 3.4.2 – GC 3.4.4 as follows:

“3.4.2 Time shall be of the essence in this *Contract*.

3.4.3 The *Contractor* shall perform the *Work* in such a manner that progress of *Work* is consistent with the construction schedule, and all *Milestone Dates* are met.

3.4.4 A failure by the *Contractor* to meet GC 3.4.3 shall be deemed to be a default to which the provisions of GC 7.1.2 to GC 7.1.6 (inclusive) apply.”
12. Delete the contents of GC 5.1 entirely and insert the word "Reserved".

13. Add the following at the end of GC 5.2.7:

"If the Owner reasonably believes that the Contractor has not paid, or is likely not to pay, Subcontractors duly owed payments in a timely manner, the Owner may demand and the Contractor must provide a breakdown of each application for payment, whether past or future, indicating what portion of the amount claimed under that application of payment is attributed to which Subcontractor."

14. In GC 5.3.1.1, replace the last instance of "Owner" with "Consultant".

15. Add the following as new GC 5.3.2:

"5.3.2 To the extent of payment received by the Contractor on account of work by Subcontractors, Contractor shall: (i) within seven (7) calendar days of receiving such payment, pay each of its Subcontractors the amount to which Subcontractor is entitled.

The Contractor shall indemnify, defend and hold harmless the Owner from and against any claims, damages, suits or losses the Owner may suffer as a result of the breach of the Contractor's obligation under the preceding sentence or a payment made by the Owner in reliance on an inaccurate or false statutory declaration required under GC 5.2.7. The amount of payment by the Owner in reliance on a false or inaccurate statutory declaration shall be deemed not to have been due to the Contractor, and the Owner may recover such amounts by setting off against any future payments due to the Contractor."

16. Add the following as new GC 5.3.3:

"5.3.3 As a further condition of payment, there shall be no liens or other encumbrances registered against title to any part of the Place of the Work or any property of the Owner arising from or connected with the Work, other than those caused by non-payment by the Owner. In the event that a lien or encumbrance has been registered, the Contractor shall take all steps necessary, including the payment of alternate security into a court of competent jurisdiction, to have such lien or encumbrance immediately discharged. No further payments shall be made while such lien or encumbrance remains registered."

17. Delete the contents of GC 5.4.2 entirely and insert the word "Reserved".

18. Add new GC 5.4.7 as follows:

"5.4.7 Prior to Substantial Performance of the Work and in addition to the lien holdback, a deficiency holdback shall be established for Work determined by the Consultant to be defective or incomplete (the "Deficiency Holdback"). The Consultant shall establish the

amount of the *Deficiency Holdback* at 150% of the estimated cost to rectify the defective work and can finish incomplete *Work* using the services of another contractor or the *Owner's* own forces. No part of the *Deficiency Holdback* shall become payable to the *Contractor* until all of the defective *Work* is corrected and all of the *Work* is complete. If the defective or incomplete *Work* is not corrected or completed within a reasonable time as determined by the *Consultant*, then all or a portion of the *Deficiency Holdback* as determined by the *Consultant* may be retained by the *Owner* to be applied against the cost suffered by the *Owner* to correct or complete the *Work*."

19. In GC 5.5.3, replace "*Owner*" with "*Consultant*".
20. In GC 5.7.1, after "No payment by the *Owner*", add "or certification by the *Consultant*".
21. Add new GC 6.1.3 and 6.1.4 as follows:
 - 6.1.3 Subject to GC 6.1.4, the *Contractor* shall not be entitled to rely on any oral representation, site meeting discussion, site meeting minutes or other communication except for a *Change Order* or *Change Directive* before proceeding with a change to the *Work*.
 - 6.1.4 In an emergency where it is impractical to issue a *Change Order* or *Change Directive*, as determined by the *Consultant*, the *Consultant* may issue an oral direction that the *Contractor* shall follow. In such event the *Consultant* shall issue a *Change Directive* at the first opportunity upon the *Owner's* approval.
22. In GC 6.5.3.3, replace .1 through .4 with "a *Force Majeure Event*,".
23. Add new GC 6.5.6 - GC 6.5.7 as follows:
 - "6.5.6 If the *Work* is not progressing in a manner that meets the construction schedule and it appears reasonably likely that one or more *Milestone Dates* will not be achieved, the *Owner* may, in its sole discretion, request the *Contractor* by *Notice in Writing* to provide a recovery plan that demonstrates what measures the *Contractor* shall undertake and how such measures will enable the *Contractor* to comply with GC 3.4.3. The *Contractor* shall submit such recovery plan within 10 *Working Days* after receiving a written from the *Owner*. For certainty, the request for a recovery plan under this paragraph shall not entitle the *Contractor* to any extension of the *Contract Time* or modification of *Milestone Dates*.
 - 6.5.7 The *Contractor* shall implement the measures outlined in the recovery plan described in GC 6.5.6 at its own cost.

Add new GC 7.1.7:

“7.1.7 If the conditions for the *Owner* to give *Notice in Writing* under GC 7.1.4 have been met, the *Owner* may require the *Contractor* by *Notice in Writing* to temporarily suspend the performance of *Work*, or any portion thereof. Provided the *Contractor* has not corrected the pertinent default or otherwise complied with its obligations set out in GC 7.1.3, such suspension may continue for a continuous period of 30 calendar days, during which any additional cost incurred by the *Contractor* shall be borne by the *Contractor*. If the *Owner* gives *Notice in Writing* to *Contractor* to cease the suspension, the *Contractor* shall immediately commence performance of *Work*.”

24. Delete the contents of GC 7.2.3.1 entirely and insert the word “Reserved”.

25. Delete GC 8.3.8.

26. In GC 9.1.3, after “the *Owner’s* property” add “, the property of others at the *Place of Work*”.

27. Add the following sentence at the end of GC 9.4.1:

“The *Contractor* shall be the “prime contractor” under the *Workers Compensation Act*, RSBC 2019, c 1, for the *Place of the Work* and fulfill all the obligations of the “prime contractor” under the said statute, including by ensuring that the activities of any employers, workers and other persons at the *Place of the Work* relating to occupational health and safety are coordinated and by doing everything that is reasonable possible to establish and maintain a process that shall ensure compliance with that statute and regulations thereunder.”

28. Delete GC 9.4.5 entirely.

29. Delete all paragraphs under GC 11.1 and insert the following:

“11.1.1 Without restricting the generality of GC 13.1 INDEMNIFICATION, the *Contractor* shall obtain and pay for the following insurance coverages:

- .1 Commercial General Liability providing coverage with a limit of not less than \$10,000,000 million inclusive per occurrence for bodily injury and property damage on an all-risk basis. This insurance will include the *Owner* as additional insured with respect to liability arising out of the operations of the *Contractor*.
- .2 Motor-vehicle insurance providing coverage to a minimum of \$5,000,000 million against third-party liability for bodily injury and property damage for each motor-vehicle owned or operated by the *Contractor* in connection with this *Contract*.
- .3 Course of construction insurance (Builder’s Risk) providing coverage to a minimum of 100% of the *Total Contract Price* covering all materials, property, structures, and

equipment purchased for or forming part of the *Work*, while in transit or storage and during construction, erection, installation and testing until completed and handed over and accepted by the *Owner*. The coverage shall include as a protected entity, the *Owner*, the *Consultant*, and each *Subcontractor* who is engaged in the *Work*. The coverage will contain a waiver of subrogation against all protected entities except where a loss is deemed to have been caused by or resulting from any error in design or any other professional error or omission.

- .4 The *Contractor* is responsible for Equipment Breakdown (Boiler and Machinery) Insurance.

11.1.2 Unless specified otherwise, the *Contractor* shall maintain the insurance coverages listed in 11.1.1 from the date of commencement of the *Work* until the date of final certificate for payment.

11.1.3 The *Contractor* shall provide the *Owner* with proof of insurance in a form acceptable to the *Owner* prior to the commencement of the *Work* and upon request of the *Owner* for the duration of this *Contract*.

11.1.4 If the *Contractor* hires a sub-contractor to perform any of the *Work*, the *Contractor* shall, in turn, require such sub-contractor to maintain insurance coverages under the same terms listed in 11.1.1.

11.1.5 The *Contractor* shall be responsible for any deductible amounts under the policies of coverage and insurance.”

- 30. Add new GC 11.2 as follows:

“GC 11.2 CONTRACT SECURITY

11.2.1 The *Contractor* shall, before execution of the *Agreement*, provide to the *Owner* the following security:

- .1 a performance bond, in the form of CCDC 221 or an equivalent format reasonably acceptable to the *Owner* and in the amount of 50% of the *Total Contract Price*; and
- .2 a labour and material payment bond, in the form of CCDC 222 or an equivalent format reasonably acceptable to the *Owner* and in the amount of 50% of the *Total Contract Price*.”

- 31. Add new GC 12.1.1.9:

.9 All the *Work*, including the resolution of any known defects or deficiencies, is completed, except those items which may arise under GC-12.3 - WARRANTY.

- 32. In GC 12.3.1, replace “one year” with “two years”.



33. In GC 12.3.6, replace “one year” with “two years”.
34. In GC 13.1.1.1(1), replace “negligent acts or omissions” with “the negligent acts, omissions, or willful misconduct”.
35. In GC 13.1.2.2, delete its contents entirely and insert the following:

“.2 In respect to losses suffered by the *Owner* and the *Contractor* for which insurance is not required to be provided by either party in accordance with GC 11.1 – INSURANCE, the *Contract Price*.”

END OF REVISED SUPPLEMENTARY CONDITIONS

CCDC 41
CCDC INSURANCE REQUIREMENTS

PUBLICATION DATE: December 14, 2020

1. General liability insurance shall be with limits of not less than \$10,000,000 per occurrence, an aggregate limit of not less than \$10,000,000 within any policy year with respect to completed operations, and a deductible not exceeding \$10,000. The insurance coverage shall not be less than the insurance provided by IBC Form 2100 (including an extension for a standard provincial and territorial form of non-owned automobile liability policy) and IBC Form 2320. To achieve the desired limit, umbrella or excess liability insurance may be used. Subject to satisfactory proof of financial capability by the *Contractor*, the *Owner* may agree to increase the deductible amounts.
2. Automobile liability insurance in respect of vehicles that are required by law to be insured under a contract by a Motor Vehicle Liability Policy, shall have limits of not less than \$10,000,000 inclusive per occurrence for bodily injury, death and damage to property, covering all vehicles owned or leased by the *Contractor*. Where the policy has been issued pursuant to a government-operated automobile insurance system, the *Contractor* shall provide the *Owner* with confirmation of automobile insurance coverage for all automobiles registered in the name of the *Contractor*.
3. Manned Aircraft and watercraft liability insurance with respect to owned or non-owned aircraft and watercraft (if used directly or indirectly in the performance of the *Work*), including use of additional premises, shall have limits of not less than \$10,000,000 inclusive per occurrence for bodily injury, death and damage to property including loss of use thereof and limits of not less than \$10,000,000 for aircraft passenger hazard. Such insurance shall be in a form acceptable to the *Owner*.
4. Unmanned aerial vehicle liability insurance with respect to owned or non-owned aircraft (if used directly or indirectly in the performance of the *Work*), shall have limits of not less than \$5,000,000 per occurrence or accident for bodily injury, death and damage to property or such amounts as required by any applicable law or regulation.
5. "Broad form" property insurance shall have limits of not less than the sum of 1.1 times *Contract Price* and the full value, as stated in the *Contract*, of *Products* and design services that are specified to be provided by the *Owner* for incorporation into the *Work*, with a deductible not exceeding \$10,000. The insurance coverage shall not be less than the insurance provided by IBC Forms 4042 and 4047 or their equivalent replacement. Subject to satisfactory proof of financial capability by the *Contractor*, the *Owner* may agree to increase the deductible amounts.
6. Boiler and machinery insurance shall have limits of not less than the replacement value of the permanent or temporary boilers and pressure vessels, and other insurable objects forming part of the *Work*. The insurance coverage shall not be less than the insurance provided by a comprehensive boiler and machinery policy including hot testing and commissioning.
7. Contractors' equipment insurance coverage written on an "all risks" basis covering *Construction Equipment* used by the *Contractor* for the performance of the *Work*, shall be in a form acceptable to the *Owner* and shall not allow subrogation claims by the insurer against the *Owner*. Subject to satisfactory proof of financial capability by the *Contractor* for self-insurance, the *Owner* may agree to waive the equipment insurance requirement.
8. Contractors' Pollution liability insurance shall have limits of not less than \$5,000,000 per occurrence for bodily injury, death and damage to property.

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