

PART 1 – GENERAL

- 1.1 RELATED SECTIONS
- .1 Section 033000 – Cast-in-place Concrete
 - .2 Section 099113 – Exterior painting
 - .3 Section 310099 – Earthworks for Minor Works
 - .4 Section 615000 – Wood Structure
- 1.2 BASIS OF PAYMENT
- .1 Measurement Procedures:
 - .1 Composite Screens Between Washrooms. The supply and installation of a composite screen between the washrooms includes concrete footings, wood structure, composite panels and painting, and hardware. The lump sum price bid will be for full compensation for all labour, materials and equipment to do the work.
 - .2 The installation of site furnishing supplied by the Departmental Representative is include in the lump sum price bid:
 - Reinstallation of plaques. The work under this item includes the reinstallation of plaques, including concrete footing. The lump sum price bid will be for full compensation for all labour, materials and equipment to do the work.
 - Installation of benches. The work under this item includes the installation of benches supplied by the client, including the concrete slabs. The lump sum price bid will be for full compensation for all labour, materials and equipment to do the work.
 - Reinstallation of picnic tables. The work under this item includes the reinstallation of picnic tables supplied by the client. The lump sum price bid will be for full compensation for all labour, materials and equipment to do the work.
 - Reinstallation of garbage bins. .1 The work under this item includes the reinstallation of garbage bins. The lump sum price bid will be for full compensation for all labour, materials and equipment to do the work.
 - .3 Supply and installation of two (2) Storage Units . The lump sum price bid will be for full compensation for all labour, materials and equipment to do the work.
- 1.3 SUBMITTALS
- .1 Technical Sheets:
 - .1 Submit technical sheets for the following components:
 - Screws / bolts;
 - Screen panels
 - Concrete bases for benches
 - Storage units
 - Hinges, padlocks, hasps and staples
 - .2 Shop Drawings
 - .1 Submit shop drawings required for the screen and its components.
 - .3 Texts reports and certificates:
 - .1 Submit test reports and certificates testifying that products, materials and equipment meet the standards in relation to

the physical characteristics and performance criteria.

- .4 Product sample
 - .1 Submit (1) one sample of panel for the screen, the hinges, door knob and lock for the screen's door
- .5 Meeting before the installation:
 - .1 Conduct a meeting during which the Contractor and the Departmental Representative will review the scope of work, installation procedures of manufacturer and the terms of warranty provided by the products.
- 1.4 DOCUMENTS TO SUBMIT .1 Provide maintenance data for care and cleaning of site furnishing.
AT THE COMPLETION OF WORK
- 1.5 TRANSPORTATION AND DELIVERY
 - .1 The contractor must coordinate the delivery, storage and the handling of furnishings with Departmental Representative.
 - .2 The contractor must establish delivery deadlines with Departmental Representative.
 - .3 Equipment and materials must be transported, stored, handled and protected.
 - .4 Transportation and delivery:
 - .1 All apparent metallic surfaces must be covered with a self-adhesive protective paper or a plastic wrap before transportation to the construction site.
 - .2 Only upon the time of final cleaning can furnishings be freed from their protective. Provide the necessary instructions for the removal of these protections to people involved and managers.
 - .5 Storage of composite panels : Store off the ground well supported, on a flat surface, under a roof or separate waterproof covering. Keep siding clean and dry. Inspect prior to application.

PART 2 - PRODUCTS

2.1 BENCHES

- .1 Benches: supplied by the Departmental Representative
- .2 Foundations for Benches:
 - .1 Precast concrete foundations: 2 precast concrete slabs for benches with following dimensions; 12" x 28" x 6" or equivalently approved by the Departmental Representative.
- .3 Assembly and anchoring
 - .1 Per bench: 4 expansion sleeves in stainless steel and 4 anti-theft bolts in stainless steel.
 - .2 Refer to instructions in drawings as well as recommendations included in landscape architecture and

civil engineering drawings specifying the assembly and fixation of all components of site furnishings.

2.2 PICNIC TABLES

- .1 Provided by the Departmental Representative: No base or anchors required for installation. 3 existing picnic tables relocated, 1 new picnic table supplied by the Departmental Representative.

2.3 GARBAGE BINS

- .1 Provided by the Departmental Representative: No base or anchors required for installation.

2.4 COMPOSITE SCREEN

- .1 Install screens as specified in drawings.
- .2 Panels : At the time of manufacture, siding meets or exceeds the performance standards set forth in Composite Panel Association ANSI 135.6 and has achieved code recognition under Legacy National Evaluation Report NER-626 and CCMC-12353. Dimension : 1219mm x 2438mm panels. Color, pattern and texture to match existing panels of temporary washrooms. Panels must be made of engineered wood resistant to moisture, with wood strands individually treated with binders and wax and treated with a zinc borate-based product to help resist fungal decay and termite damage. The panels must be a class C (III) rated product when tested according to ASTM E84. Containing no natural salts and minerals.
- .3 Sealant : Seal all gaps with a high-quality, non-hardening, paintable sealant. Follow the sealant manufacturer's instructions for application. Use a high-quality exterior sealant meeting the ASTM C920, minimum Class 25 sealant.
- .4 Paint : Prime and paint ALL exposed cut edges. High-quality acrylic latex paint, specially formulated for use on wood and engineered wood substrates must be used. Colour and finish to match existing temporary washrooms. For flat alkyd paint, check with the coating manufacturer for their recommendations for use on composite wood siding. DO NOT USE : Semi-transparent and transparent stains, shake and shingle paints, vinyl-based resin formulas such as vinyl acetate, PVA, vinyl acetate/acrylic copolymer paints.
- .5 Trim: Finish trim should be thick enough so the siding does not extend beyond the face of the trim. Trim should be installed on top of panels. Trim and fascia must be applied in a manner that will not allow moisture intrusion or water buildup. Color, pattern and texture to match existing trim of temporary washrooms.

2.5 PLAQUES

- .1 Install plaques as specified in drawings and reproduce existing installation. Location of plaque and angle of plaque must be approved by Departmental Representative before installation.

2.6 STORAGE UNITS

- .1 PVC, beige storage units for outdoor purposes. Storage units must be lockable. Exterior assembled dimensions: 4'5"w x 2'8.5"d x 9.5"h. With 2 front doors. Storage capacity = 34 cubic feet. Weather resistant. Sturdy double wall construction.

2.7 HARDWARE

- .1 Hardware must meet prescriptions on plans.
- .2 Hinges for composite panel door and doors in wood cladding must be made of 18-8 satin stainless steel base materials Full mortise heavy duty hinges suitable for high traffic industrial door applications. Non-handed. Hinges shall be of heavy weight, have 5 knuckles, 4 Slimline ball bearings with non-rising, non-removable pin (NRP) security and standard flat top and knock-out bottom tips. Size: 114.3mm x 101.6mm, with square corners. Hinge shall be reversible and supplied with all necessary wood and undercut machine mounting fasteners. Standard flat top and knock-out bottom tip. Wood screws 31,8mm diameter. Standard template hole pattern conforming to ANSI standard A156.7
- .3 Padlocks, hasps and staples in stainless steel for composite panel door and doors in wood cladding must be made of 18-8 satin stainless steel base materials. Full mortise heavy-duty Hasp and staple shall be of heavy-weight, suitable for high traffic industrial door applications, 3mm thick, with a 174mm visible portion. A set of 2 keys, well identified, must be supplied with each paddle. Padlocks must be rectangular, reykeyable, have a master key, and must highly resistant to corrosion, cutting and sawing. Padlock must have a 19mm thick body, be 44mm wide, have a 10mm diameter boron shackle with a 19mm clearance and the shackle height must be 28mm.

PART 3 – EXECUTION

3.1 GENERAL INSTALLATION

- .1 The contractor must follow instructions provided by supplier as well as indications on drawings for the installation of site furnishings.
- .2 The installation of site furnishings must be validated on-site by Departmental Representative.
- .3 The implantation and orientation of the interpretive plaques must be validated on site by the Departmental Representative.
- .4 The contractor must install as not to allow water accumulation around or under installed equipment.
- .5 The contractor must install the equipment so that they are straight, plumb, tightly fixed and firmly supported.

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- .6 All finished surfaces that have been damaged must be touched up by contractor to the satisfaction of the Departmental Representative.
 - .7 Strategies should be adopted to coordinate the various stages of the project as to ensure cohesion between the phases of installation and assembly of components.
 - .8 Plaques must be installed as on existing conditions.
- 3.2 INSTALLATION OF SCREEN
- .1 Comply with the requirements of the specifications for the wood structure and cast-in-place concrete bases.
 - .2 3mm gap between 1219mm x 2438mm panels. Ground clearance 150mm minimum. No vapour retardant or breathable water resistant barrier required.
 - .3 Framing: Siding may be applied directly to studs spaced no greater than 407mm. The framing shall be of adequate thickness to accept 38mm of nail penetration. A properly installed breathable water-resistant barrier is required between the siding and masonry of concrete walls.
 - .4 Installation : Apply siding in a manner that prevents moisture intrusion and water buildup. Siding products are applied with the back surface flat against the sheathing and/or studs and building paper. Apply siding over properly prepared walls with maximum stud spacing 407mm. The key element in a successful siding installation is establishing a straight reference line upon which to start the first course of siding.
 - .5 Nailing : Nails should be placed at all stud locations and positioned 9,5mm from the vertical butt edges on each side of the joint. Nails should be placed at 19mm from top of panels. Avoid corner nailing. DO NOT OVERDRIVE NAILS. Nail heads should seat firmly to the face of the siding, but not overdriven to distort the siding surface. Shim as needed to avoid drawing siding against uneven walls. Nail from the centre of the plank toward the ends, or from one end to the other end. NEVER nail from the ends of the siding toward the middle. Penetrate structural framing or wood structural panels and structural framing a minimum of 38mm. Use hot-dipped galvanized nails with a minimum 7mm diameter head and 3mm shank diameter. Nail at all special framing members around openings. Shim, if necessary, to provide solid backing for siding fitted around windows, doors. To ensure that siding courses remain level and straight, align the notched shoulder of the hidden flange prior to nailing. Additionally, make sure that the bottom edge of the siding rests firmly on top of the notched shoulder of the hidden flange. Leave a 5mm in gap and seal at butt joints. Sealant must be a high-quality, non-hardening, paintable sealant. Climb cut the surface of the siding such that the rotation of the blade cuts downward on the primed or prefinished surface. Where siding butts washroom walls, leave a 5mm gap. Do not use staples.

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- .6 Finishing: Prime and paint all exposed surfaces including all drip edges or where water will hang. Apply finish coat as soon as possible or within 180 days of application. Follow the coating manufacturer's application and maintenance instructions. Touch up any damage to the finish that may occur during application per prefinishers specification.

3.3 QUALITY CONTROL

- .1 The contractor must validate with Departmental Representative the implantation of all furnishing before installing the site furnishings.
- .2 The contractor must validate the final installation of equipments by Departmental Representative.

***** END OF SECTION *****