College of THE North Atlantic	35 Carolina Avenue Stephenville, NL A2N 3P8 www.cna.nl.ca/tenders	DATE OF INVITATION: 04 February 201	3	N	ENDER IUMBER: 012-115		2:00 P.M. Ne Time Public Openi	e: 13 Feb 2013 Wfoundland Lo ng: 13 Feb 2013 Wfoundland Lo	3
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SUBMITTED E	3Y: (Company Name and A	ddress)	PRI DES	CES F STINAT	QUOTE OB FION TO ERED TO		Martin Gal	North Atlant lant Bldg. Crossing, NL	
ITEM	DESCRIPTION/SF		s				UNIT PRICE	EXTENDED P	RICE
1.	College of the North Atlant Supply, Delivery and Instal Welding Shop at Martin Ga Crossing as per the specifi Work must be completed <u>A site visit is required be</u> <u>scheduled for February 66</u> <u>Gallant Bldg., College of Stephenville Crossing, N</u> Installation of a new sect standard access door in 6 #123, College of the North Crossing NL Prior to commencement 6 located within the existin would impede constructi College of the North Atlat hoods, existing ductwork electrical work and steel - Remove section of gra in front of proposed lo - Remove section of wa windows to underside Section "A" on drawing consists of metal sidin windows, insulation, m	lation of a Metal Do illant Bldg., Stephe cations below. on or before Mare <u>fore bidding – Site</u> <u>5,2013 at 10:30 a.r</u> <u>the North Atlantic</u> <u>L</u> ional metal door a the existing Weldi h Atlantic, Stephe of work any equip g welding shop # on will be remove ntic. This include ass (3660 x 1800 m cation of new overh Il including existing of concrete beam, g A1. Wall to be re g, brick, concrete beam	and ing S nville ing S nville men 123 t d by s we distin	Shop e t hat the elding g und cui door. r and hown i ed	n 1 EA	\$_		\$	
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on any attached s	to sell and/or supply, upon the to sheets) at the prices quoted. - TERMS AND CONDITION				-				ind

CONSTITUTE PART OF THE TENDER. THIS DOCUMENT CANNOT BE ALTERED IN ANY MANNER.

College of the North Atlantic	35 Carolina Avenue Stephenville, NL A2N 3P8 www.cna.nl.ca/tenders	DATE OF INVITATION: 04 February 2013		TENDER NUMBER: 2012-115		2:00 P.M. Ne Time Public Openi	e: 13 Feb 2013 wfoundland Local ng: 13 Feb 2013 wfoundland Local
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ITEM	DESCRIPTION/SP	ECIAL INSTRUCTIONS				UNIT PRICE	EXTENDED PRICI
	 Install new structural s 3660 x 3660mm sectio A1) and new standard frame. The c-channel structural engineer lice province of Newfound Install new overhead of 083613.02-Sectional N exterior steel exit door Metal Doors and Fram per spec. 087100-Door Infill upper wall section stud, 2 layers R-12 ba exterior grade gypsum rigid insulation and me "B" on drawing A1. Reuse or replace exist Supply, place and con approach to new doors Supply and install 2 ne existing in trade's wing All work to be done as National Building Code local regulation includit Safety Act Regulations 	onal metal door (see 914mm wide metal to be sized and star ensed to practice in t land and Labrador. door 9 as per spec. se Metal Doors) and new (as per spec. section (as per spec. section) (as per s	drawin door a mped b he section w stan on 081 vare (a ural me or barr rrier, 5 in Sec "A" at to ma the applica	ng and by dard 100- as etal rier, comm ction ed. tch			
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NL Master Specification Guide
for Public Funded Buildings
Section 08 11 00 - Metal Doors and Frames

Revised 2010/09/02

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PART 1		GENERAL
1.1		RELATED SECTIONS
.1	ĺ	Section 08 71 00 - Door Hardware.
1.2		REFERENCES
J.	l i	American Society for Testing and Materials (ASTM)
		.1 ASTM A653/A653M, Specification for Steel Sheet Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvanized) by the Hot Dip Process.
.2	2	Canadian General Standards Board (CGSB)
		 CAN/CGSB-1.181, Ready-Mixed Organic Zinc-Rich Coating. CGSB 41-GP-19Ma, Rigid Vinyl Extrusions for Windows and Doors.
2	3	Canadian Standards Association (CSA)
		.1 G40.20/G40.21, General Requirements for Rolled or Welded Structural Quality Steel/Structural Quality Steel.
		.2 CSA W59, Welded Steel Construction (Metal Arc Welding).
	4	Canadian Steel Door Manufacturers' Association, (CSDMA).
		 CSDMA, Specifications for Commercial Steel Doors and Frames. CSDMA, Recommended Selection and Usage Guide for Commercial Steel Doors.
	.5	National Fire Protection Association (NFPA)
		 NFPA 80, Standard for Fire Doors and Fire Windows. NFPA 252, Standard Methods of Fire Tests of Door Assemblies.
10	.6	Underwriters' Laboratories of Canada (ULC)
		 CAN4-S104M, Fire Tests of Door Assemblies. CAN4-S105M, Fire Door Frames Meeting the Performance Required by CAN4-S104. CAN/ULC-S701, Thermal Insulation, Polystyrene, Boards and Pipe Covering. CAN/ULC-S702, Thermal Insulation, Mineral Fibre, for Buildings. CAN/ULC-S704, Thermal Insulation, Polyurethane and Polyisocyanurate Boards, Faced.
1.3		DESIGN REQUIREMENTS
	.1	Design door assembly to withstand minimum 1,000,000 swing cycles in accordance with ANSI A151.1, with no failure of any design features of the door.

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	.2	Design exterior frame assembly to accommodate to expansion and contra- subjected to minimum and maximum surface temperature of -35°C to 35°	ction when °C.
		Maximum deflection for exterior steel entrance screens under wind load o exceed 1/175th of span.	of 1.2 kPa not to
	.4	Steel fire rated doors and frames: labelled and listed by an organization as Standards Council of Canada in conformance with CAN4-S104 and NFP ratings specified or indicated.	ccredited by A 252 for
	.5	Provide fire labelled frames for openings requiring fire protection ratings in conformance with CAN4-S104 and NFPA 252 and listed by nationally agency having factory inspection services and construct as detailed in Fo Procedures/Factory Inspection Manuals issued by listing agency to indiv manufacturers.	recognized llow-Up Service
1.4		SUBMITTALS	
	.1	Indicate type of door, material, steel core thicknesses, mortises, reinforce of exposed fasteners, openings, glazed, louvred, arrangement of hardwar and finishes.	ements, location e and fire rating
	.2	Indicate each type frame material, core thickness, reinforcements, glazin of anchors and exposed fastenings and reinforcing firerating and finisher	g stops, locations.
	.3	Include schedule identifying each unit, with door marks and numbers re numbering on drawings and door schedule.	lating to
1.5		DELIVERY STORAGE AND HANDLING	
	.1	Deliver, handle and store doors and frames at the job site in such a man damage.	ner as to preven
	.2	Store doors and frames under cover with doors stored in a vertical posit clear of floor and with blocking between doors to permit air circulation	ion on blocking
1.6		QUALITY ASSURANCE	
	.1	Conform to requirements to ANSI A117.1	
	.2	Company specializing in manufacturing products specified with a mini years documented experience.	mum of five (5)
1.7		WARRANTY	
	.1	Provide a written warranty for work of this section from manufacturer defective materials and from contractor for failure due to defective inst workmanship, for one (1) year respectively.	for failure due t tallation

NL Master Specification Guide for Public Funded Buildings Revised 2010/09/02 Section 08 11 00 - Metal Doors and Frames Page 3 of 7 PART 2 PRODUCTS 2.1 MATERIALS .1 Hot dipped galvanized steel sheet: to ASTM A653/A653M, ZF75, minimum base steel thickness in accordance with CSDMA Table 1 - Thickness for Component Parts. .2 Reinforcement channel: to CSA G40.20/G40.21, Type 44W, coating designation to ASTM A653/A653M, ZF75. 2.2 DOOR CORE MATERIALS .1 Stiffened: face sheets welded insulated core. Expanded polystyrene: CAN/ULC-S701, density 16 to 32 kg/m³. .1 Polyurethane: to CAN/ULC-S704 rigid, modified polyisocyanurate, closed cell .2 board. Density 32 kg/m3. Temperature rise rated (TRR): core composition to limit temperature rise on unexposed .2 side of door to 250°C at 60 minutes. Core to be tested as part of a complete door assembly, in accordance with CAN4-S104, ASTM E152 or NFPA 252, covering Standard Method of Tests of Door Assemblies and listed by nationally recognized testing agency having factory inspection service. .3 Thermal Insulation material must: Not require being labelled as poisonous, corrosive, flammable or explosive under .1 the Consumer Chemical and Container Regulations of the Hazardous Products Act. Be manufactured using a process that uses chemical compounds with the .2 minimum zone depletion potential (ODP) available. 2.3 ADHESIVES Polystyrene and polyurethane cores: heat resistant, epoxy resin based, low viscosity, .1 contact cement.

- 2.4 PRIMER
 - .1 Touch-up prime CAN/CGSB-1.181.

2.5 ACCESSORIES

- .1 Door silencers: single stud rubber/neoprene type.
- .2 Exterior top and bottom caps steel.
- .3 Fabricate glazing stops as formed channel, minimum 16 mm height, accurately fitted, butted at corners and fastened to frame sections with counter-sunk oval head sheet metal screws.

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.4	Door bottom seal: Section 08 71 00 – Door Hardware.
.5	Metallic paste filler: to manufacturer's standard.
.6	Fire labels: metal riveted.
	Provide low expanding, single component polyurethane foam sealant installed at head and jamb perimeter of door frame for sealing to building air barrier, vapour retarder and door frame. Foam sealant width to be adequate to provide required air tightness and vapour diffusion control to building air barrier and vapour retarder foam interior.
.8	Make provisions for glazing as indicated and provide necessary glazing stops.
	 Provide removable stainless steel glazing beads for dry glazing of snap-on type. Design exterior glazing stops to be tamperproof.
2.6	FRAMES FABRICATION GENERAL
.1	Fabricate frames in accordance with CSDMA specifications.
.2	Fabricate frames to profiles and maximum face sizes as indicated.
.3	Exterior frames: 1.2 mm welded, thermally broken type construction.
.4	Interior frames: 1.2 mm welded type construction.
.5	Blank, reinforce, drill and tap frames for mortised, template hardware, and electronic hardware using templates provided by finish hardware supplier. Reinforce frames for surface mounted hardware.
.6	Protect mortised cutouts with steel guard boxes.
.7	Prepare frame for door silencers, 3 for single door, 2 at head for double door.
.8	Manufacturer's nameplates on frames and screens are not permitted.
.9	Conceal fastenings except where exposed fastenings are indicated.
.10	Provide factory-applied touch up primer at areas where zinc coating has been removed during fabrication.
.11	Insulate exterior frame components with polyurethane insulation.
2.7	FRAME ANCHORAGE
.1	Shim and anchor new doors in accordance with CAN/CSA A440.4.
.2	Provide appropriate anchorage to floor and wall construction.
.3	Locate each wall anchor immediately above or below each hinge reinforcement on hinge jamb and directly opposite on strike jamb.

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	.4	Provide 2 anchors for rebate opening heights up to 1520 mm and 1 additional anchor for each additional 760 mm of height or fraction thereof.
	.5	Locate anchors for frames in existing openings not more than 150 mm from top and bottom of each jambs and intermediate at 660 mm o.c. maximum.
2.8		FRAMES: WELDED TYPE
	.1	Welding in accordance with CSA W59.
	.2	Accurately mitre or mechanically joint frame product and securely weld on inside of profile.
	.3	Cope accurately and securely weld butt joints of mullions, transom bars, centre rails and sills.
	.4	Grind welded joints and corners to a flat plane, fill with metallic paste and sand to uniform smooth finish.
	.5	Securely attach floor anchors to inside of each jamb profile.
	.6	Weld in 2 temporary jamb spreaders per frame to maintain proper alignment during shipment.
2.9		DOOR FABRICATION GENERAL
	.1	Doors: swing type, flush, with provision for glass and/or louvre openings as indicated.
	.2	Exterior doors: insulated, hollow steel construction. Interior doors: honeycomb hollow steel construction.
	.3	Fabricate doors with longitudinal edges locked seam. Seams: grind welded joints to a flap plane, fill with metallic paste filler and sand to a uniform smooth finish.
	.4	Doors: manufacturers' proprietary construction, tested and/or engineered as part of a ful operable assembly, including door, frame, gasketing and.
	.5	Blank, reinforce, drill doors and tap for mortised, templated hardware and electronic hardware.
	.6	Factory prepare holes 12.7 mm diameter and larger except mounting and through-bolt holes, on site, at time of hardware installation.
	.7	Reinforce doors where required, for surface mounted hardware. Provide flush steel top caps to exterior doors. Provide inverted, recessed, spot welded channels to top and bottom of interior doors.

.8 Provide factory-applied touch-up primer at areas where zinc coating has been removed during fabrication.

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	.9	Provide fire labelled doors for those openings requiring fire protection ratings, as scheduled. Test such products in strict conformance with CAN4-S104 ASTM E152 NFPA 252 and list by nationally recognized agency having factory inspection service and construct as detailed in Follow-Up Service Procedures/Factory Inspection Manuals issued by listing agency to individual manufacturers.
	.10	Manufacturer's nameplates on doors are not permitted.
2.10		HOLLOW STEEL CONSTRUCTION
	.1	Form each face sheet for exterior doors from 1.2 mm sheet steel.
	.2	Form each face sheet for interior doors from 1.2 sheet steel.
	.3	Reinforce doors with vertical stiffeners, securely welded to each face sheet at 150 mm or centre maximum.
	.4	Fill voids between stiffeners of exterior doors with polystyrene core.
	.5	Fill voids between stiffeners of interior doors with honeycomb core.
2.11		THERMALLY BROKEN DOORS AND FRAMES
	.1	Fabricate thermally broken doors by using insulated core and separating exterior parts from interior parts with continuous interlocking thermal break.
	.2	Thermal break: rigid polyvinyl chloride extrusion conforming to CGSB 41-GP-19Ma.
	.3	Fabricate thermally broken frames separating exterior parts form interior parts with continuous interlocking thermal break.
	.4	Apply insulation.
PAR	<u>T 3</u>	EXECUTION
3.1		INSTALLATION GENERAL
	d	Install labelled steel fire rated doors and frames to NFPA 80 except where specified otherwise.
	.2	Install doors and frames to CSDMA Installation Guide.
3.2		FRAME INSTALLATION

- .1 Set frames plumb, square, level and at correct elevation.
- .2 Secure anchorages and connections to adjacent construction.

Revised 2010/09/02 Section 08 11 00 - Metal Doors and Frames .3 Brace frames rigidly in position while building-in. Install temporary in spreader at third points of door opening to maintain frame width. Provat centre of head for openings over 1200 mm wide. Remove temporary frames are built-in. .4 Make allowances for deflection of structure to ensure structural loads to frames. .5 Caulk perimeter of frames between frame and adjacent material. .6 Maintain continuity of air barrier and vapour retarder. 3.3 DOOR INSTALLATION .1 Install doors and hardware in accordance with hardware templates and instructions and Section 08 71 00 - Door Hardware. .2 Provide even margins between doors and jambs and doors and finisher .1 Hinge side: 1.0 mm. .2 Latch side and head: 1.5 mm. .3 Finished floor: 13 mm. .3 Adjust operable parts for correct function. .4 Install louvres. 3.4 FINISH REPAIRS .1 Touch up with primer finishes damaged during installation. .2 Fill exposed frame anchors and surfaces with imperfections with met sand to a uniform smooth finish. 3.5 COMMISSIONING	
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3.5 COMMISSIONING	
	allic paste filler and
i	
 Contractor to instruct maintenance personnel in operation and maintenance hardware. 	enance of doors and
.2 Confirm operation and function for all doors and hardware.	
.3 Commissioning will be witnessed by Owner's Representative and C signed by Contractor and Owner's Representative.	ertificate will be

END OF SECTION

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Section 08 36 13.02 - Sectional Metal Doors

PART 1 GENERAL

1.1 REFERENCES

- .1 The Aluminum Association Inc. (AA).
 - .1 Aluminum Association Designation System for Aluminum Finishes- DAF 45.
- .2 American Society for Testing and Materials, (ASTM).
 - .1 ASTM A1008/A1008M, Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability.
 - .2 ASTM D523, Test Method for Specular Gloss.
 - .3 ASTM D822, Standard Practice for Filtered Open-Flame Carbon-Arc Exposures of Paint and Related Coatings.
- .3 Canadian General Standards Board (CGSB).
 - .1 CAN/CGSB-1.105, Quick-Drying Primer.
 - .2 CGSB 1.181, Coating, Zinc-Rich, Organic, Ready Mixed.
- .4 Canadian Standards Association (CSA).
 - .1 CSA G164, Hot Dip Galvanizing of Irregularly Shaped Articles.

1.2 SYSTEM DESCRIPTION

.1 Design Requirements.

- .1 Design exterior door assembly to withstand windload of 1kPa with a maximum horizontal deflection of 1/240 of opening width.
- .2 Design door panel assemblies with thermal insulation factor of 2.8 RSI.
- .3 Design door assembly to withstand minimum 16,425 cycles per annum, and 164,250 total life cycle.

1.3 SUBMITTALS

.1 Product Data:

- .1 Submit manufacturer's printed product literature, specifications and data sheet.
- .2 Submit two copies of WHMIS MSDS Material Safety Data Sheets. Indicate VOC's:
 - .1 For caulking materials during application and curing.
 - .2 For door materials and adhesives.

.2 Shop Drawings:

.1 Indicate sizes, service rating, types, materials, operating mechanisms, glazing locations and details, hardware and accessories, required clearances and electrical connections.

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	.3	Manufacturer's Instructions:
		.1 Submit manufacturer's installation instructions.
	.4	Submit copies of manufacturer's field reports.
1.4		CLOSEOUT SUBMITTALS
	.1	Provide operation and maintenance data for overhead door hardware.
1.5		QUALITY ASSURANCE
	.1	Company specializing in manufacturing products specified with a minimum of five (5) years documented experience.
1.6		WARRANTY
	.1	Provide a written warranty for work of this section from manufacturer for failure due to defective materials and from contractor for failure due to defective installation workmanship, for ten (10) years respectively.
1.7		EXTRA MATERIALS
	.1	Provide spare parts for overhead doors as follows:
		.1 Door rollers: 4
		.2 Weatherstripping: 2 sets
		.3 Springs and cables: 2
	.2	Store where directed. Identify each part and reference to appropriate door.
PAR	T 2	PRODUCTS
2.1		MATERIALS
	.1	Galvanized steel sheet: commercial quality Z275 zinc coating.
	.2	Primer: to CGSB-1-GP-181, for galvanized steel surfaces.
	.3	Insulation: to meet design requirements.

- .4 Glazing: Plastic glazing, to CAN2-12.12-M79, clear, acrylic sheet, 3.2 mm thick, light transmission of 80% minimum.
- .5 Cable: multi-strand galvanized steel aircraft cable.

2.2 DOORS

.1 Fabricate insulated panel doors of interlocking steel sections as indicated.

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.2	Fabricate panel frames in a continuous box frame with vertical stiffeners at 600 mm centres.
.3	Install glazing for vision panels. Sizes and number of vision panels as indicated.
.4	Assemble components by means of spot or arc welding or coated rivet system or adhesiv and self tapping screws to manufacturer's recommendations.
.5	Apply shop coat of: galvanizing, primer after fabrication of door. Fabricate doors from steel stock.
2.3	HEAVY DUTY INDUSTRIAL HARDWARE
.1	Track: standard hardware with 75 mm size 2.66 mm core thickness galvanized steel track
.2	Track Supports: 2.3 mm core thickness continuous galvanized steel angle track supports
.3	Spring counter balance: heavy duty oil tempered torsion spring with manufacturers standard brackets.
	.1 Drum: 200 mm diameter die cast aluminum. .2 Shaft: 25 mm diameter galvanized steel.
.4	Top roller carrier: galvanized Steel 3.04 mm thick adjustable.
.5	Rollers: full floating grease packed hardened steel, ball bearing size to suit track.
.6	Roller brackets: adjustable, minimum 2.5 mm galvanized steel.
.7	Hinges: heavy duty, secured with rivets on self tapping screws.
.8	Cable: 6 mm diameter galvanized steel aircraft cable.
2.4	ACCESSORIES
.1	Overhead horizontal track and operator supports: galvanized steel, type and size to suit installation.
.2	Track guards: 5 mm thick formed sheet 1500 mm high track guards.
.3	Pusher springs.
.4	Handles.
	 Flat bar door latch. Handles: operated from outside.
13	5 Two horizontal sliding lock bolts on interior.
0	6 Weatherstripping.

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		.1	Sills: double contact, full width extended neoprene weather	
		.2	Jambs and head: extended aluminum and artic grade vinyl manufacturer's standard.	weatherstrip to
	.7	Finish	ferrous hardware items with minimum zinc coating of 300 g/	m ² to CSA G164.
2.5			INISHED STEEL SHEET	
	.1	Prefin	ished steel with factory applied silicone modified polyester.	
		.1	Class: F1S	
		.2	Colour as selected by Owner's Representative from manufa range.	
		.3	Specular gloss: 30 units + 5 in accordance with ASTM D52	23.
		.4	Coating thickness: not less than 25 micrometres.	
		.5	Resistance to accelerated weathering for chalk rating of 8, less and erosion rate less than 20% to ASTM D822 as follows	colour fade 5 units or ows:
			.1 Outdoor exposure period 1000 hours.	
			.2 Humidity resistance exposure period 1000 hours.	
2.6		OPE	RATORS	
	.1	Equi	doors for operation by:	
		.1	Hand, two handles on inside and outside face of door.	
		.2	Chain hoist with galvanized steel chain.	
		.3	Cable fail safe device.	AN
			.1 Able to stop door immediately if cable breaks on capacity 500 kg.	door free fall. Braking
2.7			CTRICAL OPERATOR	10 600 50 100 00 10
	.1	Elec	trical motors, controller units, remote pushbutton stations, reliponents; to CSA approval with CSA enclosure.	ays and other electrical
	.2	Pow	er supply: 208 V, 3 phase, 60 Hz.	
		.1	Motor: 746W (1 HP) 208V, 3 phase	0. 04.03.75
		.2	Confirm that door motor size is adequate for O/H door size	ze and weight.
	.3	Ope	ration:	
		.1	Remote pushbutton stations: flush surface mounted, in w CLOSE" designations on pushbuttons in English.	
		.2	Cable control: pendant hung control to open, close and st	top.
			italy alastra mechanical limit switches for full length o	

.4 Safety switch: electro-mechanical limit switches for full length of bottom rail of bottom section of door, to stop and reverse door to open position when coming in contact with object on closing cycle or upon failure of any component of the control system. Provide

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	for an automatic lock-out on the door closing circuit until the failure or damage as been corrected.
.5	For trolley operators:
	.1 Attach operator to door with quick release device to disconnect door from operator in event of power failure.
.6	Door speed: 300 mm per second.
.7	Control transformer: for 24V AC control voltage.
.8	Mounting brackets: galvanized steel, size and gauge to suit conditions.
PART 3	EXECUTION
3.1	MANUFACTURER'S INSTRUCTIONS
Ŀ	Compliance: comply with manufacturer's written data, including product technical bulletins, product catalogue installation instructions, product carton installation instructions, and data sheets.
3.2	INSTALLATION
.1	Install doors and hardware in accordance with manufacturer's instructions.
.2	Rigidly support rail and operator and secure to supporting structure.
.3	Touch-up steel doors with primer where galvanized finish damaged during fabrication.
.4	Install operator including electrical motors, controller units, pushbutton stations, relays and other electrical equipment required for door operation.
.5	Lubricate and adjust door operating components to ensure smooth opening and closing doors.
.6	Adjust weatherstripping to form a weather tight seal.
.7	Adjust doors for smooth operation.
3.3	CLEANING
.1	Perform cleaning after installation to remove construction and accumulated environmental dirt.
.2	Remove traces of primer, caulking; clean doors and frames.
.3	Clean glass and glazing materials with approved non-abrasive cleaner.

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END OF SECTION

PART 1 GENERAL

1.1 RELATED SECTIONS

.1 Section 08 11 14- Metal Doors & Frames.

1.2 REFERENCES

- .1 Canadian Steel Door and Frame Manufacturers' Association (CSDFMA).
 - .1 CSDFMA Canadian Metric Guide for Steel Doors and Frames (Modular Construction).
- .2 Canadian General Standards Board (CGSB).
 - .1 CAN/CGSB-69.17, Bored and Preassembled Locks and Latches.
 - .2 CAN/CGSB-69.18 /ANSI/BHMA A156.1, Butts and Hinges.
 - .3 CAN/CGSB-69.19/ANSI/BHMA A156.3, Exit Devices.
 - .4 CAN/CGSB-69.20/ANSI/BHMA A156.4, Door Controls (Closers).
 - .5 CAN/CGSB-69.21/ANSI/BHMA A156.5, Auxiliary Locks and Associated Products.
 - .6 CAN/CGSB-69.22/ANSI/BHMA A156.6, Architectural Door Trim.
 - .7 CAN/CGSB-69.24/ANSI/BHMA A156.8, Door Controls Overhead Holders.
 - .8 CAN/CGSB-69.28 /ANSI/BHMA A156.12, Interconnected Locks and Latches.
 - .9 CAN/CGSB-69.29/ANSI/BHMA A156.13, Mortise Locks and Latches.
 - .10 CAN/CGSB-69.30/ANSI/BHMA A156.14, Sliding and Folding Door Hardware.
 - .11 CAN/CGSB-69.31/ANSI/BHMA A156.15, Closer/Holder Release Device.
 - .12 CAN/CGSB-69.32-M90/ANSI/BHMA A156.16-1981, Auxiliary Hardware.
 - .13 CAN/CGSB-69.33/ANSI/BHMA A156.17, Self-Closing Hinges and Pivots.
 - .14 CAN/CGSB-69.34/ANSI/BHMA A156.18, Materials and Finishes.
 - .15 CAN/CGSB-69.35/ANSI/BHMA A156.19, Power Assist and Low Energy Power Operated Doors.

1.3 SUBMITTALS

.1 Product Data:

- .1 Submit manufacturer's printed product literature, specifications and data sheet.
- .2 Samples:
 - .1 Identify each sample by label indicating applicable specification paragraph number, brand name and number, finish and hardware package number.
 - .2 After approval samples will be returned for incorporation in the Work.
- .3 Hardware List:
 - .1 Submit contract hardware list.

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	.2	Indicate specified hardware, including make, model, materia finish and other pertinent information.	l, function, size,
.4	Manu	afacturer's Instructions:	
	.1	Submit manufacturer's installation instructions.	
.5	Close	out Submittals:	
	.1	Provide operation and maintenance data for door closers, loo electrified hardware and fire exit hardware.	cksets, door holders
1.4	MAI	NTENANCE MATERIALS	
.1	Prov	ide maintenance materials.	
.2	Supp	bly two sets of wrenches for door closers, locksets and fire exit l	nardware.
1.5	WA	RRANTY	
.1	Prov defe	ide a written manufacturer's warranty for work of this Section to the section to the section to the section of	for failure due to etion certificate.
.2	defe	ide a written Contractor's warranty for work of this Section for ctive installation workmanship for one (1) year, dated from sub ficate.	failure due to mittal completion
1.6	QU.	ALITY ASSURANCE	
.1	Reg	ulatory Requirements:	
	.l	Hardware for doors in fire separations and exit doors certificer Certification Organization accredited by Standards Council	ied by a Canadian I of Canada.
.2	desi	y products meeting ANSI/BHMA standards are acceptable. Iter ign, function and quality will be accepted upon approval of the presentative.	ns that are equal in Owner's
.3	sect reco to a	y recognized contract hardware distributors will be considered tion. The distributor shall have on staff a qualified Architectural ognized by the Door and Hardware Institute or a person with eq issist installers and direct detailing, processing and delivery of r callation acceptance.	uivalent qualification
1.7	DE	LIVERY, STORAGE, AND HANDLING	
.1	De	liver, store, handle and protect materials in accordance with Sec mmon Product Requirements.	ction 01 61 00 -

.2 Store finishing hardware in locked, clean and dry area.

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	.3		ge each item of hardware including fastenings, separately or are, label each package as to item definition and location.	in like groups of
<u>PAR1</u>	<u>2</u>	PROD	DUCTS	
2.1		HARD	DWARE ITEMS	
	.1	5. July 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.	door locksets and latches listed on ANSI/BHMA Standards l a this project.	ist are acceptable for
	.2	Use or	ne manufacturer's products only for similar items.	
2.2		DOOI	R HARDWARE	
	.1	Locks	and latches:	
		.1	Bored and preassembled locks and latches: to CAN/CGSI lock, grade 1, designed for function and keyed as stated in	h Hardware Schedule.
		.2	Mortise locks and latches: to CAN/CGSB-69.29, series 10 designed for function and keyed as stated in Hardware Sc	
		.3	Knobs Lever handles : plain design.	
		.4	Roses: round.	
		.5	Normal strikes: box type, lip projection not beyond jamb.	
		.6	Cylinders: key into keying system as directed. All corresponding cylinders to be removable.	
		.7 .8	Finished to BHMA 626.	
	•	10000000		
	.2	.l	and hinges: Butts and hinges: to CAN/CGSB-69.18, designated by le identifiers, followed by size and finish, listed in Hardwar	tter A and numeral e Schedule.
	.3	Exit o	devices:	
		.1	to CAN/CGSB-69.19, function, grade and finish as per s push pad design.	chedule. Rim type wit
	.4	Door	Closers and Accessories:	
		.1	Door controls (closers): to CAN/CGSB-69.20, designate numeral identifiers listed in Hardware Schedule.	d by letter C and
	.5	Auxi nume	iliary locks and associated products: to CAN/CGSB-69.21, c eral identifiers listed in Hardware Schedule.	lesignated by letter E a
		.1	Key into keying system as noted.	
	.6	Arch ident	nitectural door trim: to CAN/CGSB-69.22, designated by let tifiers listed in Hardware Schedule.	ter J and numeral
		.1	Door protection plates: 1.27 mm thick stainless steel, fir	nished to BMHA 630.

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	121 221 41					
			less steel finished to BMHA 630.			
		er Senning - Angelande og ander 1997 er som er at	eel finished to BMHA 630.			
.7		dware: to CAN/CGSB-69.3 ware Schedule.	2, designated by letter L and num	eral identifiers		
	.1 Com	pination stop and holder, flo	oor mounted: finished to BMHA 6	26.		
			h bolt: finish to BMHA 626.			
.8	Door bottom seal: heavy duty, door seal of extruded aluminum frame and hollow closed cell neoprene weather seal, surface mounted with drip cap closed ends, clear anodized finish. Thresholds: to ANSI/BHMA A156.21 extruded aluminum mill finish, serrated surface, with lip and vinyl door seal insert.					
.9						
.10	Weatherstripping:					
	.I Head	l and jamb seal:				
	.1	Extruded aluminum fra anodized finish.	me and solid closed cell neoprene	insert, clear		
.11	Astragal: ove doors.	erlapping, extruded alumin	um frame with vinyl insert, finishe	d to match		
2.3	FASTENIN	GS				
.1	Use only fasteners provided by manufacturer. Failure to comply may void warrantie applicable licensed labels.					
.2	Supply screws, bolts, expansion shields and other fastening devices required for satisfactory installation and operation of hardware.					
.3	Exposed fastening devices to match finish of hardware.					
.4	Where pull is scheduled on one side of door and push plate on other side, supply fastening devices, and install so pull can be secured through door from reverse side. Install push plate to cover fasteners.					
.5	Use fastene	rs compatible with material	through which they pass.			
2.4	FINISHES					
.1	Following finishes are indicated in hardware groups.					
	BHMA	CAN MATERIAL	FINISH			
	626	C26D Brass/Bronze	Satin Chrome			

626C26D Brass/Bronze628C28 Aluminum630C32D Stainless Steel652C26D Steel

AI All

689

Satin Alum, Anodized Satin Stainless Steel Plated Satin Chrome Painted Aluminum

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		Alum Aluminum Mill Finish				
		TMDFF (to match door and frame finish).				
2.5	ABBREVIAT	IONS				
	ALD	Aluminum Door and Frame				
	ATMS STMS	Arm/strike To Template with Machine Screws				
	ASB Arm Complete with Sex Bolts					
	BC Back Check					
	C to C, C/L Centerline to Centerline					
	Cyl	Cylinder (of a lock)				
	CMK	Construction Master Key				
	Deg.	Degree (of opening)				
	DEL	Delayed Action				
	FBB or BB	Ball bearing hinge				
PART 3 EXECUTIO		<u>4</u>				
3.1	MANUFACTURER'S INSTRUCTIONS					
.1	bulletins, prod	comply with manufacturer's written data, including product technical luct catalogue installation instructions, product carton installation nd data sheets.				
~						

- .2 Furnish metal door and frame manufacturers with complete instructions and templates for preparation of their work to receive hardware.
- .3 Furnish manufacturers' instructions for proper installation of each hardware component.

3.2 INSTALLATION

- .1 Install hardware to standard hardware location dimensions in accordance with Canadian Metric Guide for Steel Doors and Frames (Modular Construction) prepared by Canadian Steel Door and Frame Manufacturers' Association.
- .2 Where door stop contacts door pulls, mount stop to strike bottom of pull.
- .3 Use of "quick" type fasteners, unless specifically supplied by manufacturer, is unacceptable.
- .4 Remove construction when directed by Owner's Representative; install permanent cores and check operation of locks.

3.3 EXAMINATION

- .1 Visit site prior to start of installation of hardware.
- .2 Visit will include examination of openings, site conditions and materials for conditions that prevent proper application of finish hardware.

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.3	Installation will imply conditions for installation acceptable hardware contractor to accep responsibility.
3.4	ADJUSTING
.1	Adjust door hardware and closures for optimum, smooth operating condition, safety and for weather tight closure.
.2	Lubricate hardware, operating equipment and other moving parts.
.3	Adjust door hardware to provide tight fit at contact points with frames.
.4	Where hardware is found defective, repair or replace or correct as desired by inspection reports.
3.5	CLEANING
.1	Perform cleaning after installation to remove construction and accumulated environmental dirt.
.2	Clean hardware with damp rag and approved non-abrasive cleaner, and polish hardware in accordance with manufacture's instructions.
.3	Remove protective material from hardware items where present.
.4	Upon completion of installation, remove surplus materials, rubbish, tools and equipmen barriers.
3.6	PROTECTION
.1	All hardware shall be protected against damage from paint, plaster or other defacing materials. Whenever possible manufacturers protective covering when applied, shall not

All hardware shall be protected against damage from paint, plaster of other denoting materials. Whenever possible manufacturers protective covering when applied, shall not be removed until final project cleaning takes place. Material not protected by manufacture shall be covered or removed from door during painting or any other adjustments that can cause damage to hardware.

END OF SECTION





TERMS AND CONDITIONS FOR PURCHASING COLLEGE OF THE NORTH ATLANTIC

General

1. Inquiries before tendering should be directed in writing to the official whose name is shown in the appropriate box on the tender form and firms should quote the tender number on any correspondence. In the case where a tender envelope has been sent to the bidder, do not use the tender envelope for inquiries because tender envelopes are not opened before tender closing time. All requests for tender award prices should be in writing and sent to the purchasing department.

2. Tenders by fax will be accepted, however the College will not be held responsible for errors or omissions in fax transmissions. Tenders may be sent by facsimile, using the official tender forms, to 709-643-7971. Tender documents submitted by facsimile must be received "in full" at the College of the North Atlantic, Purchasing Department, by the specified closing time. Documents in transmission after the closing time will be considered late tenders. All responses must be received before the exact closing time and date indicated. Responses received after that time will not be considered.

3. In the case where tender envelopes are used, tenders must be submitted on the official tender form in sealed envelopes, showing the closing time and tender number and delivered before the closing time to:

SUBMIT TO:

Purchasing Department 35 Carolina Avenue Stephenville, Newfoundland Canada, A2N 3P8 Telephone: 709-643- 7805 Facsimile: 709-643-7971

4. Please ensure that your firm's name, address, tender number and the closing date appears on the outside of the tender envelope.

5. The firm's name must appear on the tender and the forms provided must be completed in their entirety. Failure to submit a tender on the provided forms and/or failure to comply with all the terms and conditions will result in disqualification of the bid.

6. Any tender may be accepted or rejected in whole or in part. The lowest or any tender will not necessarily be accepted.

7. Prices include customs and brokerage fees, packing, shipping, cartage, loading and off-loading charges, unless otherwise specified in the tender.

8. It is understood that the tender offer will remain open for acceptance by the College for a period of not less than 30 days from the closing date of tender, unless otherwise indicated herein.

9. Firms must satisfy themselves that the item on which they are tendering is available for delivery on the date they specify on the tender, as such a quotation is legal and binding.

10. Unless otherwise stated herein, all prices quoted shall be regarded as net, unless a cash discount is specified, taxes extra.

11. In case of error in the extension of prices, the unit price will govern.

12. If required, the bidder will enter into a formal contract containing such items and conditions (not inconsistent with the terms and conditions of this tender) as may be required. Unless and until such a formal contract is entered into, this tender and any acceptance of tender shall together be the complete and only contract.

13. If applicable, items must be C.S.A. approved. The College may also take into account any approvals or recommendations provided by neutral, independent third parties as to energy efficiency or environmentally friendly products.

14. Bidders shall provide brochures, descriptive literature or specifications for such items as furniture, equipment, etc. Failure to provide such literature or specifications sufficient to show that tender specifications have been met shall result in the disqualification of the bid. Equipment, furniture, etc. must be new unless otherwise specified in the tender.

15. Acquisition made as a result of this tender will be governed by the laws of the Province of Newfoundland and Labrador.

16. Bidders must ensure that you have read and understand all requirements articulated on this document -the invitation to tender and any other documentation provided. Failure to meet all requirements will result in the disqualification of your bid.

17. Any bidder wishing to clarify any aspect of a tender or express concern over specifications or basis of evaluation must make a written submission. Only written submissions will be answered and such answers will be in writing and will be provided to any bidder who receives tender documents. **Submissions must be received 48 hours prior to the tender closing date.**

18. College of the North Atlantic reserves the right to modify the terms of a tender document at any time prior to closing, at its sole discretion. When these changes occur within five business days of the closing date, the closing date may be extended to allow for a suitable bid preparation.

19. Amendments: College of the North Atlantic will not consider or issue amendments, corrections or extensions of a tender 24 hours before the noted tender closing time. Any amendment issued forms a part of the tender document and must be acknowledged by bidders with tender submission or the bid will be rejected.

20. Or equivalent: Bidders must provide detailed specifications on all furniture, equipment, etc, offered in order to determine equivalency in those circumstances where bidders are not supplying the specific unit described. College of the North Atlantic shall be the sole judge as to the suitability of the equipment and/or services to be purchased. Whenever reference to a specific brand name is made in a tender/proposal, it is illustrative and to be construed as a specification which describes a component that has been tested or evaluated by College of the North Atlantic as best meeting the specific operational, design, performance, maintenance, quality or reliability standards and requirements of College of the North Atlantic, thereby incorporating the requirements by reference within the specification. An equivalent (or equal) may be offered by bidders, subject to testing and evaluation at the option of College of the North Atlantic prior to award of bid. College of the North Atlantic reserves the sole right to reject a substituted component that will not fulfill requirements. It shall be the sole responsibility of bidders to provide at the bidder's expense any product information, test data and other information or documents College of the North Atlantic may require to fully evaluate or demonstrate the acceptability of the offered substitute. Where appropriate,

independent testing or evaluation, including destructive testing at qualified test facilities at bidder's expense, may be required as a condition of acceptance.

21. Where dimensions are shown, suppliers are advised that they are for descriptive purposes only. Variations will be accepted provided the product is suitable for the intended use.

22. Payment Terms: 30 Days net

23. Quantities: College of the North Atlantic reserves the right to make purchases of additional quantities providing prices, terms and conditions remain the same as provided in the original tender documents.

24. College of the North Atlantic reserves the right to reject bids received from bidders who cannot show a reasonable acquaintance with and do not possess proper qualifications for the preparation and proper performance of the class of work involved. Evidence of such competence must be furnished by the bidder if requested to do so prior to the acceptance of the bid and execution of the contract documents.

25. Unless otherwise specified in the tender document, evaluation will be made on the mandatory requirements only and no weight or value will be given to added values.

26. Bidders may only submit one (1) bid per line item. Multiple bids per line item may be rejected. Bidders with multiple options on items may submit multiple tender documents. (For each alternate bid, a complete separate tender document must be submitted)

27. Bidders who are currently in a legal dispute with the College about the provision of wares or services substantially similar to those being sought under this tender are disqualified from bidding.

28. Bidders please note: The College is a public body and is subject to the Provisions of the Access to Information and Protection of Privacy Act S.N.L. 2002, c. a-1.1 (ATIPP). Any information supplied to and held by the college may be subject to requests from the public made under ATIPP for access to this information. You will be notified of any such request and will be given the opportunity to make representations on the request. The College will not be responsible for any legal costs incurred by you in making such representations and will not make any such representations on your behalf.

29. Holdbacks: College of the North Atlantic reserves the right to withhold payment of 10% of the overall tender value until all conditions of the tender are met to the satisfaction of the College. These holdback funds will also serve as security for the remedy of any breach of the tender.

30. Liquidated damages applicable to heavy equipment only: Heavy Equipment shall be delivered to the location specified in the tender within 120 days of issuance of the purchase order by the College. Should the successful bidder fail to deliver the heavy equipment as required within this 120-day timeframe, the successful bidder will pay to the College, as liquidated damages and not as a penalty, an amount equal to the total per-day rental cost of equivalent heavy equipment to that specified in the tender, calculated from the 121st day after issuance of the purchase order by the College until the date of actual delivery.