



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

Réception des soumissions - TPSGC / Bid
Receiving - PWGSC
1550, Avenue d'Estimauville
1550, D'Estimauville Avenue
Québec
Québec
G1J 0C7

REQUEST FOR PROPOSAL
DEMANDE DE PROPOSITION

Proposal To: Public Works and Government Services Canada

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

Proposition aux: Travaux Publics et Services Gouvernementaux Canada

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

Comments - Commentaires

Vendor/Firm Name and Address
Raison sociale et adresse du fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution
TPSGC/PWGSC
601-1550, Avenue d'Estimauville
Québec
Québec
G1J 0C7

Title - Sujet Platform Manufacturing	
Solicitation No. - N° de l'invitation W7701-176276/A	Date 2016-12-07
Client Reference No. - N° de référence du client W7701-176276	
GETS Reference No. - N° de référence de SEAG PW-\$QCL-029-16977	
File No. - N° de dossier QCL-6-39268 (029)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2017-01-17	
F.O.B. - F.A.B. Specified Herein - Précisé dans les présentes Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input checked="" type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Champoux, Nicolas	
Buyer Id - Id de l'acheteur qc1029	
Telephone No. - N° de téléphone (418) 649-2821 ()	FAX No. - N° de FAX (418) 648-2209
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: RDDC-R et D Défense Canada-Valcartier DRDC-Dence R&D Canada-Valcartier BATISSE 53 2459 ROUTE DE LA BRAVOURE QUEBEC Québec G3J1X5 Canada	

Instructions: See Herein

Instructions: Voir aux présentes

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

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PART 1 - GENERAL INFORMATION

1.1 Introduction

The bid solicitation is divided into six parts plus annexes, as follows:

- Part 1 General Information: provides a general description of the requirement;
- Part 2 Bidder Instructions: provides the instructions, clauses and conditions applicable to the bid solicitation;
- Part 3 Bid Preparation Instructions: provides bidders with instructions on how to prepare their bid;
- Part 4 Evaluation Procedures and Basis of Selection: indicates how the evaluation will be conducted, the evaluation criteria that must be addressed in the bid, and the basis of selection;
- Part 5 Certifications: includes the certifications to be provided;
- Part 6 Resulting Contract Clauses: includes the clauses and conditions that will apply to any resulting contract.

1.2 Summary

1.2.1 Requirement

TITLE

Manufacturing of the drop tower test platform

BACKGROUND

DRDC Valcartier is setting up a new experimental facility to carry out impact studies on military equipment. To this end, a drop tower was designed and partly manufactured to simulate impacts at velocities higher than 9 m/s and decelerations higher than 1500 m/s². A subsystem of this facility is a test platform used to guide and support the tested items. DRDC has made the design of the test platform and requires the services of an external contractor to manufacture the platform. This platform will be subjected to repetitive impacts and will need to be manufactured and assembled to resist in such an environment.

TASKS

- 5.1 Material transport, quality control plan and detailed welds specifications
- 5.2 Machining and assembly of the platform at mid-welding
- 5.3 Completing the assembly of the platform
- 5.4 Machining and final inspection of the platform
- 5.5 Delivery of the platform to DRDC Valcartier

DELIVERY TERMS

- All the deliverables must be received on or before one hundred and five (105) days after contract award.

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- Bidders must provide prices **DDP (Incoterm 2000) at Defence Research and Development Canada- Valcartier Research Center**

1.3 Debriefings

Bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days from receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

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PART 2 - BIDDER INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the *Standard Acquisition Clauses and Conditions Manual* (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The 2003 (2016-04-04) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

2.1.1 SACC Manual Clauses

B1000T (2014-06-26), Condition of Material

2.2 Submission of Bids

Bids must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated on page 1 of the bid solicitation.

Bids transmitted by facsimile (418-648-2209) to PWGSC will be accepted.

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than Five (5) business days before the bid closing date. Enquiries received after that time may not be answered.

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by Bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the question(s) or may request that the Bidder do so, so that the proprietary nature of the question(s) is eliminated and the enquiry can be answered to all Bidders. Enquiries not submitted in a form that can be distributed to all Bidders may not be answered by Canada.

2.4 Applicable Laws

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Quebec.

Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the Bidders.

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2.5 Improvement of Requirement During Solicitation Period

Should bidders consider that the specifications or Statement of Work contained in the bid solicitation could be improved technically or technologically, bidders are invited to make suggestions, in writing, to the Contracting Authority named in the bid solicitation. Bidders must clearly outline the suggested improvement as well as the reason for the suggestion. Suggestions that do not restrict the level of competition nor favour a particular bidder will be given consideration provided they are submitted to the Contracting Authority at least Five (5) business days before the bid closing date. Canada will have the right to accept or reject any or all suggestions.

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PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

Canada requests that Bidders provide their bid in separately bound sections as follows:

- Section I: Technical Bid (2 hard copies)
- Section II: Financial Bid (1 hard copy)
- Section III: Certifications and Additional Information (1 hard copy)

Prices must appear in the financial bid only. No prices must be indicated in any other section of the bid.

Canada requests that Bidders follow the format instructions described below in the preparation of their bid:

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to the bid solicitation.

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process [Policy on Green Procurement](#) (<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, Bidders should:

- 1) use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and containing minimum 30% recycled content; and
- 2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

Section I: Technical Bid

In their technical bid, bidders should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

Section II: Financial Bid

Bidders must submit their financial bid in accordance with the Basis of Payment in Annex "B". The total amount of Applicable Taxes must be shown separately.

3.1.1 Exchange Rate Fluctuation

[C3011T \(2013-11-06\)](#), Exchange Rate Fluctuation

Section III: Certifications and Additional Information

Bidders must submit the certifications and additional information required under Part 5.

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PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

- (a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Technical Criteria

In their proposal, the bidders must demonstrate that they meet all requirements for the following mandatory criteria. Failure to meet any of these requirements will make the proposal non-compliant and thereby eliminate the process.

Note to the bidder: The bidder must clearly **demonstrate** how it complies with the criteria. Merely mentioning the fact that it meets the criteria is not enough. In order to demonstrate its experience, the bidder should describe one or more projects including, at the least, the following:

- Description;
- Project dates;
- Client;
- The use of the manufactured part.

	Criteria	YES	NO	Demonstration : References to the supporting documents included in the bid
MC1	The Contractor must demonstrate recent relevant experience (within 18 months) of high thickness aluminum welding (over 25mm thick components).			

4.1.2 Financial Evaluation

4.1.2.1 Evaluation of Price

The price of the offer will be evaluated as follows:

- a) **Bidders must provide prices DDP (Incoterm 2000)** at Defence Research and Development Canada- Valcartier Research Center. Bids will be assessed on a DDP (Incoterm 2000) basis.

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- b) Bids submitted in foreign currency will be converted to Canadian currency for evaluation purposes. The rate given by the Bank of Canada in effect on the bid solicitation closing date will be applied as a conversion factor to the bids submitted in foreign currency.
 - c) Canadian-based bidders must submit firm prices, Canadian customs duties and excise taxes included, and Applicable Taxes excluded.

4.2 Basis of Selection

4.2.1 Basis of Selection - Mandatory Technical Criteria

A bid must comply with the requirements of the bid solicitation and meet all mandatory technical evaluation criteria to be declared responsive. The responsive bid with the lowest evaluated price will be recommended for award of a contract.

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PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

Bidders must provide the required certifications and additional information to be awarded a contract.

The certifications provided by Bidders to Canada are subject to verification by Canada at all times. Canada will declare a bid non-responsive, or will declare a contractor in default if any certification made by the Bidder is found to be untrue, whether made knowingly or unknowingly, during the bid evaluation period or during the contract period.

The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Contracting Authority will render the bid non-responsive or constitute a default under the Contract.

5.1 Certifications Required with the Bid

Bidders must submit the following duly completed certifications as part of their bid.

5.1.1 Integrity Provisions - Declaration of Convicted Offences

In accordance with the *Ineligibility and Suspension Policy* (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide with its bid the required documentation, as applicable, to be given further consideration in the procurement process.

5.2 Certifications Precedent to Contract Award and Additional Information

The certifications and additional information listed below should be submitted with the bid but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Failure to provide the certifications or the additional information listed below within the time frame specified will render the bid non-responsive.

5.2.1 Integrity Provisions – Required Documentation

In accordance with the *Ineligibility and Suspension Policy* (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

5.2.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list (http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml) available from Employment and Social Development Canada (ESDC) - Labour's website.

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Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list at the time of contract award.

5.2.3 Certifications / Qualifications – Welding

By submitting a bid, the Bidder certifies that:

The Contractor is certified by the Canadian Welding Bureau (CWB) in accordance with the CSA Standard W47.2 Division 1 or Division 2.
--

Inspection organizations used by the contractor are qualified in accordance with the CSA Standard W178.1.

The inspectors are qualified in accordance with the CSA Standard W178.2.
--

Note:

The Bidder should include in his bid, copies of certificates demonstrating compliance with each of the Standards mentioned above

5.2.4 Contractor's Representative

Canada requests that bidders provide the following information:

Administrative representative :

Name :

Telephone :

Facsimile :

Email :

Technical representative :

Name :

Telephone :

Facsimile :

Email :

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PART 6 - RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from the bid solicitation.

6.1 Requirement

The Contractor must perform the work, in accordance with the Annex A – Requirements.

6.2 Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the Standard Acquisition Clauses and Conditions Manual(<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

6.2.1 General Conditions

2010A (2016-04-04), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

6.3 Security Requirements

6.3.1 There is no security requirement applicable to this Contract.

6.4 Term of Contract

6.4.1 Period of the Contract

The period of the Contract is from date of Contract to the end of the warranty period.

6.4.2 Delivery Date

In accordance with item 7. of Annex A.

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Nicolas Champoux
Supply Officer
Public Works and Government Services Canada
Acquisitions Branch
1550, D'Estimauville Avenue
Québec (Québec) G1J 0C7

Telephone: (418) 649-2821
Facsimile: (418) 648-2209
E-mail: nicolas.champoux@pwgsc-psgc.gc.ca

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

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6.5.2 Technical Authority (to be completed by Canada at contract award)

The Technical Authority for the Contract is:

Name: _____

Title: _____

Organization: _____

Address: _____

Telephone: ____ - ____ - ____

Facsimile: ____ - ____ - ____

E-mail address: _____

The Technical Authority named above is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Technical Authority, however the Technical Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

6.5.3 Contractor's Representative (to be completed by Canada at contract award)

Administrative representative :

Name : _____

Telephone : _____

Facsimile : _____

Email : _____

Technical representative :

Name : _____

Telephone : _____

Facsimile : _____

Email : _____

6.5.4 Contact at Customer Department (to be completed by Canada at contract award)

For all information related to invoicing and/or payments you may communicate with:

Customer Department : _____

Name : _____

Telephone : _____

Facsimile : _____

Email : _____

6.6 Payment

6.6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm lot price, as specified in Annex B - Basis of Payment. Customs duties are included and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

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Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work, unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

6.6.2 Method of Payment

6.6.2.1 Single Payment

SACC Manual Clause H1000C (2008-05-12), Single Payment

6.6.3 Shipping Instructions - Delivery at Destination

Goods must be consigned to the destination specified in the Contract and delivered:

Delivered Duty Paid (DDP) at Defence Research and Development Canada - Valcartier Research Center, located at 2459 de la Bravoure Road, Quebec, Quebec, Canada, G3J 1X5, Incoterms 2000 for shipments from a commercial contractor.

6.7 Invoicing Instructions

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.
2. Invoices must be distributed as follows:

The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.

6.8 Certifications

6.8.1 Compliance

The continuous compliance with the certifications provided by the Contractor in its bid and the ongoing cooperation in providing additional information are conditions of the Contract. Certifications are subject to verification by Canada during the entire period of the Contract. If the Contractor does not comply with any certification, fails to provide the additional information, or if it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

6.9 Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Quebec.

6.10 Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- (a) the Articles of Agreement;
- (b) the general conditions 2010A (2016-04-04), General Conditions - Goods (Medium Complexity);

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-
- (c) Annex A, Requirement;
 - (d) Annex B, Basis of Payment;
 - (e) Annex C, Preliminary Technical Documents;
 - (f) the Contractor's bid dated _____ .

6.11 Defence Contract

SACC Manual clause A9006C (2012-07-16) Defence Contract

6.12 Insurance Requirements

SACC Manual clause G1005C (2016-01-28) Insurance

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ANNEX A

REQUIREMENT

1. TITLE

Manufacturing of the drop tower test platform

2. BACKGROUND

DRDC Valcartier is setting up a new experimental facility to carry out impact studies on military equipment. To this end, a drop tower was designed and partly manufactured to simulate impacts at velocities higher than 9 m/s and decelerations higher than 1500 m/s². A subsystem of this facility is a test platform used to guide and support the tested items. DRDC has made the design of the test platform and requires the services of an external contractor to manufacture the platform. This platform will be subjected to repetitive impacts and will need to be manufactured and assembled to resist in such an environment.

3. ACRONYMS

CSA	Canadian Standard Association
AD	Applicable documents
SOW	Statement of work
DRDC	Defence Research and Development Canada
TA	Technical authority
CWB	Canadian Welding Bureau
WPS	Welding procedures specifications
WPDS	Welding procedures data sheet
PMI	Positive Material identification

4. APPLICABLE DOCUMENTS & REFERENCES

AD1: Preliminary technical documents.pdf: Preliminary technical documents of the platform manufacturing including parts, assembly, welding specifications and cutting templates suggested for the various components. PDF format document of 21 pages

AD2: CSA Standard W59.2, Welded Aluminum Construction, Welding.

AD3: CSA W47.2, Certification of companies for Fusion Welding of Aluminum

AD4: Spécifications Techniques – Mode Opératoire de Soudage – Mertec, 30 Aout 2016.

5. TASKS

5.1 Material transport, quality control plan and detailed welds specifications

The Contractor will have to coordinate and transport the materials identified in paragraph 11 to its workplace and provide details of its quality control plan as well as the details of the welds for different welding configurations identified in **AD1**.

The quality control plan should cover, at the least, the following aspects:

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File No. - N° du dossier

QCL-6-39268

Buyer ID - Id de l'acheteur

qc1029

CCC No./N° CCC - FMS No./N° VME

-
- 1) Visual and liquid penetrant inspections at mid-welding for 100% of the welds according to the CSA W59.2 standards (**AD2**);
 - 2) Identification of materials (Positive Material Identification (PMI));
 - 3) Visual and liquid penetrant inspections at full welding for 100% of the welds according to the CSA W59.2 standards (**AD2**);
 - 4) Dimensional inspection of the welded parts;
 - 5) Visual and dimensional inspection of the final machined assembly; and
 - 6) Intervention plan in case of non-compliance of the components during inspection.

The details of the welds should include, at the least, the following documents:

- 1) Welding procedures specifications (WPS) approved by the CWB. A WPS template indicating the recommended specifications is provided in **AD4**;
- 2) The welding procedure data sheet (WPDS) approved by the CWB for each weld configuration.

5.2 Machining and assembly of the platform at mid-welding

Following the acceptance of the quality control plans and detailed welds specifications by DRDC, the Contractor will perform the manufacturing of the platform components, including the cutting, machining and assembling operations according to the parts and assembly drawings specified in **AD1**. At this stage, the assembly will be welded up to mid-weld and an inspection of the welds will be conducted according to the standards established in the quality control plan provided in deliverable 6.1.

5.3 Completing the assembly of the platform

Following the confirmation of compliance of the assembly at mid-welding by DRDC, the Contractor will finalize the welded assembly and will perform the dimensional inspection of the assembly, as specified in the quality control plan.

5.4 Machining and final inspection of the platform

Following the confirmation of compliance of the assembly at full welding by DRDC, the Contractor will perform the final tolerance machining and conduct the final dimensional inspection of the workpiece.

5.5 Delivery of the platform to DRDC Valcartier

Following the confirmation of compliance of the final machined assembly by DRDC, the Contractor will perform the delivery of the platform from its manufacturing site to DRDC Valcartier.

6. DELIVERABLES

6.1 Deliverables for task 5.1

- 1) Materials transported to the Contractor and confirmation of delivery;
- 2) Quality control plan from the Contractor according to its standard format covering, at the least, the aspects identified in task 5.1 in PDF format.
- 3) Welds details in PDF format including:
 - a. Welding procedures specifications (WPS) that will be used, approved by the CWB.
 - b. The welding procedure data sheet (WPDS) approved by the CWB for each weld configuration.

6.2 Deliverables for task 5.2

- 1) Parts of the machined platform and assembly at mid-welding (at the Contractor's workplace);

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- 2) Inspection report including, at the last, the following results:
- Visual and liquid penetrant inspection; and
 - PMI report.

6.3 Deliverables for task 5.3

- Final welded assembly (at the Contractor's workplace);
- Visual and liquid penetrant inspection report of the completed welds.

6.4 Deliverables for task 5.4

- Final assembly machined according to the required tolerances (at the Contractor's workplace);
- Final dimensional inspection report.

6.5 Deliverables for task 5.5

Physical assembly of the components of the drop tower platform, manufactured according to the technical drawings and complying with the required quality control standards, delivered to DRDC Valcartier.

7. DATE OF DELIVERY

Deliverable 6.1: Within a maximum period of 20 days after the contract is awarded.

Deliverable 6.2: Within a maximum period of 40 days following the delivery of deliverable 6.1;

Deliverable 6.3: Within a maximum period of 20 days following the delivery of deliverable 6.2;

Deliverable 6.4: Within a maximum period of 15 days following the delivery of deliverable 6.3;

Deliverable 6.5: Within a maximum period of 10 days following the delivery of deliverable 6.4;

8. LANGUAGE OF WORK

English and French

9. LOCATION OF WORK

These services will need to be conducted at the Contractor's facilities.

The transportation of materials and the delivery of the platform will be made at the Contractor's expenses to and from the DRDC site at the following address:

Defence Research and Development Canada – Valcartier research center
Building 200
2459, route de la Bravoure
Québec, QC
G3J 1X5
Canada

10. MEETINGS

If necessary, contract follow-up meetings will be coordinated between the Contractor and the DRDC technical authority. As needed and as agreed with the Contractor, DRDC or an officially assigned member can visit the contractor for project monitoring purposes and / or quality control.

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qcl029

CCC No./N° CCC - FMS No./N° VME

11. GOVERNMENT SUPPLIED MATERIAL (GSM)

GSM 1: Preliminary technical drawings (**AD1**)

GSM 2: WPS example (**AD4**)

GSM 3: Aluminum plate 5083-H131, 2in thick:

Quantity: 2

Dimensions: 72in x 120in x 2 in

GSM 4: Aluminum plate 5083-H131, 3in thick:

Quantity: 1

Dimensions: 68 in x 49 in x 3 in

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File No. - N° du dossier

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Buyer ID - Id de l'acheteur

qcl029

CCC No./N° CCC - FMS No./N° VME

ANNEX B

BASIS OF PAYMENT

1. Manufacturing of the drop tower test platform

Item	Description	Qty	Firm Lot Price	Currency
1	Manufacturing of the drop tower test platform, including all deliverables described at Annex A	1	_____ \$	

*Delivered Duty Paid (DDP) Defence Research and Development Canada – Valcartier Research Center, Incoterms 2000 for shipments from a commercial contractor.

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W7701-176276

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File No. - N° du dossier

QCL-6-39268

Buyer ID - Id de l'acheteur

qcl029

CCC No./N° CCC - FMS No./N° VME

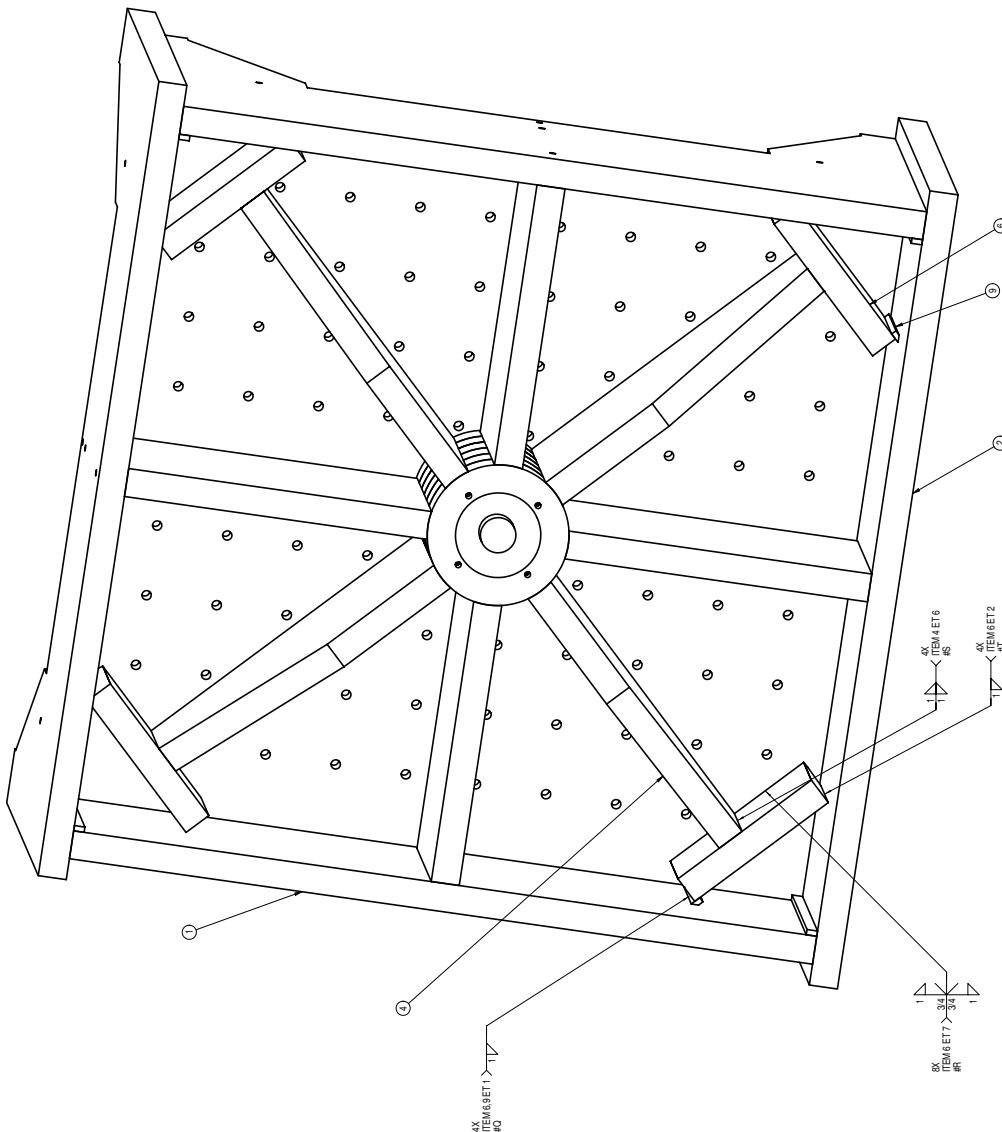
ANNEX C

PRELIMINARY TECHNICAL DOCUMENTS

Preliminary technical documents, which are enclosed, are to be inserted at this point and form part of this document.

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B 78.1 & 78.2



[FEUILLE / SHEET 2 DE / OF 2

DRC VALCARTIER

DEFENCE R & D CANADA - VALCARTIER

MANUFACTURE D'ARMES PROTECTION ET PROTOTYPIAGE

TECHNIQUES D'INGENIERIE

CONCEPTION AVANCEE

FONCTIONNELLE

PRODUCTION EN PETITE SERIE

TEST ET DEVELOPPEMENT

ENTRETIEN ET MAINTIEN

SECURITE / SECURITY

ECOLE DE DESSIN / DRAWING SCHOOL

ACADEMY OF DRAWING

UNIVERSITE DE MONTRÉAL

UNIVERSITY OF MONTREAL

UNIVERSITÉ DE MONTRÉAL

TYPE : TIRÉE

ÉCHELLE : 1:1

FORMAT : 28x36

DATE : 20/01/2016

N° DE DÉSSIN : 121108027

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PLATEFORME (SOUDURE)

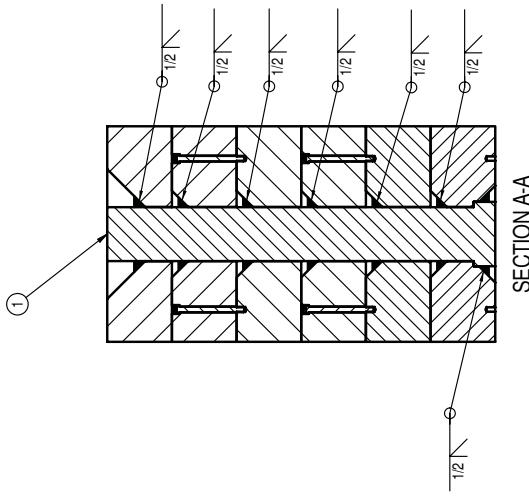
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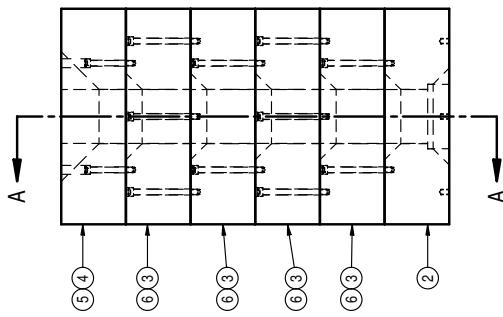
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2	121108041	PARTIE CENTRALE #1	1
3	121108042	PARTIE CENTRALE #2	4
4	121108129	PARTIE CENTRALE #3	1
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6	N/D	VIS TETE CYL 6PC 1/4-20UNC X 3 LG	16



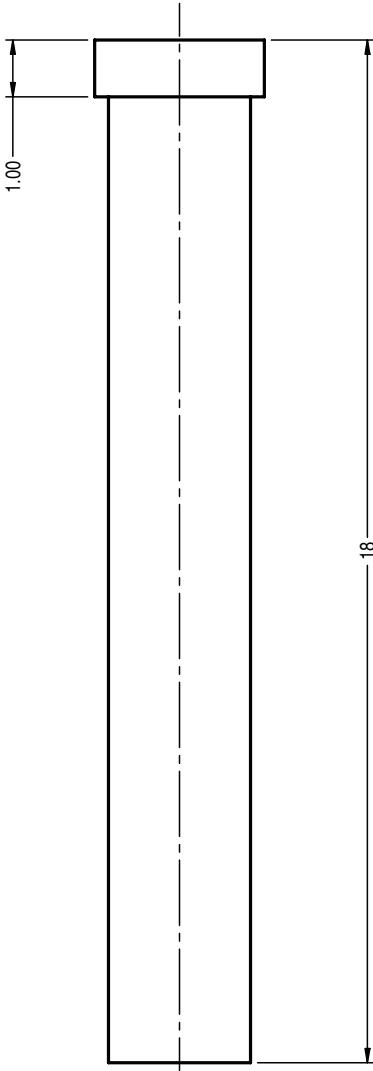
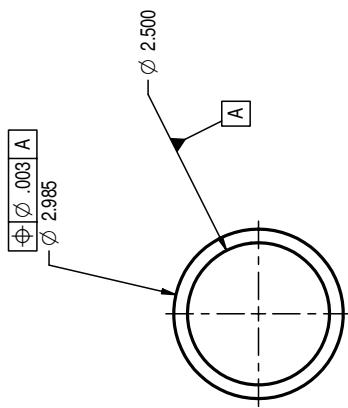
SECTION A-A



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1: MATERIAU: ALUMINIUM 5083-H131



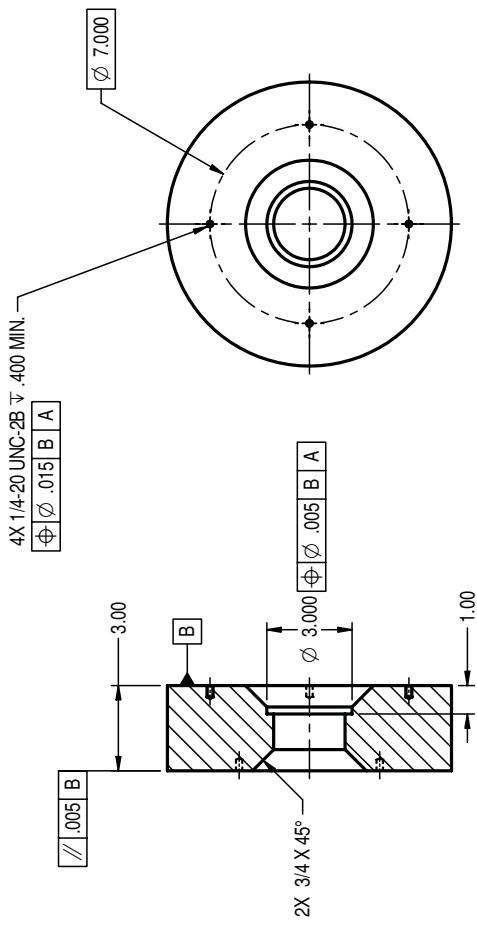
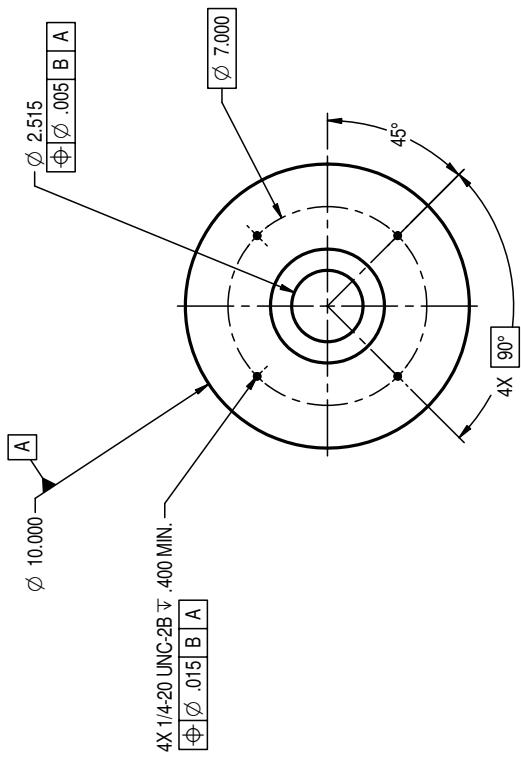
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			<p>SECURITE / SECURITY</p> <p>VERIFIE / CHECKED</p> <p>ACCEPTE / ACCEPTED</p>

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TOLEFRANCE / TOLERANCES ROUGHNESS DECIMALS / DECIMALS		CONCU / DESIGNED A. MAHEUX		TITRE / TITLE TIGE CENTRALE		
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1- MATERIAU: ALUMINIUM 5083 H131



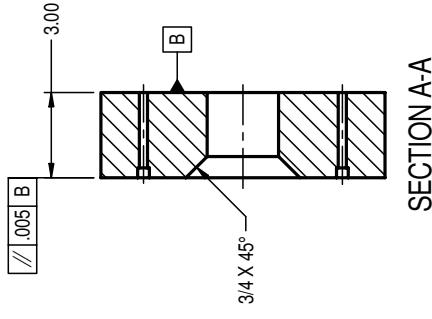
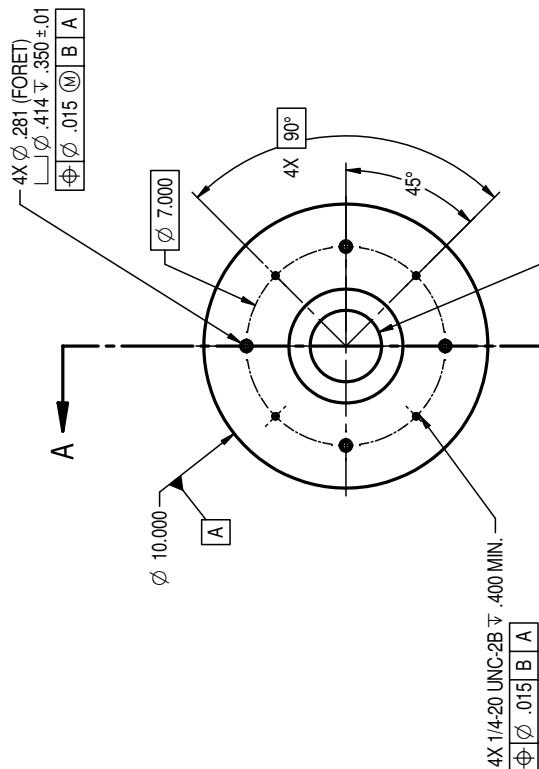
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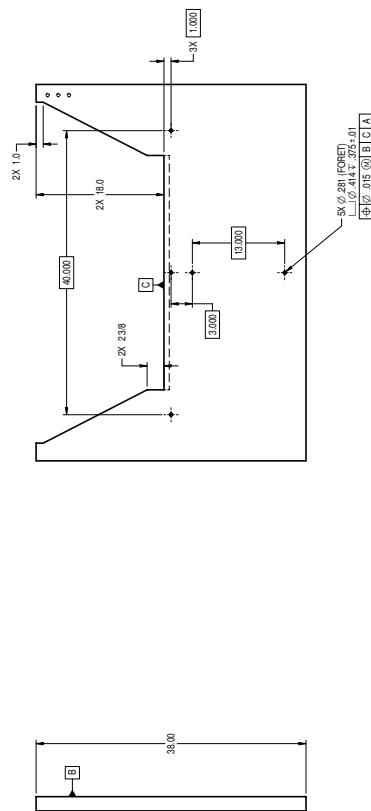
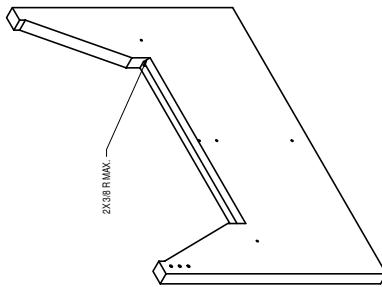
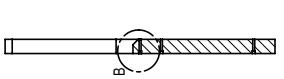
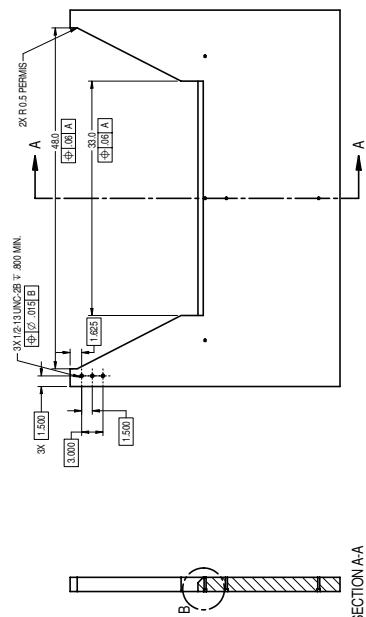
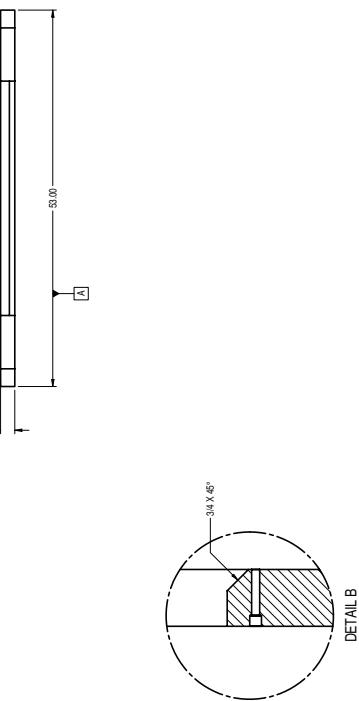
1- MATERIAU: ALUMINIUM 5083 H131



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		TOLENCES / TOLERANCES						
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		INTER. CORNERS 0.1 MAX. RADIIUS						
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INTERVIEW WITH JIM COLE

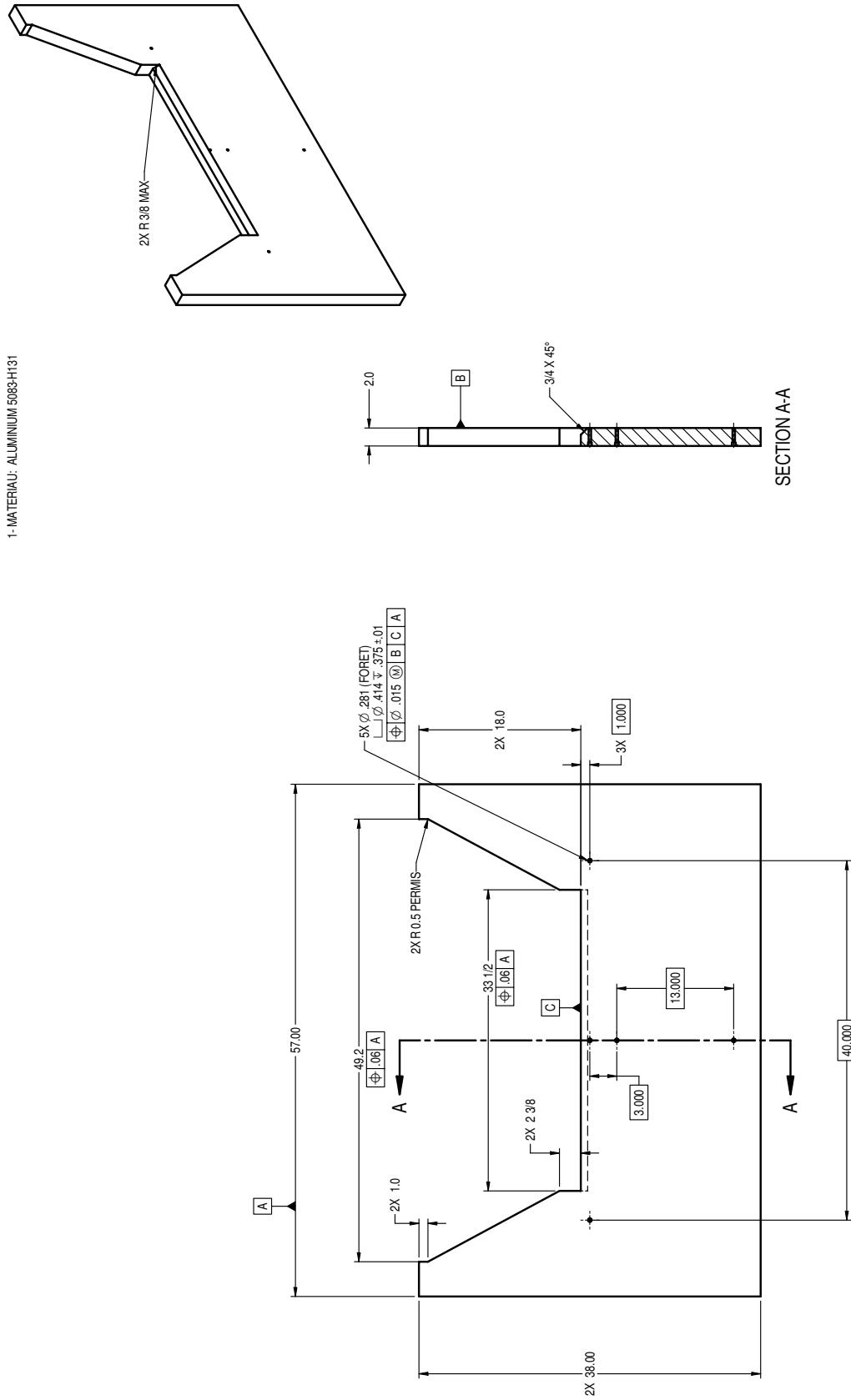


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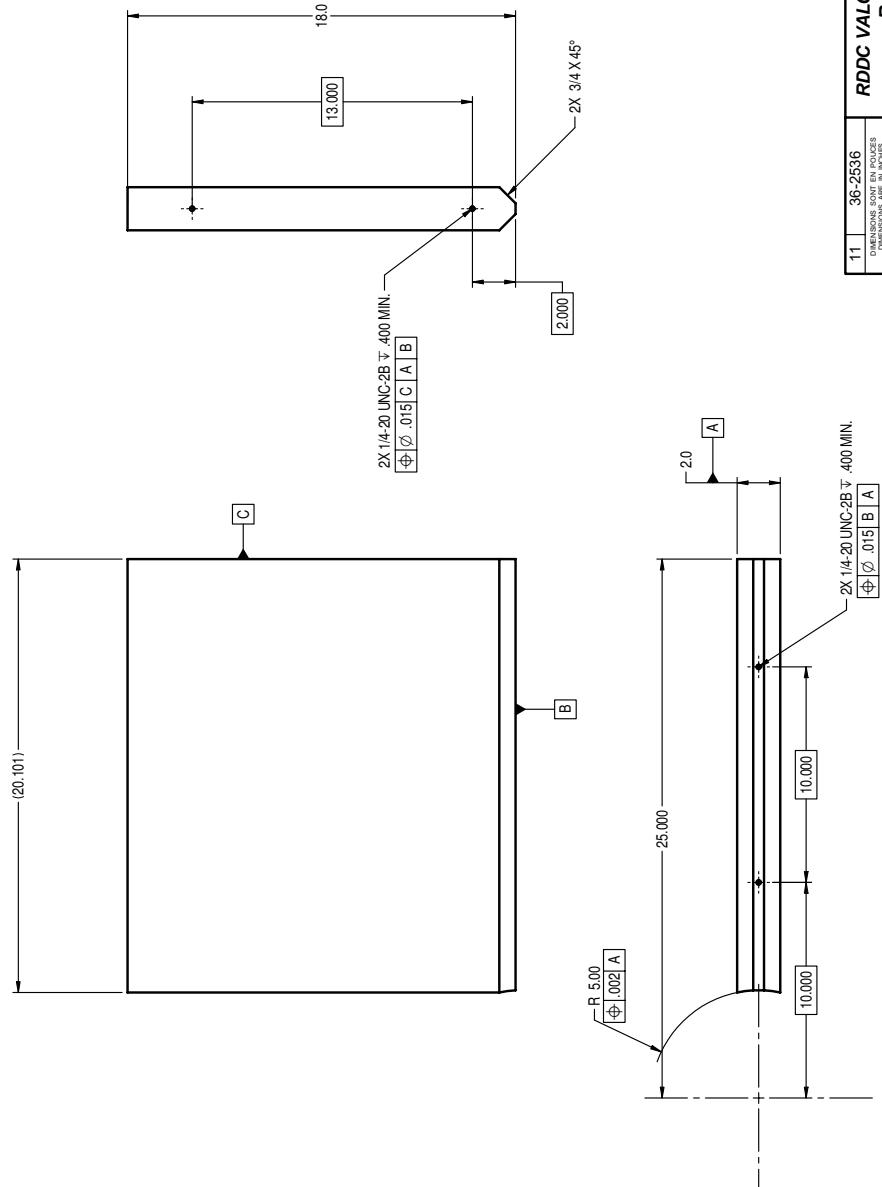
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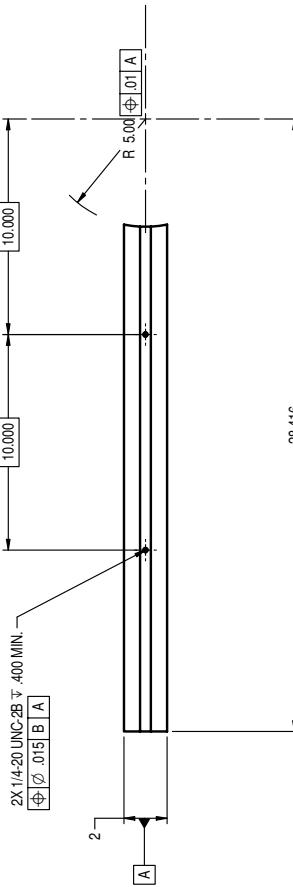
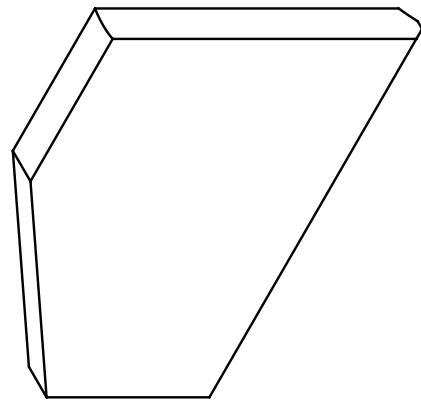
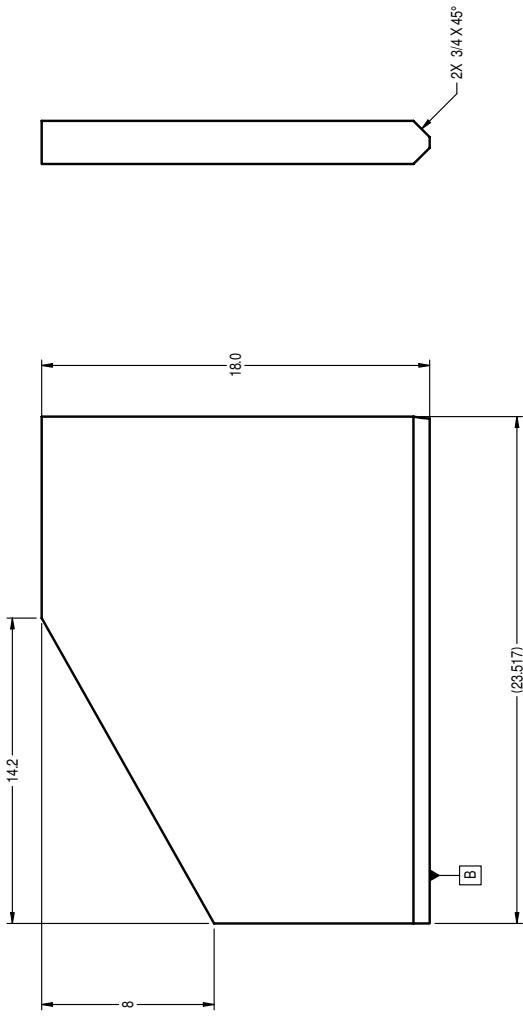


11	36-2536	RDRC VALCARTIER R & D POUR LA DEFENSE CANADA - VALCARTIER DEFENCE R & D CANADA - VALCARTIER	24550, BOUL. PIE XI, NORD / NORTH VAL-BELAIR, QUEBEC, G3J 1X5, CANADA	RDRC VALCARTIER DEFENSE CANADA - VALCARTIER
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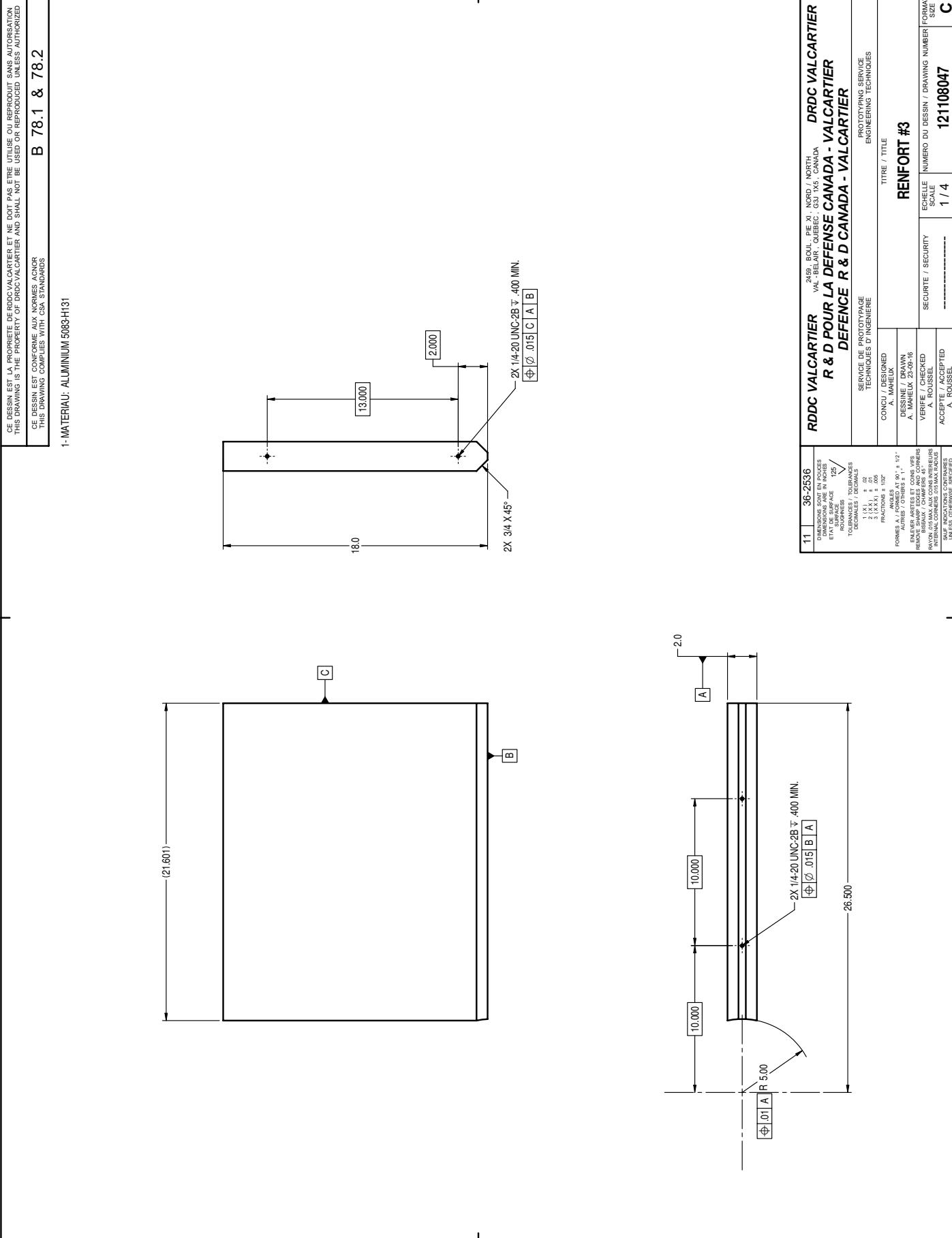
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1-MATERIAL: ALUMINUM 5083-H31



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		FRACTIONS 1/16 NOUS AVONS FORMÉ A 90° ± 1/2° AUTRES A OTHERS ± 1° VEILLEZ ARRÊTER LE COIN DES BISEAUX OU ANGLES 45° NE PAS BISEAUX OU ANGLES 45° INTENDES COUPEZ OU MARQUEZ SIAP INDICATIONS CONTRAIRES UNLESS OTHERWISE SPECIFIED	CONCU / DESIGNED A. MAHEUX	TITRE / TITLE RENFORTE #2
		DESSINÉ / DRAWN A. MAHEUX 16-0-16	SECURITE / SECURITY VERIFIÉ / CHECKED A. ROUSSEL	ECHÉLLE / SCALE 1 / 4
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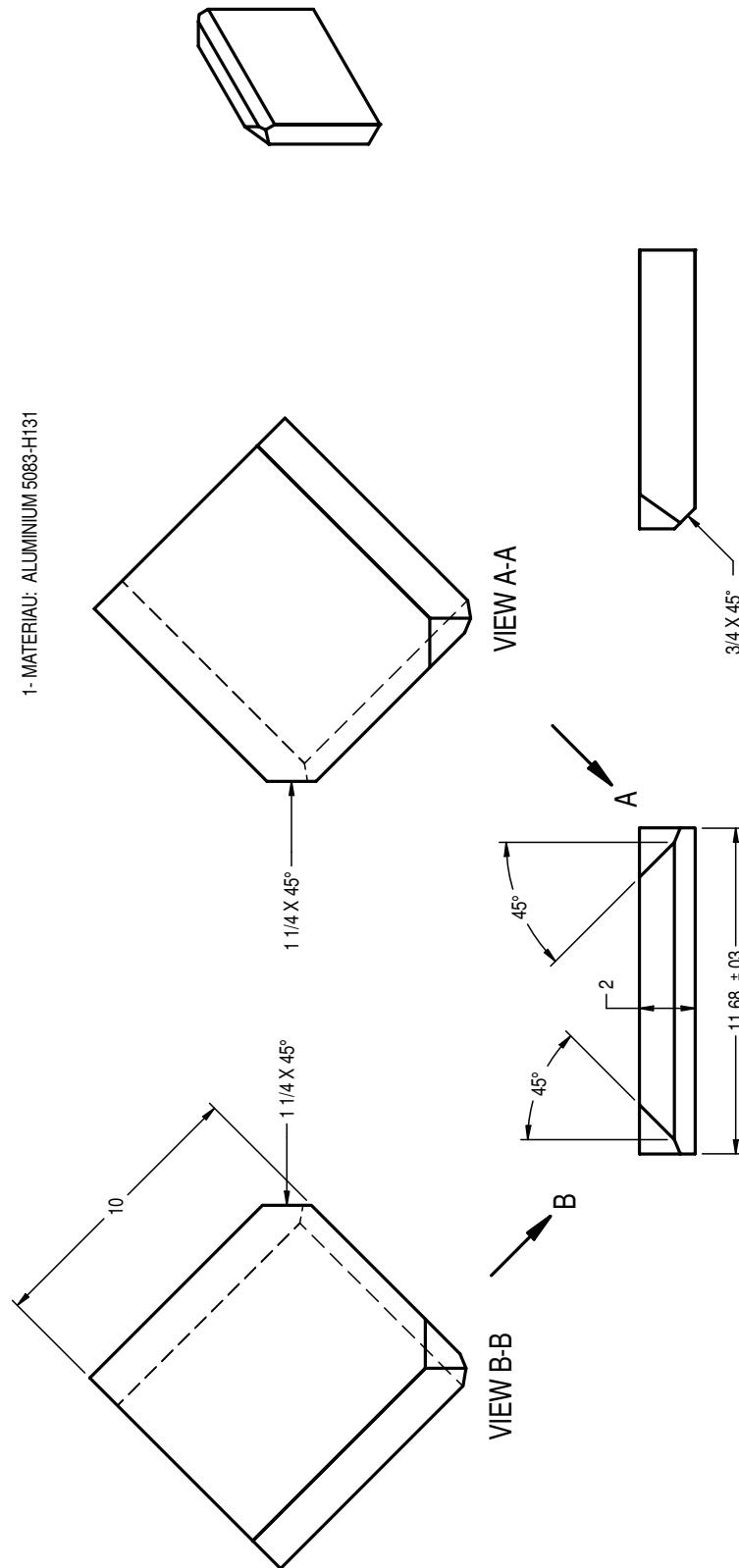


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1- MATERIAU: ALUMINIUM 5083-H131



2459, BOUL. PIE XI, NORD / NORTH
 VAL - BELAIR, QUEBEC, G3J 1X5, CANADA
RDDC VALCARTIER
R & D POUR LA DEFENSE CANADA - VALCARTIER
DEFENCE R & D CANADA - VALCARTIER

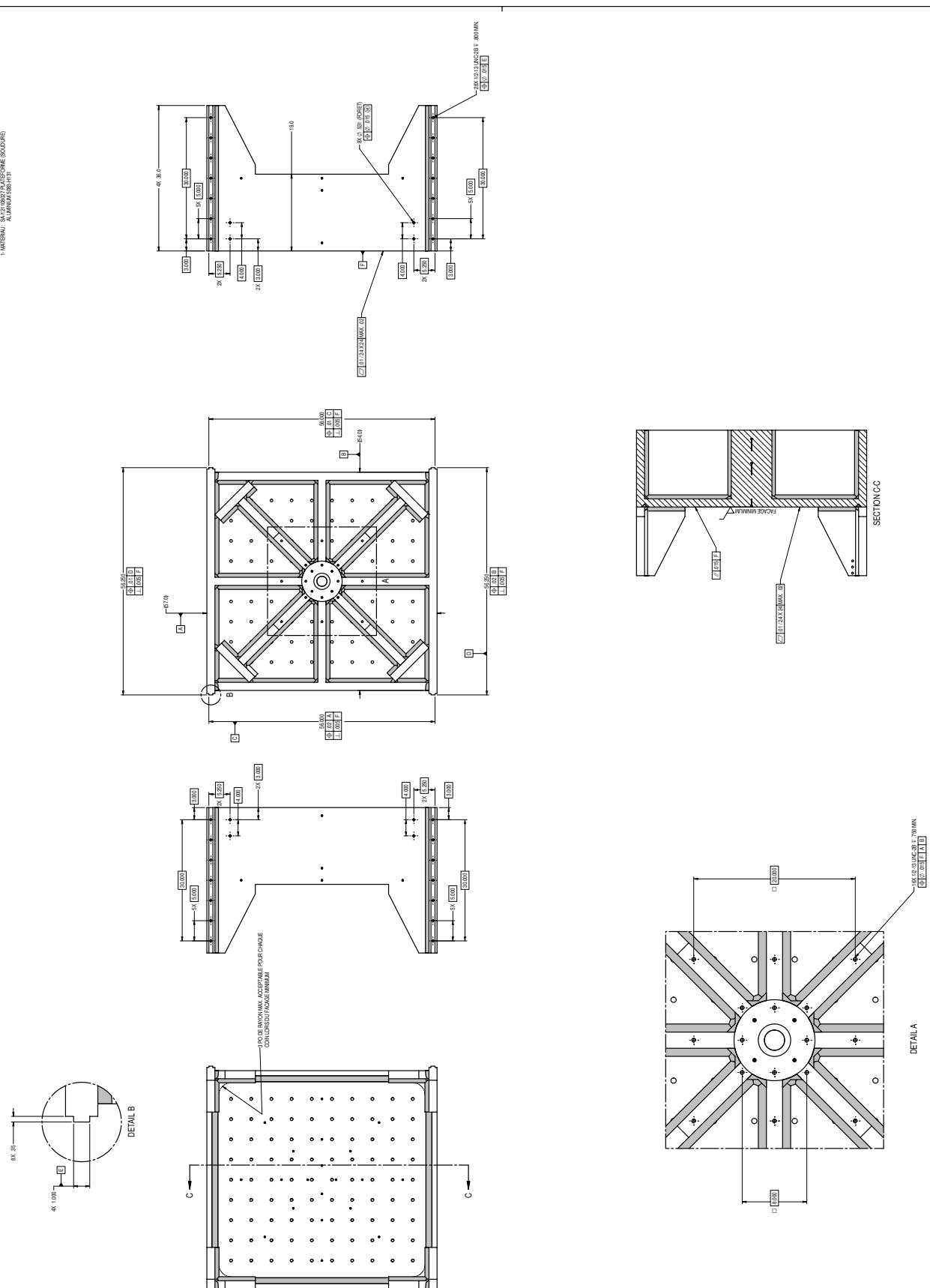
PROTOTYPING SERVICE
 ENGINEERING TECHNIQUES

TITRE / TITLE

RENFORTE #1

12	36-2536	DIMENSIONS SONT EN POUCES DIMENSIONS ARE IN INCHES ETAT DE SURFACE SURFACE ROUGNEURS / TOLERANCES DECIMALES / DECIMALS	SERVICE DE PROTOTYPAGE TECHNIQUES D'INGENIERIE
		1 (X) .02 2 (XX) .005 3 (XXX) .005 FRACTIONS .132"	CONCU / DESIGNED A. MAHEUX
		FORMES A FORMANDES AT 90° ± 12° AUTRES / OTHERS ± 1°.	DESSIN / DRAWN A. MAHEUX 23-05-16
		ENLEVER ARBETES ET CONS. VIES. REMOVE SHARP EDGES AND CORNERS BUSES, CHAMFERS 15°. RAYON 0.15 MAX. AUX CONS. INTERIEURS INTERNAL CORNERS 0.15 MAX. RADIIUS SAUF INDICATIONS CONTRAIRES UNLESS OTHERWISE SPECIFIED	VERIFIE / CHECKED A. ROUSSEL ACCEPTE / ACCEPTED A. ROUSSEL
			SECURITE / SECURITY ----- ECHELLE / SCALE 1 / 4 FORMAT SIZE B

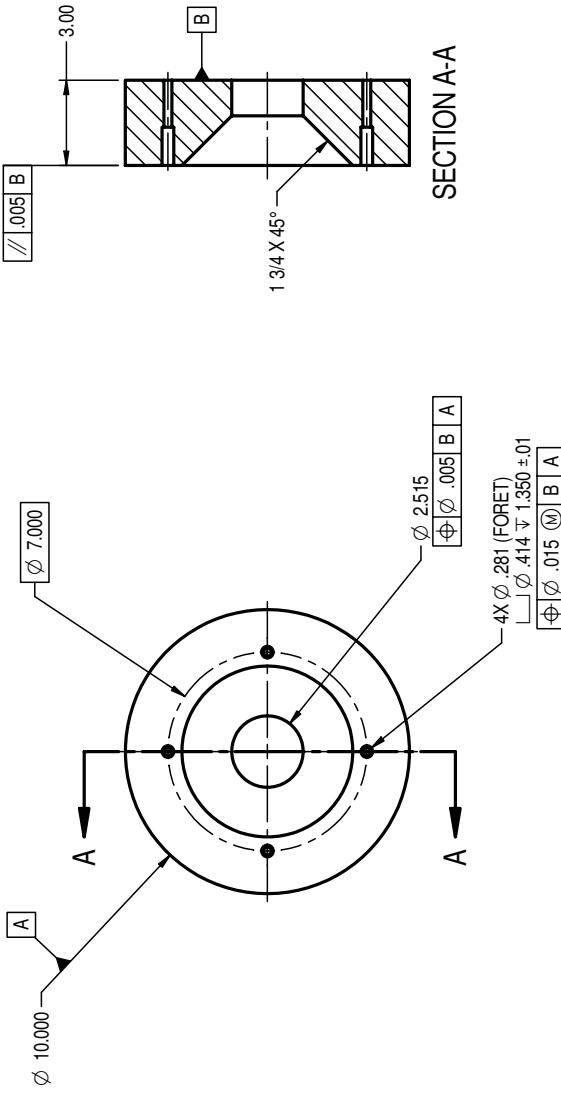
5. MATERIAU: SAI121108027 PLATEFORME (SOLIDE)



CE DESSIN EST LA PROPRIETE DE DRDC VALCARTEL ET NE DOIT PAS ETRE UTILISE OU REPRODUIT SANS AUTORISATION
THIS DRAWING IS THE PROPERTY OF DRDC VALCARTEL AND SHALL NOT BE USED OR REPRODUCED UNLESS AUTHORIZED

CE DESSIN EST CONFORME AUX NORMES ACNOR
THIS DRAWING COMPLIES WITH CSA STANDARDS

1: MATERIAU: ALUMINIUM 5083 H131



R&D POUR LA DEFENSE CANADA - VALCARTIER		DRDC VALCARTIER	
R&D POUR LA DEFENSE CANADA - VALCARTIER		DRDC VALCARTIER	
15	36-2556	<p>DIMENSIONS SONT EN POUCES ETATS DES SURFACES ROUGNEURS / TOLERANCES TOLENCES / TOLERANCES DECIMALES / DECIMALS</p> <p>1 (X) ± .02 2 (XX) ± .01 3 (XXX) ± .005</p> <p>FRACTIONS / DESIGNATIONS</p> <p>ANGLES FORMES A / FORMED AT 90° ± 1/2° AUTRES / OTHERS ± 1°</p> <p>ENLEVER ARBETS ET COINS VIFS REMOVE SHARP EDGES AND CORNERS RAYON DU RABAIS AUX CORNERS D'ISYMA VACUUS SAF INDICATIONS CONTRAIRES INFS, O/S, ETC, SPECIFIQUES</p>	<p>2459, ROUTE DE LA BRAVOURE QUEBEC, QUEBEC, G3J 1X5, CANADA</p> <p>GESTION DE GRANDS PROJETS ET PROTOTYPAGE TECHNIQUES D'INGÉNIERIE</p> <p>CONCU / DESIGNATED A. MAHEUX</p> <p>DESSINE / DRAWN A. MAHEUX 26-09-16</p> <p>VERIFIE / CHECKED B. PARADIS</p> <p>SECURITE / SECURITY B. PARADIS</p> <p>ACCEPTEE / ACCEPTED B. PARADIS</p>
PARTIE CENTRALE #3		PARTIE CENTRALE #3	
		<p>FORMAT SIZE B</p> <p>NUMERO DU DESSIN / DRAWING NUMBER 121108129</p>	<p>ECHELLE SCALE 1:4</p>

MANAGEMENT OF MAJOR PROJECTS AND PROTOTYPING SECTION ENGINEERING TECHNIQUES

TITRE / TITL

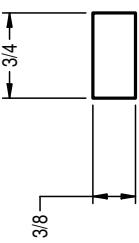
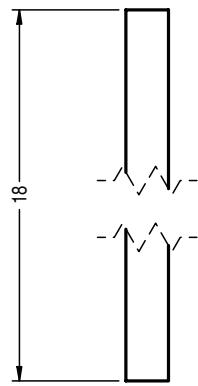
BAPTIE CENTRALE #3

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CE DESSIN EST CONFORME AUX NORMES ACHOR
THIS DRAWING COMPLIES WITH CSA STANDARDS

B 78.1 & 78.2

1- MATERIAU:



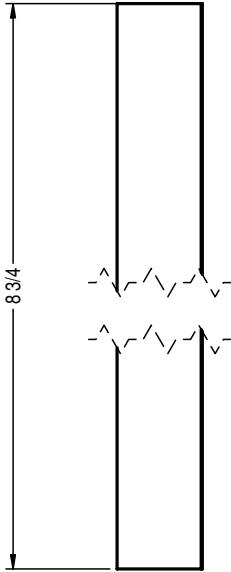
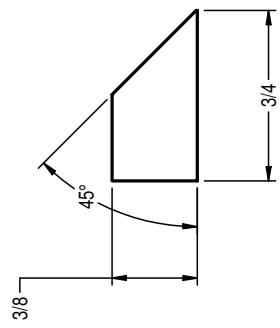
16	36-2536	RDDC VALCARTIER	2459 , ROUTE DE LA BRAVOURE QUEBEC , QUEBEC , G3J 1X5 , CANADA	DRCDC VALCARTIER
		R & D POUR LA DEFENSE CANADA - VALCARTIER		DEFENCE R & D CANADA - VALCARTIER
		GESTION DE GRANDS PROJETS ET PROTOTYPAGE		MANAGEMENT OF MAJOR PROJECTS AND PROTOTYPING SECTION
		TECHNIQUES D'INGENIERIE		ENGINEERING TECHNIQUES
		CONCU / DESIGNED A. MAHEUX		TITRE / TITLE
		DESSINE / DRAWN A. MAHEUX 28-05-16		PLAQUE DE SOUTIEN
		VERIFIE / CHECKED B. PARADIS	SECURITE / SECURITY -----	FORMAT SIZE B
		ACCEPTE / ACCEPTED B. PARADIS	ECHELLE SCALE 1:1	
			NUMERO DU DESSIN / DRAWING NUMBER	

CE DESSIN EST LA PROPRIETE DE RDDC VALCARTIER ET NE DOIT PAS ETRE UTILISE OU REPRODUIT SANS AUTORISATION
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CE DESSIN EST CONFORME AUX NORMES ACNOR
THIS DRAWING COMPLIES WITH CSA STANDARDS

B 78.1 & 78.2

1- MATERIAU:



16	36-2536	RDDC VALCARTIER	2459 , ROUTE DE LA BRAVOURE QUEBEC , QUEBEC , G3J 1X5 , CANADA	DRCDC VALCARTIER
		R & D POUR LA DEFENSE CANADA - VALCARTIER		
		DEFENCE R & D CANADA - VALCARTIER		
		GESTION DE GRANDS PROJETS ET PROTOTYPAGE		MANAGEMENT OF MAJOR PROJECTS AND PROTOTYPING SECTION
		TECHNIQUES D'INGENIERIE		ENGINEERING TECHNIQUES
		CONCU / DESIGNED A. MAHEUX		TITRE / TITLE
		DESSINE / DRAWN A. MAHEUX 28-05-16		PLAQUE DE SOUTIEN #2
		VERIFIE / CHECKED B. PARADIS		
		ACCEPTE / ACCEPTED B. PARADIS		
			SECURITE / SECURITY -----	FORMAT SIZE 2:1
			ECHELLE / SCALE -----	B
			NUMERO DU DESSIN / DRAWING NUMBER 121108131	

