SPECIFICATIONS

NEW UNIVERSAL WASHROOM FOR
ST. JOSEPH CATHOLIC ELEMENTARY SCHOOL
COBOURG
FOR
PETERBOROUGH VICTORIA NORTHUMBERLAND
& CLARINGTON
CATHOLIC DISTRICT SCHOOL BOARD

ARCHITECT: **WILCOX ARCHITECTS INCORPORATED**
74 LINDSAY STREET SOUTH
LINDSAY, ONTARIO, K9V 2M2
PHONE: (705) 328-0175

CAT 24056/Specifications

TABLE OF CONTENTS

NEW UNIVERSAL WASHROOM FOR
ST. JOSEPH CATHOLIC ELEMENTARY SCHOOL
COBOURG

FOR

PETERBOROUGH VICTORIA NORTHUMBERLAND
& CLARINGTON
CATHOLIC DISTRICT SCHOOL BOARD

TABLE OF CONTENTS

NEW UNIVERSAL WASHROOM FOR
ST. JOSEPH CATHOLIC ELEMENTARY SCHOOL
COBOURG

FOR

PETERBOROUGH VICTORIA NORTHUMBERLAND
& CLARINGTON
CATHOLIC DISTRICT SCHOOL BOARD

TABLE OF CONTENTS

NEW UNIVERSAL WASHROOM FOR
ST. JOSEPH CATHOLIC ELEMENTARY SCHOOL
COBOURG

FOR

PETERBOROUGH VICTORIA NORTHUMBERLAND
& CLARINGTON
CATHOLIC DISTRICT SCHOOL BOARD

Page No.

APPENDIX

1. **GENERAL**

1.1. The owner is Peterborough Victoria Northumberland & Clarington Catholic District School Board.

1.2. Construction will be reviewed periodically by the Owner and the Architect. The Architect will be the administrator of the contract.

1.3. Space will be vacant during the work.

2. **WORK UNDER THIS CONTRACT**

Renovation of existing washroom/health area off the general office to provide new universal washroom with two access doors. Includes removal of all existing ceilings, lighting and concrete block walls as well as section of existing concrete slab. New work of concrete slab, block walls, cabinetry, finishing/plumbing, ceilings and lighting connected to existing services.

END OF SECTION 01010

1. Cash allowances shall be expended only on the Architect's/owner's written instructions.

2. The Contractor's charges for overhead and profit on account of Cash Allowance shall be included in the Contract Amount in accordance with G.C. 4.1 of the General Conditions of the Contract as amended.

3. Credit the Owner with any unused portion of Cash Allowances in the statement for final payment.

4. If a test made under payment by a specified allowance proves that the material tested is unacceptable, then the subsequent testing and replacement materials shall be at Contractor's expenses.

5. Include in the stipulated sum quoted a single Cash Allowance in the amount of $5,000.00.
    - computer and telephone wiring
    - P.A. system

    Return any surplus equipment to the owners.

TOTAL $ 5,000.00

END OF SECTION 01020

1. **GENERAL**

1.1. Demolition and/or removal means the complete removal of all items and associated work from the site and the making good of all disturbed surfaces affected to acceptable finishes.

1.2. Electrical and mechanical demolition for installation of heating, ventilation, and electrical lighting including light fixtures and associated systems is the responsibility of the respective trade under supervision of the general contractor.

1.3. Remove existing components as required for installation of new work as noted. Confirm locations of all existing services on site prior to demolition activities.

1.4 Remove existing:

- flooring/base and ceramic floor/wall tile
- cabinetry/millwork
- plumbing fixtures and electrical components as noted
- doors/frames
- fitments
- acoustic tile ceilings/lighting
- interior drywall and bulkheads
- concrete block partitions and new openings in block walls as called for
- sections of concrete slab
  as per demolition plan

2. **EXECUTION**

2.1. Note that work is being performed within an existing building and the contractor is to provide protection of the work and property in accordance with Part 9 of CCDC 2.

2.2. Keep access areas to work reasonably clean during work and on completion perform final cleaning as specified.

END OF SECTION 02000

1. GENERAL

1.1. Comply with requirements of Division 01.

1.2. Work of this section includes supply and placing of concrete at slab removals.

1.3. All workmanship to be performed by skilled and experienced workmen with a competent supervisor to be on site continuously throughout each work day.

1.4. Protect existing and new construction. Be responsible for repair and/or replacement of items damaged in the construction of this work.

2. MATERIALS

2.1. The ultimate 28 day compressive strength of concrete unless noted otherwise, shall be 25 Mpa with air entrainment content of 5.9% to 7% and maximum water/cement ratio by mass of 0.55.

2.2. The concrete supplier shall be responsible for concrete mix design - conform to CSA A23.

2.3. Only read mix concrete is permitted on this job.

2.4. Vapor barrier to be 6 mil polyethylene

2.5. Joint filler to be non-extruded pre-moulded fibre type saturated in bituminous binder.

3. EXECUTION

3.1. Supply and install concrete, including placing, finishing and curing as shown in accordance with CSA A23 and CSAG30.

3.2. Install pre-moulded joint filler at all junctions of slab with foundation wall.

3.3. Provide new concrete slabs, as noted on the drawings, over vapour barrier – steel trowel finish. Provide slopes to drain in shower area and thickening for new block partitions called for.

3.4. Provide two coats of clear sealer.

END OF SECTION 03300

1. **GENERAL**

1.1. Comply with General Requirements Division 01.

1.2. Submit samples of block and brick before delivery to site.

1.3. Building in all miscellaneous inserts, anchors, blocking sleeves, lintels, conduit and other accessories as required.

2. **MATERIALS**

2.1. Concrete Block: All hollow concrete block shall be autoclave block having a minimum compressive strength of 7.5 MPa on the gross area, standard metric to sizes as indicated on the drawings and details. Concrete block to be 8" or 6" thick in locations noted to Atlas Block Co. Ltd. or equal.

2.2. Mortar shall be type N grey colour conforming to CSA CAN 3-5304-M78 and type S for load bearing walls to CSA standard A179, mortar and grout for unit masonry.

2.3. Non Shrink Grout: M-bed by Sternson Ltd.

2.4. Joint Reinforcement: Heavy Duty ladder type reinforcing for all single wythe masonry walls and extra heavy duty ladder type Blok-Lok for all walls with 2 wythes.

2.5. Provide masonry units for interior partitions to height and locations in thicknesses as indicated on the drawings.

3. EXECUTION

3.1. Give other trades notice of intention to proceed and incorporate anchors and other components to ensure proper installation of later work.

3.2. Lay block in running bond (half-bond) pattern. Select units randomly from cubes so as not to create a defined pattern.

3.3. Provide and maintain protection for masonry walls at all times when work is interrupted or temporarily ceased to prevent moisture from entering unfinished walls.

3.4. Comply with CSA A371-94 and use CSA A224 for cold weather requirements.

3.5. Joints shall be neatly tooled to produce concave joints. All interior surfaces ready for paint finishes.

3.6. Masonry shall be carried up solid between joints and built tight around beams and lintels with all voids full. Provide minimum 6" bearing for steel lintels bearing on masonry. Bearing shall be on solid masonry 8" deep and projecting 8" on each side of beam or base plate.

3.7. Install reinforcing continuously at every second course securely fastened to substrate unless noted otherwise.

3.8. Brace and support work as required during operation until final set is achieved.

3.9. Install masonry reinforcing in 2 consecutive courses above and below all openings in walls, extending not less than 600 mm (2') on each side of opening. Install metal angles for all door and window opening perimeters as per details and fasten securely to block for support of door/window framing.

3.10. Build in hollow metal frames and ensure that anchors are solidly bedded. Fill hollow metal frames completely with grout.

3.11. Set lintels and other members that lay on masonry. Group them accurately in place and fill voids solid under joist and beam bearings, vertical reinforcing, and as noted on the drawings.

3.12. **Remove sections of existing masonry carefully and tooth back repair work Matching existing.**

3.13 Provide reinforcing to connect new partitions to existing walls. Run all walls to underside of metal deck or concrete slab and secure to maintain acoustic/fire separations.

3.14. Clean masonry surfaces with water, detergent or proprietary masonry cleaner and brushes. Do not use muriatic acid.

END OF SECTION 04200

1. GENERAL

1.1 Conform to General Instructions as applicable.

1.2 Millwork includes for new cabinetry as noted on the drawings. Co-ordinate mechanical & electrical service installation with Division 15 & 16

1.3 All millwork to A.W. MAC standards.

1.4 Site measure to confirm all existing conditions. Submit shop drawings and samples of laminates, door panels, edging & all hardware to Architect for selection prior to ordering.

1.5 Warranty all work against manufacturing defects, including warpage or delamination, for a period of five (5) years from substantial performance date. Make good or replace work showing defects in this period, as requested, at no cost to the owner.

1.6 Install hollow metal doors and finished hardware as called for on drawings.

2. MATERIALS

2.1 Finishing Work: Materials used for finish work shall be sound, free from defects that would mar finished appearance, well seasoned and air dried and of good quality for intended purposes. Wood laminates pressure bonded

2.2 All cabinetry to have plastic laminate Hard Rock Maple finish over particle board. All exposed edges to have 3mm PVC edge banding. All interiors of doors to be classified as exposed. Use ¾" for all shelving, door/drawer fronts and gables. Use ½" for drawer bottoms and cabinet backs.

2.3 All counter tops and counter edges/splashes & window sills covers to be faced with plastic laminate type 1 general purpose. Post form tops with 4" splash as indicated, and laminate all exposed surfaces. Use ¾" plywood cores typical all locations.

2.4 All cabinetry to be frameless type complete with metal drawer slides (both sides) with ball bearings, 120^0 self closing hinges, and metal d pulls - brushed chrome finish. Use recessed chrome pilasters for shelf support (2 per side typical). Specific list as follows:

PULLS	4" long stainless steel functional pull 3311 BP221170 Richelieu complete with screws
DOOR HINGES	125 Degree Clip top BLUMOTION Soft Close Hinges with Dowel 71B7580D180 and adjustable Cam Mounting Plates 173H710180 and Hinge Cover Plates
DRAWERS	Blum BLUMOTION Movento, Full Extension Concealed undermount, soft closing drawer slides.
DOOR BUMPER	Clear soft adhesive type (2 per door)
RECESSED PILASTER	K & V #255 ZC
PILASTER CLIP	K & V #256 ZC

3. EXECUTION

3.1 Include for all finishing work indicated on drawings.

3.2 Edge all doors, shelves, drawer fronts etc. PVC banding with adhesive.
Fasten all work blind using screws and secure to solid blocking/substrate.

3.3 Co-ordinate work with other finishing trades/ mechanical and electrical trades for installation of services. Note all kicks to receive vinyl base supplied/installed by Division 9

3.4 Installation and assembly work on job shall be executed by skilled trades. Install all work level, plumb, & true in all respects.

3.5 Provide smooth surfaces with fastenings sunk and filled over to received finish. Use draw bolts in counter top joints.

3.6 Install all accessories in all locations noted and supplied by Division 10.

3.7 Install all door hardware and adjust for smooth operation.

END OF SECTION 06400

1. **GENERAL**

1.1. Comply with General Requirements Division 01.

1.2. Thoroughly clean all sealant smears from adjacent surfaces upon completion.

1.3. Proven written warranty covering making good of defects in materials and workmanship for a period of 2 years.

1.4. Execute work in accordance with manufacturer's instructions.

2. **MATERIALS**

2.1. To O.B.C. Section 9.28 and CAN2-19.24-M80.

2.2. Equivalent to Tremco products or equal.

2.3. Type 1: Two component urethane for moving joints.

2.4. Type 2: One component, urethane base solvent covering for static joints.

2.5. Sealant Backing: Extruded, foamed, close cell, round polyethylene rod 25% wider than joint.

3. **EXECUTION**

3.1. Exterior Caulking:

- control joints
- metal at wood
- metal to metal
- masonry at wood
- concrete at wood
- perimeter of steel door and screen frames inside and outside
- pipes and equipment passing through exterior walls
- full length of exterior door thresholds
- perimeter of louvers - inside and outside

3.2. Interior Caulking:

- exposed control joints
- metal at wood
- concrete at wood
- concrete at metal
- cabinetry counters to walls

3.3. Joints to be caulked shall be cleaned of dust, oil, grease, water, frost, loose mortar and other foreign matter. Cleaning shall ensure a clean, sound base surface for sealant adhesion.

3.4. When air temperature is below 40 deg. F. consult sealant manufacturer for recommendations regarding application.

3.5. Joints ¼" or more wide shall be packed with pre-moulded backup rope. Install a bond breaker behind sealer in joints less than ¼" in width. Caulked joints must have pre-moulded back or bond breaker behind sealant.

3.6. Apply sealant under pressure with hand actuated guns. Gun nozzle shall be of proper size to fit and fill and seal joint.

3.7. Remove all excess materials and debris from site.

END OF SECTION 07900

1. GENERAL

1.1. Comply with General Requirements Division 01.

1.2. Submit shop drawings in accordance with Division 01.

1.3. Verify door sizes by site measures to suit existing openings.

1.4. Tag frames and doors and deliver to site with identification marks indicating proper locations.

1.5. Co-ordinate work of this section with other sections. – section 08200 Wood Doors.

1.6. Prepare and co-ordinate for all hardware – installation by Finished Carpentry Section 06400.

2. MATERIALS

2.1. Hollow metal door frames shall be fabricated of 18 ga. wipe coat galvanized steel reinforced and welded as manufactured by S.W. Fleming or equal fully insulated at locations called for. Minimum 6 anchors per frame.

2.2. Hollow metal doors shall be Type D-18 series as manufactured by S. W. Flemming Ltd. or equivalent, fabricated of 18gs. Wipe coat galvanized steel with no visible seams complete with 16 ga. end channels weld to top and bottom door insulated for exterior doors.

- Shall be shop primed paste filled and sanded smooth, stiffened, insulation and sound deadened.
- Shall be mortised, reinforced, drilled and tapped for hardware as scheduled.

2.3. Rated assemblies and sizes as per Door Schedule on drawings.

3. EXECUTION

3.1. Installation of frames by Division 4. Doors by Division 6.

3.2. Locate and anchor frames in alignment with other work. Anchor frames to retain position and clearance during construction of walls and partitions.

3.3. Brace frames solidly in position while being built in. Install temporary wood spreader at mid-height of frame to maintain width until adjacent wall work is completed.

3.4. Generally, anchorage of frames shall be by means of standard anchors. Where standard anchors cannot be used, provide suitable anchors to ensure proper installation. Method of anchorage shall not be visible when frames are installed.

3.5. Clean up and remove excess material from site.

END OF SECTION 08100

1. **GENERAL**

1.1. Comply with General Requirements Division 01.

1.2. Submit shop drawings, schedule, and samples in accordance with Division 01 for review prior to ordering materials.

1.3. Co-ordinate rough in of Doors & Frames with Section 08100.

1.4. Supply all hardware called for to Section 06400 Finished Carpentry for installation. Pack securely and label all material by door location.

1.5. Provide 10 year warranty for door closers and 1 year warranty for all other products from date of Substantial Performance.

1.6. Note positions indicated for reuse of existing hardware to replacement door positions.

2. **MATERIALS**

See Attached List

3. **EXECUTION**

3.1. See attached schedule for mounting heights and locations for rough in. Confirm existing frame hardware locations/sizes prior to ordering to ensure compatibility.

3.2. Take inventory of all materials and confirm locations, door swing, and rough in for all points prior to start of installation.

3.3. Installation of hardware by Section 06400 Finished Carpentry.

END OF SECTION 08700

1. GENERAL

1.1 Comply with requirements of Division 01.

1.2 Fully protect the work of others from damage arising out of the execution of the work.

1.3 Cover floors with heavy kraft paper and remove just before final cleaning.

1.4 Provide 1 calcium chloride test for each washroom to confirm moisture content is acceptable to install new flooring.

2. MATERIALS

2.1 Ceramic Tile: Wall tile to be Snow White matte finishes 4” x 12” Ontario Series and floor tile to be 2" x 2” Mottled Grey FS Quebec Series with integral cove base by Olympia or equal.

2.2 Adhesive:
- Primer, grout, cements, self levelling, and waterproof products to Kiesel system distributed by Halton Imports or approved equal.

2.3 Grout shall be made with Flextile Polymer modified wall grout admixture, or approved alternate to manufacturer’s printed instructions, (waterproof, self-curing, non-dusting, dry-set cement type, non absorbent, capable of being colours, suitable “thin-set” method of tile installation. Colour to be selected later from standard colour list for suites.

2.4 Cement Board- install new ½” cement board over existing block walls to be retained and have new ceramic tile installed. See drawings for locations and height to be above new acoustic tile ceiling.

3. EXECUTION

3.1 Prepare surfaces and install tile in strict accordance with the manufacturer's directions. Remove paints and other impurities. Install cement board in locations called for. Apply primer and self levelling products and waterproofing system for all floors and all walls/shower floor strictly in accordance with the manufacturer's recommendations.

3.2 Perform work neatly and carefully by persons skilled in this trade.

3.3 Note that backing surface shall be sound, well-cured and dry and surface variation shall not exceed 6mm in 2.4M (1/4" in 8-0"). Wall substrates to be concrete block or cement board installed by other Divisions.

3.4 Apply adhesive in accordance with manufacturer's instructions.

3.5 Layout tile so that fields or patterns are centred and so that no tile is less than one half size. Joints to run through. Faces and joints shall be plumb and true. Form intersections, corners and returns accurately. Butt internal vertical intersections.
Note: slope to drain at shower area.

3.6 Sound tiles after setting and replace hollow-sounding units to obtain full bond.

3.7 Clean with cloths dampened with mineral spirits and allow to dry overnight before grouting and grout with dry-set cement forcing grout well in joints and remove excess and polish with clean cloths.

3.8 Do not permit any foot traffic for 48 hours following installation.

3.9 Provide full maintenance and cleaning instructions for inclusion in maintenance manuals.

Cleaning

3.10 Clean tile immediately after grouting. Stainless steel wool may be used to remove spots of grout which have set on surface.

3.11 If acid cleaning is deemed necessary, obtain written permission from Architect before proceeding.

END OF SECTION 09300

1. **GENERAL**

1.1. Conform to the General Conditions as applicable.

1.2. Provide an additional 5% quantity of each acoustic board installed, in sealed and labeled cartons, for owners use, and deliver as directed.

1.3. Submit samples of acoustical tile to Architect for approval, prior to ordering.

1.4. Deliver materials in their original wrappings or containers with manufacturer's labels and seals intact and store in a dry area under cover and clear ground.

1.5. Ship grid members and moulding in rigid crates and avoid damage. Bent or deformed materials will be rejected.

2. **MATERIALS**

2.1. Suspension systems: equivalent to C.G.C. ceiling system for 2' x 4' grid assembly – see ceiling plans for locations.

2.2. Basic Steel Material & Finish: Commercial quality cold rolled steel (0.179") (26 ga.) (0.455 mm) thick, galvanized zinc coating designation (G90) Z275. Exposed surface of metal products shall be factory finished with satin white enamel.

2.3. Hangers: Minimum .1084" (12 gsg.) overall thickness galvanized to zinc coating designation G90 (Z275).

2.4. Main Tees: 12'-0" long, zinc-coated steel, double web design, 1-½" web height, 15/16" face width.

2.5. Main Tee Splices: Designed to lock lengths of main tees together so that joined lengths of tee function structurally as a single unit tee faces at joint perfectly aligned and presenting a tight seam.

2.6. Cross Tees: 2'-0" and 4'-0" long at 2'-0" o.c., 1" web height structural cross-section design same as main tees, designed to connect at main tees forming positive lock without play, loss or gain in grid dimensions with offset over-ride of face flange over main tee flange to provide flush joint.

2.7. Edge Moulding: M7 wall moulding.

2.8. Tile:

- 2' x 4' x 5/8" medium textured non-directional panels 763 Georgian lay in
- All tiles NRC Range .5 - .55 as manufactured by C.G.C. Ceiling Systems or equal. Frame spread 25, colour white (match existing)

2.9. Tire Wire: 1.20 mm (18 gs.) nominal diameter galvanized soft annealed steel.

2.10. Inserts and Fasteners: Galvanized and of size suited for loading conditions.

3. EXECUTION

3.1. Install acoustic ceilings using tradesmen skilled in this class of work, in strict accordance with manufacturer's instructions and as specified herein.

3.2. Neatly and symmetrically fit and run suspended ceiling to true lines, evenly balance in all areas to pattern shown on the Drawings or as directed.

3.3. Centre ceiling system on room axis leaving equal full border tiles. Co-ordinate drywall bulkhead size to allow for full ceiling tiles as per reflected ceiling plan layout.

3.4. Recessed items shall replace or be centred on acoustical panels; except where indicated otherwise. Consult with Mechanical and Electrical Divisions to co-ordinate work. Provide additional supports where required.

3.5. Space hangers for suspended ceilings to support the grillage independent of walls, columns, pipes and ducts at maximum 4'-0" centres along the support grillage and not more than 6" from ends. Attach hangers to the overhead structure by hanger clips. Bend top of hangers at right angles, turn down and securely fasten. Turn bottom of hangers upwards and securely wrap three times.

3.6. Provide written conformations to Divisions 15 and 16, when requested by the Architect, that the suspended ceiling is capable to supporting the additional weight of mechanical and electrical fixtures required by Divisions 15 and 16.

3.7. Run main tees right angles to length of light fixtures.

3.8. Space main tees 4'-0" in one direction and securely tie to hangers.

3.9. Space cross tees 2'-0" o.c. at right angles to the main tees and properly lock at intersections.

3.10. Level the suspended systems with a maximum tolerance of 0.18" over 12'-0".

3.11. Use the longest practical lengths of tees, furring and running channels to minimize joints. Make joints square, tight, flush and reinforced with concealed splines. Assemble framework to form a rigid interlocking system.

3.12. Design suspension system to accommodate movement caused by thermal expansion or contraction.

3.13. Design and space hangers and carrying members to support the entire ceiling system, including lighting fixtures, diffusers and equipment openings in locations shown on drawings.

3.14. Use edge moulding where ceiling abuts vertical surface. Run ceilings over top of curved drywall bulkheads.

END OF SECTION 09510

1. GENERAL

1.1. Comply with requirements of Division 01. Only trades with minimum 5 years proven experience and training from the manufacturer are permitted to install these products for this project. Provide 10 year Heavy Commercial Warranty for products.

1.2. Submit full size sample tiles.

1.3. At completion of work deliver to Owner 2% of the quantity installed of each flooring material, in each colour and pattern and in labelled packages.

1.4. Maintenance Instructions: Submit cleaning, and finishing instructions for each installed material to Contractor for his information in final cleaning and later submission to Owner.

1.5. Proceed with floor laying only when surfaces, materials and air temperatures have been maintained between 21 and 32 deg. C. for 72 hours preceding installation, and will be so maintained during installation for 7 days following.

1.6. Barricade areas where flooring is completed and otherwise protect newly installed flooring until adhesive has set.

1.7. After flooring has set, and until project completion, co-ordinate work to ensure that floors are not damaged by traffic. Ensure that flooring is not subjected to any static loading during the week following installation.

2. MATERIALS

2.1. Flooring (VCT): To be 12”x 12” x 1/8” vinyl tile by Armstrong Excelon or equal. Colour(s) to be chosen later from manufacturer’s standard line. Provide material from Same production run for one area, and same manufacturer for entire project.

2.2. Resilient Base: Coved bottom, ¼” thick, 4” high, by Johnsonite Industries Limited or as approved by Architect, in colours selected by Architect from manufacturer’s standard range.

2.3 Transition strips metal with colour matched vinyl strip.

2.4 Primer and Adhesive: As recommended by flooring manufacturer for each subfloor condition.

2.5 Cleaner: Neutral chemical compound that will not damage tile or affect its colour.

3. EXECUTION

3.1. Remove existing flooring/base and examine subfloor to ensure that moisture content is not in excess of maximum limit specified by adhesive manufacturer, and that surfaces and environmental conditions are satisfactory. Defective work resulting from unsatisfactory surfaces or conditions will be considered the responsibility of those performing the work of this section..

3.2. Determine types of curing agents and sealers applied in finishing concrete slabs, and their compatibility with flooring adhesives intended for use. Adopt methods required, including complete removal if necessary, to ensure that bond of adhesive is not impaired.

3.3. Remove dusting and caulking from concrete subfloors with wire brushes, and prime.

3.4. Clean subfloor to remove soil and deposits which would lessen adhesive bonding, and foreign materials which would telegraph through flooring stone or power grind to remove any nibs or ridges. Fill joints, cracks and holes, and level irregularities with filler.

3.5. Prime subfloor as recommended by adhesive manufacturer and allow to dry..

3.6. Apply adhesive using a notched trowel over an area that can be laid during the open time.

3.7. Install tile laid out with continuous joints parallel to minor axis of rooms and joints parallel to major axis half staggered, with grain of adjacent tile parallel, and with no tiles of varying pattern, color and texture over floor areas to ensure an evenly blended appearance. Do not lay tile having pattern, color or texture in marked contrast with other tile, form tapers by sanding backs of tile at junctions with thinner finish flooring to flush up ;surfaces. Use waterproof adhesive on slabs on grade and in washrooms, janitor rooms and similar areas subjected to frequent floor scrubbing.

3.8. Butt joints closely and cut and fit flooring around door frames, openings in floor.

3.9. Install bases in lengths as long as possible, not in runs made up of short lengths. Cut and mitre internal corners and provide preformed external corners, and accurately scribe around door frames, openings and similar wall breaks. In areas where bases are indicated, install them also on columns and fitments within the area as well as cabinetry kicks.

3.10. Clean off excess adhesive before it sets. Clean flooring no sooner than 48 hours following installation. Use floor cleaner where required.

3.11. Waxing and sealing will be by others.

END OF SECTION 09660

1. **GENERAL**

1.1. Comply with General Requirements Division 01.

1.2. Meet standards specified in Architectural Painting Specification Manual, Ontario Edition published by the Canadian Painters Contractor's Association.

1.3. Submit samples of each specified paint, colour and wood finish.

1.4. Submit list of all materials, manufacturer catalogue numbers, etc.

1.5. Deliver to Owner on completion of work, one quart of each colour, clearly labeled.

1.6. Cover or make surfaces adjacent to those being finished and protect work of others from damage and/or paint spills.

1.7. Repainting of existing repaired surfaces shall extend to closest edge(s) if proper match not obtainable.

2. **MATERIALS**

2.1. Manufacturers approved for supply of materials are:

- Canadian Industries Ltd. (CIL)
- Dulux
- Pratt & Lambert Inc.
- Canadian Pittsburgh Industries Ltd.
- Benjamin Moore
- Glidden

2.2. Supply only the best quality material for each specified line.

2.3. Materials used shall meet or exceed CGSB Specifications.

3. EXECUTION

3.1. Examine surfaces prior to application for moisture content and acid alkali balance. Acceptance of surfaces signifies responsibility for finished products.

3.2. Clean all surfaces and remove foreign materials, fill cracks, holes and depression and smooth for finish.

3.3. Paint piping, conduit, grilles, duct work exposed to view to match background colour.

3.4. Patch, repair and paint all new duct penetrations. Paint all new and existing concrete block, metal deck/joists, ductwork, doors and frames.

3.5. Colours will be provided by Architect upon award of contract.

3.6. Finishes:

Interior Metal Work

- 1 coat primer
- 2 coats of acrylic latex semi-gloss finish

Interior New Painted Concrete Block

- 1 coat of Moorcraft block filler or equal
- 2 coats of acrylic latex eggshell finish

Interior Existing Concrete Block

- 1 coat of X-per 250 Gripper
- 2 coats of acrylic latex eggshell finish

3.7. Clean-Up

3.7.1. Clean up daily. All paint rags, empty cans shall be removed from the site upon completion of each day's work. Upon Total Completion provide total clean up.

END OF SECTION 09900

1. **GENERAL**

1.1. Comply with requirements of Division 01.

1.2. Submit shop drawings for review and comment.

1.3. Supply products for installation under Section 06200.

1.4. Provide warranty on all products for 2 years.

2. **MATERIALS**

2.1. **Washroom Accessories**

2.1.1 The following items will be purchased and installed by this contract:

- Mirrors - 1 per sink – all locations
  - 610 x 1220mm fixed mirror in stainless steel frame for each sink location. American Specialties or equal.
- Universal Washroom

  - Grab Bars for each toilet
    - 30 – 40mm O.D. 18 ga. chrome plated with mandrel ends fully knurled to 100mm from bends secured with 64mm non-corrosive screws to solid backing capable of supporting 500 lbs. pull including:
      a) 600mm long at 150mm above toilet tank
      b) 760mm horizontal/vertical components with vertical mounted 150mm off front end of toilet seat
      c) 1000mm vertical and L shaped 1000 x 760mm for shower
  - Chrome shower rod and curtain
  - Stainless steel shelf 100 wide x 400mm long
  - Recessed stainless steel soapdish
  - Folding shower seat to be B-5191 by Boberick or equal. Seat to be 460 wide x 400 deep.
  - Safety coat hook (single) 1150 Frost or equal. All stainless steel.

2.1.2 The following items will be supplied by the owner to be installed by this contract:

- One surface mounted soap dispenser - 1 per washroom
- One surface mounted toilet tissue dispenser - 1 per washroom
- One surface mounted towel waste container – 1 per washroom

Electric hand dryer by Division 16.

3. EXECUTION

3.1. Install washroom accessories securely with the concealed fasteners supplied by the respective accessory manufacturer in accordance with recommendations of the manufacturers and to the satisfaction of the Architect.

END OF SECTION 10800

1. **GENERAL**

1.1. Conform to General Conditions as applicable.

1.2. Submit shop drawings to Architect for review prior to ordering.

1.3. Warranty all work for a period of 1 year.

2. **MATERIALS**

2.1. Sanitary drainage and vent piping above floor shall be PVC DWV certified to CSAB181.2 or type DWV hard drawn copper tube with cast brass solder fittings (use 95/5 solder) up to 63mm (2-1/2") copper overcast iron. For plenum spaces use tested and listed in accordance with CAN/ULC S102.2/flame spread rating no more than 25. Smoke developed classification not exceeding 50 to IPEX system XFR 15-50 DWV. Sanitary piping below slab floor shall be ABS DWV with solvent weld joints for sizes up to 2½". For 3" and over use ring tight couplings. Modify and connect to existing plumbing.

2.2. Hot and cold water piping to be ½" type L hard drawn copper tube with wrought copper solder fittings (use 915/5solder). Insulate all hot and cold water supply piping with 1" thick glass fibre dual temperature insulation with factory applied fire resistant glass fibre reinforced kraft paper and aluminum foil vapour barrier with all service jackets. Use pressure sensitive lap sealing system – John Manville microlok or equal. Modify and connect to existing plumbing.

2.3. **Type A**
Barrier free toilet to be American "Cadet Pro" 215CA.154 floor mounted elongated from, 6 1 (1.6 gal) flush 2 1/8" glazed trapway, lined tank, chrome finished handle, and tank cover locking device. Contoco 820STS open front solid heavy duty plastic seat (no cover) and stainless steel hinges complete with rigid supplies and escutcheons. ½" cold water, 3" drain and 1½" vent. All or equal.

2.4. **Type B**
Barrier free sink to be "Murro" no. 0954 004EC wall hung, vitreous china, rear overflow, self draining deck, 4" centers complete with electronic hand washing faucet – Sloan Options systems ETF – 80 or equal plus trimplate, transformer and mixing valve, metal drain with open grid strainer. Provide thermostatic mixing valve under sink set at 109^0F, rigid supplies and escutcheons, offset "P" waste trap with cleanout, ½" hot and cold water, 1 ¼" drain, and 1 ¼" vent. Provide metal carrier for metal stud wall support of sink. Comes with shroud. All or equal.

2.5. Floor drain to be cast iron body, trap primer ½" thick, 3" diameter nickel bronze strainer and grate Zurn or equal.

2.6. Barrier free shower to be Delta T13H152, C/W rough in valve body R10000 series pressure balancing valve, integral checks, metal lever handle, hand shower with 36" stainless steel grab bar. Max flow 4.3 L/min.

2.7. **Exhaust & Duct Work/Grilles**
Provide ductwork to dimensions and locate as per drawings. Connect to existing central exhaust ductwork. Retain ductwork existing make up air transfer duct to corridor. Provide grilles to locations and sizes as called for to E.H. Price or equal.

3. EXECUTION

3.1. Provide all equipment, materials, labour and services, etc. necessary to complete the work. All materials and equipment used are to be new and are to have C.S.A. approval. Materials and equipment are specified by name to establish a standard of quality and workmanship. Use only specified equipment or alternates noted.

3.2. Visit and examine the site and become familiar with all existing conditions affecting the work, prior to submitting tender. Now allowances in cost will be made by the owner for any difficulties encountered in the work arising out of conditions existing at the time of tendering.

3.3. Obey all applicable codes and regulations of all governing authorities having jurisdiction over the work.

3.4. Where the supply of an item is specified generally only without extensive detail, this implies the item and/or work shall confirm with the requirements of the governing authority and/or manufacturer's recommendations.

3.5. Conform to the best practices applicable to this type of work. Install all equipment and systems in accordance with the manufacturer's recommendation but consistent with the general requirements of this specification.

3.6. Arrange and pay for all permits, inspection fees, certificates, etc. connected with the work.

3.7. Perform all tests required by the authorities having jurisdiction, supply therefore all necessary equipment and labour.

3.8. Provide hangers for all pipes and avoid any direct contact of dissimilar metals. Space hangers to prevent sagging or loading joists.

3.9. Hangers shall only be suspended from structural bearings such as steel beams or top chord of joists. Where such bearings do not exist, use necessary bridging steel.

3.10 Provide supports for equipment installed in this contract, including hanger rods and spring vibration isolators.

3.11 Verify exact location and elevation of all existing services prior to commencing any work.

3.12 Do all necessary required cutting and patching as may be required to perform the works of this contract. Cuttings shall be kept to a minimum, and shall be performed with clean cut straight edges. Patching shall be neat and clean and restore to original finish conditions using similar types to materials. Use only trades personnel skilled in the various types of work required (i.e. masons, roofers, etc.).

3.13 Upon completion, remove all wastes, material, etc. and leave site in clean condition.

3.14 **System Flushing & Cleaning**

3.14.1 Flush and clean fluid-carrying systems after completion with clear water at highest obtainable pressure and velocity. Discharge flushing water thorough strainers and out through system drains with hose end. Clean strainers. Repeat flushing operation to satisfaction of consultant until no foreign matter collects in strainers. Drain and clean tanks and inspect tubing and passageways in major equipment and clean as necessary.

3.14.2 Ensure that valves including control valves are fully open during flushing.

3.14.3 Prior to starting fans and air handling equipment inspect and clean the outside and inside of the air handling systems including fans, ducts, coils, and terminal units to ensure that they are completely free from dust and debris. Install clean filters in systems requiring filters.

3.14.4 Clean polished, painted and plated work. Clean all fixtures. Remove debris, surplus material and all tools from site.

3.15 Install ceiling grilles in locations as per drawings and connect to existing ductwork.

END OF SECTION 15400

ELECTRICAL

1. **WIRING**

- Use materials and methods approved by the Ontario Electrical Code for use in non-combustible construction.
- All building wire to be copper type RW90-XLPE.
- Use minimum of #12 AWG for branch circuit wiring.
- Use armoured cable type AC90 (BX) in concealed wall and ceiling cavities.
- Provide wiring and connections for all new lighting, exhaust fans, hand dryers, and automatic controls for plumbing fixtures as per Division 15. Circuit accordingly and tie into existing electrical panel/feeds.

2. **PERMITS**

- Submit to ESA necessary drawings/specifications for examination prior to start of work and pay associated fees.

3. **SHOP DRAWINGS**

- Provide 6 copies of data sheets for all products for review prior to ordering.

4. **SYSTEMS DEMONSTRATION**

- Provide demonstration of each system to owner after final inspection.
- Instruct personnel in operation adjustment and maintenance of equipment systems.

5. **MANUALS & AS-BUILT DRAWINGS**

- Provide 2 copies of warranties, certificates of ESA inspection, fire alarm verification report, and all product information along with 2 copies of as-built drawings marked up in red. See drawings for fixture types.

6. **OTHER**

- Wall sensor switch to be Eaton VNW-D – 1001 – MV –W or equal
- Provide 120V power to power operator/electric strike for universal washroom doors and future lift device in box in ceiling space – confirm requirements and co-ordinate with owner's subtrade.

- Acoustic tile light fixture type A to be 1 x 4 recessed LED troffer 3257 lumens (29.8 W) with standard shielding 12 OVDC, 5W, MR16 LED. Connect to existing wiring.
- Potlight type B to be 6" round LED downlight, 670 lumens, 90 CH, 40 K, 120V, 13W, white.
- Potlight type C as per Type B but vapour proof.
- Emergency lighting to be dual head complete with battery 12E SL by Emerglite or equal wall mounted.
- Hand dryer to be XLERATOR XL-W-FLO or equal and provide power to suit.
- Fire alarm/strobe to be FS-400-RR by Mircom or equal, colour white, and confirm compatible with the existing fire alarm system.

HARDWARE LIST

Door #1 – Existing Corridor to New Universal Washroom & Door #2 from Health Room to New Univ. W/C

1	Lever Storeroom Lockset	28 X 10G04 X LL X 626
3	Hinges	FBB168 114 X 101 C15
1	Electric Strike Fail Safe	1006 X FS X CLB X 630
1	Power Operator	SW 200i X SINGLE HSG X628 plus SW200 i add for inswing arm Operator to be installed by a factory trained installer. All wiring to be run by the electrical subtrade.
1	Occupied & Emergency Kit Recess	#OCC – 1 – EMR – R KIT To be installed to control the privacy of the occupant, in conjunction with the auto door operator as well as provide emergency response capabilities, including alarms inside and outside of washroom.

Kit includes:

2	Ea Button CM45/4 X 630 (Recessed Boxes By Others)	1 Ea Push to Lock Button CM45/8 X 630 (Recessed by Others) with wave control feature.
1	Ea occupied sign 4 ¾" x 9" White Surface Mount	1 Ea Door Contact CX-MDC
1	Ea Controller CX-33	1 Ea Push for Emergency Button CM-450/R12 (Recessed by Others)
2	Ea Assistance Requested CM-AF501SO (Recessed Boxes by Others)	1 Ea Transformer 24Vac
1	Ea Power Controller CX-PS13 V3	1 Ea Sign CM-SE21A
1	Floor Stop	243 F

Interconnect locking mechanism to both doors when button is pushed.

APPENDIX

NEW UNIVERSAL WASHROOM FOR
ST. JOSEPH CATHOLIC ELEMENTARY SCHOOL
COBOURG

February 2025

ROOM FINISH SCHEDULE

Page 1 of 1

		WALLS					FLOOR & BASE			CEILING		
		North	East	South	West	Comments	Floor	Base	Comments	Type	Fin.	Comments
Rm. No.	Room Name	NEW U.O.N.					NEW U.O.N.			NEW U.O.N. Height in mm		
143	EX CORR	-----	PT EX CB	-----	-----	SEE PLAN FOR EXTENT	EX	NEW VT	TO SUIT NEW OPENING	EX AT	-----	HEIGHT 2387
108	NEW UNIV W/C	EX + NEW CB/CT	NEW CB/CT	NEW CB/CT	EX + NEW CB/ CT	CEMENT BOARD AS CALLED FOR	CT	-----	----------	AT	-----	HEIGHT 2691
109	NEW HEALTH ROOM	EX CB/PT	EX CB/PT	EX CB/CT	NEW CB/PT	----------	VT	V	V BASE CAB KICK	AT	-----	HEIGHT 2691

A	ARC	ADJ	Adjustable
AB	Air Barrier	AL, ALUM	Aluminum
ABV	Above	ARCH	Architectural
A.C.	Air Condition	A.T.	Acoustic Tile
BL, BLK.	Block	BR ANOD	Bronze Anodized
BLDG	Building	B/S	Both Sides
BLKHD.	Bulkhead	BTM, B/	Bottom Of
BLW	Below	B.U.R.	Built-Up Roof
BM.	Beam, Beams		
CAB.	Cabinet	COL	Column
CABS	Cabinets	CONC.	Concrete
CAR	Carpet	CONT.	Continuous
C.B.	Catch Basin	CRS	Course
CB	Concrete Block	CS	Concrete Slab
CCS	Clear Concrete Sealer	CT	Ceramic Tile
CLF	Chain Link Fence	CTNG	Coating
CLG	Ceiling	CTOP	Counter Top
CLOS	Closet	C/W	Complete With
CNR	Corner		
D.C.	Display Case	DN	Down
DIA	Diameter	DR	Door
D/G	Double Glazed	DW	Drywall
E	East	EQ	Equal
EL	Elevation	E/S	Each Side
ELEC,ELEC'L	Electrical	EX., EXIST	Existing
ELEV	Elevator	EXT.	Exterior
ENCL	Enclosed	EPXY	Epoxy

F	Female	FIN	Finish
FD	Floor Drain	FL	Floor
FND	Foundation	FLS	Flood Lights
F.E.	Fire Extinguisher	F.P.	Fire Protection
FFL	Finish Floor Level	FR.	Frame
F/G	Fixed Glazing	F.R.	Fire Rated; Fire Rating
F.H.	Fire Hydrant	FTG.	Footing
GALV.	Galvanized	GR	Grade
GL	Glazing	GWG	Georgian Wired Glass
H.C.	Handicap	HORIZ	Horizontal
HD	Head	H.P.	Hydro Pole
HDWRE	Hardware	HR	Hour
H.M.	Hollow Metal	HT, HGT.	Height
H.O.	Hold Open	HTR.	Heater
ID	Inside Diameter	INSUL	Insulation
INC/	Including	INT.	Interior
IND	Indicates	I/S	Inside
INFO	Information		
J	Joist		
LBL	Label		
LOC	Location		
LWR	Lower		

M	Male	MIR	Mirror
MANF	Manufacture	M.L.B.	Micro-Lam-Beam
MAT.	Material	MT	Minute
MAX	Maximum	MTD	Mounted
MECH,MECH'L	Mechanical	MTL	Metal
M.H.	Manhole	M.U.A.	Make-Up-Air Mechanical Unit
MIN	Minimum		
N.	North	N.I.C.	Not In Contract
OA	Overall	OH	Overhead
O.B.C.	Ontario Building Code	OPNG	Opening
O/H	Overhang	O.S.	Over Size
PART'N	Partition	POL.	Polyethylene
P.C.	Pre-Cast	PR	Pair Prefinished
PL	Plate	PREFORM	Preformed
P.LAM	Plastic Laminate	P.T.	Pressure Treated
PLY, PLYWD	Plywood	PT	Paint
R	Radius	REF.	Reference
R.D.	Roof Drain	REV	Reversed
REF	Refrigerator	R.S.O.	Rough Stud Opening
REQ'D	Required	R & S	Rod and Shelf
RES	Resistance	R.W.L.	Rain Water Leader

S	South	S.P.	Splash Pad
S.A.B.	Sound Attenuation Blanket	S.P.M.	Single Ply Membrane
SAN.	Sanitary	S.S.	Stop Sink
SC	Solid Core	ST	Stain
SCR	Screen	STD	Standard
SEP	Separation	STL	Steel
S/G	Single Glazing	STR	Stringers
SHLVS	Shelves	STRUCT`L	Structural
SHTG	Sheating	ST.S	Storm Sewer
S.O.G.	Slab On Grade		

T/	Top Of	T.T.	Terrazo Tile
T.B.	Thermal Broken	T. & WD	Towel & Waste Disposal
T. & B.	Top And Bottom		
TEX	Textured	TYP	Typical
T. & G.	Tongue & Groove		

U/C	Under Counter	UPR	Upper
U.O.N.	Unless Otherwise Noted	U/S	Underside

V.	Vinyl	VERT	Vertical
VAL	Valance	V.T.	Vinyl Tile
VAN	Vanity	V.W.C.	Vinyl Wallcovering
V.B.	Vapour Barrier		

W/	With	WIN	Window
W.C.	Water Closet	W.F.	Wood Fibre
WD	Wood	W.V.	Water Valve