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**PART 1      GENERAL**

## 1.1      REFERENCE

- .1      Comply with the General Conditions of the Contract, Supplementary General Conditions and the requirements of Division 1.

## 1.2      RELATED WORK SPECIFIED ELSEWHERE

- .1      Rough Carpentry                      Section 6100
- .2      Finish Hardware                      Section 8710

## 1.3      SCOPE OF WORK INCLUDED

- .1      Supply all finish carpentry and millwork required and/or noted consisting of, but not limited to vanities, counter tops, window sills, cabinetry, cupboards, Solid Maple Hardwood benches, shelves and cabinetry finish hardware. Note stainless steel cabinet tops in kitchen and contamination room.

## 1.4      QUALITY ASSURANCE

- .1      Definition - Millwork: exterior and interior woodwork exposed to view in the finished building and defined under General Scope of Architectural Millwork by the Architectural Woodwork Manufacturer's Association of Canada (AWMAC).
- .2      Quality Standards - Provide all millwork conforming to Quality Standards of the AWMAC Seventh Edition. Conform to custom grade requirements of AWMAC except as specified or indicated otherwise.
- .3      Qualifications - Fabricate millwork by a firm possessing adequate modern woodworking equipment and capable of doing all cutting, fitting and installing built-in fixtures, equipment and wiring, and capable of producing required shop drawings of adequate quality.

## 1.5      SUBMITTALS

- .1      Submit shop drawings in accordance with Section 01340.
- .2      Show details of fixing and joining and, where methods indicated by Consultant can be improved upon, show such changes but maintain Consultant's lines, levels and profiles.

## 1.6 WARRANTY

- .1 Provide a Warranty as stipulated in the General Conditions, but for an extended period of 2 years from the date of final completion and acceptance of the Work. Warranty shall be signed by both manufacturer and installer.
- .2 Warranty will cover defects and shall include but not be limited to departure from Specifications and drawings, delamination, warping, bubbling, colour change of veneers and/or plastic laminate work. Deterioration, warping of cores and other defects detrimental to appearance and/or use of the fabricated product.

## 1.7 PRODUCT DELIVERY, STORAGE AND HANDLING

- .1 Do not permit delivery of this work to the site until the area is sufficiently dry so that woodwork will not be damaged by excessive changes in moisture content.
- .2 Check access clearance at site before assembling large units.

## 1.8 JOB CONDITIONS

- .1 Field Dimension - take field dimensions and fabricate work to suit field dimensions.

## 1.9 PROTECTION

- .1 Provide protective coverings of suitable material for plastic laminate items, take special precautions at corners.
- .2 If required, store millwork items in a temperature and humidity controlled area until delivery.

## 1.10 MOISTURE CONTENT

- .1 Finish material to be dried to a uniform maximum moisture content of 12% for exterior work and 8% for interior work.

**PART 2 PRODUCTS**

## 2.1 MATERIALS

- .1 Lumber - Softwoods - conform to AWMAC, Custom Grade
- .2 Lumber - Hardwoods - conform to AWMAC, Custom Grade except knots not accepted on stained finish work.  
Hardwood clear maple benches and shelving as noted in profiles shown on drawings.

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- .3 Douglas Fir plywood - Comply with CSA Standards 0121. Western softwood plywood - comply with CSA Standard 0151. Exposed two sides shall be Grade G2S, and exposed one side shall be Grade G/solid. Treat with fire retardent paint typically plywood mounted vertically 6" from F.F. in electrical room)
  - .4. Suspended Ceiling Mounted 3/4" x 4'x 8' ( or 12' ) lengths ) Cherry Veneer Good 1 Side with Birch veneer on up side 1/4" edge banded on all sides of panel ( mechanically support cherry panels with threaded steel rods suspended from 2"x 2" uni-strut support channels attached to u/s of steel joists with plywood stiffened with 2 angle per plywood panel ).
  - .5 Hardboard - Conform to CGSB 11-GP-3 tempered.
  - .6 Particle Board - Conform to CAN#-0188.1-M78 Grade H.
  - .7 Exposed framing Solid Members and Trim - quarter sawn, architectural grade, matched for compatibility of grain and colour, for stain finish.
  - .8 Concealed framing - comply with NLGA,S-Dry No. 1 Grade Ontario White Pine or Douglas Fir - comply with BCLMA Construction Grade.
  - .9 Adhesives - CSA 0112 Series M1977
  - .10 Plastic Laminates - CAN3-A172-M79 Grade G.P. Type S or G.P. Forming Grade as required from manufacturers standard range or finish schedule. Thickness tolerances in accordance with Table 1. Backing sheets manufactured by same manufacturer as the facing sheet, not less than 1/16" thick, sanded one side.
  - .11 Supply and install Stainless steel backsplash on wall behind gas range. Supply and install gable end covers complete with spacers and mineral fibre batt insulation to comply with NFPA 96 standards.

#### **Plastic Laminate / Surface Schedule**

[SS] Stainless steel finish for countertops laminated to 3/4" plywood c/w # 4 mill finish and backsplash profile and 1 1/2" Welded right angle nosing, grind finish returns - note pass thru sleeves colars welded to achieve passage to garbage receptacle thru counter top

[PLS-1] Avonite Solid Surface - Bronze F1-7830

[PL-3] Wilson Art products #7054-60 Wild Cherry

[PL-4] Formica # 507 Mouse Grafix - all washroom cabinetry, window stools, Fin SA 41

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Note all counters / window stools have radius bullnose edge and backsplash 4" high.

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1. **Kitchen Cabinetry - Janitor and Washroom Cabinetry -Vestibule Display Cabinets**

All cabinets manufactured and spray coat finished OFF site

Sides, Bottom Panels - 3/4" Cherry particle core plywood, edged on exposed edge with 3/8" Cherry hardwood GIS - exposed end gables G2S

Doors - 3/4" Cherry particle core G2S with 3/8" thick Cherry hardwood edging all sides

Shelving 3/4" veneer core G2S Cherry plywood c/w 3/8" hardwood edge on front edge.

Backs Panels - 1/4" thick Cherry backs in cabinet back

Kicker Panel - 3/4" thick particle board Cherry G1S - 6" high base

Pilasters recessed flush to side faces - Roll-It # 00120 full length Shelves Clips - # 00101

Blum Hinges Systems Half Overlay and or Full Overlay # 91A6500 / 91A6600 in 170 degree openings - 2 per door

Drawer Pull : Richelieu : Chrome pull knob for each pull drawer - part No 2608 34 mm c.c. M4 screw

Door Pull : Richelieu : Chrome pull for each cabinet door - part No 2602 96 mm c.c. M4 screw

Drawer constructed of 5/8" thick multiply Baltic Birch with 1/4" thick bottom

Full Extension B.B. Drawer Slides # 18008

All cabinet doors on the in the Kitchen have locks.

Cabinet Locks : CCL 0737 pin tumbler MK & KA by Rooms.

Confirm keying with owner

Stainless Steel counter tops c/w island drop holes for kitchen only

All cabinet doors below the vanity counter in Room # 108 have locks

Drawer Locks : CCL 0738 pin tumbler MK & KA by Rooms.

Cabinet Locks : CCL 0737 pin tumbler MK & KA by Rooms.

Confirm keying with owner

**Note - safety glass panels/sliding track in Vestibule #100 - Display Cabinet**

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2.3 **All Remaining Cabinets not indicated above  
( Finish Hardware )**

- .1 Products listed below are a standard of acceptance. Products by other manufacturers, of equal quality and similar appearance may also be provided subject to the review and approval by the Consultant.
- .2 Finish Hardware for Cabinetry - Product List :
  - .1 Hinges for 19mm door Blum 91-650, 170 degree self closing spring.
  - .2 Drawer Pull : Richelieu : Chrome pull knob for each pull drawer - part No 2608 34 mm c.c. M4 screw  
  
Door Pull : Richelieu : Chrome pull for each cabinet door - part No 2602 96 mm c.c. M4 screw  
  
Large Door Pull : Richelieu : Chrome pull for each large cabinet door - part No 496288 ( 288mm set for M4 Screws )
  - .3 Drawer Slides : KV 1429 full extension for 45 kg load @ 500 mm.
  - .4 Drawer Locks : CCL 0738 pin tumbler MK & KA by Rooms.
  - .5 Cabinet Locks : CCL 0737 pin tumbler MK & KA by Rooms.
  - .6 Elbow Catch : Ives 2-A14 on inactive door of locked pair.
  - .7 Pilaster and Clips : KV 255, 256.
  - .8 Hardware Finish : Unless otherwise indicated chrome or nickel plated.
  - .9 Grommets : EPD Series by D. Mockett or equal. 72 mm inside diameter with separate removable cap.  
Cut into kitchen counter ( 4 locations ).  
Cut into Appartatus Bay Computer Millwork Station  
(1 location)

PART 3 EXECUTION

3.1 FABRICATION

- .1 Take field dimensions of Work upon which Work of this Section depends before fabrication. Field adaptation of Work fabricated in error or without field check will not be allowed without Consultant's approval.
- .2 As far as practical, assemble work at the shop and deliver to the job ready for installation. Leave ample allowance for

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fitting and scribing on the job.

- .3 Fabricate work square and to the required lines. Recess and conceal fasteners and anchor heads. Fill with matching wood plugs.
- .4 Provide wood members free from bruises, blemishes, mineral marks, knots shake and other defects and select for colour grain and texture. Machine and hand sand surfaces exposed in the finished work to an even, smooth surface free from defects detrimental to appearance.
- .5 Provide running members in the maximum lengths obtainable. Provide thickness of members in maximum dressed size of standard lumber. Where thickness or width indicated is not available in hardwoods, use glue laminations to obtain sizes required. Provide unexposed backs of veneers having the same physical characteristics as the face veneer. Unless otherwise indicated, book match veneered faces using select and approved veneer.
- .6 Design and fabricate work to allow for expansion and contraction of the materials. Unless otherwise specified work shall be glued and blind screwed or nailed. Properly frame material with tight, hairline joints and hold rigidly in place. Use glue blocks where necessary. conceal joints where directed. Glue and pin mortise and tenon joints. Intermediate joints between supports will not be permitted. Set and fill surface nails. Prevent opening-up of glue lines in the finished work.
- .7 Comply with glue manufacturer's recommendation's for lumber moisture content, glue shelf life, pot life, working life, mixing, spreading, assembly time, time under pressure and ambient temperature.
- .8 Provide exposed end grain of solid members and edges of exposed plywood with matching solid edging at least 1/4" thick.
- .9 Seal finished carpentry and millwork items before they leave the fabricating shop. For surfaces to receive a natural or stain finish to ensure that the sealer is compatible with the final finish. Co-operate with Section 09900 and obtain written approval of proposed sealer.

### 3.2 FABRICATION - PLASTIC LAMINATE FACE WORK

- .1 Provide cores of not less than 20mm nominal thickness solid face Douglas Fir or Western Softwood Plywood, or particle board as noted on drawings.
- .2 Apply backing sheet to laminated flatwork. Apply uniform coating of sealer on exposed edges. Provide backing sheet of

sufficient thickness to compensate for stresses caused by facing sheet.

- .3 Self-edge straight line edging with 2mm standard material and radius corners with post-forming material, apply with same adhesive as facing sheet.
- .4 At L-shaped corners mitre plastic laminate to the outside corner. Accurately fit members together to provide tight and flush butt joints, in true planes. Provide 5mm blend spline and approved type draw bolts. One draw bolt for widths up to 150mm and at maximum 460mm centres for widths exceeding 150mm.
- .5 Provide cut-outs as required for inserts, fixtures and fittings. Use radiused corners and chamfer edges around cut-outs to avoid chipping laminate.
- .6 Post-form laminate work to details indicated. Provide same core and laminate profiles to provide continuous support and bond for the entire surface.
- .7 Assemble work, true to square. Arrange adjacent parts of continuous laminate work to match in colour and pattern.
- .8 Upon completion of fabrication, remove manufacturer's identification markings and clean plastic laminate surfaces.

### 3.3 INSTALLATION

- .1 Deliver millwork to the site. Provide units of such sizes as will no present difficulty of entry to the place of installation. Where units are shipped in knock-down form provide clear instructions for assembly.
- .2 Where millwork items are installed under this Section comply with the following:
  - .1 Deliver millwork items to the site and store in dry and clean location. Provide protection coverings during shipment and storage for all items. cover plastic laminate item with protective sheet material. Pad all corners of millwork, vulnerable to damage with suitable material. Do not deliver millwork items until required for erection.
  - .2 Install millwork items plumb, level, true, rigid, and secure.

### 3.5 CLEANING

- .1 Final cleaning in accordance with Division 1

END OF SECTION