

Issued for Addendum A03

April 10th 2014



**Expansion of the commercial processing facilities
Saint-Bernard-de-Lacolle, Crossing border services**



PWGSC No. R.035717.001
CBSA No. 410784
PRAA No. 224-A-21151-00

SUMMARY

ADDENDUM No A-03

The present addendum is an update of the documents issued for tenders. It replaces or completes the documents already issued and is an integral part of the contractual documents.

The following changes in the tender documents are effective immediately. This addendum will form part of the contract documents.

1. GENERALITIES:

1. Sketches mentioned in the Addendum A02 are included in this addendum. Refer **4. *DRAWING LIST ISSUED IN THIS ADDENDUM.***
2. The new detail 9/A582 mentioned in the Addendum A01 is included in this addendum. Refer to **4. *DRAWING LIST ISSUED IN THIS ADDENDUM.***

2. DRAWING MODIFICATIONS:**A010**

1. Generalities : The DOOR, FRAME & PARTITION WITH GLASS PANEL SCHEDULE shall be modified as per the notes below, but will not be re-issued in this addendum.
2. Add the 45 minutes fire-resistance steel door C8.3A-B. Refer to Specifications for hardware groups.
3. Replace the aluminium frame of the door C-4.2A for a steel frame.
4. The door C-3.6D shall have a type C-2 frame.
5. Glazing in the type C-7 frame for the door C3.8 shall be regular glazing (V) 6mm.
6. Add the steel swing door C-3.18a and the steel accordeon door C-3.18b, to be provided and installed by the manufacturer, with reference to the note 5.
 - a. In the « NOTES AU TABLEAU DES PORTES », add the not 5 as described below:
« 5. For sliding and accordeon doors, provide and install a hook-type lock Adams-Rite, model MS 1950-050 Deadbolt. Coordinate key path with the Ministry representative and the door manufacturer. »

A101

1. In the room C-3.18, a metallic mesh partition, a swing door and an accordeon door are added. Refer to details included to the page A-651, added in this addendum.

A300

2. The note 37 (Painted Steel) is valuable for the entire exposed structure of the exterior marquee around the building, including all faces, as the decking, the beams, the fascias, etc.

A551

1. On the wall section 1/A501, add the window on D axis as per the plans & elevations, and refer to détails 4/A551 and 5/A551 for construction details.

A651

1. New page. Refer to **4. *DRAWING LIST ISSUED IN THIS ADDENDUM.***

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A700

1. All the vertical glazing installed in the millwork for the cashier counter and the broker counter between the rooms C-3.4, C3.3A et C3.3B shall be tempered glass (**VT**) 10mm.
2. The horizontal glazing on the counter top of the cashier counter between the rooms C-3.4, C3.3A shall be tempered glass (**VT**) 6mm.
3. Change the indication « ASFC Display » for « Display by ASFC – Not included ».

3. ARCHITECTURAL SPECIFICATIONS: (10 pages 8,5 X 11 format)

1. Section **00 00 10**, Table of contents
Replace pages 3, 4, 9, 10, 11 & 14 of the section by pages 3, 4, 9, 10, 11 & attached and identified addendum A-03.
5 pages 8,5 X 11
 2. Section **01 52 00**, Construction Facilities
Replace page 2 by page 2 attached and identified Addendum A-03.
1 page 8,5 X 11
 3. Section **01 35 13**, Special Project Procedures for Canada Border Services Agency Security Requirements
Replace page 3 by page 3 attached and identified Addendum A-03.
1 page 8,5 X 11
 4. Section **07 46 13**, Preformed Metal Siding
Replace page 5 by page 5 attached and identified Addendum A-03.
1 page 8,5 X 11
 5. Section **07 61 10**, Sheet Metal Siding
Replace page 5 by page 5 attached and identified Addendum A-03.
1 page 8,5 X 11
 6. Section **08 71 00 T**, Hardware Groups
 - a. For the door C8.3-B, cancel the U/L 45 minutes mention.
 - b. Cancel hardware group for the door C8.2B.
 - c. For the door C8.3A-B, add the mention U/L 45.
 7. Section **12 21 00**, Solar Shade and Curtains
Replace page 2 by page 2 attached and identified Addendum A-03.
1 page 8,5 X 11
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4. DRAWING LIST ISSUED IN THIS ADDENDUM:

# DRAWING	REVISION	DESCRIPTION	FORMAT
A100.1		FLOOR PLAN – GROUND LEVEL	8.5 x 11
A300.1		SOUTH ELEVATION	11 x 17
A582.1		PLAN SECTION – FIRESTOP DETAIL	11 x 17
A651.1		ENLARGED PLAN – ROOM C-3.18	11 x 17
A651.2		ELEVATION - MESH PARTITION	11 x 17
A651.3		ELEVATION – PORTE EN ACCORDÉON	11 x 17
A651.4		DETAIL SECTION – MESH PARTITION	11 x 17
A703.1		PHONE SHELF	11 x 17
A703.2		SEARCH TABLE	11 x 17
A705.1		ENLARGED PLAN DINING ROOM – LEVEL 2	11 x 17
A705.2		ELEVATION KITCHEN COUNTER - LEVEL 2	11 x 17
A705.3		ELEVATION DINING ROOM – LEVEL 2	11 x 17
A705.4		ELEVATION DINING ROOM - LOCKERS – LEVEL 2	11 x 17
A705.5		INTERIOR ELEVATION	11 x 17
A706.1		SECTION KITCHEN MILLWORK	11 x 17
A900.2		FINISH LEGENDS	11 x 17
A900.3		FINISH PLAN – LEVEL 1	11 x 17
A900.4		FINISH PLAN – LEVEL 2	11 x 17

5. STRUCTURAL, CIVIL, ELECTRICAL & MECHANICAL

.1 See enclosed **addendum no. 3** – Structural / Mechanical / Electrical
(17 pages 8,5 x 11) dated April 10th, 2014.

END OF ADDENDUM A-03

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Section 07 46 13	Preformed Metal Siding		8
Section 07 52 00	Modified Bituminous Membrane Roofing		1
Section 07 61 10	Sheet Metal siding		7
Section 07 62 00	Sheet Metal Flashing and Trim		5
Section 07 72 33	Roof Hatches		5
Section 07 81 00	Applied Fireproofing		7
Section 07 84 00	Firestopping		8
Section 07 92 10	Joint Sealing		7
DIVISION 08	OPENINGS		
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Section 08 11 16	Aluminum Doors and Frames		7
Section 08 31 00.01	Access Doors - Mechanical		2
Section 08 36 13.02	Sectional metal doors		10
Section 08 44 13	Glazed aluminum curtain walls		13
Section 08 51 13	Aluminum Windows		9
Section 08 71 00	Door Hardware		6
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Annex 1	Supply, installation et connection for the door hardware		1
Section 08 80 50	Glazing	Addendum A-01	9 10
DIVISION 09	FINISHES		
Section 09 21 16	Gypsum Board Assemblies		10
Section 09 22 16	Non-structural Metal Framing		5
Section 09 30 13	Ceramic tiling	Addendum A-01	6 7
Section 09 51 13	Acoustical Panel Ceilings		4
Section 09 53 00.01	Acoustical Suspension		5
Addendum A-02			
Section 09 65 46 19	Resilient Sheet Flooring		6 7
Section 09 91 23	Interior Painting	Addendum A-01	17
DIVISION 10	SPECIALTIES		
Addendum A-02			
Section 10 14 00	Signage		5
Section 10 21 13.13	Metal Toilet Compartments		5
Section 10 21 23	Rails and curtains	Addendum A-03	6
Section 10 22 13	Wire Mesh Partitions		5
Section 10 28 10	Toilet Accessories and Furniture		6
Annex 1	List - Accessories and furniture		2
Section 10 44 16.19	Portable Extinguishers		5
Section 10 51 15	Mail Boxes		3
Section 10 92 00	Floor Grates		4
DIVISION 11	EQUIPMENT		
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Section 11 13 16	Dock Seals		4
Section 11 13 19.13	Loading dock levelers		7

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Section 23 07 13	Duct Insulation	7

DIVISION 21 – GENERALITIES AND FIRE PROTECTION

N° of section	Trade	Description	Number of Pages
21 05 01	FP MB Addendum 03	Common Work Results - Mechanical	7
21 05 05	FP	Common Work Results for Fire Suppression	6
21 05 14	FP	Fire Stop Systems and Smoke Control Systems	7
21 13 13	FP	Wet Pipe Sprinklers Systems	16
21 13 16	FP	Dry Pipe Sprinkler Systems	14

DIVISION 22 – PLUMBING

N° of section	Trade	Description	Number of Pages
22 05 00	Pb	Common Work Results for Plumbing	7
22 10 10	Pb	Plumbing Pumps	5
22 11 16	Pb	Domestic Water Piping	9
22 13 17	Pb	Metal Drainage Waste and Vent Piping	5
22 13 18	Pb	Drainage Waste and Vent Piping – Plastic	3
22 30 05	Pb	Domestic Water Heaters	3
22 42 01	Pb	Plumbing Specialties and Accessories	13
22 42 03	Pb	Commercial Washroom Fixture	5
22 42 16	Pb	Commercial Lavatories and Sinks	4
22 42 20	Pb	Commercial Showers and Bathtubs	3
22 47 00	Pb	Drinking Fountains and Water Coolers	4

DIVISION 23 – HEATING VENTILATION/AIR CONDITIONING (HVAC)

N° of section	Trade	Description	Number of Pages
23 05 00	MB	Common Work Results - HVAC	9
23 05 05	Pb	Installation of Pipework	7

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23 05 13	MB	Common Motor Requirements for HVAC Equipment	5
23 05 16	Pb	Expansion Fittings and Loops for HVAC Piping	4
23 05 17	Pb	Pipe Welding	6
23 05 19.01	FP, Pb, V	Thermometers and Pressures Gauges - Piping Systems	5
23 05 29	FP, Pb, V	Hangers and Supports for HVAC Piping and Equipment	11
23 05 48	FP, Pb, V Addendum 03	Vibration and Seismic Controls for HVAC Piping and Equipment	13
23 05 49.01	MB, E	Seismic Restraint Systems (SRS) – Type P2 Buildings	11
23 05 53.01	MB	Mechanical Identification	8
23 05 93	Pb-V, R	Testing, Adjusting and Balancing for HVAC	8
23 05 94	V	Pressure Testing of Ducted Air Systems	5
23 07 13	C	Duct Insulation	7
23 07 14	C	Thermal Insulation for Equipment	10
23 07 15	C	Thermal Insulation for Piping	12
23 08 01	Pb	Performance Verification Mechanical Piping Systems	7
23 08 02	Pb	Cleaning and Start-Up of Mechanical Piping Systems	7
23 11 13	Pb	Facility Fuel – Oil Piping	17
23 21 13.02	Pb	Hydronic Systems Steel	9
23 21 14	Pb	Hydronic Specialities	6
23 21 23	Pb	Hydronic Pumps	7
23 23 00	Pb V Addendum 03	Refrigerant Piping	6
23 31 13.01	V	Metal Ducts - Low Pressure to 500 Pa	9
23 32 48	V	Acoustical Air Plenums	4
23 33 00	V	Air Duct Accessories	7
23 33 14	V	Dampers - Balancing	3
23 33 15	V	Dampers - Operating	6
23 33 16	V	Dampers - Fire and Smoke	6

23 33 46	V	Flexible Ducts	4
23 34 00	V	HVAC Fans	6
23 34 25	V	Packaged Roof and Wall Exhausters	6
23 36 00	V	Air Terminal Units	6
23 37 13	V	Diffusers, Registers and Grilles	3
23 37 20	V	Louvres, Intakes and Vents	4
23 44 00	V	HVAC Air Filtration	5
23 51 00	Pb	Breeching, Chimneys and Stacks	7
23 52 00	Pb	Boilers	9
23 55 01	Pb V Addendum 03	Duct heater	4
23 72 00	V	Air-to-Air Energy Recovery Equipments	11
23 73 11	V	Air Handling Units – Package	8
23 81 40	V	Wall Air – Conditioner Bi-block	7
23 82 20	V Pb Addendum 03	Forced Air Heaters	4
23 82 33	Pb	Convectors – Finned tubes	5
23 82 39	Pb	Unit Heaters	6
23 84 13	V	Humidifiers	5

DIVISION 25 – INTEGRATED AUTOMATION

N° of section	Trade	Description	Number of Pages
25 01 12	R	EMCS: Training	4
25 05 01	R	EMCS: General Requirements	14
25 05 02	R	EMCS: Submittals and Review Process	5
25 05 03	R	EMCS: Project Record Documents	4
25 05 54	R	EMCS: Identification	3
25 08 20	R	EMCS: Warranty and Maintenance	5
25 10 01	R	EMCS: Local Area Network (LAN)	3

Addendum 03**DIVISION 33 – UTILITIES SERVICES**

N° of section	Trade	Description	Number of pages
33 11 16	VR	Waterworks system and Fire Protection	29
33 11 16.01	MB PI Addendum 03	Underground Water Supply Piping	7
33 31 00	VR	Sanitary and Storm Sewers	25
33 56 13	MB Pb, R Addendum 03	Aboveground Fuel Storage Tanks	16
33 65 73	E	Concrete Encased Duct Banks and Manholes	9

This list of sections is used to enumerate required works according to different trades as listed below.

- All : Applicable section to all works
- SR : Applicable section to structural works
- VR : Applicable section to civil works
- MB : Applicable section to mechanical works **(C, FP, Pb, V & R) Addendum 03**
- C : Applicable section to insulation works
- FP : Applicable section to fire protection works
- Pb : Applicable section to plumbing/heating works
- V : Applicable section to ventilation/air conditioning works
- R : Applicable section to automatic regulation works
- E : Applicable section to electrical works

Addendum A-03**1.8 Overtime work**

- .1 No overtime work will be allowed without permission of the CBSA manager. Give a minimum forty-eight (48) hours advance notice when overtime work on the construction project is necessary and approved. If overtime work is required because of an emergency such as the completion of a concrete pour or work to make the construction safe and secure, the Contractor shall advise the CBSA manager as soon as this condition is known and follow the directions given by the CBSA manager. Costs to Canada for such events may be attributed to the Contractor.

**1.9 Tools and Equipment
Addendum A-03**

- .1 If propane or natural gas is used for heating the construction, CBSA will require ~~that an employee of the Contractor supervise the construction site during non working hours.~~ **a daily inspection of the fuel-burning installations by the Contractor, including during holidays, vacations and week-ends. The combustion units shall be provided with an emergency cut-off when the flame extinguishes.**

1.10 Keys

- .1 The Contractor will use standard construction cylinders for locks for its use during the construction period.
- .2 The Contractor will issue instructions to its employees and sub-trades, as necessary, to ensure safe custody of the construction set of keys.
- .3 Upon completion of each phase of the construction, the CBSA manager (or his representative) will, in conjunction with the lock manufacturer :
 - .1 Prepare an operational keying schedule ;
 - .2 accept the operational keys and cylinders directly from the lock manufacturer;
 - .3 Arrange for removal and return of the construction cores and install the operational core in all locks.
- .4 Upon putting operational security keys into use, the commissioners escorting construction workers shall obtain these keys as they are required from the CBSA manager (or his representative) to open doors as required by the Contractor. The Contractor shall issue instructions to his employees advising them that only escorting commissioners will be allowed to use these keys.

1.11 Smoking Restrictions

- .1 Contractors and construction workers are allowed to smoke outside the building, but only in the construction site area.

1.12 Contraband

- .1 Weapons, ammunition, explosives, alcoholic beverages, drugs and narcotics are prohibited on CBSA property.

1.13 Access to the site

- .1 Construction personnel and contractors vehicles will not be admitted to the border crossing site after normal working hours, unless approved by the CBSA manager.
- .2 **Refer to the instructions in section 01 14 00 – Work Restrictions**, for access for workers to construction areas.

Addendum A-03**1.6 Hoisting**

- .1 Provide, operate and maintain hoists and or cranes required for moving of workers, materials and equipment. Make financial arrangements with Subcontractors for their use of hoists.
- .2 Hoists and cranes to be operated by qualified operator.
- .3 Obtain approval of Departmental Representative at least 48 hours before installation of hoists and cranes on work site.
- .4 Provide temporary roads and ground facilities foundation improvement required for the movement and installation of those equipment around buildings.
- .5 Provide required foundations for lifting equipment.
- .6 Install hoisting equipment at locations approved by Departmental Representative.
- .7 Conform to special security measures listed in Section 01 35 29.06 - Health and Safety.

1.7 Site storage/loading

- .1 Confine work and operations of employees by Contract Documents. Do not unreasonably encumber premises with products.
- .3 Do not load or permit to load any part of Work with weight or force that will endanger Work.

1.8 Trailers and construction parking

- .1 Construction trailers and parking for workers will be located outside the Institution Perimeter, outside the secure area designated by Departmental Representative.
- .2 One trailer will be allowed and it should be large enough to include all the functions required for offices and work site administration.
- .2 Provide and maintain adequate access to project site.
- .3 Clean and remove snow from runways and exiting.

Addendum A-03**~~1.9 Security~~**

- ~~.1 Throughout the duration of work, the Contractor shall provide security personnel to ensure reliable daily surveillance, during holidays and vacation periods, of site installations and materials / equipment contained therein, and assume all related cost.~~

1.10 Work site Offices

- .1 Provide office heated to 22° degrees C, lighted 750 lx and ventilated, of sufficient size to accommodate site meetings and furnished with drawing lay down table.
- .2 Provide marked and fully stocked first-aid case in a readily available location.
- .3 Subcontractors to provide their own offices as necessary. Direct location of these offices.

Addendum A-01 / Addendum A-03**Addendum A-01 /
Addendum A-03**

- .2 The aluminum will be free of any visible imperfections such as tool marks, stains etc.. uniform in colour and gloss. Panels to be plumbed, true, level and in alignment, and according to dimensions shown on drawings.
- .3 The system will include extruded aluminum rail supports and all required panel's stiffeners. The system will be « dry set » type without sealer. Include all the seals to meet applicable codes in regard to wind loads, infiltration of air and water penetration. Design and install the entire system as a "Open Vented Rain Screen System", including openings for draining water moisture to the exterior.
- .4 Aluminum finish as will be described below:
 - .1 Exterior exposed aluminum surfaces ; to AAMA 2605, 3-coat, thermal setting enamel consisting of primer, colour coat and clear coat with 70% minimum fluoropolymer resin and polvinylidene fluoride (PVDF), 0,04 mm (1,6 mil) minimum total thickness, two (2) colours choose by Departmental Representative from the RAL color chart, ~~as indicated and located on drawings (see notes 40A and 40B).~~

2.3 Anchor Rails

- .1 Galvanized steel sheet folded and assembled to « Z » form as indicated on drawings, 16 gauge minimum thickness, to ASTM A446, grade 'A' with Z275 galvanized coating to ASTM A525M, provided with slotted holes 600mm c/c to allow adjustment, stainless steel bolts 10mm. Dimensions and spacing shown on the drawings.
- .2 Girts ("Z-bars") : Galvanized steel sheet folded to Z and U shapes, minimum thickness of 18 calibre, in accordance with ASTM A446, grade 'A' with Z275 galvanized zinc coating in accordance with ASTM A525M of sizes and spaced as indicated on drawings. Use two steel sheet angles to form adjustable girts.
- .3 Metal furring: Galvanized sheet steel, folded, omega type, 25 mm thick, 18 calibre, in accordance with ASTM A446, grade 'A' with galvanized zinc coating Z275 to ASTM A525M.
- .4 Aluminum extrusions as recommended by the manufacturer.

2.4 Accessories

- .1 Provide finish profiles, furring, wall baseboards and all other elements required to complete execution of metal cladding work.
- .2 Exposed trim: inside corners, outside corners, cap strip, drip cap, undersill trim, starter strip and window/door trim of same material, same colour as cladding, with fastener holes pre-punched.
- .3 Sealing strips as recommended by the manufacturer
- .4 Air/vapour barrier, modified bituminous sheet, self-adhesive, refer to Section 07 26 00 – Vapour Retarders and Air Barriers.

Addendum A-01 / Addendum A-03

PART 2 - PRODUCTS**2.1 General****Addendum A-01**

- .1 Wall systems in this section include, without limitation, the supply and installation of:
 - .1 The installation of sloped metal siding of exterior walls, including staples, moldings and all required to allow complete sealing system accessories.
 - .2 Required supports, **inner** wall flashings and various connections, **in coordination with work of the Section 07 26 00 – Vapour Retarders and Air Barriers.**
 - .3 All adhesives, anchors, fasteners, moldings, and other accessories required for metal siding sheets works.

2.2 Sheet metal materials

- .1 Prefinished steel panel identified « Stapled metal sheet » on drawings : Sheet metal to ASTM A 653/A653M (latest revision). Prefinished steel with factory applied silicone modified polyester. The steel core zinc coated Z-275 (G-90) on each side, to ASTM A924/A924M (latest revision), 0,65mm thickness (gauge 24).
 - .1 Metal cladding panel, according to drawings;
 - .2 Grade A steel with a minimum elastic limit of 230MPa (33,000lbs/sq.in.) and assuming a maximum stress of 144MPa (20,625 lbs/sq.in.);
 - .3 Panel dimensions: 600mm X 600mm height;
 - .4 Layout as indicated to the drawings;
 - .5 Exterior finish ; to AAMA 2605, 3-coat, thermal setting enamel consisting of primer, colour coat and clear coat with 70% minimum fluoropolymer resin and polvinylidene fluoride (PVDF), 0,04 mm (1,6 mil) minimum total thickness, two (2) colours choose by Departmental Representative from the RAL color chart **as indicated and located on drawings (see notes 40A and 40B).**

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- .2 Metal furring: Galvanized sheet steel to ASTM A 653/A653M (latest revision), gauge 16. Dimension and spacing as recommended by manufacturer.

2.3 Accessories

- .1 Isolation coating: alkali resistant bituminous paint.
- .2 Plastic cement: to CAN/CGSB-37.5.
- .3 Metal siding underlay: recommended by system manufacturer.
- .4 Sealant: Asbestos-free sealant, compatible with systems materials, recommended by system manufacturer.
- .5 Cleats: of same material, and temper as sheet metal, minimum 50mm wide. Thickness same as sheet metal being secured.
- .6 Concealed tape, non-skinning, non-drying, butyl rubber. 3mm thick.
- .7 Fasteners: recommended by system manufacturer, length and thickness according to metal siding
- .8 Washers: of same material as sheet metal, 1 mm thick with rubber gaskets.
- .9 Touch-up paint: as recommended by sheet metal roofing manufacturer.

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- .3 Indicate sizes in relation to window frames, operation details, anchoring to top rails as well as hardware and accessories.

1.6 Low VOC materials

- .1 The VOC content of all adhesives, sealants and sealant primers used on the inside of the building (i.e. to the inside of the sealing system) must be less than the VOC content limits of the State of California's South Coast Air Quality Management District (SCAQMD) Rule #1168, June 2006.

1.7 Samples

- .1 Submit samples in accordance with Section 01 33 00 - Submittals.
- .2 Submit two samples representing each type of shade, curtain and mounting hardware.

1.8 Maintenance Data

- .1 Provide manufacturer's maintenance data sheets and enclose in manual specified under Section 01 78 00 – Closeout Submittals.

1.9 Waste Management and Disposal

- .1 Works are governed by a Waste **management plan** in accordance with Section 01 74 21 - Construction/Demolition Waste Management And Disposal. The work of this section shall be made in accordance with the requirements of this plan.

PART 2 - PRODUCTS**2.1 Generals**

- .1 Refer to drawings and finish Schedule for Solar shades and curtains locations, and dimensions to be install to windows and openings.

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- .2 Present section includes, without limitation;
 - .1 Solar shades and curtains to all **building exterior windows and curtain walls**, ~~as indicated~~ in the drawings;
 - .2 All adhesives, fasteners, mouldings and other accessories necessary to complete the work.

2.2 Solar Shades

- .1 Roller and chain shade system composed of extruded aluminum alloy 6063-T5 tube, of diameter required to prevent excessive deflection. Tube shall be equipped with a reinforced continuous groove for fastening shade by means of a plastic spline and ends closed with an aluminum casing. Fastening shade with adhesive tape is not acceptable. System to be equipped with steel springs with symetrical mecanism for raising either on the right or left side.
- .2 Surface mounted curtains, 28mm diameter roller with console installation brackets, as specified by the manufacturer.
- .3 Equip mechanism with a stainless steel ball chain (tested for 90 lbs).