

**RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:**

**Bid Receiving - PWGSC / Réception des
soumissions - TPSGC**

**11 Laurier St./11, rue Laurier
Place du Portage, Phase III
Core 0A1 / Noyau 0A1
Gatineau, Québec K1A 0S5
Bid Fax: (819) 997-9776**

**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

Title - Sujet MOBILE STORAGE SHELVING UNITS		
Solicitation No. - N° de l'invitation EP076-130001/A	Date 2013-11-19	
Client Reference No. - N° de référence du client EP076-130001		
GETS Reference No. - N° de référence de SEAG PW-\$\$PQ-407-63932		
File No. - N° de dossier pq407.EP076-130001	CCC No./N° CCC - FMS No./N° VME	
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2014-01-07		Time Zone Fuseau horaire Eastern Daylight Saving Time EDT
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>		
Address Enquiries to: - Adresser toutes questions à: Miller, Tracey		Buyer Id - Id de l'acheteur pq407
Telephone No. - N° de téléphone (819) 956-2459 ()	FAX No. - N° de FAX () -	
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: Specified Herein Précisé dans les présentes		

Instructions: See Herein

Instructions: Voir aux présentes

Vendor/Firm Name and Address

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

Issuing Office - Bureau de distribution

Furniture Division/Division des produits de l'ameublement
11 Laurier St. / 11, rue Laurier
6B1, Place du Portage
Gatineau
Québec
K1A 0S5

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

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PART 1 - GENERAL INFORMATION

1. Security Requirement

There is no security requirement associated with this bid solicitation.

2. Requirement

The Department of Public Works and Government Services Canada on behalf of The Department of National Defence has a requirement for the supply, delivery and installation of a 4-post Mobile Shelving Unit in accordance with Annex A - Product Description detailed herein located in Ottawa, Ontario.

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 of receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

PART 2 - BIDDER INSTRUCTIONS

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 (2013-06-01) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Subsection 5.4 of 2003, Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: sixty (60) days

Insert: one hundred twenty (120) days

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.

Due to the nature of the bid solicitation, bids transmitted by facsimile to PWGSC will not be accepted.

3. Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than twenty (20) calendar 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 questions or may request that the Bidder do so, so that the proprietary nature of the question is eliminated, and the enquiry can be answered with copies to all bidders. Enquiries not submitted in a form that can be distributed to all bidders may not be answered by Canada.

4. Applicable Laws

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

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.

PART 3 - BID PREPARATION INSTRUCTIONS

1. Bid Preparation Instructions

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

Section I: Technical Bid (2 hard copies) and 2 soft copies on CD.
 Section II: Financial Bid (2 hard copies)
 Section III: Certifications (2 hard copies)

If there is a discrepancy between the wording of the soft copy and the hard copy, the wording of the hard copy will have priority over the wording of the soft 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. The total amount of Applicable Taxes must be shown separately. See Annex C for Pricing Schedule.

1.1 SACC Manual Clauses

C3010T (2010-01-11) Exchange Rate Fluctuation

Section III: Certifications

Bidders must submit the certifications required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

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.

Unless otherwise stated herein, all information must be submitted with the bid no later than the closing date and time of the solicitation.

1.1 Technical Evaluation

1.1.1 Mandatory Technical Criteria

1.1.1.A	Mandatory Technical Criteria (MTC)
MTC1	<p><u>MTC 1.1</u> The Bidder must submit a component listing of products proposed demonstrating that products meet the technical specifications detailed in Annex A (Specification section 10675; Industrial type Metal Shelving) and Annex B Drawings.</p> <p>As a minimum, the component listing and descriptive information must address the following:</p> <ol style="list-style-type: none"> 1. Series Name 2. Model Number 3. Short Product Description <p><u>MTC1.2</u> To demonstrate MTC1.1 the Bidder must submit the above, in CD/DVD format, in Adobe Acrobat PDF version 7 or older, or hard copy.</p>
MTC2	<p><u>MTC2.1</u> The Bidder must submit an electronic drawing(s) of the products proposed which must include a floor plan with width and depth dimensions of the product and an elevation view with height dimensions of the product, in accordance with the technical specifications;</p> <ul style="list-style-type: none"> - Section 10675, dated 2013-10-31 - Drawings A1 and A2, dated 2013-10-01 <p><u>MTC2.1a Unit A Criteria</u></p> <ul style="list-style-type: none"> - overall dimension - Shelf loads - Shelf spacing - Ability to accept additional shelves <p><u>MTC 2.1b Unit B Criteria</u></p>

	<ul style="list-style-type: none"> - overall dimension - Shelf loads - Shelf spacing - Ability to accept additional shelves <p><u>MTC 2.1c Unit C Criteria</u></p> <ul style="list-style-type: none"> - overall dimension - Shelf loads - Shelf spacing - Ability to accept additional shelves <p><u>MTC2.2</u> The drawings in MTC2.1 must be submitted in CD format written in either Adobe pdf version 7 or older, or AutoCAD version 2008 or older, or hard copy.</p>
MTC3	<p><u>MTC3.1</u> The offeror must complete, with its offer, the Testing Certification in Part 5 herein.</p>

1.2 Financial Evaluation

SACC Manual Clause A0220T (2013-04-25), Evaluation of Price

2. Basis of Selection

2.1 *SACC Manual* Clause A0031T (2010-08-16);

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.

PART 5 - CERTIFICATIONS

Bidders must provide the required certifications and documentation 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 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 with this request will also render the bid non-responsive or will constitute a default under the Contract.

1. Mandatory Certifications Required Precedent to Contract Award

1.1 Code of Conduct and Certifications - Related documentation

By submitting a bid, the Bidder certifies that the Bidder and its affiliates are in compliance with the provisions as stated in Section 01 Code of Conduct and Certifications - Bid of Standard Instructions 2003. The related documentation therein required will assist Canada in confirming that the certifications are true.

1.2 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](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml)" list (http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml) available from [Human Resources and Skills Development Canada \(HRSDC\)](#) - Labour's website.

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.

PART 6 - RESULTING CONTRACT CLAUSES

1. Security Requirement

There is no security requirement applicable to this Contract.

2. Requirement

The Department of Public Works and Government Services Canada on behalf of The Department of National Defence has a requirement for the supply, delivery and installation of a 4-post Mobile Shelving Unit in accordance with Annex A - Product Description detailed herein located in Ottawa, Ontario.

3. 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.

3.1 General Conditions

2010A (2013-04-25), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

4. Term of Contract

4.1 Delivery Date

All the deliverables must be received and installed on or before February 28, 2014.

Can this date be met: Yes _____

No _____, the best date that can be offered is _____.

The Contractor must advise the delivery and installation schedule with the Project Authority no less than 72 hours in advance of accessing the delivery location.

Delivery and installation are to be completed during normal working hours (defined as Monday to Friday, 8:00 am to 4:00 pm).

Note: Due to turning radius restrictions, the loading dock cannot easily accommodate an 18-wheeler; however it can accommodate a 5 tonne truck. Truck must be equipped with portable ramps or hydraulic folding platforms. Components are to be delivered to the site in the original unopened containers and packing, bearing the manufacturer's seals and labels.

5. Authorities

5.1 Contracting Authority

The Contracting Authority for the Contract is:

Tracey Miller
Supply Officer

Public Works and Government Services Canada Acquisitions Branch

11 Laurier, Gatineau (Quebec) K1A 0S5

Telephone: 819-956-2459

E-mail address: tracey.miller@pwgsc.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.

5.2 Project Authority

The Project Authority for the Contract is:

Name: _____

Title: _____

Organization: _____

Address: _____

Telephone: ____-____-____

Facsimile: ____-____-____

E-mail: _____.

The Project Authority 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 Project Authority, however the Project 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. Payment**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 A for a cost of \$ _____ **(to be inserted at Contract award)**. Customs duties and excise taxes are included. Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

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.

6.2 Single Payment

SACC *Manual* clause H1000C (2008-05-12)

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:

- a. The original and one (1) copy must be forwarded to the following address for certification and payment.

PWGSC/RPT4/CMA
ATT: PAUL ALBERT
285 Conventry Road, WS 1A03
OTTAWA ON K1A 0S5

- b. One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

8. Certifications

8.1 Compliance

Compliance with the certifications and related documentation provided by the Contractor in its bid is a condition of the Contract and subject to verification by Canada during the term of the Contract. If the Contractor does not comply with any certification, provide the related documentation 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.

9. Applicable Laws

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

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;
- (c) the general conditions 2010A (2013-04-25)
- (d) Annex A, Requirement;
- (e) Annex B, Drawings;
- (f) Annex C, Pricing Schedule
- (g) the Contractor's bid dated _____

11. SACC Manual Clauses

A9068C (2010-01-11) Government Site Regulations
B7500C (2006-06-16) Excess Goods
G1005C (2008-05-12) Insurance

12. Shipping Instructions

Ship to: 2379 Holly Lane
OTTAWA ON K1A 0S5

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

Delivered Duty Paid (DDP) Ottawa, Ontario Incoterms 2000 for shipments from a commercial contractor.

13. Installation Services

Installation services must be provided for the products contracted. The minimum level of service required is detailed below. The Contractor must:

1. Receive, unload, store and transport all products/pieces to the staging and/or installation site;
2. Unpack all pieces and inspect products for shipping damage;
3. Install all products in accordance with the manufacturer's specifications;
4. Ensure all other products function properly and make minor adjustment/repairs;
5. Touch up all minor nicks and scratches on the product that may have occurred during installation;
6. Clean the products once installed;
7. Clean up the installation site. The site must present a neat, orderly and workmanlike appearance at all times. This must be accomplished by the removal of scrap material, debris and the like from the site, as frequently as is necessary, using a dumpster arranged for by the Contractor; and
8. Upon completion of the installation and at the convenience of the Project Authority, the Contractor (or his authorized representative) must walk through the installation site with the Project Authority (or an authorized representative of the Project Authority) to verify the operating condition of all products in accordance with the Deficiency Procedures.

14. Deficiency Procedures

The Contractor must adhere to the following deficiency procedures:

1. The Contractor must notify the Project Authority when the installation is completed;
2. The Project Authority must arrange for the inspection with the Contractor;
3. The inspection must take place no later than three business days after installation is completed;
4. If the contract is for a phased installation, the walk-through inspection must take place no later than three business days after the completion of each phase;
5. The Project Authority, in consultation with the Contractor, must prepare the deficiency list documenting all problems in every installation area;
6. The deficiency list must be forwarded by the Project Authority to the Contractor;

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pq407EP076-130001

CCC No./N° CCC - FMS No/ N° VME

-
7. Within three business days of receipt of this deficiency list, the Contractor must complete all minor deficiencies and make all adjustments not requiring new parts;
 8. For all deficiencies other than those identified in point 7, the Contractor must submit the plan of action with delivery dates or completion dates within fourteen calendar days from receipt of the deficiency list from the Project Authority and;
 9. The Contractor must notify the Project Authority when all deficiencies have been completed. If the Project Authority is satisfied with the deficiency corrections, the Project Authority must provide the Contractor a final sign-off that the deficiencies have been satisfied.

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ANNEX "A"
REQUIREMENT

SEE ATTACHED WORD DOCUMENT

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ANNEX "B"
DRAWINGS

SEE ATTACHED PDF DOCUMENT

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**ANNEX C
PRICING SCHEDULE**


Pricing Schedule	
Bidder is to bid a total firm lot price for the supply, delivery, and installation of the Mobile Shelving units being acquired as detailed in Annex A herein.	
<hr/>	
Price for product, delivery and installation in Canadian Funds,	
Applicable taxes excluded \$	_____
APPLICABLE TAXES	\$ _____
TOTAL	\$ _____

revisions	description	data
-----------	-------------	------

A dessin no.
no. du dessin

B location drawing no.
sur dessin no.

C drawing no.
dessin no.



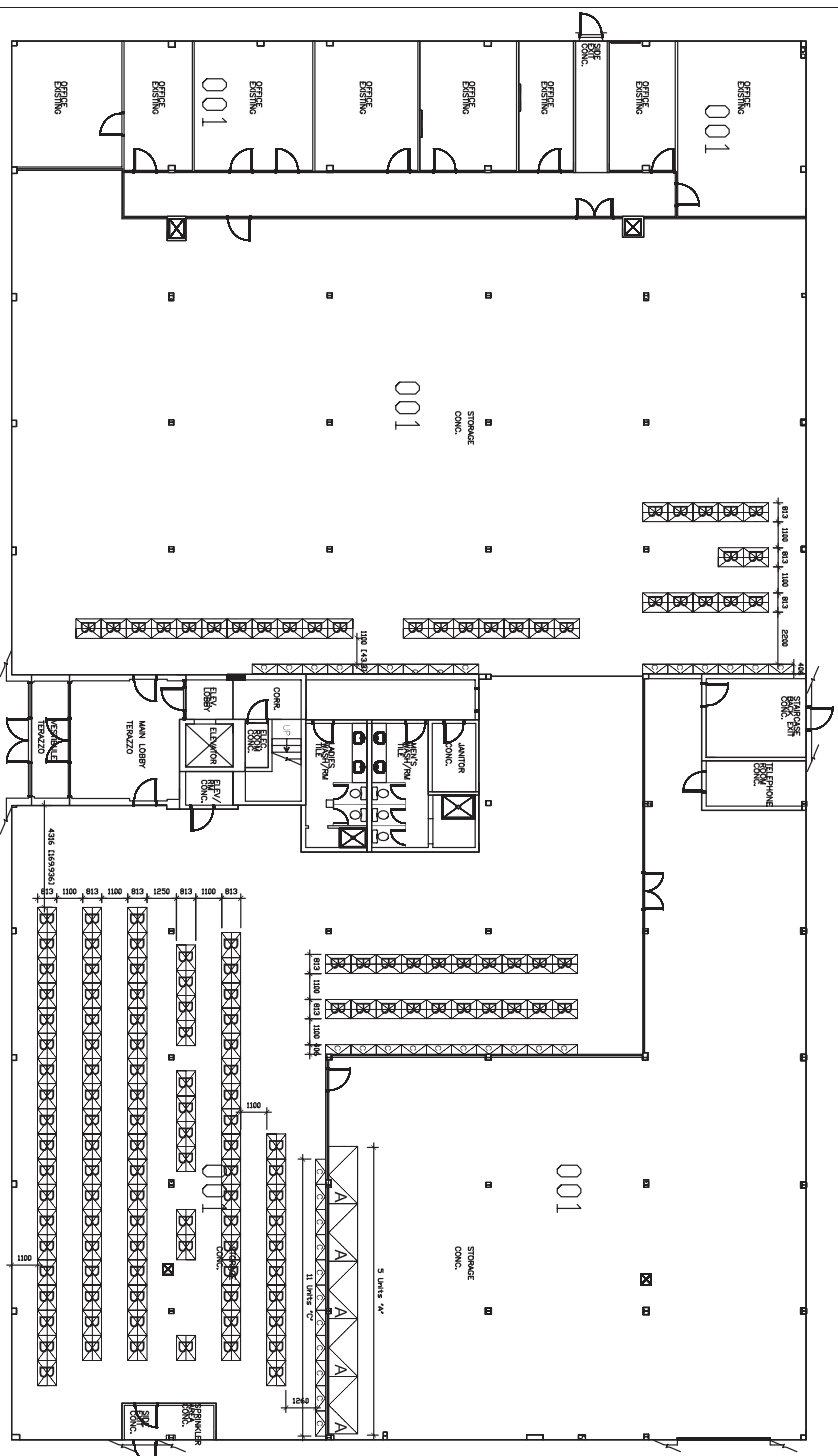
project 2379-HOLLY-LANE proj

ADDRESS

dess	drawing
<p>  </p>	<p>  </p>

Designed By	Concup pi
Date	(yyyy/mm/dd)
Drawn by	Dessiné par
T.MARTSCHENKO	
Date	2013/10/1
Reviewed By	Examiné par
	(yyyy/mm/dd)
Approved By	Approuvé par
Date	(yyyy/mm/dd)
Tender	Soumis
P. ALBERT	
Project Manager	Administrateur de projet
Project no.	No. du projet

Drawing no.	No. du dessin
R.064141.005	





Contractor to verify all dimensions & conditions on site and immediately notify the engineer of all discrepancies.

revision	description	date

A

C

A detail no.
B surf design no.
C drawing no.
design no.

A

B

C

A detail no.
B surf design no.
C drawing no.
design no.

project 2379-HOLLY-LANE
SHELF_DIMENSIONS

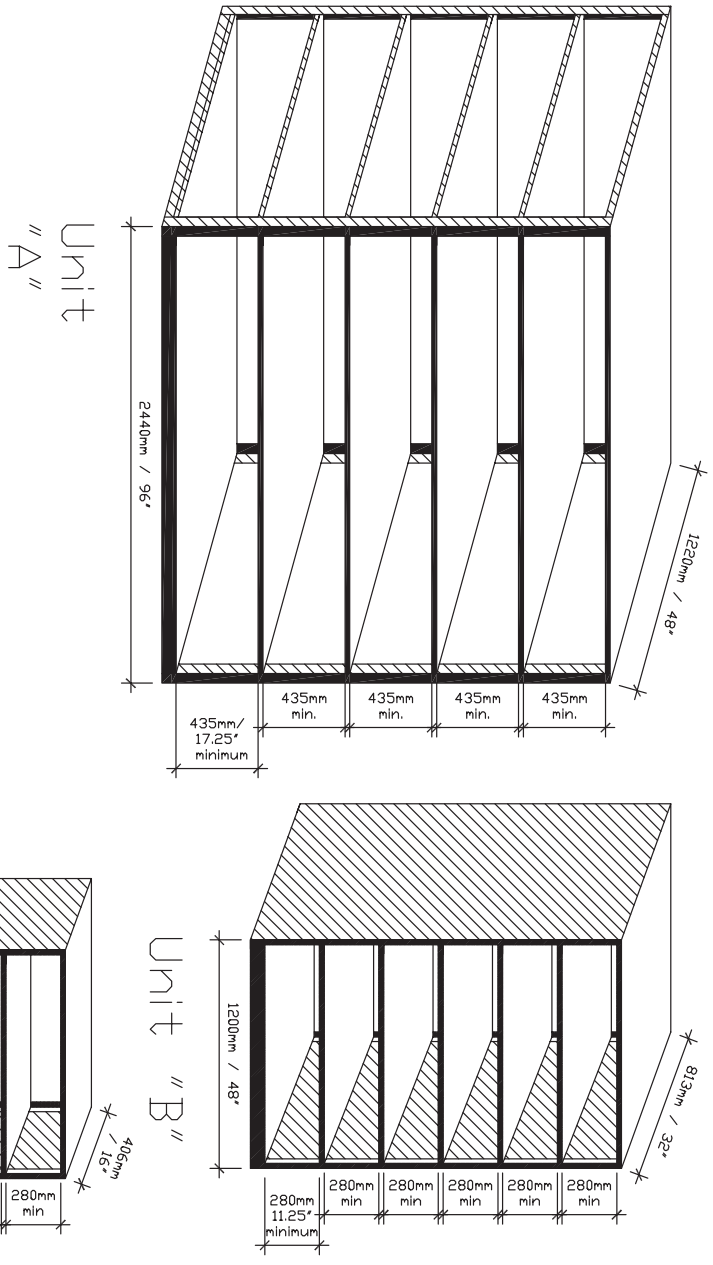
ADDRESS

drawing dsss

Designed By	Conçu par
Date	Établi le
Drawn By	Dessiné par
Date	
Reviewed By	Examiné par
Date	
Approved By	Approuvé par
Date	
Tender	Soumission
Project Manager	Administrateur de projet
Project no.	No. du projet

R.064151.005

Drawing no. A2
No. du dessin



Section Cover Page

2013-10-31

Section 10675
Industrial Type Metal Shelving

Use this Section to specify industrial type metal shelving and pallet-racking.

This Master Specification Section contains:

- .1 This Cover Sheet
- .2 Specification Section Text:
 - 1. General**
 - 1.1 Reference Documents
 - 1.2 Description of System
 - 1.3 Design Criteria
 - 1.4 Performance Requirements
 - 1.5 Submittals
 - 2. Products**
 - 2.1 Materials
 - 2.2 Finishes

Data Sheet - Reference Standards

2013-10-31

Section 10675
Industrial Type Metal Shelving

Applicable Standards

- | | | |
|----|--------------------|---|
| .1 | ANSI MH28.2-2003 | Design and Testing of Metal - Wood Shelving - Specification |
| .2 | ASTM A653M-96 | Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvanized) by the Hot Dip Process |
| .3 | ASTM D3451 | Standard Guide for testing Coating Powders and Powder Coatings |
| .4 | CAN/CGSB-1.300-M90 | Applied Coating System, Semi-gloss, Baked, for Metal Office Furniture |
| .5 | CAN/CSA-G40.21-M92 | Structural Quality Steels |

1. General

1.1 REFERENCE DOCUMENTS

- .1 Shelving must meet or exceed requirements of ANSI MH28.2-2003 - Design and Testing of Metal - Wood Shelving - Specification

1.2 DESCRIPTION OF SYSTEM

- .1 General: Prefinished, self-supporting metal storage shelving and pallet-racking consisting of the following constituent parts:
 - .1 Type A - Pallet-racking without side panels (for the storage of bundled corrugated shipping cartons):
 - .1 Uprights – able to support Load Beam loads
 - .2 Load beams – able to support shelf loads
 - .3 Shelves: 6 - @2440mm (96”) wide x 1220mm (48”) deep (or system to provide equivalent area) that must support a minimum 2,000 kg per shelf
 - .4 Bracing – as required by the manufacturer
 - .2 Type B – Industrial shelving with side panels (for the storage of documents in boxes):
 - .1 Uprights – able to support shelf loads
 - .2 Shelves: 7 - 1067mm (42”) wide x 813mm (32”) deep metal bolt-less shelves required to create 6 openings of 280mm minimum height. Shelf capacity must be a minimum of 350 kg each.
 - .3 Kickplates: to be provided below the bottom shelf
 - .4 Gusset plates: As required, in order to allow access to both sides of the units
 - .5 Side Panels; Metal panels that provide separation between adjacent units and at the end of a series of units
 - .6 Connectors
 - .7 Other necessary components and accessories
 - .3 Type C – Industrial shelving with side panels (for the storage of documents in boxes):
 - .1 Uprights – able to support shelf loads
 - .2 Shelves: 7 - 1067mm wide x 406mm metal shelves required to create 6 openings of 280mm minimum height. Shelf capacity must be a minimum of 225 kg each.
 - .3 Kickplates to be provided below the bottom shelf
 - .4 Gusset plates: As required, in order to allow access to both sides of the units
 - .5 Side Panels; Metal panels that provide separation between adjacent units and at the end of a series of units
 - .6 Connectors
 - .7 Other necessary components and accessories

1.3 DESIGN CRITERIA

- .1 Method of Assembly:
 - .1 Type A: Pallet-Racking: Must be bolt-less
 - .2 Types B & C Shelving: Must be bolt-less.
 - .3 All units must be easily assembled and completely demountable and re-locatable with total reusability of all components.
- .2 Adjustability:
 - .1 Pallet-racking (Type A): design components to allow for vertical adjustment in 50mm minimum -100 mm maximum increments.
 - .2 Shelving (Types B and C): design components to allow for vertical adjustment in 25mm minimum - 50 mm maximum increments.
 - .3 For all types of shelving – the unit must be able to accept add-ons to increase the overall height to no more than 3048mm (120”), without compromising capacity and safety.

- .3 Sizes and Configuration:
 - .1 Pallet-racking; Unit - Type A:
 - .1 Depth: 1220 mm (48")
 - .2 Width: 2440 mm (96")
 - .3 Height: As required to accommodate 5 shelves with a minimum clearance of 435mm (17.25") between shelves and a top shelf
 - .4 Levels per unit: 5
 - .5 Distance between shelves; Minimum 435mm (17.25")
 - .2 Shelving; Unit - Type B:
 - .1 Depth of shelves: 813mm (32")
 - .2 Width of shelves: 1067 mm (42")
 - .3 Height of shelving units: As required to accommodate 6 shelves with a minimum clearance of 280mm (11.25") between shelves and a top shelf
 - .4 No. of shelves per unit: 6
 - .5 Distance between shelves; Minimum 280mm (11.25")
 - .3 Shelving; Unit - Type C:
 - .1 Depth of shelves: 406mm (16")
 - .2 Width of shelves: 1067 mm (42")
 - .3 Height of shelving units: As required to accommodate 6 shelves with a minimum clearance of 280mm (11.25") between shelves and a top shelf
 - .4 No. of shelves per unit: 6
 - .5 Distance between shelves; Minimum 280mm (11.25")

1.4 PERFORMANCE REQUIREMENTS

- .1 Design metal shelving and pallet-racking to support following uniform loads with maximum deflection of 1/180th of span:
 - .1 Pallet-racking - Type A: Minimum of 2,000kg per pair of load beams.
 - .2 Shelving - Type B: 350kg per shelf.
 - .3 Shelving - Type C: 225kg per shelf.

1.5 SUBMITTALS

- .1 Documentation to show compliance with applicable standards.
- .2 Shop Drawings and Product Data: indicate shelving layout, components, assembly details, types and thicknesses of materials, finishes and maximum allowable design loads

and requirements for bracing, securing and anchoring units as recommended by manufacturer.

- .3 Shelving must meet or exceed requirements of ANSI MH28.2-2003 Design and Testing of Metal - Wood Shelving - Specification

2. Products

2.1 MATERIALS

- .1 Sheet Steel: commercial grade, stretcher levelled to ASTM A653M-96.
- .2 Steel Sections and Plates: to CAN/CSA-G40.21-M92.

2.2 FINISHES

- .1 Prepare and finish steel surfaces to CAN/CGSB-1.300-M90.
- .2 Paint colour: manufacturer's standard colour closest match existing shelving colour, semi-gloss.

END OF SECTION