

- 1** General
- 1.1 SECTION INCLUDES**
  - .1 Design, labour, Products, equipment and services necessary for gypsum board work.
- 1.2 REFERENCES**
  - .1 ASTM A653/A653M, Specification for Steel Sheet, Zinc-coated (Galvanized) or Zincron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
  - .2 ASTM C475, Specification for Joint Compound and Joint Tape for Finishing Gypsum Board.
  - .3 ASTM C645, Specification for Nonstructural Steel Framing Members.
  - .4 ASTM C665, Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing.
  - .5 ASTM C754, Specification for Steel Framing Members to Receive Screw-Attached Gypsum Board.
  - .6 ASTM C834, Standard Specification for Latex Sealants.
  - .7 ASTM C840, Specification for Application and Finishing of Gypsum Board.
  - .8 ASTM C1002, Specification for Steel Self-Piercing Tapping Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs.
  - .9 ASTM C1178, Specification for Glass Mat Water-Resistant Gypsum Backing Board.
  - .10 ASTM C1278, Specification for Fiber-Reinforced Gypsum Panel.
  - .11 ASTM C1396, Specification for Gypsum Board.
  - .12 ASTM E84, Standard Test Method for Surface Burning Characteristics of Building Materials.
- 1.3 DESIGN REQUIREMENTS**
  - .1 Design ceiling suspension system in accordance with manufacturer's printed directions and ASTM C754.
  - .2 Design ceiling system for adequate support of electrical fixtures as required by the current bulletin of the Electrical Safety Authority.
  - .3 Design hanger anchor and entire suspension system static loading not to exceed 25% of their ultimate capacity including lighting fixture dead loads.
  - .4 Design suspension system to support weight of mechanical and electrical items such as air handling boots and lighting fixtures, and with adequate support to allow rotation/relocation of light fixtures.
  - .5 Design subframing as necessary to accommodate, and to circumvent, conflicts and interferences where ducts or other equipment prevent the regular spacing of hangers.
  - .6 Design wall framing system and reinforce as necessary to accommodate and support items attached to and supported by wall framing system.
  - .7 Design wall framing system for wall assemblies with a height greater than 3000 mm and those assemblies incorporating non-standard gypsum board assemblies



including, but not limited to, abuse resistant gypsum board, large format tile applications, etc.

**1.4 REGULATORY REQUIREMENTS**

- .1 Provide fire separations and fire protection exactly as specified in test design specification that validates the specified rating. Verify that work specified in other Sections, as a part of the entire assembly, meets applicable validating test design specification.

**1.5 SUBMITTALS**

- .1 Product data:
  - .1 Submit copies of manufacturer's Product data in accordance with Section 01 10 10 indicating:
    - .1 Performance criteria, compliance with appropriate reference standard, characteristics, and limitations.
    - .2 Product transportation, storage, handling and installation requirements.
- .2 Shop Drawings:
  - .1 Submit Shop Drawings in accordance with Section 01 10 10 indicating:
    - .1 Wall assemblies, suspension systems, adjacent construction, elevations, sections and details, dimensions, thickness, finishes and relationship to adjacent construction.
    - .2 Framing and blocking for items being supported of wall systems.
- .3 Certifications: Submit written certification stating that suspended ceiling system is designed for adequate support of electrical fixtures as required by the current bulletin of the Electrical Safety Authority.

**1.6 QUALITY ASSURANCE**

- .1 Qualifications: Execute the work of this Section by skilled, qualified, and experienced workers trained in the installation of the work of this Section.
- .2 Retain a Professional Engineer, licensed in Province of Ontario, with experience in work of comparable complexity and scope, to perform following services as part of work of this Section:
  - .1 Design of wall systems with height greater than 3000 mm and at nonstandard gypsum board assemblies including, but not limited to, assemblies incorporating abuse resistant gypsum board, large format tile applications, etc.
  - .2 Design of suspended gypsum board assemblies.
  - .3 Review, stamp, and sign Shop Drawings and design calculations.
  - .4 Conduct shop and on-site inspections, prepare and submit written inspection reports verifying that this part of Work is in accordance with Contract Documents and reviewed Shop Drawings.

**1.7 SITE CONDITIONS**

- .1 Do not begin work of this Section until:



- .1 Mechanical and electrical work above the ceiling is complete.
- .2 Substrate and ambient temperature is above 15 degrees Celsius.
- .3 Relative humidity is below 80%.
- .4 Ventilation is adequate to remove excess moisture.
- .2 Install temporary protection and facilities to maintain Product manufacturer's, and above specification, environmental requirements 24 h before, during, and 24 h after installation.

**2** Products

**2.1 MATERIALS**

- .1 General:
  - .1 All materials under work of this Section, including but not limited to, sealants, adhesives, and primers are to have low VOC content limits.
- .2 Steel framing: ASTM C754; ASTM A653/A653-M, Z275; cold rolled, galvanized steel sheet.
  - .1 Bailey Metal Products Limited
  - .2 Corus Metal Profiles
- .3 Steel studs and track runners: ASTM C645; Galvanized steel studs and runners, 32 mm wide x depth as indicated on Contract Drawings. Formed from galvanized steel sheet, thicknesses as follows:
  - .1 Studs less than 3000 mm: Minimum 0.53 mm (25 ga.).
  - .2 Studs greater than 3000 mm and non-standard assemblies: Minimum 0.91 mm (20 ga.), unless stud thickness of greater thickness is required to accommodate intended loading, spans, or conditions.
  - .3 Track runners and ancillary components to match stud thickness.
- .4 Main carrying channels: ASTM C645; Formed from galvanized steel sheet, 38 x 19 mm cold rolled, channels.
- .5 Resilient channel: ASTM C645; 0.5 mm thick galvanized metal, 57 mm wide x 12 mm deep for walls and ceiling to reduce sound transmission.
- .6 Furring channels: ASTM C645; Formed from galvanized steel sheet, 22 mm winged flange type, cold rolled.
- .7 Furring channels (hat type): ASTM C645; 0.5 mm base steel thickness, galvanized. 70 mm wide x 22 mm deep hat shaped channel.
- .8 Heavy duty furring channels: ASTM C645; 0.9 mm steel thickness, galvanized hat shaped channel with a wider and deeper size as required by manufacturers.
- .9 Hanger wires: 4.1 mm minimum diameter galvanized pencil rod.
- .10 Tie wire: 1.6 mm thick minimum diameter, soft annealed, galvanized steel wire.



- .11 Corner bead, casing bead, and special shapes: Formed from 0.6 mm thick minimum, galvanized steel sheet, designed to be concealed by joint compound.
- .12 Deflection track: ASTM C 645 top runner with 50.8-mm- deep flanges, in thickness indicated for studs and in width to accommodate depth of studs.
- .13 Deflection track (fire rated): Provide 25 mm deep leg deflection track where indicated on rated walls. 'Fire Trak Shadowline' by Fire Trak Corporation or approved alternative.
- .14 Ceiling clips: Hot dip galvanized partition attachment clips, in square and reveal edge; 'PAC 15 Series' to match grid system by CGC Inc. or approved alternative.
- .15 Gaskets (acoustic partitions): Adhesive-backed, closed-cell vinyl foam strips that allow fastener penetration without foam displacement, 3.2 mm thick, in width to suit steel stud size.
- .16 Control joint strip: Roll formed from galvanized steel sheet, with a tape protected recess, 6 mm wide x 11 mm deep.
- .17 Screw fasteners: ASTM C1002 Type S; Corrosion resistant.
- .18 Concrete anchors: tie wire sleeve anchors, 'Redi-Drive Anchors' by ITW Red Head or approved alternative.
- .19 Acoustic/Fire insulation: ASTM C665, Paperless, semi-rigid, spun mineral fibre mats, of thickness as indicated on Contract Drawings, 'Sustainable Insulation, NoiseReducer' by CertainTeed, 'EcoTouch Quiet Zone Pink Fiberglas Acoustic Insulation' by Owens Corning Inc. or 'Roxul AFB' by Roxul Inc.
- .20 Sealants:
  - .1 Acoustic sealant (non-rated): Non-hardening acoustic sealant for use at nonrated assemblies, ASTM C834; Acrylic, mould resistant sealant, paintable. 'Smoke and Acoustic Sealant CP506' by Hilti or approved alternative.
  - .2 Sealant (fire-rated): Non-hardening sealant for use at fire-rated assemblies: ASTM E84; Acrylic based firestop sealant, colour: red or white as selected by Consultant. 'Flexible Firestop Sealant CP606' by Hilti or approved alternative.
  - .3 Standard sealants: In accordance with Section 07 91 00.
- .21 Moisture / Abuse resistant board (GB-1): 15.9MM thick of maximum practical lengths to minimize end joists, unless indicated otherwise; moisture and abuse resistant board "Fiberock Aquatough Interior Panel" by CGC Inc. or 'DensArmor Plus' by Georgia-Pacific Canada LP.
- .22 Tile Backer (GB-2): Water resistant tile backer board meeting ASTM C1178 or ASTM C1278, 15.9MM thick. "Diamondback Tile Backer" by CertainTeed Gypsum Canada, Fiberock Aqua-Tough Underlayment' by CGC Inc. or "Dens Shield" By Georgia-Pacific Canada LP.
- .23 Primer: Where indicated by board manufacturer, provide primer as required to achieve finishes as defined in ASTM C840.
- .24 Joint reinforcing tape:
  - .1 Standard gypsum board: ASTM C475; 50 mm wide x 0.25 mm thick, perforated paper, with chamfered edges.



- .2 Moisture resistant and tile backer boards: ASTM C475; fibreglass mat joint tape as recommended by board manufacturer to suit location.
- .25 Bonding adhesive: Type for purpose intended and as recommended and approved by manufacturer.
- .26 Joint and patching compound: ASTM C475; Asbestos-free, supplied by manufacturer of gypsum board used.
- .27 Fast setting patching compound: ASTM C475; Asbestos-free, Sheetrock or Durabond by CGC Inc., 'Moisture and Mold Resistant Setting Compound with M2Tech' by Certaineed Gypsum Canada or approved alternative.
- .28 Access doors: Supplied by other Sections for installation as part of the work of this Section

**3 Execution**

**3.1 EXAMINATION**

- .1 Verify condition and dimensions of previously installed Work upon which this Section depends. Report defects to Consultant. Commencement of work of this Section means acceptance of existing conditions.

**3.2 SUSPENSION FRAMING**

- .1 Install ceiling systems in accordance with reviewed Shop Drawings and manufacturer's written instructions.
- .2 Install hanger wires plumb and securely anchored to the building structural framing, independent of walls, pipes, ducts, and metal deck; install additional framing and hangers to bridge interference items.
- .3 Install hanger wires at 1200 mm maximum centres along carrying channels, not less than 25 mm, and not more than 150 mm from channel ends.
- .4 Install additional hangers at lighting fixture and ductwork locations. Do not attach hanger wires to mechanical or electrical equipment. Do not support mechanical and electrical fixtures and fitting on ceiling without the ceiling manufacturer's written acceptance.
- .5 Install main carrying channels transverse to structural framing members. Lap main carrying channels 200 mm minimum at splices and wire each end with two loops and prevent clustering or lining-up of splices.
- .6 Install furring channels at 400 mm o.c., not less than 25 mm, and not more than 150 mm from perimeter walls, at openings, at interruptions in ceiling continuity, and at change in plane. Install furring channels to a tolerance of 3 mm maximum in 3600 mm.
- .7 Install additional main carrying and furring channels to frame and to reinforce openings such as recessed lighting fixtures, access hatches, ceiling grilles, outlet boxes, ventilating outlets and similar items.

**3.3 STEEL STUDS AND FURRING**



- .1 Install steel studs and furring in accordance with reviewed Shop Drawings and manufacturer's written instructions.
- .2 Install steel stud partitions to underside of structure unless indicated otherwise.
- .3 Install track runners at floors, ceilings, and underside of structure; align track runners accurately and secure to structure at 600 mm centres maximum.
- .4 Install double top track runner assembly to prevent the transmission of structural loads to steel studs.
- .5 Install steel studs vertically at 400 mm o.c., unless otherwise indicated, and not more than 50 mm from abutting walls, at openings, and at each side of corners. Install studs securely to track runners.
- .6 Schedule and coordinate steel framing installation with mechanical and electrical services installation.
- .7 Install full height, double studs at door and service openings, fastened together and stiffened back to the structure to prevent vibration when doors close.
- .8 Provide double studs boxed together at all openings, sill, head and jambs and at door jambs, fastened together and stiffened back to the structure to prevent vibration. At each opening exceeding 900 mm in width, double studs shall be 20 ga. extending to structure above, and adequately anchored at each end. Provide steel studs above and below openings spaced at 400 mm oc maximum. All metal stud partitions above doors and screens over 1220 mm wide shall be secured to structure over and reinforced with sway bracing to stabilize walls to prevent lateral movement.
- .9 Erect three studs at corner and intermediate intersections of partitions. Space 50 mm apart and brace together with wired 19 mm channels.
- .10 Stiffen partitions over 2440 mm high or 3000 mm long, or both, with horizontal bracing extended for full length of partitions. Provide one line of bracing in partitions. Space lines to provide equal unbraced panels. Provide bracing for portions of partitions over door openings in partitions over 3000 mm high, and bracing both above and below openings in partitions located no greater than 150 mm from top and bottom of opening, and extending two stud spaces beyond each edge of opening for both doors and windows. Wire tie or weld bracing to studs.
- .11 Frame control joints using back to back double studs at abutting structural elements, at dissimilar backup interface, at dissimilar walls and ceilings, at structural expansion and control joints, at door and other openings, and at 9000 mm maximum spacing in continuous runs. Install control joint strips and secure in place.
- .12 Install additional support framing at openings and cutouts for built-in equipment, upper cabinet support, access panels and similar items.
- .13 Attach to framing adequate steel reinforcing members or a 1.2 mm (18 ga.) steel stud mounted horizontally and notched around furring members to support the load of, and to withstand the withdrawal and shear forces imposed by, items installed upon the work of this Section. Such items include, but are not restricted to, miscellaneous metals, coat hooks, washroom accessories, handrail anchors, rub rails, grab bars, guards, wall-hung cabinets and fitments, shelving, curtain and drape tracks, miscellaneous specialties; Owner supplied equipment; and minor mechanical and



electrical work. Heavy mechanical and electrical equipment shall be selfsupporting in Divisions 21, 22, 23 and 26.

- .14 Provide for support and incorporation of flush-mounted and recessed mechanical and electrical equipment and fixtures only after consultation and verification of methods with those performing the work of Divisions 21, 22, 23 and 26.
- .15 Install cross bracing in accordance with the steel stud manufacturer's recommendations.

### 3.4 **FIRE RATED ASSEMBLIES**

- .1 Install Products in fire rated assemblies in strict accordance with applicable ULC tested and approved designs.
- .2 Stiffen fire rated walls over 3.66 m high, where linear length of wall is greater than 2.44 m between perpendicular wall supports, with diagonal bracing above the ceiling extending perpendicular to wall at a 45E angle to structure above. Locate diagonal bracing at maximum 2.44 m o.c.
- .3 Where double layers of gypsum board are shown, and required for fire rating, screw first layer to studs and furring and laminate the second layer to the first using joint filler as an adhesive. Stagger joints between first and second layers.

### 3.5 **ACOUSTICAL INSULATION**

- .1 Install acoustic insulation in partitions, between steel studs, and as indicated on Contract Drawings and in accordance with the manufacturer's instructions. Fill stud cavities to full height of partitions and carefully cut and fit acoustic insulation around services and protrusions.

### 3.6 **ACOUSTICAL SEALANT**

- .1 Install acoustical sealant to acoustically insulated partitions in accordance with the manufacturer's instructions and Contract Drawings.
- .2 Install acoustical sealant under floor runner track, at partition perimeter both sides and at openings, cut-outs, and penetrations, concealed from view in the final installation.
- .3 Install firestop fill material behind fire rated acoustical sealant and provide firestop identification tag.
- .4 Smooth acoustical sealant with trowel prior to skin forming.

### 3.7 **BUILT-IN CORNER GUARDS**

- .1 Install built-in corner guards in accordance with manufacturer's written instructions level, secure and rigid.

### 3.8 **GYPSUM BOARD**

- .1 Comply with ASTM C840. Install gypsum board in accordance with reviewed Shop Drawings and manufacturer's written instructions.
- .2 Install gypsum board vertically or horizontally, whichever results in fewer end joints. Locate end joints over supporting members.
- .3 Install gypsum board in lightly butted contact at edges and ends and with 1.6 mm maximum open space between boards; do not force gypsum board into place. Do not install imperfect, damaged or damp boards.



- .4 Install gypsum board butting paired tapered edge joints, and mill-cut or field-cut end joints; do not place tapered edges against cut edges or ends.
- .5 Install vertical joints minimum 300 mm from the jamb lines of openings and stagger vertical joints over different studs on opposite sides of partitions.
- .6 Do not locate joints within 200 mm of corners or openings, except where control joints occur at jamb lines or where openings occur adjacent to corners. Where necessary, place a single vertical joint over the centre of wide openings.
- .7 Cut, drill and patch gypsum board as may be necessary to accommodate the work of other trades.
- .8 Fire Separations:
  - .1 Construct gypsum board assemblies, where located, in accordance with tested assemblies to obtain required or indicated fire rated assemblies. As a minimum fire separations shall consist of metal framing covered on both sides by fire-rated gypsum board.
  - .2 Install assemblies tightly to enclosing constructions to maintain integrity of the separations. Install casing beads at all perimeter edges.

**3.9 CORNER, CASING BEADS AND TRIM**

- .1 Corner reinforcing bead: Install along all external angles, erect plumb, level and with a minimum of joints. Secure with screws at 225 mm o.c. apply filler over flanges flush with nose of the bead and extending at least 75 mm onto surface of board each side of corner. When filler dries, apply a thin coat of topping cement and blend onto adjoining surfaces.
- .2 Casing bead: Install where wallboard butts against a surface having no trim concealing the juncture and where shown on drawings. Erect casing beads plumb or level, with minimum joints, and secure with screws at 300 mm o.c. apply filler over flange flush with bead and extending at least 75 mm onto surface of board. When dry, apply a thin coat of topping cement and blend onto adjoining surfaces.
- .3 Recess channels and trim: Install recess channels and special metal trim where shown. Secure to substrate. Provide casing beads full height on wallboard edges at recess channels and metal trim.

**3.10 JOINT TAPING AND FINISHING**

- .1 Install reinforcing tape and a minimum of 3 coats of joint compound over gypsum board joints, metal trim and accessories, and screw fasteners in accordance with the gypsum board manufacturer's instructions.
- .2 Fill gaps between, and any imperfections in, gypsum boards with joint compound, allow to dry, and sand smooth ready for painting.
- .3 Install finished gypsum board work smooth, seamless, plumb, true, flush, and with square, plumb, and neat corners.
- .4 Finish gypsum board in accordance with ASTM C840 to the following grades:
  - .1 Level 0: No taping, finishing, or accessories required. Use above suspended ceilings and within other concealed spaces, unless the assembly is fire rated,



sound rated, sound or smoke controlled, or unless the space serves as an air plenum.

- .2 Level 1: At joints and interior angles embed tape in joint compound. Leave surface free of excess joint compound. Tool marks and ridges are acceptable. Use above suspended ceilings and within other concealed spaces if the gypsum board assembly is fire rated, sound rated, sound or smoke controlled, or the space serves as an air plenum.
- .3 Level 2: At joints and interior angles embed tape in joint compound with one separate coat of joint compound applied over joints, angles, fastener heads, and accessories. Use for water resistant gypsum board indicated for use as a substrate for ceramic tile.
- .4 Level 3: At joints and interior angles embed tape in joint compound with two separate coats of joint compound applied over all joints, angles, fastener heads, and accessories. Apply joint compound smooth and free of tool marks and ridges. Use where heavy grade wall coverings are the final decoration.
- .5 Level 4: At joints and interior angles embed tape in joint compound with three separate coats of joint compound applied over all joints, angles, fastener heads, and accessories. Apply joint compound smooth and free of tool marks and ridges. Use for all locations except those indicated for other finish levels.
- .6 Level 5: At joints and interior angles embed tape in joint compound with three separate coats of joint compound applied over all joints, angles, fastener heads, and accessories. Apply a thin skim coat of joint compound, or a material manufactured especially for this purpose, to the entire surface. Leave surface smooth and free of tool marks and ridges. Use where semi-gloss or gloss finish coatings are the final decoration.

**3.11 ACCESS DOORS**

- .1 Install access doors, supplied as part of other parts of the work, in accordance with manufacturer's written instructions. Access Doors by SECTION 10 95 00.

**3.12 SITE TOLERANCES**

- .1 Install metal support systems to ensure that, within a tolerance of +3 mm and -1.5 mm for plaster thickness, finish surfaces will be flat within 3 mm under a 3 m straightedge, and with no variation greater than 1.5 mm in any running 300 mm, and that surface planes shall be within 3 mm of dimensioned location.

**3.13 WORK IN EXISTING AREAS**

- .1 In existing areas, where existing gypsum board work has been demolished and/or damaged and repair work is required, provide new gypsum board finish.
- .2 Thoroughly prepare areas to be repaired. Provide neat, clean and straight cuts.
- .3 Finish all repair work as specified for new work.
- .4 In existing areas where existing openings are to be filled in with gypsum board, provide new gypsum board wall and ceiling construction. Ensure new board faces are flush with faces of abutting existing walls and ceilings.

**3.14 REPAIR**



- .1 Make good cut-outs for services and other work, fill in defective joints, holes and other depressions with joint compound.
- .2 Make good defective work, and ensure that surfaces are smooth, evenly textured and within specified tolerances to receive finish treatments.

END OF SECTION



**1** General

**1.1 SECTION INCLUDES**

- .1 Labour, Products, equipment and services necessary for wall base flooring Work in accordance with the Contract Documents.

**1.2 REFERENCES**

- .1 ASTM D2047, Standard Test Method for Static Coefficient of Friction of Polish-Coated Floor Surfaces as Measured by the James Machine.
- .2 ASTM F970, Standard Test Method for Static Load Limit.
- .3 CAN/ULC-S102.2-M, Method of Test for Surface Burning Characteristics of Flooring, Floor Coverings, and Miscellaneous Materials and Assemblies.
- .4 ISO 717-2, Acoustics - Rating of Sound Insulation in Buildings and of Building Elements - Part 2: Impact Sound Insulation.
- .5 ASTM F1861, Standard Specification for Resilient Wall Base, Type TV (vinyl, thermoplastic), Group 2 (solid, layered), Style A&B (Straight, Cove)
- .6 ASTM E84, Standard Test Method for Surface Burning Characteristics of Building Materials, Class A
- .7 ASTM E648 (NFPA 253), Standard Test Method for Critical Radiant Flux, Class 1, >0.45 W/cm<sup>2</sup>
- .8 ASTM E662 (NFPA 258), Standard Test Method for Smoke Density, Passes, <450
- .9 ASTM F137, Standard Test Method for Flexibility of Resilient Flooring Materials protocols, Passes
- .10 ASTM F386, Standard Test Method for Thickness of Resilient Flooring Materials Having Flat Surfaces, Passes
- .11 ASTM F925, Standard Test Method for Resistance to Chemicals of Resilient Flooring, Excellent
- .12 ASTM F1515, Standard Test Method for Measuring Light Stability of Resilient Flooring protocols, Passes

**1.3 SUBMITTALS**

- .1 Product data:
  - .1 Submit copies of manufacturer's Product data in accordance with Section 01 10 10 indicating:
    - .1 Performance criteria, compliance with appropriate reference standard, characteristics, and limitations.



- .2 Product transportation, storage, handling and installation requirements.
  - .2 Shop drawings: Submit shop drawings indicating seam layout and welding procedures in accordance with Section 01 10 10.
  - .3 Samples:
    - .1 Submit samples in accordance with Section 01 10 10:
      - .1 Submit two 500 mm samples of resilient base. Wall base samples must be representative of riser height and toe lengths specified, and shall represent one completed inside corner and one completed outside corner, with seams sealed and finished. Produce wall base samples in specified flooring materials and selected colours.
  - .4 Closeout submittals: Submit maintenance and cleaning data for incorporating into Operations and Maintenance Manuals in accordance with Section 01 10 10.
- 1.4 **QUALITY ASSURANCE**
- .1 Installers qualifications: Perform Work of this Section by a company that has a minimum of five years proven experience in the installation of prefabricated flash cove bases of a similar size and nature and that is approved by manufacturer. Submit to Consultant, installer's current certificate of approval by the material manufacturer as proof of compliance.
- 1.5 **SITE CONDITIONS**
- .1 Maintain air temperature and structural base temperature at flooring installation area above 20 degree Celsius for 48 hr before, during and 48 hr after installation.
  - .2 Store materials for 2 days prior to installation in area of Work to achieve temperature stability.
  - .3 Do not lay flooring in conditions of high humidity or where exposed to cold drafts. In hot weather, protect from direct sunlight.
  - .4 Provide adequate ventilation during installation.
- 1.6 **EXTENDED WARRANTY**
- .1 Manufacturer's warranty:
    - .1 Provide flooring manufacturer's warranty naming Owner as beneficiary, covering excessive wear for a period of 5 years from the date work is certified as Substantially Performed.
- 1.7 **MAINTENANCE**
- .1 Submit extra 5% or to nearest full roll of each colour, pattern and type of flooring material and bases required for maintenance use. Identify each roll. Store where



directed. Submit maintenance material in one piece and of same production run as installed materials.

**2** Products

**2.1 MATERIALS**

- .1 All materials under Work of this Section, including but not limited to, primers and adhesives are to have low VOC content limits.

**2.2 FLOOR BASE**

- .1 Resilient base type (B-1):
  - .1 Acceptable Products/manufacturers:
    - .1 Forbo
    - .2 Johnsonite
    - .3 Roppe 'Pinnacle Rubber Base'.
  - .2 Rubber wall base, 3.2 mm (1/8") thick, 152.4 mm (6") high, with cove profile. Colour: to later selection by Consultant from manufacturer's full range. coved profile, in lengths as long as possible including premoulded end stops and inner and outer corners.
  - .3 Colour to be selected by the Consultant from the full range of standard colours

**3** Execution

**3.1 EXAMINATION**

- .1 Verify condition and dimensions of previously installed Work upon which this Section depends. Report defects to Consultant. Commencement of Work means acceptance of existing conditions.
- .2 Ensure surfaces meet the following minimum requirements and requirements of the flooring manufacturer. If there is a conflict between these requirements and those of the flooring manufacturer, the more stringent shall apply.
  - .1 Internal Relative Humidity Test: Perform internal relative humidity testing in accordance with ASTM F2170. Results shall not exceed 80% RH.
  - .2 Moisture Test: Moisture emissions from concrete subfloors (cured for a minimum of 28 days) must not exceed 3 lbs per 1000sf per 24 hours (1.4 kg H<sub>2</sub>O/24 hr/93 m<sup>2</sup>) for acrylic adhesive and 5lbs for polyurethane adhesive via the Calcium Chloride Test Method (ASTM F1869).
  - .3 The pH level of the subfloor surface shall not be higher than 9.9. If higher, subfloor must be neutralized.



- .3 Ensure that sub-floors have been provided as specified without holes, protrusions, cracks, depressions or other major defects.
- .4 Ensure that control joints have been filled and levelled.
- .5 Defective Work resulting from application to unsatisfactory surfaces will be considered the responsibility of those performing the Work of this Section.

**3.2 PREPARATION**

- .1 Ensure substrate/background meets the requirements of ASTM F1861 for resilient wall base and/or Roppe Technical Data Sheets and Excelsior Technical Data Sheets.
- .2 Substrates/backgrounds must be free of visible water or moisture, dust, sealers, paint, residual adhesives and adhesive removers, solvents, wax, oil, grease, mold, mildew and any other extraneous coating, film, material or foreign matter.
- .3 Acclimate all products to be used during the installation and the installation environment prior to installation according to the manufacturers written instructions.
- .4 Fill cracks, holes, depressions and irregularities in the substrate/background to prevent transferring through to the surface of the resilient wall base.

**3.3 INSTALLATION**

- .1 General: Follow all relevant guidelines detailed in Division 01, as well as wall base and adhesive manufacturer's technical data sheets.
- .2 Resilient Vinyl Wall Base:
  - .1 Install material in accordance with manufacturer's recommendations.
  - .2 Select the appropriate adhesive for the application and job site conditions.
  - .3 Install material according to roll sequence or with like run numbers.
  - .4 Ensure material is rolled appropriately into the adhesive using a hand roller.

**3.4 WALL BASE APPLICATION**

- .1 Install wall base in accordance with manufacturer's written instructions.
- .2 Provide wall base at room perimeter and at built-in fitment locations complete with accessories as required for complete and secure installation.
- .3 Dry-fit wall base; cut and fit material to required lengths. Mitre-cut inside and outside corners.
- .4 Dry-fit and cut cove cap prior to wall base installation.
- .5 Scribe glue line on walls and floor at edge of wall base material.
- .6 Apply adhesive in full spread (100% coverage on 2 surfaces) for full length of wall base material. Apply prefabricated flash cove base to wall surface straight and level.



- .7 Slide base cap behind wall base material.
- .8 Hand roll prefabricated wall base material onto wall and floor surface removing bumps, ripples and fishmouths. Remove excess adhesive.

**3.5 CLEANING AND SEALING**

- .1 Forty-eight hours after installation, clean sheet flooring surfaces with a mild soap solution approved by finish manufacturer. Rinse clean and allow to dry.
- .2 Clean up installation area and vacuum dust or wipe material to remove any dirt, dust or debris.

**3.6 PROTECTION OF FINISHED WORK**

- .1 Protect floors and bases from time of final set of adhesive until accepted by Consultant.
- .2 Protect wall bases from scratches, gouges, scuff marks and other damage from time initial surface protection application until final inspection.
- .3 Prohibit traffic on floor for 48 hours after installation.
- .4 Cover cleaned surfaces with fibre reinforced, clean, non-staining clean, kraft paper. Secure in position with gummed tape to prevent drifting. Remove covering when directed by Consultant.
- .5 Protect newly installed material from damage by other trades. Be sure all construction debris is picked up and vacuumed or removed prior to leaving the area. Limit usage and foot traffic according to the adhesive's requirements. When moving appliances or heavy furniture, protect wall base from scuffing and tearing using temporary floor protection as well.

END OF SECTION



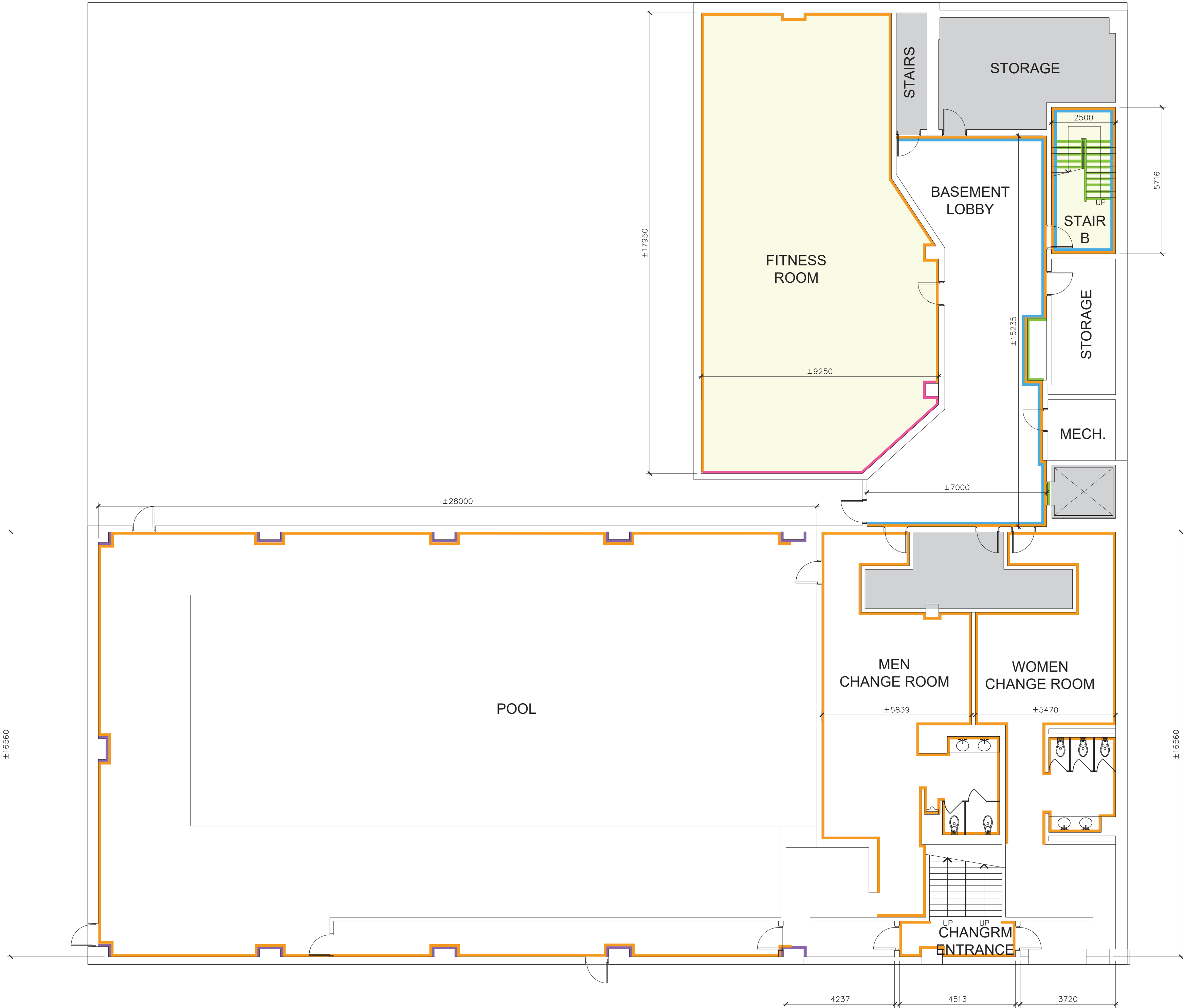
ROOM FINISH SCHEDULE						
ROOM NAME	CEILING HEIGHT (Meters)	WALLS				CEILING
		NORTH	EAST	SOUTH	WEST	
Vestibule	3.1					PT6
Vestibule 1	3.1		PT2	PT1 & PT3		
Lobby	6.5	PT1		PT1	PT1	PT6
Reception	3.1	PT1	PT1		PT1	
Corridor 1	3.1		PT1 & PT3 / PT2	PT2	PT1 & PT3 / PT2	
Corridor 2	3.1			PT1 & PT3	PT2	
Gym	7.6	PT1 & PT3	PT1 & PT3 / PT2	PT1 & PT3	PT1 & PT3	
Library Hallway	3.1	PT1	PT1	PT1	PT1	PT6
Women's Washroom 1	3.1	PT1	PT1	PT1	PT1	PT6
Men's Washroom 1	3.1	PT1	PT1	PT1	PT1	PT6
Universal Washroom	3.1	PT1	PT1	PT1	PT1	PT6
Stair A	9.7	PT1 & PT3	PT1 & PT3	PT1 & PT3	PT1 & PT3	
Kid's Room	3.1	PT1	PT1	PT1	PT2 / PT4	
Corridor 3	3.1	PT1	PT1 & PT3	PT1 & PT3	PT1 & PT3	PT6
Men's Washroom 2	3.1	PT1	PT1	PT1	PT1	PT6
Women's Washroom 2	3.1	PT1	PT1	PT1	PT1	PT6
Activity Room 1	3.1	PT4	PT1	PT1	PT1 / PT2	
Computer Room	3.1	PT1	PT1	PT1	PT1	
Activity Room 2	3.1	PT1 / PT2	PT1	PT1	PT1	PT6
Upper Lobby	3.1		PT1 & PT3 / PT2	PT1	PT1	PT6
Activity Room 3	3.1	PT1	PT1	PT1 / PT2	PT1 / PT2	PT6
Music Room	3.1	PT1	PT1 / PT4	PT1 / PT2	PT1	
Stair B	9.7	PT1 & PT3	PT1 & PT3	PT1 & PT3	PT1 & PT3	PT6
Fitness Room	4.4	PT1	PT1 / PT4	PT4	PT1	PT6
Men's Changingroom	3.1	PT1	PT1	PT1	PT1	
Women's Changingroom	3.1	PT1	PT1	PT1	PT1	
Basement Lobby	3.3	PT1 & PT3	PT1 & PT3 / PT2	PT1 & PT3		
Pool	7.7	PT1 / PT5	PT1 / PT2	PT1 / PT5 / PT2	PT1 / PT5	
Pool Office	3.1	PT1	PT1	PT1	PT1 / PT2	PT6
Shower	3.1					PT6
Changingroom Entrance	2.0	PT1	PT1	PT1	PT1	

ROOM FINISH SCHEDULE GENERAL NOTES (TYPICAL):

1. VERIFY THE CONDITION OF ALL SURFACES PRIOR TO PAINTING.
2. PATCH AND MAKE GOOD ALL EXISTING SURFACES AS REQUIRED TO ACHIEVE A UNIFORM AND CONTINUOUS APPEARANCE.
3. PATCH AND MAKE GOOD ALL EXISTING CEILINGS TO ACHIEVE A UNIFORM AND CONTINUOUS APPEARANCE.
4. ENSURE ALL PAINTED SURFACES ARE FREE OF DUST AND DEBRIS BEFORE PAINTING.
5. MASK AND COVER ALL FIXTURES, SWITCHES, AND OUTLETS BEFORE PAINTING.
6. USE DROP CLOTHS AND PROTECTIVE SHEETING TO COVER FLOORS, FURNITURE, EQUIPMENT AND ETC.
7. PROTECT ALL ADJACENT SURFACES FROM PAINT SPLATTERS AND DRIPS.
8. USE ONLY APPROVED PAINT MATERIALS AND COLORS AS SPECIFIED.
9. PAINT ALL WALL AND FRAME SURFACES.
10. PAINT BOTH SIDES OF ALL DOOR AND WINDOW FRAME SURFACES.
11. PAINT ALL PAINTABLE AND PREVIOUSLY PAINTED DOORS AND FRAMES.
12. PAINT ALL BULKHEADS, HORIZONTAL, AND VERTICAL SURFACES.
13. PAINT ALL PREVIOUSLY PAINTED SURFACES TO MAINTAIN CONSISTENCY AND COVERAGE.
14. ENSURE ALL PAINT LAYERS ARE EVEN AND CONSISTENT IN COLOR.
15. ALLOW SUFFICIENT DRYING TIME BETWEEN COATS AS PER MANUFACTURER'S INSTRUCTIONS.
16. DO NOT PAINT ANY FIRE ALARMS OR LIFE SAFETY DEVICES.
17. DO NOT PAINT ON NATURAL WOOD TEXTURE AREAS.
18. DO NOT PAINT ANY SCREWED-ON DEVICES.
19. DO NOT PAINT ANY WALL TILES UNLESS OTHERWISE NOTED.
20. DO NOT PAINT MILLWORK UNLESS OTHERWISE NOTED.
21. DO NOT PAINT ON OUTLETS AND COVER AD BUTTONS.
22. DO NOT PAINT ON WATER FOUNTAINS.
23. DO NOT PAINT ON WOOD TEXTURE RAILINGS, LIGHTING COVERS, ETC.
24. REMOVE, SALVAGE, STORE, AND REINSTALL ALL SIGNS AFTER PAINTING.
25. REMOVE, SALVAGE, STORE, AND REINSTALL ALL WALL-MOUNTED BULLETIN BOARDS AFTER PAINTING.
26. REMOVE, SALVAGE, STORE, AND REINSTALL ALL WALL-MOUNTED ACCESSORIES IN WASHROOMS AND OTHER ROOMS AFTER PAINTING.
27. REMOVE, SALVAGE, STORE, AND REINSTALL ALL WALL-MOUNTED ITEMS SUCH AS SIGNAGE THAT ARE LESS THAN 12 FT X 12 FT AFTER PAINTING.
28. PROVIDE PROPER VENTILATION IN AREAS BEING PAINTED TO ENSURE SAFETY.
29. ALL PAINTING WORK MUST COMPLY WITH LOCAL BUILDING CODES AND STANDARDS.
30. MAINTAIN A CLEAN AND ORGANIZED WORK AREA THROUGHOUT THE PAINTING PROCESS.
31. CLEAN AND DISPOSE OF ALL PAINTING MATERIALS AND WASTE ACCORDING TO ENVIRONMENTAL REGULATIONS.
32. PROVIDE TOUCH-UP PAINT FOR FUTURE USE BY THE OWNER.
33. DOCUMENT ANY CHANGES OR DEVIATIONS FROM THE ORIGINAL PAINTING PLAN.
34. REMOVE ALL PAINTING EQUIPMENT AND MATERIALS FROM THE SITE UPON COMPLETION.
35. CONDUCT A FINAL INSPECTION WITH THE PROJECT MANAGER TO ENSURE ALL PAINTING WORK MEETS QUALITY STANDARDS AS PER THE SPECIFICATIONS.
36. ENSURE ALL PAINTING WORK IS PERFORMED BY QUALIFIED AND EXPERIENCED PERSONNEL.
37. REMOVE ANY LOOSE OR PEELING PAINT FROM WALLS, FLOORS, CEILINGS, AND STEPS. PATCH AND REPAIR ANY DENTS, CRACKS, OR IMPERFECTIONS IN WALLS. PRIME AND PAINT WALLS, CEILINGS, AND SURFACES.
38. KEEP CORRIDORS AND COMMON AREAS CLEAN. THIS BUILDING WILL REMAIN OCCUPIED AND FULLY OPERATIONAL FOR THE DURATION OF THIS PROJECT.
39. THE CONTRACTOR IS TO INCLUDE THE REMOVAL AND REINSTALLATION OF WALL-MOUNTED ITEMS AS REQUIRED TO COMPLETE THIS FULL SCOPE OF WORK. THE CONTRACTOR MUST CONFIRM REQUIREMENTS DURING SITE VISITS.
40. REMOVE EXISTING ADHESIVE, CAULKING, AND PAINT LINES FROM THE BASE OF EXISTING WALLS FOR INSTALLATION OF NEW OR REINSTALLED RUBBER BASE MATERIALS. SKIN COAT AS REQUIRED.
41. MECHANICAL AND ELECTRICAL DEVICES SUCH AS LIGHTING ARE NOT INDICATED ON THE DRAWINGS. CONTRACTOR SHALL CUT-IN AROUND ALL EXISTING LIGHT FIXTURES IN A MANNER SO THAT PAINT LINES ARE NOT VISIBLE.
42. ALL WORK SHALL BE PERFORMED DURING THE DAY TIME WITH TIME TO ALLOW SURFACES TO DRY PRIOR TO DAILY OCCUPANCY.
43. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND MANAGING THE MOVING OF FURNITURE AND EQUIPMENT, INCLUDING GYM EXERCISE EQUIPMENT, FOLLOWING THE COMPLETION OF PAINTING. THIS INCLUDES SAFELY REMOVING, STORING AND REINSTATING THE EQUIPMENT TO ITS ORIGINAL CONDITION. THE CONTRACTOR MUST ENSURE THAT ALL EQUIPMENT IS PROPERLY RESTORED AND SECURELY REASSEMBLED TO ENSURE THE SAFETY OF USERS. ADDITIONALLY, A THIRD-PARTY SAFETY INSPECTION IS REQUIRED.
44. PAINT ALL EXPOSED STEEL BRACKETS.
45. REMOVE, DISCONNECT, STORE, AND REINSTALL ALL ELECTRICAL DEVICES SUCH AS TV's, POS SYSTEM, COMPUTERS, PHOTOCOPIERS, ETC.
46. CONTRACTOR TO REMOVE EXISTING SEALANTS AND PROVIDE NEW SEALANTS AT ALL MATERIAL JUNCTIONS. ENSURE THAT ALL JUNCTIONS ARE PROPERLY CLEANED AND PREPARED BEFORE APPLYING NEW SEALANTS. VERIFY THAT ALL SEALANT MATERIALS ARE COMPATIBLE WITH ADJACENT SURFACES AND MEET PROJECT REQUIREMENTS, IN ACCORDANCE WITH SECTION 07 91 00.
47. CONTRACTOR SHALL PAINT ALL EXPOSED MECHANICAL DUCTWORK TO MATCH THE ADJACENT SURFACES, UNLESS OTHERWISE NOTED ON THE DRAWING OR ROOM FINISHING SCHEDULE.
48. CONTRACTOR SHALL PAINT ALL PREVIOUSLY PAINTED RADIATORS TO MATCH THE ADJACENT SURFACES, UNLESS OTHERWISE NOTED ON THE DRAWING OR ROOM FINISHING SCHEDULE.
49. DO NOT PAINT OVER FIRE-RATED LABELS ON DOORS AND DOOR FRAMES, REGARDLESS OF WHETHER THEY HAVE BEEN PREVIOUSLY PAINTED.

COLOUR FINISH SCHEDULE

	Colour	Sheen	Location	Sample
PT1	Benjamin Moore CSP-250 "Dulce de Leche"	Eggshell / Semi - gloss	Eggshell: Interior Walls Semi-gloss: Interior Walls Radiators	PT1
PT2	Sherwin Williams SW-7017 "Dorian Gray"	Semi-gloss	Metal Hollow Frames All Doors (Both Sides) Railings Elevator Door Partitions Radiators Stair Risers	PT2
PT3	Benjamin Moore HC-170 "Stonington Gray"	Eggshell / Semi - gloss	Interior Walls	PT3
PT4	Benjamin Moore 2129-40 "Normandy"	Eggshell / Semi - gloss	Interior Walls	PT4
PT5	Sherwin Williams SW - 6213 "Halcyon Green"	Eggshell / Semi - gloss	Interior Walls	PT5
PT6	White	Eggshell / Semi - gloss	Interior Ceilings Metal Deck	PT6



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general notes :

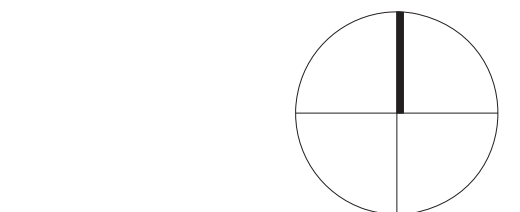
1. These Contract Documents are the property of the Architect. The Architect bears no responsibility for the misinterpretations of these documents by the Contractor. Upon written application the Architect will provide written / graphic clarification or supplemental information regarding the intent of the Contract Documents. The Architect will review Shop Drawings submitted by the Contractor for design conformance only.
2. Drawings are not to be scaled for construction. Contractor to verify all existing conditions and dimensions required to perform the Work and report any discrepancies with the Contract Documents to the Architect before commencing work.
3. Positions of exposed or finished mechanical or electrical devices, fittings, and fixtures are indicated on the Architectural drawings. The locations shown on the Architectural drawings govern over the Mechanical and Electrical drawings. Those items not clearly located will be located as per directed by the Architect.

LEGEND:

- OUTSIDE OF SCOPE
- DOOR: DO NOT PAINT
- PAINT DOOR & FRAMES BOTH SIDES

- PT1 Colour #1
- PT2 Colour #2
- PT3 Colour #3
- PT4 Colour #4
- PT5 Colour #5
- PT6 Colour #6

ISSUED FOR ADDENDUM NO.1  
ISSUED FOR TENDER  
DATE



DENNIS R TIMBRELL  
RESOURCE AND  
COMMUNITY CENTRE  
PAINTING ENHANCEMENT  
Address: 29 ST DENNIS DR, TORONTO ON  
BASEMENT FLOOR  
PLAN / SCHEDULE

project no. : 2419  
scale : 1/100  
date : APRIL 2025

drawing no. :

A2.1



general notes :

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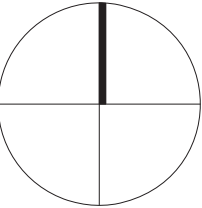
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LEGEND:

- OUTSIDE OF SCOPE
- DOOR: DO NOT PAINT
- PAINT DOOR & FRAMES
- BOTH SIDES

- PT1 Colour #1
- PT2 Colour #2
- PT3 Colour #3
- PT4 Colour #4
- PT5 Colour #5
- PT6 Colour #6

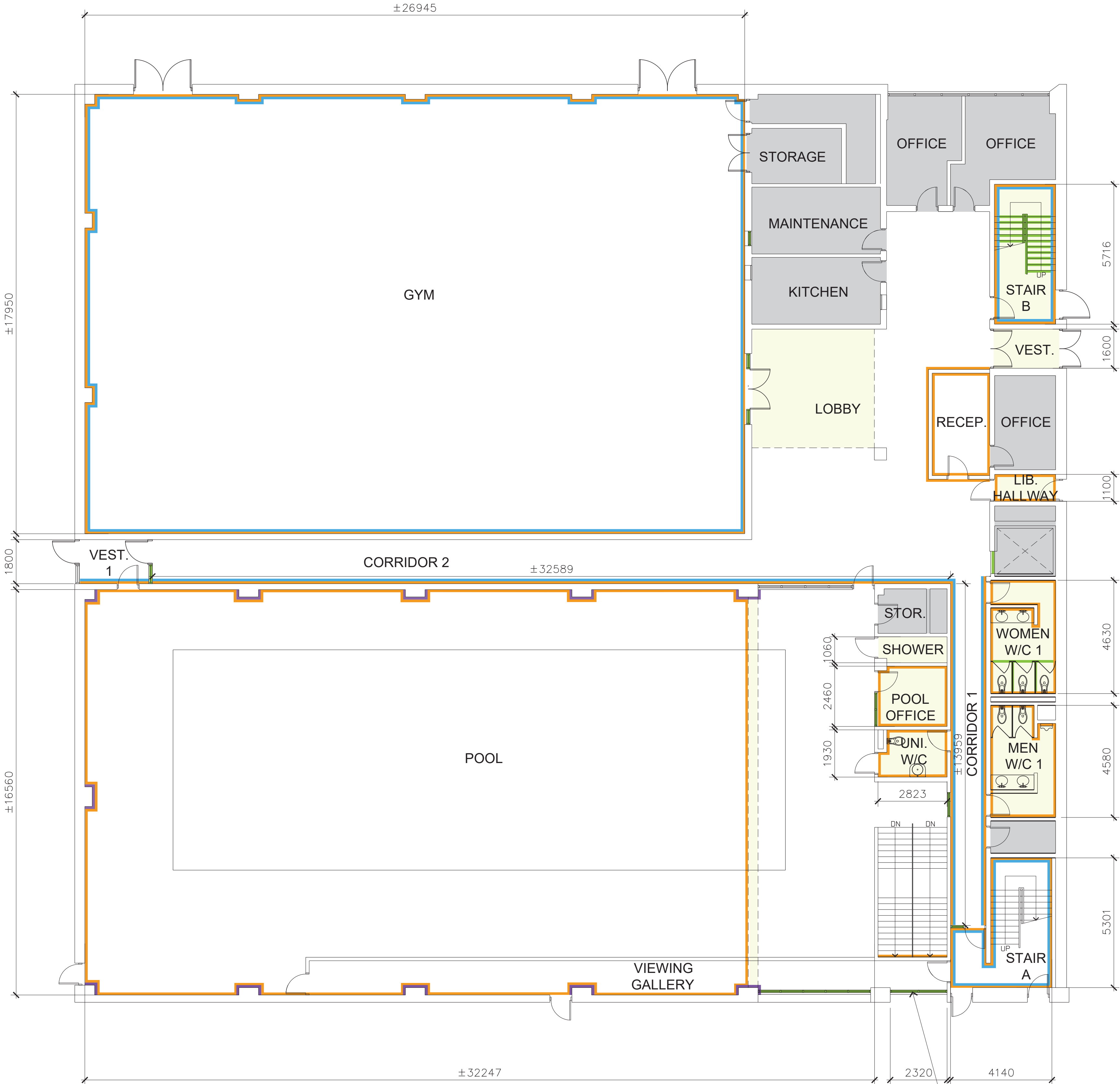
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ISSUED FOR TENDER	27 JANUARY 2025
revision	date



DENNIS R TIMBRELL  
RESOURCE AND  
COMMUNITY CENTRE  
PAINTING ENHANCEMENT  
Address: 29 ST DENNIS DR, TORONTO ON  
GROUND FLOOR PLAN

project no. :	2419
scale :	1/100
date :	APRIL 2025
drawing no. :	

A2.2



DEMOLISH THE EXISTING GYPSUM BOARD ON THE UNDERSIDE OF THE CURTAIN WALL SYSTEM. PROVIDE NEW 2400MM BY 300MM GYPSUM BOARD AND PROVIDE NEW 2400MM LONG 6" BASE BOARD TO MATCH THE COLOUR AND FINISH OF THE ADJACENT WALLS.



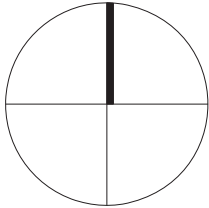
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LEGEND:

- OUTSIDE OF SCOPE
- DOOR: DO NOT PAINT
- PAINT DOOR & FRAMES
- BOTH SIDES

- PT1 Colour #1
- PT2 Colour #2
- PT3 Colour #3
- PT4 Colour #4
- PT5 Colour #5
- PT6 Colour #6

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revision	date



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Address: 29 ST DENNIS DR, TORONTO ON  
SECOND FLOOR PLAN

project no. : 2419  
scale : 1/100  
date : APRIL 2025  
drawing no. :