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PART 1 - GENERAL

1.2 REFERENCE STANDARDS

- .1 Do Work to CSA A82.31-1977 except where specified otherwise.

PART 2 - MATERIALS

2.1 GYPSUM BOARD (Not all products listed below will be required on this project, review drawings.)

- .1 Plain + Type "X" (Fire rated): To CSA A82.27-M1977, standard and Type X, indicated thickness, 1220 mm Wide X maximum practical length, ends square cut, edges tapered.
- .2 Backing board & gypsum coreboard: To CSA A82.27-M1977 Plain and Type X indicated thickness, square edges.
- .3 Water resistant: To CSA A82.27-M1977 standard, indicated thickness, 1200 mm Wide X maximum length.
- .4 Exterior sheathing: To CSA A82.27-M1977 standard, indicated thickness, 1200 Wide X maximum practical length.
- .5 Shaft walls: Fire-rated drywall/steel-stud assemblies designed for installation from one side only.

2.2 FASTENINGS AND ADHESIVES

- .1 Screws: To CSA A82.31-1977.
- .2 Stud adhesive: To CGSB 71-GP-25M.
- .3 Laminating compound: To CSA A82.31-1977, asbestos free.

2.3 ACCESSORIES

- .1 Casing beads, corner beads fill type: 0.5 mm base thickness commercial grade sheet steel with G90 zinc finish to ASTM A525-78A; perforated flanges; one piece length per location.
- .2 Metal furring runners, hangers, tie wires, inserts, anchors: To CSA A82.30-1965 (R1971) (Galvanized).
- .3 Drywall furring channels: 0.5 mm core thickness galvanized steel channels for screw attachment of gypsum board.
- .4 Resilient clips or drywall furring: 0.5 mm base steel thickness galvanized steel for resilient attachment of gypsum board.
- .5 Acoustic sealant: To CGSB 19-GP-21M Tremcoapproved equal in accordance with B6.
- .6 Polyethylene: To CAN 2-51.33-M77, Type 2 - Minimum 6 mil thickness.

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- .7 Insulating strip: Rubberized, moisture resistant, 3 mm. thick cork or closed cell neoprene strip, 12 mm wide, with self sticking permanent adhesive on one face; lengths as required.
- .8 Joint compound: To CSA A82.31-1977, asbestos free.

2.6 ACOUSTICAL AND THERMAL INSULATION

- .1 Fibrous batt: Friction-fit glass fibre batts full thickness of stud space unless otherwise noted on drawings.

PART 3 - EXECUTION

3.1 AIR VAPOUR BARRIER

- .1 Except as otherwise noted, vapour barrier shall be placed on warm side of all insulation.
- .2 The vapour barrier shall be continuous and integral throughout all external surfaces of the building. All air leakage points shall be sealed with acoustical sealant or other approved method satisfactory to the Contract Administrator.
- .3 All lapped joints (minimum 150 mm lap) shall occur only over continuous solid backing and shall be sealed together with a continuous bead of acoustical sealant and stapled securely in place.
- .4 Openings for electrical boxes shall be wrapped in 6 mil. poly brought to the surface vapour barrier and spread out, unless a more stringent requirement is otherwise noted. "Vapour barrier boxes" are considered to be equal. If used, the wall air vapour barrier shall be sealed to the edge of the box with acoustical sealant.
- .5 Where the vapour barrier is punctured by a wire or cable the hole around same shall be plugged with "J. M. Dux-Seal", acoustical sealant, or approved equal in accordance with B6, or the wire shall be taped to the vapour barrier so as not to allow any air leakage.
- .6 Where the vapour barrier is punctured by a pipe, the vapour barrier and pipe shall be connected by a polyethylene "skirt" taped to the pipe and sealed to the existing vapour barrier with acoustical sealant.

3.2 SUSPENDED AND FURRED CEILINGS AND BULKHEADS: Applies only where indicated on drawings.

- .1 Erect hangers and runner channels for suspended gypsum board ceilings to CSA A82.31-1977 except where specified otherwise.
- .2 Install Work level to tolerance of 1:1200.
- .3 Frame with furring channels, perimeter of openings for access panels, light fixtures, diffusers, grilles.

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- .4 Install 19 x 64 mm furring channels parallel to, and at exact locations of steel stud partition header track.
- .5 Furr for gypsum board faced vertical bulkheads within or at termination of ceilings.
- .6 Furr above suspended ceilings for gypsum board fire and sound stops and to form plenum areas as indicated.

3.3 WALL FURRING

- .1 Install wall furring for gypsum board wall finishes to CSA A82.31-1977, except where specified otherwise.
- .2 Frame openings and around built-in equipment, cabinets, access panels, on four sides. Extend furring into reveals. Check clearances with equipment suppliers.
- .3 Furr duct shafts, beams, columns, pipes and exposed services, where indicated.

3.4 GYPSUM BOARD APPLICATION

- .1 Do not apply gypsum board until bucks, anchors, blocking, electrical and mechanical Work are approved.
- .2 Apply single and double layer gypsum board to wood, metal furring or framing using screw fasteners or stud adhesive for first layer, laminating adhesive or screw fasteners for second layer. Maximum spacing of screws 300 mm o.c.
- .3 Apply Type X gypsum board where indicated to obtain required fire rated assemblies.
- .4 Apply water resistant gypsum board backing in shower areas and bath areas to receive ceramic tile finish.
- .5 Apply 12 mm diameter bead of acoustic sealant continuously around periphery of each face of partitioning to seal gypsum board/structure junction where partitions abut fixed building components. Seal full perimeter of cut-outs around electrical boxes, ducts, in partitions where perimeter sealed with acoustical sealant.

3.5 ACCESSORIES

- .1 Erect accessories straight, plumb or level, rigid and at proper plane. Use full length pieces where practical. Make joints tight, accurately aligned and rigidly secured. Mitre and fit corners accurately, free from rough edges. Secure at 150 mm o.c. using contact adhesive for full length
- .2 Install casing beads around perimeter of suspended ceilings.
- .3 Install casing beads where gypsum board butts against surfaces having no trim concealing junction and where indicated. Seal joints with sealant.
- .4 Install insulating strips continuously at edges of gypsum board or casing beads abutting metal window or exterior door frames, to provide thermal break.

3.6 ACCESS DOORS

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- .1 Install access doors to electrical and mechanical equipment concealed behind or above drywall surface and designated by those divisions as requiring access.
- .2 Rigidly secure frames to furring or framing systems.

3.7 TAPING AND FILLING

- .1 Finish face panel joints and internal angles with joint system consisting of joint compound, joint tape and taping compound installed according to manufacturer's directions and feathered out onto panel faces.
- .2 Finish corner beads, control joints and trim as required with two coats of joint compound and one coat of taping compound, feathered out onto panel faces.
- .3 Fill screw head depressions with joint and taping compounds to bring flush with adjacent surface of gypsum board so as to be invisible after painting is completed.
- .4 Sand lightly to remove burred edges and other imperfections. Avoid sanding adjacent surface of board.
- .5 Completed installation to be smooth, level or plumb, free from waves and other defects and ready for painting.

END OF SECTION

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PART 1 - GENERAL

- .1 If floor surfaces vary more than 3 mm in any 3 m dimension, report such defects to the Contract Administrator and await remedial action.

PART 2.- MATERIALS

- .1 Vinyl Composition Inlaid Sheet flooring shall be Armstrong - Connection Corlon, colour: Sandstone 88713, with 0.080 in. (2.0 mm) overall thickness and 0.050 in. (1.27 mm) wear layer or approved equal in accordance with B6 for quality and colour. Reference Specification: ASTM F 1303 Type B, Grade 1, Class A
- .2 Low profile threshold shall be aluminum.
- .3 Adhesives shall be recommended by flooring manufacturer for applicable installation conditions.
- .4 4" (100 mm) high vinyl cove base shall be equal to Armstrong – Colour Integrated Wall Base, c/w coved toe, 0.080" (2.0 mm) thickness.

PART 3 - EXECUTION

- .1 All cracks, expansion joints or the like in floor shall be filled with proper patching compound and all varnish grease, oil, plaster, etc., shall be properly removed before application of flooring material.
- .2 Plywood underlays shall be sanded smooth with mechanical sanders before application of flooring material.
- .3 Temperature of floor surfaces shall be minimum +20 C 24 hours before, during and for 5 days after flooring installation.
- .4 Supply and install Vinyl Composition Sheet flooring to all rooms in Office –Staff Building.
- .5 Before placing sheet vinyl flooring ensure that variations in shade and pattern of production runs are grouped to avoid variations apparent within any one area,. Carefully fit to wall and cabinets. Apply bead of silicone sealant between baseboard and sheet vinyl to effectively seal against water leakage in event of water spill.
- .6 Place sheet vinyl flooring to position seams in areas that will experience the least amount of daily traffic. Seam and seal all sheet joints in accordance with manufacturer's instructions. Carefully scribe, cut and fit to walls, doorways and permanent fixtures.
- .7 Immediately following installation of flooring material roll the floor with a roller weighing 45 to 70 kg. from the center out to ensure good adhesion and to eliminate air pockets.
- .8 Where sheet vinyl abuts other floor finishes, cover joint with a low profile threshold.

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- .9 Remove any adhesive from the surface of the flooring or other materials as the Work progresses.

- .10 Carefully scribe, cut and fit vinyl base to walls, doorways and permanent fixtures. Install vinyl coved base using manufacturer's recommended adhesive, using the proper notched applicator trowel.

- .11 After flooring is laid and the adhesive set thoroughly, clean all floors using a mild approved soap solution and rinse clean with fresh water.

END OF SECTION

PART 1 - GENERAL

1.1 ENVIRONMENTAL REQUIREMENTS

- .1 Do not apply paint finish in areas where dust is being generated.

PART 2 - MATERIALS

2.1 MATERIALS

- .1 Paint materials: To CGSB Standards listed herein. Paint materials for each coating formula to be products of a single manufacturer.

2.2 ACCEPTABLE PRODUCTS

- .1 Penguin, Kaleidoscope, Para, Smart, Benjamin – Moore, & Pratt & Lambert.

PART 3 - EXECUTION

3.1 PREPARATION OF SURFACES

- .1 Prepare wood surfaces to CGSB-85-GP-1M.
 - .1 Use CGSB 1-GP-126M vinyl sealer over knots and resinous areas.
 - .2 Apply wood paste filler to nail holes and cracks.
 - .3 Tint filler to match stains for stained woodwork.
- .2 Touch up shop paint primer on steel with CGSB 1-GP-40M to CGSB 85-GP-14M.
- .3 Prepare galvanized steel and zinc coated surfaces to CGSB 85-GP-16..
- .4 Prepare masonry, cementitious surfaces to CGSB 85-GP-31M.
- .5 Prepare wallboard surfaces to CGSB-GP-33a. Fill minor cracks with plaster patching compound.

3.2 APPLICATION

- .1 Sand and dust between coats to remove defects visible from distance up to 1.5 m.
- .2 Finish bottoms, edges, tops and cut outs of doors after fitting as specified for door surfaces.
- .3 Finish tops of cabinets and projecting ledges, both above and below sight lines as specified for surrounding surfaces.
- .4 Finish closets and alcoves as specified for adjoining rooms.
- .5 Painting coats as specified are intended to cover surfaces perfectly. If surfaces are not properly covered, apply additional coats as necessary to properly finish Work.
- .6 Paint back face of all exterior wood with exterior primer to prevent warping.

- .7 Spray application is acceptable but only if followed immediately by rolling entire area of sprayed surface. Overspray onto adjacent items must be fully wiped off for acceptance by Contract Administrator.
- .8 Generally, allow for painting of all unfinished surfaces in finished areas (areas where room finish schedule calls for paint or other wall finish) and on exterior of building. Unless specifically noted, do not paint glass, aluminum, brick, stone & pre-finished materials.

3.3 MECHANICAL AND ELECTRICAL EQUIPMENT

- .1 Paint exposed conduits, pipes and other mechanical and electrical equipment occurring in finished areas as well as inside cupboards and cabinet Work. Colour and texture to match adjacent surfaces.
- .2 Paint disconnect switches for fire alarm system and exit light systems in red enamel.
- .3 Paint both sides and edges of plywood backboards for equipment before installation. Leave equipment in original finish except for touch-up as required, and paint conduits, mounting accessories and other unfinished items.

3.4 INTERIOR FINISHES

- .1 Drywall walls and ceilings in public areas: 1 coat P.V.A. primer sealer, sand smooth after drying. 2 coats alkyd low lustre enamel.
- .2 Interior window frames, sashes and grills: 1 coat enamel undercoat, 2 coats alkyd-semi gloss finish.
- .3 Metals un-primed and pre-primed: 1 coat of metal primer (as required), 2 coats alkyd enamel-semi gloss finish.

3.5 EXTERIOR FINISHES

- .1 Wood trims: 1 coat exterior grade latex primer, 2 coats exterior grade latex paint - semi gloss finish.
- .2 Pre-primed metals: 2 coats exterior grade alkyd enamel - semi gloss finish.
- .3 Un-primed metals: 2 coat metal primer, 2 coats exterior alkyd - semi gloss finish.
- .4 Galvanized Iron: 1 coat galvanized iron primer undercoat, 1 coats exterior grade acrylic latex - semi gloss finish.

3.6 COLOUR SELECTION

- .1 Colour selections will be made by the designer at a later date. Contractors shall allow for a minimum of 3 three accent colours to be selected at no additional cost to the The City.

END OF SECTION

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PART 1 - GENERAL

- .1 Installation of fibreglass wall and ceiling panelling shall be performed by skilled workmen familiar with panelling installation.
- .2 Examine finished plywood wall substrate for defects and imperfections. Report any concerns to General Contractor prior to installation on panelling.

PART 2 - MATERIALS

- .1 Fibreglass Wall Panelling: shall be equal to "Exceliner XL2" series 2500, general purpose panel for interior use as manufactured by Graham Products Ltd. Distributed by "Johnson Industrial Plastics" panel thickness shall be 0.075" (1.9 mm).
- .2 Exceliner Moulding & trims: inside and outside corner mouldings, joiner strips and end caps as manufactured by Graham Products Ltd., in longest practical lengths available.
- .3 Non-Corroding Drive Rivets: as supplied by Graham Products Ltd.
- .4 Caulking: clear silicone to C.G.S.B. Specifications 19-GP-3a and 19-GP-3b.

PART 3 - EXECUTION

3.1 PREPARATION

- .1 Un-crate and stand panels vertically on edge in areas where panels are to be installed, a minimum of 24 hours prior to installation. Ensure that room temperature is a minimum of 18 C for this period of time.
- .2 Examine wall surfaces to ensure a smooth, flush surface exists. Report any concerns to general Contractor prior to commencement of F.R.P panel application.

3.2 APPLICATION PROCEDURES

- .1 Panel lengths must accommodate panel thermal expansion. Refer to architectural detail at bottom of wall condition. Allow 1/4" (6mm) expansion space at ceiling moulding joint. Panel widths must allow for 1/8" (3mm) expansion space at each side of vertical moulding strips.
- .2 Pre-drill fastener holes 1/8" diameter larger than fastener diameter at a minimum spacing of 16" (400mm) o.c., to panel perimeter, no closer than 1" (25mm) from panel edge. Fastener holes in field of panel at a maximum of 16" (400mm) o.c.
- .3 Holding F.R.P. panel in place, drill fastener holes in substrate through the predrilled holes in F.R.P. panel using proper diameter bit for fastener shank. Follow fastening sequence as indicated in diagram included. Do not overdrive fasteners.

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- .4 To ensure watertight panel installation all edges are to be finished with P.V.C. mouldings complete with silicone sealant. P.V.C. mouldings are to be as manufactured by Graham Products Ltd. Follow manufacturer's exact instructions to install trim pieces and mouldings to provide a watertight finish which also allows panels thermal expansion space.

END OF SECTION