

ADDENDUM

No. 004 **Date:** 2/29/2024

Project No. 020708.50

Project Name: Waypoint Centre for Mental Healthcare
Toanche Building Third Floor Renovation

Distribution: Refer to the Procore Distribution List

This Addendum forms a part of the Bidding and Contract Documents and modifies the original issued Bidding Documents dated December 18, 2023 for the above titled project, as indicated below, and is hereby incorporated into the Contract Documents as part thereof.

Bidders are required to acknowledge receipt of this Addendum in the space provided on the Proposal/Bid Form.

ATTACHMENTS: The following is a list of the modified documents and a brief description of what has been modified.

SPECIFICATIONS:

A. Incorporate the following new Section(s) attached to this Addendum:

1. 00 41 13 – BID FORM
2. 08 34 54 – PATIENT ANTI-BARRICADE DOOR ASSEMBLY
3. 09 67 23 – RESINOUS FLOORING

B. Incorporate the following revised Section(s) reissued in their entirety as attachment(s) to this Addendum:

1. 00 01 10 – TABLE OF CONTENTS
2. 01 21 00 – ALLOWANCES
3. 08 80 00 - GLAZING
4. 10 26 00 – WALL AND DOOR PROTECTION

C. The following Section(s) are being deleted in their entirety:

1. 09 66 23 – RESINOUS MATRIX TERRAZZO FLOORING
2. 09 77 50 – SANITARY WALL PANEL SYSTEMS

DRAWINGS:

A. D0201 LEVEL 03 - DEMOLITION PLAN & NOTES

1. Drawing has been revised in this Addendum.

B. A0101 LEVEL 03 - FLOOR PLAN, EQUIPMENT SCHEDULE AND GENERAL NOTES

1. Drawing has been revised in this Addendum.

C. A1005 DOOR & FRAME TYPES AND DOOR SCHEDULE

1. Drawing has been revised in this Addendum.

D. A1006 OPENINGS, SCHEDULE & DETAILS

1. Drawing has been revised in this Addendum.

E. A1200 FINISH LEGEND, NOTES & ROOM FINISH SCHEDULE

1. Drawing has been revised in this Addendum.
2. Revised wp-5 spec section to match spec manual – 117313.

F. A1301 LEVEL 04 WALL PROTECTION PLAN

1. Drawing has been revised in this Addendum.
2. Wall protection assembly designations revised from "wp" to "wpa".

ATTACHMENTS:

- A. Pre-Bid RFI Log**
- B. Asbestos Report 2023 Toanche**
- C. Mandatory Site Visit Feb 21 2024 sign in**
- D. Panel Photos:**
 - 1. A3-1**
 - 2. A3-2**
 - 3. B3-1**
 - 4. B3-2**
 - 5. C3 Directory**
 - 6. C3-1**

TABLE OF CONTENTS

00 01 07	Seals Page	
00 01 10	Table of Contents	ADDN 4
00 01 15	List of Drawing Sheets	

DIVISION 00 - PROCUREMENT AND CONTRACTING REQUIREMENTS

00 21 13	Instructions to Bidders	
00 31 26	Existing Hazardous	
00 41 13	Bid Form	ADDN 4
00 73 03	Supplementary Conditions	

DIVISION 01 – GENERAL REQUIREMENTS

01 10 00	Owner General Requirements	
01 11 00	Summary of Work	
01 11 20	Contract Assignment	
01 14 00	Work Restrictions	
01 21 00	Allowances	ADDN 4
01 25 00	Substitution Procedures	
01 26 00	Contract Modification Procedures	
01 29 00	Payment Procedures	
01 31 19	Project Meetings	
01 32 00	Construction Progress Documentation	
01 33 00	Submittal Procedures	
01 35 13.53	Special Project Procedures for Mental Health Facilities	
01 35 23	Health and Safety	
01 40 00	Quality Requirements	
01 51 00	Temporary Utilities	
01 52 00	Construction Facilities	
01 56 00	Temporary Barriers and Enclosures	
01 57 00	Temporary Controls	
01 61 00	Common Product Requirements	
01 71 00	Examination and Preparation	
01 73 00	Execution	
01 73 29	Cutting and Patching	
01 74 00	Cleaning and Waste Management	
01 77 00	Closeout Procedures	
01 78 00	Closeout Submittals	
01 79 00	Demonstration and Training	
01 88 53	Behavioral Health Facilities Performance Requirements	
01 91 00	General Commissioning Requirements	

DIVISION 02 – EXISTING CONDITIONS

02 41 19.16	Selective Interior Demolition	
-------------	-------------------------------	--

DIVISION 03 – CONCRETE

03 54 16	Hydraulic Cement Underlayment	
----------	-------------------------------	--

DIVISION 05 – METALS

05 50 00	Metal Fabrications	
----------	--------------------	--

DIVISION 06 – WOOD, PLASTICS, AND COMPOSITES

06 06 20	Decorative Plastic Laminate	
06 10 53	Miscellaneous Rough Carpentry	

06 40 00 Architectural Woodwork

DIVISION 07 – THERMAL AND MOISTURE PROTECTION

07 84 00 Firestopping
 07 92 00 Joint Sealants

DIVISION 08 – OPENINGS

08 11 00 Metal Doors and Frames
 08 31 13 Access Doors and Frames
 08 31 13.53 Security Access Doors and Frames
08 34 54 Patient Anti-Barricade Door Assembly
 08 51 13 Aluminum Windows
 08 71 00 Door Hardware
 08 80 00 Glazing

ADDN 4

ADDN 4

DIVISION 09 – FINISHES

09 21 16 Gypsum Board Assemblies
 09 22 16 Non-Structural Metal Framing
 09 30 00 Tiling
 09 51 13 Acoustical Panel Ceilings
 09 65 13 Resilient Base and Accessories
 09 65 16 Resilient Sheet Flooring
 09 65 19 Resilient Tile Flooring
 09 66 23 Resinous Matrix Terrazzo Flooring
09 67 23 Resinous Flooring
 09 72 16 Vinyl Coated Fabric Wall Coverings
~~09 77 50 Sanitary Wall Panel Systems~~
 09 81 00 Acoustic Insulation and Sealants
 09 91 23 Interior Painting

ADDN 4

ADDN 4

DIVISION 10 - SPECIALTIES

10 11 00 Visual Display Units
 10 26 00 Wall and Door Protection
 10 28 00 Toilet, Bath, and Laundry Accessories
 10 44 00 Fire Protection Specialties
 10 51 13 Metal Lockers

ADDN 4

DIVISION 11 – EQUIPMENT

11 73 13 Psychiatric Seclusion Room Wall Padding

DIVISION 12 – FURNISHINGS

12 36 61.16 Solid Surface Countertops

DIVISION 20 – COMMON WORK RESULTS

HHA

20 01 01 Mechanical General Requirements
 20 01 02.ON Qualifications and Authorities – Ontario
 20 01 13 Definitions and Abbreviations
 20 05 01 Basic Materials and Methods
 20 05 02 Painting for Mechanical Services
 20 05 12 Common Electrical Requirements for Mechanical Services
 20 05 13 Common Motor Requirements for Mechanical Equipment
 20 05 14.13 Constant Speed Motor Controllers
 20 05 16 Flex Connections, Expansion Joints, Anchors & Guides
 20 05 19 Indicating Gauges

20 05 23	General Requirements for Valves
20 05 24	Welding and Brazing
20 05 29	Common Hanger and Support Requirements for Piping
20 05 48	Vibration Isolation
20 05 49	Seismic Restraint for Mechanical Services
20 05 53	Identification for Mechanical Services
20 05 73.13	Mechanical Services for General Facility Equipment
20 07 11	Common Requirements for Mechanical Insulation
20 07 13	Ductwork Insulation
20 07 16	Equipment Insulation
20 07 19	Piping Insulation
20 77 19.20	Closeout Requirements for Mechanical Work CCDC 2020

DIVISION 22 – PLUMBING

HHA

22 05 01	Common Work Results for Plumbing
22 05 23.13	General Duty Valves for Plumbing Piping
22 11 16.13	Domestic Water Piping – Copper
22 11 19	Domestic Water Piping Specialties
22 13 16.13	Sanitary Waste and Vent Piping – Cast Iron and Copper
22 13 19.13	Sanitary Drains
22 42 00	Plumbing Fixtures
22 45 00	Emergency Plumbing Fixtures

DIVISION 23 – HEATING, VENTILATING, AND AIR CONDITIONING

HHA

23 05 01	HVAC Piping Systems General Requirements
23 05 23.13	General Duty Valves for HVAC Water Piping
23 05 93.13	Testing, Adjusting and Balancing for HVAC
23 05 93.23	TAB Supplement for Healthcare
23 21 13.23	Hydronic Piping – Carbon Steel
23 21 13.33	Hydronic Piping – Copper
23 21 16	Hydronic Piping Specialties
23 31 01	Air Distribution – General
23 31 13.13	Metal Ducts
23 33 05	Duct Accessories
23 33 13.11	Manual Balancing Dampers
23 33 13.13	Control Dampers
23 33 13.16	Fire and Smoke Dampers
23 33 13.23	Backdraft Dampers
23 33 16	Flexible Ducts
23 33 19	Duct Silencers
23 33 63	Louvres
23 34 16	HVAC Fans
23 37 13	Grilles, Registers, and Diffusers
23 41 11	Particulate Air Filters
23 82 23	Fan Coil Units
23 83 16	Radiant Ceiling Panels

DIVISION 25 – INTEGRATED AUTOMATION

HHA

25 05 01	Building Automation Common Work Results
25 05 06	Work on Existing Building Automation Systems
25 05 12	Building Automation Control Panels and Wiring
25 30 13	Building Automation Actuators and Operators
25 30 16.13	Building Automation Instrumentation
25 30 19.13	Building Automation Control Valves

25 30 23.13 Building Automation Control Dampers
25 90 01 Building Automation Control Sequences

DIVISION 27 – COMMUNICATIONS

MBII

27 52 23 Audio Visual Nurse Call System

DIVISION 28 – ELECTRONIC SAFETY AND SECURITY

MBII

28 13 01 Security Systems

END OF TABLE OF CONTENTS

Part 1 General

1.1 **BID INFORMATION**

Date: _____

Submitted by: _____

(name) _____

(address) _____

To: []

Project: []

[]

1.2 **OFFER**

- .1 Having examined the *Place of the Work* and matters referred to in the Instructions to Bidders and the *Contract Documents* prepared by the named (*Consultants*) for the above-mentioned *Project*, we, the undersigned, hereby offer to enter into a contract using CCDC 2-2008 Contract form, to perform the *Work* for the price of:

\$ _____

dollars, in lawful money of Canada.

- .2 We have included herewith the required security Bid Bond and Consent of Surety as required by the Instruction to Bidders.
- .3 Taxes:
- .1 Applicable federal taxes HST are excluded from the Bid Price.
- .4 Cash and Contingency allowances described in Section 01 21 00 – Allowance are included in the Bid Price.

1.3 **ACCEPTANCE**

- .1 Refer to Section 00 21 10 - Instructions to Bidders for conditions of acceptance.
- .2 This offer shall be open to acceptance and is irrevocable for ninety (90) calendar days from the Bid closing date and time.
- .3 If this Bid is accepted by the *Owner* within the time period stated above, they will:
- .1 Execute the 'Agreement' within seven (7) days of receipt of the form of execution.
- .2 Furnish the required bonds within seven (7) days of receipt of the Agreement.

- .3 Commence work within [] days after written notification of acceptance of this bid.
- .4 Complete the Work [in [] calendar weeks from notification of acceptance of this Bid] [by the [] day of [], 20[]].
- .4 If this Bid is accepted within the time stated herein, and we fail to commence the *Work* or we fail to provide the required Bond(s), the security deposit shall be forfeited as damages to the *Owner* by reason of our failure, limited in amount to the lesser of the face value of the deposit or the difference between this Bid and the Bid which the *Contract* is signed.
- .5 In the event our Bid is not accepted within the time stated above, the required security deposit shall be returned to the undersigned, in accordance with the provisions in the Instructions to Bidders, unless a mutually satisfactory arrangement is made for its retention and validity for an extended period of time.

1.4 APPENDICES

- .1 A list of the *Contract Documents* is appended hereto and identified as 'Appendix A'.
- .2 A list of *Sub-contractors* is appended hereto and identified as 'Appendix B'.
- .3 A list of Unit Prices is appended hereto and identified as 'Appendix C'.
- .4 A list of Alternatives is appended hereto and identified as 'Appendix D'.
- .5 A list of Separate Prices is appended hereto and identified as 'Appendix E'.

1.5 ADDENDA

- .1 The following Addenda have been received. The modifications to the *Contract Documents* noted therein have been considered and all costs thereto are included in the Bid Price.
 - .1 Addendum # _____ Dated _____.
 - .2 Addendum # _____ Dated _____.
 - .3 Addendum # _____ Dated _____.
 - .4 Addendum # _____ Dated _____.

1.6 CHANGES

- .1 When the *Consultant* establishes that the method of valuation for Changes in the Work will be net cost, plus a percentage fee in accordance with CCDC 2 - Article GC 12.1 – Indemnification of the General Conditions, our percentage fee will be:
 - .1 Where direct costs are less than or equal to \$5,000.00:
 - .1 our overhead on the net cost of our own work shall be 10% and
 - .2 our profit on the net cost of our own work shall be 5%.
 - .2 Where direct costs are in excess of \$5,000.00:
 - .1 our overhead on the net cost of our own work shall be 5%, and
 - .2 our profit on the net cost of our own work shall be 5%.

1.7 **BID FORM SIGNATURE(S)**

The Corporate Seal of

(Bidder - please print)

was here-unto affixed in the presence of:

(Seal)

Authorized signing officer

Title

Authorized signing officer

Title

If this Bid is a joint venture or partnership, add additional forms of execution for each member of the joint venture on the appropriate form or forms, as above.

Appendix A: The following is the list of ***Contract Documents*** referred to in the Bid Form submitted by:

(Bidder) _____

(Owner) _____

dated _____ to which this Appendix is an integral part of the Bid Form.

The list of *Contract Documents* include the following:

- .1 *Documents and Specifications* cited in the Table of Contents at the beginning of the Project Manual.
- .2 *Drawings* List cited at or near the beginning of the package of drawings.
- .3 Schedules cited in the *Drawing* List.

Appendix B - Sub-Contractors: The following is the list of *Sub-contractors* referred to in the Bid Form submitted by:

(Bidder) _____

(Owner) _____

Dated _____ to which this Appendix is an integral part of the Bid Form.

The following work will be performed (or provided) by *Sub-contractors* and coordinated by us:

PORTION OF THE WORK	SUB-CONTRACTOR'S NAME

Appendix C - Unit Prices: The following is the list of Unit Prices referred to in the Bid Form submitted by:

(Bidder) _____

(Owner) _____

Dated _____ to which this Appendix is an integral part of the Bid Form.

The following are incidental Unit Prices for specific portions of the *Work* as listed and are applicable to authorized variations from the *Contract Documents*.

ITEM OF WORK	QUANTITY UNIT	UNIT VALUE
Moisture Vapor Emission Control according to Section 09 05 61 - Moisture Vapour Emission Control.	Unit of Measurement: Square foot.	

Appendix D - Alternatives: The following is the list of Alternatives referred to in the Bid Form submitted by:

(Bidder) _____

(Owner) _____

Dated _____ to which this Appendix is an integral part of the Bid Form.

Refer to Section 01 29 00 - Payment Procedures:

Alternative # 1 (Add) (Deduct) \$ _____

Alternative # 2 (add) (Deduct) \$ _____

Appendix E - Separate Prices: The following is the list of Separate Prices referred to in the Bid Form submitted by:

(Bidder) _____

(Owner) _____

Dated _____ to which this Appendix is an integral part of the Bid Form.

Separate Price # 1: _____

Separate Price # 2: _____

Part 2 Products – Not Used

Part 3 Execution – Not Used

END OF BID FORM - STIPULATED PRICE DOCUMENT

Part 1 General

1.1 **CASH ALLOWANCES FOR SUPPLY ONLY OF PRODUCTS**

- .1 Amount of each cash allowance includes cost of Products as invoiced by the supplier, including delivery and applicable taxes but excluding Value Added Taxes.
- .2 Amount of each cash allowance does not include costs of the following items, which costs shall be included in the Contract Price and not in the cash allowance:
 - .1 Unloading, handling and storage on the Project site.
 - .2 Installation and other related costs.
 - .3 Overheads and profits related to the cash allowance.

1.2 **CASH ALLOWANCES FOR SUPPLY AND INSTALLATION OF PRODUCTS**

- .1 Amount of each cash allowance includes:
 - .1 Costs to provide the specified Products, including supply, installation, and related costs, excluding Value Added Taxes.
 - .2 Subcontractor's and sub-subcontractor's overheads and profits related to the cash allowance.
- .2 Amount of each cash allowance does not include Contractor's overhead and profit, and other related costs, which shall be included in the Contract Price and not in the cash allowance.
- .3 Allow the stipulated sum of \$250,000.00 for:
 - .1 Integration with existing building systems, including but not limited to, i.e., security code, white fire alarm, BAS.
 - .2 Hazardous materials.
 - .3 Premium time for afterhours work.

1.3 **CASH ALLOWANCES FOR SERVICES**

- .1 Amount of each cash allowance includes:
 - .1 Costs related to the services, excluding Value Added Taxes.
 - .2 Subcontractor's and sub-Subcontractor's overheads and profits related to the cash allowance.
- .2 Amount of each cash allowance does not include Contractor's overhead and profit, and other related costs, which shall be included in the Contract Price and not in the cash allowance.

1.4 **CASH ALLOWANCES FOR ASSIGNABLE CONTRACTS**

- .1 Owner has entered into assignable contracts, which will be assigned to this Contractor as specified in Section 01 11 20 - Contract Assignment.
- .2 Amount of each cash allowance includes the amount payable by Contractor to the designated Subcontractor after assignment of the assignable contract, excluding Value Added Taxes.

- .3 Amount of each allowance does not include the Contractor's overhead and profit, and other related costs, which costs shall be included in the Contract Price and not in the cash allowance.
- .4 Allow the stipulated sum for the assignment of:
 - .1 Hazardous materials at ~~\$5075~~,000 and premium time after hours work ~~\$2050~~,000.
 - .2 Cash Allowance ~~\$50125~~,000 include building integration.

1.1 **EXPENDITURE OF CASH ALLOWANCES**

- .1 Owner, through Consultant, will provide Contractor with documentation required to permit pricing of a cash allowance item.
- .2 Owner, through Consultant, may request Contractor to identify potential Suppliers or Subcontractors, as applicable, and to obtain at least three (3) competitive prices for each cash allowance item.
- .3 Owner, through Consultant, may request the Contractor to disclose originals of bids, quotations, and other price related information received from potential Suppliers or Subcontractors.
- .4 Owner, through Consultant, will determine by whom and for what amount each cash allowance item will be performed. Obtain Owner's prior written approval in the form of a Change Order before entering into a subcontract, amending an existing subcontract, or performing own forces work included in a cash allowance. Upon issuance of the Change Order, the Contractor's responsibilities for a cash allowance item shall be the same as for other Work of the Contract.

Part 2 Products - Not used.

Part 3 Execution - Not used.

END OF SECTION

SECTION 08 34 54 - PATIENT ANTI-BARRICADE DOOR ASSEMBLY

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes
 - 1. Patient anti-barricade doors and frame assembly.
 - 2. Glazing panel.
 - 3. Door hardware.
 - 4. Behavioral Health Considerations: Comply with Section 018853 including sealant, fasteners, and hardware.

1.02 RELATED SECTION

- A. Section 01 2300 - Alternates: Pricing for door alarm preparation.

1.03 SUBMITTALS

- A. Product Data: Submit manufacturer's product literature, fabrication descriptions and installation instructions.
- B. Sustainability Submittals:
 - 1. Product Data for Low-Emitting Material:
 - a. For wet applied products such as, paints, coatings, and primers and similar applications, comply with applicable VOC Regulations.
 - b. For wet applied products, such as adhesives and sealants, comply with applicable VOC regulations.
 - c. For flooring, wall panels, ceilings, insulation, and composite wood, include documentation indicating that product contains no added urea formaldehyde and complies with applicable regulations.
- C. Shop Drawings: Include the following:
 - 1. Elevations of each door type.
 - 2. Details of doors, including vertical- and horizontal-edge details and metal thicknesses.
 - 3. Frame details for each frame type, including dimensioned profiles and metal thicknesses.
 - 4. Locations of reinforcement and preparations for hardware.
 - 5. Details of each different wall opening condition.
 - 6. Details of anchorages, joints, field splices, and connections.
 - 7. Details of accessories.
 - 8. Details of moldings, removable stops, and glazing.
 - 9. Indicate glazing materials, including fire-rated glazing.
- D. Samples:
 - 1. Prepare integrated samples of each type of door and each type of frame specified in this Section, approximately 12 by 24 inches high, to demonstrate compliance with requirements for quality of materials and construction:
 - a. Door and frame assembly: Prepare sample showing hinge and door release assembly; core construction; and other applied hardware reinforcement.
- E. Shop Drawings: Indicate frame configuration, anchor types and spacing, location of cutouts for hardware, reinforcement and finish. Indicate door elevations and internal reinforcement.

1.04 INFORMATIONAL SUBMITTALS

- A. Product Test Reports: For each type of hollow-metal door and frame assembly, for
- B. Tests performed by a qualified testing agency.

1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: A company experienced in producing anti-barricade door assemblies equal to that indicated for this Project and with a record of successful in-service performance, sufficient production capacity to produce required units, structural calculations, applicable independent product test reports, installation instructions, a review of the application method, customer approval and periodic field service representation during construction.
- B. Fabricating/Installing Contractor Qualifications:
 - 1. Certified, licensed, or otherwise approved by manufacturer as experienced and with sufficient trained staff to install manufacturer's products according to specified requirements.
 - 2. Installed specified or similar products on a minimum of 2 projects of similar scale and type within 5 years prior to bid.
 - 3. Superintendent shall have installed specified or similar products on a minimum of 2 projects of similar scale and type within 5 years prior to bid, and have used specified products in a similar scope on projects of similar scale and type within past 24 months.

1.06 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Deliver hollow-metal work palletized, packaged, or crated to provide protection during transit and Project-site storage. Do not use non-vented plastic.
 - 1. Provide additional protection to prevent damage to factory-finished units.
 - 2. Inspect on delivery for damage. Minor damages may be repaired provided refinished items match new work and are acceptable to Architect. Remove and replace damaged items that cannot be repaired as directed.
- B. Deliver welded frames with two removable spreader bars across bottom of frames, tack welded to jambs and mullions.
- C. Store hollow-metal work vertically under cover at Project site with head up. Place on minimum 4-inch- high wood blocking. Provide minimum 1/4-inch space between each stacked door to permit air circulation.

1.08 COORDINATION

- A. Coordinate anchorage installation for hollow-metal frames. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors. Deliver such items to Project site in time for installation.

PART 2 - PRODUCTS

201 PATIENT ANTI-BARRICADE DOOR ASSEMBLIES

- A. Manufacturer:
 - 1. Basis of Design: Kingsway; www.kingswaygroupusa.com.
 - 2. Other Approved Manufacturers:
 - a. Safehinge Primera: Swift Fit & Swift Stop Door & Frame Assembly (no alarm); www.safehingeprimera.com.
 - 3. Substitutions: See Section 01 6000 - Product Requirements.
- B. Type: Solid core, wood veneer door per Section 08 141 and as scheduled in drawings, fitted for ligature resistant mortise lockset, double acting dual barrel, locking hinge with 95-degree opening, with staff key operating hinge locking mechanism.
- C. Series:
 - 1. Basis of Design: PBUS SWITCH Anti Barricade door assembly
 - a. For use at typical patient room doors.

2. SWING SWD03-SWD04 Anti Barricade door assembly
 - a. For use at Individual of Size patient room doors.

D. Performance Characteristics:

1. Life Safety: Complies smoke rating per UL 1784.

202 DOORS

- A. Flush Wood Door: As specified in Section 08 1416 - Flush Wood Doors and this Section.
1. Door thickness: 1-3/4 inch thick.

203 FRAMES

- A. Frame: As specified in Section 08 1113 - Hollow Metal Doors and Frames and this Section.
1. Frame gage: 14 gage.
 2. Frame configuration: Cased frame opening with single rabbet stop of latch side.
- B. Anchors: Per Section 08 1113 - Hollow Metal Doors and Frames and this Section
1. Hinge reinforcement: Provide 7 gage hinge reinforcement full width of frame.

204 VISION PANELS

- A. Vision Panel: Door system manufacturer's Duralux or Pyrolux secure metal-framed factory glazed lite allowing privacy for patient with means for staff to check on patient without entering the room. Refer to Drawings for glazing type.
1. Certification: UL rated to UL1784 for air leakage.
 2. Glazing:
 - a. Duralux:
 - 1) Patient Side: Trident 3/4 inch tempered glass
 - 2) Corridor Side: Trident 3/8 inch tempered glass.
 - 3) Center Panel: Movable 1/8 inch polycarbonate.
 - b. Pyrolux:
 - 1) 2 Layers Trident 3/4 inch tempered glass with 1/10 inch intumescent spacers and liner.
 3. Metal Fascia (Frame): Stainless steel bolted from the outside with security bolts.
 - a. Finish: To be selected by Architect.
 4. Operation: To be determined.
 5. Size: Refer to Drawings.

205 FABRICATION

- A. Fabricate assembly as specified in Section 081113 and this Section.
- B. Anchors
1. Floor Anchors: Weld anchors to bottoms of jambs with at least four spot welds per anchor; however, for slip-on drywall frames, provide anchor clips or countersunk holes at bottoms of jambs.
 2. Jamb Anchors: Provide number and spacing of anchors as follows:
 - a. Stud-Wall Type: Locate anchors not more than 18 inches from top and bottom of
 - 1) frame. Space anchors not more than 32 inches o.c. and as follows:
 - (a) Five anchors per jamb.
- C. Hardware Preparation: Factory prepare hollow-metal work and doors to receive templated mortised hardware; include cutouts, reinforcement, mortising, drilling, and tapping according to SDI A250.6, the Door Hardware Schedule, and templates.
1. Reinforce doors and frames to receive non-templated, mortised, and surface-mounted door hardware.
 2. Comply with applicable requirements in SDI A250.6 and BHMA A156.115 for preparation of hollow-metal work for hardware.

206 STEEL FINISHES

- A. Prime Finish: Clean, pretreat, and apply manufacturer's standard primer.

1. Shop Primer: Manufacturer's standard, fast-curing, lead- and chromate-free primer complying with SDI A250.10; recommended by primer manufacturer for substrate; compatible with substrate and field-applied coatings despite prolonged exposure.
2. Shop primer is in addition to finish painting systems, including primers, specified in Section 09 9123 - Interior Painting and defined on drawings.

207 WOOD FINISHES

- A. Finishes and Veneer: As specified in Section 08 1416 - Flush Wood Doors and this Section.

PART 3 - EXECUTION

301 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Examine roughing-in for embedded and built-in anchors to verify actual locations before frame installation.
- C. Prepare written report, endorsed by Installer, listing conditions detrimental to performance of the Work.
- D. Proceed with installation only after unsatisfactory conditions have been corrected.

302 INSTALLATION

- A. Install hollow-metal work plumb, rigid, properly aligned, and securely fastened in place. Comply with Drawings and manufacturer's written instructions.
- B. Hollow-Metal Frames: Install hollow-metal frames of size and profile indicated. Comply with SDI A250.11 or NAAMM-HMMA 840 as required by standards specified.

303 ADJUSTING AND CLEANING

- A. Final Adjustments: Check and readjust operating hardware items immediately before final inspection. Leave work in complete and proper operating condition. Remove and replace defective work, including hollow-metal work that is warped, bowed, or otherwise unacceptable.
- B. Prime-Coat Touchup: Immediately after erection, sand smooth rusted or damaged areas of prime coat and apply touchup of compatible air-drying, rust-inhibitive primer.
- C. Metallic-Coated Surface Touchup: Clean abraded areas and repair with galvanizing repair paint according to manufacturer's written instructions.

END OF SECTION

Part 1 General

1.1 **SECTION INCLUDES**

- .1 Glass and glazing for sections referencing this Section for Products and installation hollow metal work, windows and glazed doors.

1.2 **ADMINISTRATIVE REQUIREMENTS**

- .1 Pre-Installation Meetings: Convene meeting one (1) week before beginning Work of this section, with Contractor, Subcontractor and Consultant in accordance with Section 01 31 19 - Project Meetings to:
 - .1 Verify Project requirements.
 - .2 Review installation and substrate conditions.
 - .3 Coordination with other Subcontractors.
 - .4 Review manufacturer's written installation instructions and warranty requirements.
- .2 Sequencing: Comply with manufacturer's recommendations for sequencing construction operations.

1.3 **ACTION AND INFORMATIONAL SUBMITTALS**

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
 - .1 Submit manufacturer's instructions, product literature and data sheets for glass, sealants and glazing accessories and include product characteristics, performance criteria, physical size, finish and limitations.
 - .2 Submit Workplace Hazardous Materials Information System (WHMIS) safety data sheets (SDS).
- .3 Shop Drawings: Submit Shop Drawings stamped and signed by professional engineer registered or licensed in province, Canada.
- .4 Samples:
 - .1 Submit for review and acceptance of each type of unit.
 - .2 Samples will not be returned for inclusion into Work.
 - .3 Submit duplicate 300 x 300 mm size samples of glass and sealant material.
 - .4 Submit duplicate manufacturer samples of surface-applied glazing films.
- .5 Certificates: Submit product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.
- .6 Test Reports:
 - .1 Certified test reports showing compliance with specified performance characteristics and physical properties.
 - .2 Submit testing and analysis of glass under provisions of Section 01 40 00 - Quality Requirements.
 - .3 Submit shop inspection and testing for glass.

1.4 CLOSEOUT SUBMITTALS

- .1 Submit in accordance with Section 01 78 00 - Closeout Submittals.
- .2 Operation and Maintenance Data: Submit maintenance data for glazing and incorporate into manual.

1.5 QUALITY ASSURANCE

- .1 Certificates: Product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.
- .2 Products of this Section: Manufactured to ISO 9000 ISO 14000 certification requirements.
- .3 Perform Work in accordance with Insulating Glass Manufacturers Alliance (IGMA) Glass Association of North America (GANA) Glazing Manual GANA Sealant Manual GANA Laminated Glazing Manual for glazing installation methods. Maintain one (1) copy of document on Site.
- .4 Installer Qualifications: Company specializing in performing the Work of this section with minimum three (3) years documented experience and approved by the manufacturer.
- .5 Mock-Ups:
 - .1 Construct mock-ups in accordance with Section 01 40 00 - Quality Requirements.
 - .2 Construct mock-up to include glass glazing.
 - .3 Mock-up will be used:
 - .1 To judge quality of work, substrate preparation and material application.
 - .2 For testing to determine compliance with performance requirements. Perform tests as follows:
 - .4 **Consultant** will require minimum twenty-four (24) hours to review the mock-up.
 - .5 Approved mock-up may remain as part of finished Work.

1.6 DELIVERY, STORAGE AND HANDLING

- .1 Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements.
- .2 Storage and Handling Requirements:
 - .1 Store materials off ground, indoors in a clean dry location and in accordance with manufacturer's recommendations.
 - .2 Store and protect glazing from nicks, scratches and edge damage.
 - .3 Protect prefinished aluminum surfaces with wrapping and strippable coating.
 - .4 Replace defective or damaged materials with new.

1.7 AMBIENT CONDITIONS

- .1 Ambient Requirements:
 - .1 Install glazing when ambient temperature is 10°C minimum. Maintain ventilated environment for twenty-four (24) hours after application.

- .2 Maintain minimum ambient temperature before, during and [twenty-four (24)] hours after installation of glazing compounds.
- .3 Refer to manufacturer's instructions for minimum ambient temperature for application of bird deterrent glazing film.

Part 2 Products

2.1 MANUFACTURERS

- .1 Subject to compliance with requirements, provide products by one of the following or approved substitute:
 - .1 AFG Industries, Inc. www.afgglass.com.
 - .2 Guardian Industries Corp. www.guardian.com.
 - .3 Oldcastle Glass: www.oldcastleglass.com.
 - .4 PPG Industries, Inc. www.ppg.com.
 - .5 Viracon: www.viracon.com.

2.2 MATERIALS – GENERAL

- .1 Design Criteria: Limit glass deflection to flexural limit of glass with full recovery of glazing materials.

2.3 GLASS PRODUCTS, GENERAL

- .1 Thickness:
 - .1 Where glass thickness is indicated, it is a minimum. Provide glass lites in thicknesses as needed to comply with requirements indicated.
 - .2 Minimum Glass Thickness for Exterior Lites: Not less than 6 mm.
- .2 Strength: Where float glass is indicated, provide annealed float glass, Kind HS heat-treated float glass, or Kind FT heat-treated float glass as needed to comply with "Performance Requirements" Article. Where heat-strengthened glass is indicated, provide Kind HS heattreated float glass or Kind FT heat-treated float glass as needed to comply with "Performance Requirements" Article. Where fully tempered glass is indicated, provide Kind FT heat-treated float glass.
- .3 Thermal and Optical Performance Properties: Provide glass with performance properties specified, as indicated in manufacturer's published test data, based on procedures indicated below:
 - .1 For insulating-glass units, properties are based on units of thickness indicated for overall unit and for each lite.
 - .2 Visible Reflectance: Center-of-glazing values, according to NFRC 300.

2.4 GLASS PRODUCTS

- .1 Float Glass: ASTM C 1036, Type I, Quality-Q3, Class I (clear) unless otherwise indicated.
- .2 Heat-Strengthened Float Glass: ASTM C 1048; Type I; Quality-Q3; Class I (clear) unless otherwise indicated, Kind HS.

- .3 Tempered Float Glass:
 - .1 ASTM C1048, Type I, Quality Q3, Class 1 (clear), Kind FT. 1. Glass shall be horizontally heat treated with minimal waviness or distortion at bottom edge of glass and free of tong marks.
 - .2 Maximum peak to valley rollerwave 0.003" in the central area and 0.008" within 10 ½" of the leading and trailing edge.
 - .3 Maximum bow and warp 1/32"/foot.
 - .4 All tempered architectural safety glass shall conform with ANSI Z97.1 and CPSC 16 CFR 1201
- .4 **Fire Rated Glass (IG-3):**
 - .1 **To CAN/ULC S104 and CAN/ULC S106, specialty tempered glass.**
 - .2 **Material: FireLite NT2.**
 - .3 **Thickness: 3/16" thick fire protection and impact safety rated glazing.**
 - .4 **Fire Rating: Range twenty (20) minutes to three (3) hours.**
 - .5 **Impact safety rating to ANSI Z97.1 and CPSC 16CFR 1201 Cat. I and II.**
- .5 **Plastic Glazing (IG-4):**
 - .1 **To CAN/CGSB-12.12, clear, ½" (13 mm) thick.**
 - .2 **Material: Clear, Lexan MR10 polycarbonate sheet.**
 - .3 **Category: 2.**
 - .4 **Coating: Margard II Coating C/W ten (10) year warranty.**
 - .5 **Locations and extent as indicated on the Drawings.**

2.5 LAMINATED-GLASS

- .1 Laminated Glass: ASTM C1172 and complying with other requirements specified.
- .2 Interlayer: Polyvinyl butyral of thickness indicated with no tendency to bubble, discolor, or lose physical and mechanical properties after laminating glass panes and installation.
- .3 Glass Types:
 - .1 Glass Type IG-1 - Laminated Tempered Glass Units:
 - .1 Kind LA, consisting of two (2) panes of heat-strengthened, fully tempered float glass.
 - .2 Outer Pane: Class 1 (clear) fully tempered float glass. Thickness: 6 mm.
 - .3 Interlayer:
 - i. Thickness: 0.06 PVB, or as required to comply as a Type II Safety Glass material.
 - ii. Color: Clear.
 - .4 Inner Pane: Class I (clear) fully tempered float glass. Thickness 6 mm.
 - .2 Glass Type IG-2 - Laminated Tempered Glass Units - Fritted:
 - .1 Kind LA, consisting of two (2) panes of heat-strengthened, fully tempered float glass.

- .2 Outer Pane: Class 1 (clear) fully tempered float glass. Thickness: 6 mm.
- .3 Interlayer:
 - i. Thickness: 0.06 PVB, or as required to comply as a Type II Safety Glass material.
 - ii. Color: Clear.
- .4 Inner Pane: Class I (clear) fully tempered float glass. Thickness 6 mm.
- ~~.3 Glass Type IG-3 Fire-Rated Protective Glazing (FRPG):~~
 - ~~.1 Basis of Design: Subject to compliance with requirements, provide "FireLite Glass" as manufactured by Nippon Electric Glass Company, Ltd.: <http://www.fireglass.com>, or approved alternate by one (1) of the following:~~
 - ~~i. General Glass International.~~
 - ~~ii. SaftiFirst.~~
 - ~~.2 Fire Ratings: As scheduled on the Drawings.~~
 - ~~.3 Glass Thickness: As required for fire rating.~~

2.6 GLAZING SURFACE FILMS

.1 Security Film:

- .1 Film: "Scotchshield Safety and Security Window Film, Ultra Series S800" as manufactured by 3M and available from Convenience Group Inc. <https://www.conveniencegroup.com>.
- .2 Film with pressure-sensitive adhesive and release liner.
- .3 Thickness: 203 µm.
- .4 Length: 30.48 m.
- .5 Width: 1829 mm.
- .6 Finish: Clear.
- .7 Visible Light Transmission: Minimum 89 %.
- .8 Locations as indicated on the Drawings.

~~2.6~~ 2.7 GLAZING COMPOUND FOR FIRE-RATED GLAZING MATERIALS

.1 Glazing Materials - Provide one (1) of the following:

- .1 Glazing Tape: Closed cell polyvinyl chloride (PVC) foam, coiled on release paper over adhesive on two (2) sides, maximum water absorption by volume of 2%. Glass panels that exceed 1,393 inch² for ninety (90) minute ratings must be glazed with fire-rated glazing tape supplied by manufacturer.
- .2 Glazing Compound: DAP 33 putty.
- .3 Silicone Sealant: One (1) part neutral curing silicone, medium modulus sealant, Type S, Grade NS; Class 25 with additional movement capability of 50% in both extension and compression (total 100%); Use (Exposure) NT; Uses (Substrates) G, A, and O as applicable. Available Products:
 - .1 Dow Corning 795 - Dow Corning Corp.

- .2 Silglaze-II 2800 - General Electric Co.
- .3 Spectrem 2 - Tremco Inc.
- .2 Setting Blocks: Neoprene, EPDM, or silicone, tested for compatibility with glazing compound; of 70 to 90 Shore A hardness.
- .3 Cleaners, Primers, and Sealers: Type recommended by manufacturer of glass and gaskets.

2-72.8 ACCESSORIES

- .1 Setting Blocks: Silicone 80-90 Shore A durometer hardness to ASTM D2240, to suit glazing method, glass lite weight and area.
- .2 Spacer Shims: Silicone, 50-60 Shore A durometer hardness to ASTM D2240, 75 mm long x one half (½) height of glazing stop x thickness to suit application. Self-adhesive on one (1) face.
- .3 Glazing Tape:
 - .1 Preformed butyl compound with integral resilient tube spacing device, 10-15 Shore A durometer hardness to ASTM D2240; coiled on release paper, size as required, black colour.
 - .2 Closed cell polyvinyl chloride foam, coiled on release paper over adhesive on two (2) sides, maximum water absorption by volume 2%, designed for compression of 25%, to affect an air and vapour seal, size as required.
- .4 Glazing Splines: Resilient silicone extruded shape to suit glazing channel retaining slot, colour as selected.
- .5 Glazing Clips: Manufacturer's standard type.
- .6 Lock-Strip Gaskets: To ASTM C542.

Part 3 Execution

3.1 EXAMINATION

- .1 Section 01 71 00 - Examination and Preparation: Verify existing conditions before starting *Work*.
- .2 Verification of Conditions:
 - .1 Verify conditions of substrates previously installed are acceptable for beginning glazing installation in accordance with manufacturer's instructions.
 - .2 Verify that openings for glazing are correctly sized and within tolerance.
 - .3 Verify that surfaces of glazing channels or recesses are clean, free of obstructions and ready to receive glazing.
 - .4 Visually inspect substrates.
 - .5 Inform Consultant of unacceptable conditions immediately upon discovery.
 - .6 Proceed with installation only after unacceptable conditions have been remedied and after receipt of written approval to proceed from Consultant.

3.2 PREPARATION

- .1 Clean contact surfaces with solvent and wipe dry.

- .2 Seal porous glazing channels or recesses with substrate compatible primer or sealer.
- .3 Prime surfaces scheduled to receive sealant.
- .4 Preparation - Glazing films:
 - .1 Clean glazing before beginning installation using neutral cleaning solution.
 - .2 Ensure no deleterious material adheres to glazing.
 - .3 Ensure dust, grease and chemical residue are removed from surface of glazing before installation of film.
 - .4 Examine glazing under natural daylight and identify cracks, blisters, bubbles, discolouration, edge defects or other anomalies that may cause film to delaminate or cause vision transparency or distortion problems.

3.3 **INSTALLATION - EXTERIOR DRY METHOD (PREFORMED GLAZING)**

- .1 Manufacturer's Instructions: Comply with manufacturer's written data, including product technical bulletins, product catalogue installation instructions, product carton installation instructions and data sheets.
- .2 Perform work in accordance with GANA Glazing Manual and GANA Laminated Glazing Reference Manual for glazing installation methods.
- .3 Cut glazing **tape** to length; install on glazing lite. Seal corners by butting **tape** and sealing junctions with sealant.
- .4 Place setting blocks at one quarter ($\frac{1}{4}$) points, with edge block maximum **150** mm from corners.
- .5 Rest glazing on setting blocks and push against fixed stop with sufficient pressure to attain full contact.
- .6 Install removable stops without displacing glazing tape. Exert pressure for full continuous contact.
- .7 Trim protruding tape edge.

3.4 **CLEANING**

- .1 Progress Cleaning:
 - .1 Clean in accordance with Section 01 74 00 - Cleaning and Waste Management.
 - .2 Remove traces of primer and sealants.
 - .3 Remove glazing materials from finish surfaces.
 - .4 Remove labels.
 - .5 Clean glass and mirrors using approved non-abrasive cleaner in accordance with manufacturer's instructions.
- .2 Waste Management: Perform in accordance with Section 01 74 00 - Cleaning and Waste Management.

3.5 **PROTECTION**

- .1 Protect installed products and components from damage during construction.
- .2 After installation, mark each lite with an "X" by using removable plastic tape or paste.

- .3 Do not mark heat absorbing or reflective glass units.
- .4 Repair damage to adjacent materials caused by glazing installation.

END OF SECTION

Part 1 ~~General~~

1.1 ~~SECTION INCLUDES:~~

- ~~.1 Thin set, epoxy resin terrazzo flooring.~~

1.2 ~~PREINSTALLATION MEETINGS~~

- ~~.1 Preinstallation Conference: Conduct conference at Project site.~~
 - ~~.1 Review methods and procedures related to terrazzo including, but not limited to, the following:~~
 - ~~.1 Inspect and discuss condition of substrate and other preparatory work performed by other trades.~~
 - ~~.2 Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.~~
 - ~~.3 Review special terrazzo designs and patterns.~~

1.3 ~~ACTION AND INFORMATIONAL SUBMITTALS~~

- ~~.1 Provide submittals in accordance with Section 01 33 00 Submittal Procedures.~~
- ~~.2 Provide product data in accordance with Section 01 33 00 Submittal Procedures.~~
- ~~.3 Provide Shop Drawings in accordance with Section 01 33 00 Submittal Procedures.~~
 - ~~.1 Shop drawings: Submit drawings stamped and signed by professional engineer registered or licensed in Province, Canada.~~
 - ~~.2 Indicate layout of divider strips and expansion joints.~~
- ~~.4 Samples:~~
 - ~~.1 Provide samples in accordance with Section 01 33 00 Submittal Procedures.~~
 - ~~.2 Submit duplicate, 305 x 305 x 6 mm thick samples of each colour of plastic matrix terrazzo.~~
- ~~.5 Closeout Submittals: Provide maintenance data for plastic matrix terrazzo for incorporation into manual specified in Section 01 78 00 Closeout Submittals.~~

1.4 ~~QUALITY ASSURANCE~~

- ~~.1 Installer Qualifications:~~
 - ~~.1 Engage an installer who is a contractor member of NTMA.~~
 - ~~.2 Engage an installer who is certified in writing by terrazzo manufacturer as qualified to install manufacturer's products.~~
- ~~.2 Mockups:~~
 - ~~.1 Construct mock-ups in accordance with Section 01 43 00 Quality Assurance.~~
 - ~~.2 Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for materials and execution.~~
 - ~~.3 Build mockups for terrazzo including accessories.~~
 - ~~.4 Include base.~~

- ~~.5 — Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Consultant specifically approves such deviations in writing.~~
- ~~.6 — Construct mock-up 10 m² of each type of plastic matrix terrazzo including one inside corner, one outside corner, change of material, and door threshold,].~~
- ~~.7 — Construct mock-up where directed.~~
- ~~.8 — Allow twenty-four (24) hours for inspection of mock-up by Consultant before proceeding with ceiling work.~~
- ~~.9 — When accepted, mock-up will demonstrate minimum standard for this work. Mock-up may remain as part of the finished work.~~

1.5 — DELIVERY, STORAGE AND HANDLING

- ~~.1 — Deliver, store and handle materials in accordance with Section 01 61 00—Common Product Requirements.~~
- ~~.2 — Deliver materials to job site just prior to installation.~~
- ~~.3 — Store materials inside, in dry location, away from heavy traffic areas.~~
- ~~.4 — Deliver and store materials in manner to prevent damage.~~
- ~~.5 — Ensure materials remain in original wrapping and containers until used.~~
- ~~.6 — Waste Management and Disposal: Separate waste materials in accordance with Section 01 74 19—Waste Management and Disposal.~~

1.6 — ENVIRONMENTAL REQUIREMENTS

- ~~.1 — Safety:~~
 - ~~.1 — Comply with requirements of Workplace Hazardous Materials Information System (WHMIS) regarding use, handling, storage, and disposal of materials.~~
 - ~~.2 — Respirators: worn by workers mixing epoxy.~~
- ~~.2 — Ventilation:~~
 - ~~.1 — Provided continuously during and after installation. Run system twenty four (24) hours per day during installation; provide continuous ventilation for seven (7) days after completion of installation.~~
 - ~~.2 — Ventilate enclosed spaces.~~
- ~~.3 — Temperature: Maintain temperature and structural base temperature at plastic matrix terrazzo installation area above 12 degrees C for twenty-four (24) hours prior to, during, and for twenty-four (24) hours following installation.~~

1.7 — FIELD CONDITIONS

- ~~.1 — Environmental Limitations: Comply with manufacturer's written instructions for substrate temperature, ambient temperature, moisture, ventilation, and other conditions affecting terrazzo installation.~~
- ~~.2 — Field Measurements: Verify actual dimensions of construction contiguous with precast terrazzo by field measurements before fabrication.~~
- ~~.3 — Provide permanent lighting or, if permanent lighting is not in place, simulate permanent lighting conditions during terrazzo installation.~~

- ~~.4 Close spaces to traffic during terrazzo application and for not less than twenty four (24) hours after application unless manufacturer recommends a longer period.~~
- ~~.5 Control and collect water and dust produced by grinding operations. Protect adjacent construction from detrimental effects of grinding operations.~~

Part 2 Products

2.1 MATERIALS

- ~~.1 Marble Chips:
 - ~~.1 Uniform, sound and abrasion resistant.~~
 - ~~.2 Glass chips: uniform, sound, abrasion resistant.~~
 - ~~.3 Grade chips in accordance with TTMAC standard~~~~
- ~~.2 Epoxy Matrix: Consisting of two (2) non-volatile components, epoxy resin and epoxy hardener, conforming to following performance properties after cure schedule of fourteen (14) days at 25 degrees C:
 - ~~.1 Hardness: Method A, to ASTM D2240, [85] points.~~
 - ~~.2 Tensile Strength: 28 MPa minimum 12 mm/minute using CDie (ASTM D412). Specimens to be cast not cut.~~
 - ~~.3 Tensile Elongation: Test ASTM D638: 5% minimum 5 mm/minute using CDie.~~
 - ~~.4 Compressive Strength: Test ASTM D695 specimen B, cylinder 80 MPa minimum.~~
 - ~~.5 Linear Shrinkage: Test ERF 64, 0.04 mm maximum.~~
 - ~~.6 Colour Retention: ASTM G23 Method A forty eight (48) hours. Colour 101-103~~
 - ~~.7 Chemical Resistance: FTM Test 406, method 7011 seven (7) days immersion.~~~~

Mineral oil	no effect
Oil ASTM No 3	no effect
Lard	no effect
Five (5) detergent	no effect
1% soap solution	no effect
Distilled water	no effect
Calcium chloride 10% solution	no effect

- ~~.8 Abrasion Resistance: Taber CS 17 wheels 1000 gm load on each arm five thousand (5000) cycles average weight loss for each thousand (1000) cycles no greater than 50 milligrams.~~
- ~~.3 Divider Strips: 1.25 mm thick zinc selected by [Consultant x thickness of terrazzo topping.~~
- ~~.4 Accessories: Base caps, base divider strips, separator strips, purpose made and to match divider strips.~~
- ~~.5 Primer:
 - ~~.1 As recommended by epoxy matrix manufacturer~~
 - ~~.2 Highly polished, dense concrete: prime using water or solvent thinned, 30% solids with chemical coupling agent additive designed to promote chemical bond to bare concrete.~~~~

- ~~.3 — Worn, spalled, very porous concrete: prime using 100% solids epoxy primer.~~
- ~~.4 — Oil saturated concrete: chemically remove contamination and mechanically abrade surface. Prime with special oil tolerant, 100% solids modified epoxy primer.~~
- ~~.5 — Damp Sub Surfaces: Prime for adequate adhesion with waterborne or moisture insensitive epoxy primer. Limit technique to applications which will not result in encapsulation of moisture in concrete or creation of negative side hydrostatic force behind epoxy composition flooring system.~~
- ~~.6 — Primer: Maximum VOC level 100 g/ to SCAQMD Rule 1113.~~
- ~~.6 — Sealing compound as recommended by epoxy matrix manufacturer.~~
- ~~.7 — Non-Slip Material for Inserts: Fine aluminum oxide and mixture in selected colours.~~
- ~~.8 — Sealants:~~
 - ~~.1 — Sealants, Solvents, Cleaners and Other Fluids: water based, water soluble, water clean up, non-flammable, biodegradable, and low volatile organic compound (VOC) content.~~
 - ~~.2 — Sealants: maximum VOC limit 100 g/L to South Coast Air Quality Management District (SCAQMD) Rule 1168.~~
 - ~~.3 — Water borne surface coatings:~~
 - ~~.1 — Meet or exceed applicable governmental and/or industrial safety and performance standards.~~
 - ~~.2 — Coatings: Maximum VOC limit to SCAQMD Rule 1113.~~

2.2 ~~MIXES~~

- ~~.1 — Plastic matrix terrazzo to match TTMAC colour plate selected by the Consultant, using three (3) parts marble chips No.1, one part marble dust No.0, one part epoxy matrix.~~
- ~~.2 — Performance of Epoxy Terrazzo:~~

Three (3) parts marble chips No. 1
One (1) part marble dust No. 0
One (1) part epoxy resin and hardener

- ~~.1 — Impact Strength: Mil D 3134F — drop ball 0.9 kg on 305 x 305 x 6 mm epoxy terrazzo sample, bonded to concrete, 22 J, no visible indentation or chipping.~~
- ~~.2 — Indentation: Test Mil D3134F, Section 4.7.4, 100 x 100 x 6 mm sample no indentation.~~
- ~~.3 — Bond Strength: 2 MPa, 100% concrete failure. Test concrete specimen minimum compressive strength 20 MPa, ACI Manual of Concrete Practice, ACI 503R~~
- ~~.4 — Flammability: Test ASTM D635, self-extinguishing 0.25 maximum~~
- ~~.5 — Thermal Coefficient of Linear Expansion: Test ASTM D696, maximum 25 micrometers/mm/temperature range -24 degrees C to 60 degrees C.~~

Part 3 — Execution

3.1 — MANUFACTURER'S INSTRUCTIONS

- ~~.1 — Compliance: comply with manufacturer's written recommendations or specifications, including Product technical bulletins, handling, storage and installation instructions, and datasheets.~~

3.2 — WORKMANSHIP

- ~~.1 — Do terrazzo work in accordance with CSC Architectural Specification Study on Terrazzo (Thin Gauge Epoxy Matrix Terrazzo), produced in cooperation with Terrazzo, Tile and Marble Association of Canada (TTMAC), except where specified otherwise.~~
- ~~.2 — Moisture content of concrete: maximum 16%.~~
- ~~.3 — Install divider strips straight and level to detailed pattern.~~
- ~~.4 — Install non-slip inserts in as indicated.~~

3.3 — PREPARATION

~~.1 — Chemical:~~

- ~~.1 — Scrub concrete slab with heavy duty detergent or cleaners appropriate to emulsify particular contamination present.~~
- ~~.2 — Rinse with clean water. Repeat procedure as required to remove contamination. Remove rinse water by forcing to appropriate drains or by power vacuum. Perform chemical cleaning in strict accordance with federal, provincial and municipal regulations, which prohibit introduction of certain chemicals and contaminants into sewers, open bodies of water and into ground.~~
- ~~.3 — Spread acid solution by sprinkle can and scrub into concrete with stiff broom or power scrubber. Use 25% aqueous solution of HCl (muriatic acid) cut 4 or 5 to 1 with water. (Alternatively, to minimize potential damage to metal equipment adjacent to area being prepared, or to steel reinforcement, use 40% phosphoric acid).~~
- ~~.4 — Rinse with clean water. Repeat procedure as required to remove contamination and acid residue. Remove rinse water by forcing to appropriate drains or by power vacuum. Allow to dry.~~

~~.2 — Mechanical Preparation:~~

- ~~.1 — Shot Blasting: Use steel shot and self-contained abrasive blasting equipment to obtain clean, "white" concrete with uniform stipple finish.~~
- ~~.2 — Sandblasting, or use of other pneumatically impelled abrasive media:~~
 - ~~.1 — Provide uniformly textured surface.~~
 - ~~.2 — Remove spent abrasive media and loosened concrete particles following blasting with vacuums and brushes.~~
- ~~.3 — Scarifying:~~
 - ~~.1 — Level deeply scarred subsurface to obtain uniform finish.~~
 - ~~.2 — Supplement removal of penetrated materials, where necessary, by other chemical or mechanical processes.~~
- ~~.4 — Sanding, or surface abrasion with heavy grit media: corners and edges and full surface.~~

~~.5 — Mechanical Keying:~~

~~.1 — Provide crisscrossing saw cuts (6.35 mm deep) to create maximum bond potential.~~

~~.2 — Chisel parallel grooves in subsurface.~~

~~.6 — Edge Detailing: Saw cut and chisel leading edges, around drains, joints and cracks to key epoxy overlayment into concrete subsurface.~~

~~3.4 — INSTALLATION~~

~~.1 — Floors~~

~~.1 — Mix and install epoxy terrazzo in accordance with manufacturer's instruction, and where possible under direction of manufacturer's representative.~~

~~.2 — Thickness of topping **6** mm maximum, **3** mm minimum.~~

~~.2 — Built Up Base: Coved, 6 mm thick topping on cement mix back up as indicated.~~

~~.3 — Finishing: Surface and grout terrazzo when sufficiently hard using No. 24 grit carborundum for initial grinding, and No. 120 grit carborundum for final grinding.~~

~~.4 — Sealing: Clean terrazzo and apply sealing compound in accordance with material manufacturer's instructions.~~

~~3.5 — SITE QUALITY CONTROL~~

~~.1 — Manufacturer's Field Services: Provide manufacturer's field services consisting of product use recommendations and periodic site visits for inspection of product installation in accordance with manufacturer's instructions.~~

~~3.6 — CLEANING~~

~~.1 — Proceed in accordance with Section 01 74 00 — Cleaning.~~

~~END OF SECTION~~

SECTION 09 67 23 - RESINOUS FLOORING

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Resinous Flooring Systems: Troweled urethane cement composition flooring with decorative color flake broadcast.

1.2 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.

1.3 ACTION SUBMITTALS

- A. Product Data:
 - 1. For each type of product. Include manufacturer's technical data, application instructions and recommendations for each resinous flooring component required.
 - 2. Include documentation indicating that product contains no urea formaldehyde in compliance with California Air Resources Board (CARB) regulations.
- B. Samples for Initial Selection: For each type of exposed finish required.
- C. Samples for Verification: For each resinous flooring system required, 6" (150 mm) square, applied to a rigid backing by Installer for this Project.

1.4 INFORMATIONAL SUBMITTALS

- A. Installer Certificates: Signed by manufacturer certifying that installers comply with specified requirements.
- B. Material Certificates: For each resinous flooring component, from manufacturer.
- C. Material Test Reports: For each resinous flooring system, by a qualified testing agency.

1.5 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For resinous flooring to include in maintenance manuals.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: An authorized representative trained and approved by manufacturer.
- B. Engage an installer who is certified in writing by resinous flooring manufacturer as qualified to apply resinous flooring systems indicated.
- C. Mockups:
 - 1. Build mockups to verify selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
 - 2. Apply full-thickness mockups on 8'-0" (2400-mm-) square floor area selected by Architect.
 - a. Include 8'-0" (2400-mm) length of integral cove base with inside and outside corner.
 - 3. Simulate finished lighting conditions for Architect's review of mockups.
 - 4. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
 - 5. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.7 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials in original packages and containers, with seals unbroken, bearing manufacturer's labels indicating brand name and directions for storage and mixing with other components.

1.8 FIELD CONDITIONS

- A. Environmental Limitations: Comply with resinous flooring manufacturer's written instructions for substrate temperature, ambient temperature, moisture, ventilation and other conditions affecting resinous flooring application.
- B. Lighting: Provide permanent lighting or, if permanent lighting is not in place, simulate permanent lighting conditions during resinous flooring application.
- C. Close spaces to traffic during resinous flooring application and for twenty-four (24) hours after application unless manufacturer recommends a longer period.

1.9 WARRANTY

- A. Manufacturer's standard limited warranty for the specified term.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Source Limitations: Obtain primary resinous flooring materials, including primers, resins, hardening agents, grouting coats and topcoats, from single source from single manufacturer. Obtain secondary materials, including patching and fill material, joint sealant and repair materials, of type and from manufacturer recommended in writing by manufacturer of primary materials.

2.2 RESINOUS FLOORING (RS-1, 2 and 3)

- A. Troweled Urethane Cement Composition Flooring with Decorative Color Flake Broadcast:
 - 1. Basis of Design: "Dex-O-Tex Bio-Tex -CF" as manufactured by Crossfield Products Corp.
 - a. Physical Properties:
 - 1) Compressive Strength (ASTM C579): 6,100 psi (42 MPa).
 - 2) Thermal Distortion (250°F Emersion): Passes.
 - 3) Tensile Strength (ASTM C307): 1,000 psi (6.89 MPa).
 - 4) Flexural Strength (ASTM C580): 2,000 psi (13.8 MPa).
 - 5) Thermal Coefficient of Thermal Expansion (ASTM C531): 1.4 x 10E5.
 - 6) Density (ASTM C905): 130 pcf (20.4 kN/m³).
 - 7) Water Absorption (MIL-PRF-3134): 0.64 %.
 - 8) Surface Hardness (ASTM D2240) 85-90 Durometer "D".
 - 9) Abrasion Resistance (ASTM D1044): 33 mg.
 - 10) Adhesion (ASTM D4541): 400 psi (2.76 MPa), 100 % failure in concrete.
 - 11) Flammability-Critical Radiant Flux (ASTM E648): 1.07 watts/cm².
 - 12) Resistance to Fungal Growth (ASTM G21): Passes, Rating 1.
 - b. Membrane (if required) "Dex-O-Tex Cheminert SC" membrane applied in two (2) coats with a sand broadcast on the topcoat.

- c. Body Coat: 3/16" to 1/4" (5 to 6 mm) thick with color flake chip broadcast.
- d. Colors: As selected by the Architect from the manufacturers available color range.
- e. Topcoat: "Quik-Glaze Clear Gloss, UV" and abrasion resistant high build "Polyaspartic".
- f. RS-3: Complete with manufacturers standard slip resistant surface.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Do not begin preparation and installation until substrates are properly constructed and inspected complying with ACI 311.4R-05 Guide for Concrete Inspection. The Contractor is to correct non-conformities if defects are discovered. Repair per ACI 546.R-04. Turn over work in broom clean condition free of debris and foreign matter.
- B. If substrate preparation is responsibility of another contractor, inspect per ACI 311.4R-05 Guide for Concrete Inspection by a certified Society for Protective Coatings (SSPC) CCI inspector. If preparation is not satisfactory or if surface is contaminated, notify Architect in writing. Do not proceed with the installation before the deficiencies have been satisfactorily corrected.
- C. Perform moisture testing per ASTM F1869 and F2170. Document results per this Specification. If moisture vapor emission rate (MVER) or relative humidity (RH) exceeds manufactures recommend level for specified product. Apply vapor control primer before proceeding.
- D. Verify the substrate has proper levelness and flatness or slope for drainage. If proper levelness and flatness or slope for drainage is not in the substrate notify the Architect and Contractor immediately. Do not proceed with flooring installation until the conditions are corrected.

3.2 PREPARATION

- A. Prepare and clean substrates according to resinous flooring manufacturer's written instructions for substrate indicated. Provide clean, dry substrate for resinous flooring application.
- B. Concrete Substrates:
 - 1. Provide sound concrete surfaces free of laitance, glaze, efflorescence, curing compounds, form-release agents, dust, dirt, grease, oil and other contaminants incompatible with resinous flooring.
 - 2. Roughen concrete substrates as follows:
 - a. Shot-blast surfaces with an apparatus that abrades the concrete surface, contains the dispensed shot within the apparatus and recirculates the shot by vacuum pickup.
 - b. Comply with National Association of Corrosion Engineers (NACE) No. 6/SSPC-SP13, with a Concrete Surface Profile (CSP) of 3 or greater in accordance with the International Concrete Repair Institute (ICRI) Technical Guideline No. 310.2R, unless manufacturer's written instructions are more stringent.
 - 3. Repair damaged and deteriorated concrete according to resinous flooring manufacturer's written instructions.
 - 4. Verify that concrete substrates are dry and moisture-vapor emissions are within acceptable levels according to manufacturer's written instructions.
 - a. Anhydrous Calcium Chloride Test: ASTM F1869. Proceed with application of resinous flooring only after substrates have maximum moisture-vapor-emission rate of 3 lbs of water/1000 ft². (1.36 kgs of water/92.9 m²) of slab area in twenty-four (24) hours.

- b. Relative Humidity Test: Use in situ probes, ASTM F2170. Proceed with installation only after substrates have a maximum 75 % RH level measurement.
- 5. Alkalinity and Adhesion Testing: Verify that concrete substrates have pH within acceptable range. Perform tests recommended by manufacturer. Proceed with application only after substrates pass testing.
- C. Cut 1/8" x 1/2" keyways around the perimeter, around drains, clean outs, access panels or other flooring interruption and at expansion or isolation joints.
- D. Patching and Filling:
 - 1. Use patching and fill material to fill holes and depressions in substrates according to manufacturer's written instructions.
 - 2. Control Joint Treatment: Treat control joints and non-moving substrate cracks to prevent cracks from reflecting through resinous flooring according to manufacturer's instructions.
- E. Resinous Materials: Mix components and prepare materials according to resinous flooring manufacturer's written instructions.

3.3 INSTALLATION

- A. Apply components of resinous flooring system according to manufacturer's written instructions to produce a uniform, monolithic wearing surface of thickness indicated.
 - 1. Coordinate application of components to provide optimum adhesion of resinous flooring system to substrate and optimum inter-coat adhesion.
 - 2. Cure resinous flooring components according to manufacturer's written instructions. Prevent contamination during application and curing processes.
 - 3. Expansion and Isolation Joint Treatment: At substrate expansion and isolation joints, comply with resinous flooring manufacturer's written instructions.
- B. Primer: Apply primer over prepared substrate at manufacturer's recommended spreading rate.
- C. Waterproofing Membrane:
 - 1. Apply waterproofing membrane where indicated on Drawings, in manufacturer's recommended thickness.
 - 2. Apply waterproofing membrane to integral cove base substrates.
- D. Reinforcing Membrane: Apply reinforcing membrane to entire substrate surface.
- E. Integral Cove Base:
 - 1. Apply cove base mix to wall surfaces before applying flooring. Apply according to manufacturer's written instructions and details, including those for taping, mixing, priming, troweling, sanding and top coating of cove base. Round internal and external corners.
 - 2. Integral Cove Base: Height as indicated on the Drawings.
- F. Troweled or Screeded Body Coats: Apply troweled or screeded body coats in thickness indicated for flooring system. Hand or power trowel and grout to fill voids. When body coats are cured, remove trowel marks and roughness using method recommended by manufacturer.
- G. Grout Coat: Apply grout coat, of type recommended by resinous flooring manufacturer, to fill voids in surface of final body coat.
- H. Topcoats: Apply topcoats in number indicated for flooring system and at spreading rates recommended in writing by manufacturer and to produce wearing surface indicated.

3.4 FIELD QUALITY CONTROL

A. Material Sampling:

1. Owner may, at any time and any number of times during resinous flooring application, require material samples for testing for compliance with requirements.
2. Owner may engage an independent testing agency to take samples of materials being used. Material samples will be taken, identified, sealed and certified in presence of Contractor.
3. Testing agency will test samples for compliance with requirements, using applicable referenced testing procedures or, if not referenced, using testing procedures listed in manufacturer's product data.
4. If test results show applied materials do not comply with specified requirements, pay for testing, remove non-complying materials, prepare surfaces coated with unacceptable materials and reapply flooring materials to comply with requirements.

- #### B. Core Sampling:
- At the direction of Owner and at locations designated by Owner, take one core sample per 1000 ft² (92.9 m²) of resinous flooring or portion of, to verify thickness. For each sample that fails to comply with requirements, take two (2) additional samples. Repair damage caused by coring. Correct deficiencies in installed flooring as indicated by testing.

3.5 PROTECTION

- #### A.
- Protect resinous flooring from damage and wear during the remainder of construction period. Use protective methods and materials, including temporary covering, recommended in writing by resinous flooring manufacturer.

END OF SECTION 09 67 23

Part 1 ~~General~~

1.1 ~~SECTION INCLUDES~~

- ~~.1 Wall protection systems, including rigid sheet wall covering panels.~~

1.2 ~~SUBMITTALS~~

- ~~.1 General: Submit the following in accordance with conditions of the Contract and Division 01 Specification Sections.~~
- ~~.2 Product data for each wall surface protection system component and installation accessory required, including installation methods for each type of substrate. Provide written data on each required component including physical characteristics, such as durability, resistance to fading and flame resistance.~~
- ~~.3 Shop Drawings showing locations, extent and installation details of wall covering panels and layout of panels and trim accessories.~~
- ~~.4 Samples for Initial Selection: For initial selection of color, pattern and surface texture, provide the manufacturer's standard color chips consisting of actual sections of wall panel material required showing the full range of materials, colors and textures available.~~
- ~~.5 Product test reports from an independent testing laboratory showing compliance of wall surface protection system components with requirements indicated based on tests performed by the laboratory within the past five (5) years.~~
- ~~.6 Maintenance data for wall surface protection system components for inclusion in the Operating and Maintenance Manuals.~~

1.3 ~~QUALITY ASSURANCE~~

- ~~.1 Installer Qualifications: Engage an experienced installer who has previously installed wall surface protection systems similar in material, design and extent to the systems indicated for this Project.~~
- ~~.2 Manufacturer Qualifications: Firm experienced in manufacturing wall surface protection system components that are similar to those required for this Project and that have a record of successful in-service performance.~~
- ~~.3 Fire Performance Characteristics:~~
- ~~.1 Provide wall surface protection system components that are identical to those tested in accordance with ASTM E 84 for the fire performance characteristics indicated herein. Identify wall surface protection system components with appropriate markings from the testing and inspection organization.~~
- ~~.2 Flame Spread: 25 or less.~~
- ~~.3 Smoke Developed: 450 or less.~~
- ~~.4 Single Source Responsibility: Obtain each color, grade, finish and type of wall surface protection system component from a single source with resources to provided products of consistent quality in appearance and physical properties without delaying progress of the Work.~~

1.4 ~~DELIVERY, STORAGE and HANDLING~~

- ~~.1 Deliver materials to Project site in original factory wrappings and containers, clearly labeled with identification of manufacturer, brand name, quality or grade and fire hazard classification.~~

- ~~.2 — Store wall surface protection materials in original undamaged packages and containers inside a well-ventilated area protected from weather, moisture, soiling, extreme temperatures and humidity.~~
- ~~.1 — Maintain room temperature within the storage area at not less than 70 deg F (21 deg C) during the period materials are stored. Keep sheet material out of direct sunlight to avoid surface distortion.~~

~~1.5 — MAINTENANCE~~

- ~~.1 — Maintenance Instructions: Provide the manufacturer's instructions for maintenance of installed work. Include recommended methods and frequency for maintaining optimum condition under anticipated traffic and use conditions. Include precautions against cleaning materials and methods that may be detrimental to finishes and performance.~~
- ~~.2 — Replacement Materials: After completion of work, deliver not less than 2% of each type, color and pattern of wall surface protection materials and components. Include accessory components as required. Replacement materials shall be from the same production run as materials installed. Package replacement materials with protective covering, identified with appropriate labels.~~

~~Part 2 — Products~~

~~2.1 — MANUFACTURERS AND PRODUCTS~~

- ~~.1 — Subject to compliance with requirements, provide products equivalent to "Glasbord FSI" (WP-5) by Kemlite Company or approved alternate.~~
- ~~.2 — Description:~~
 - ~~.1 — Prefabricated fiberglass reinforced plastic panels designed to be laminated to wall construction, complete with manufacturer's proprietary moldings and trim, to produce easy to clean, sanitary wall finish.~~
 - ~~.2 — Panel Size: 4' 0" (1.2 m) x 8' 0", 9' 0" or 10' 0" (2.4, 2.7 or 3 m) as required for floor to ceiling fit.~~
 - ~~.3 — Panel Thickness: .075 (1.9 mm).~~
 - ~~.4 — Surface Finish: Smooth.~~
 - ~~.5 — Color: White.~~
 - ~~.6 — Certifications: USDA/FSIS.~~
 - ~~.7 — Surface Burning Characteristics: Class A (ASTM E-84).~~
- ~~.3 — Adhesives: Panel manufacturer recommended adhesives.~~
- ~~.4 — Accessories: Panel butt joint and perimeter plastic moldings and trim as provided by panel manufacturer.~~
- ~~.5 — Joint Sealants: Refer to Section 07 92 00 Joint Sealants for sealant materials to be used at panel joints.~~

~~2.2 — FABRICATION~~

- ~~.1 — General: Fabricate wall covering panels to comply with requirements indicated for design, dimensions, details, finish and sizes, including panel thickness.~~
- ~~.2 — Provide adhesives, moldings and trim components for a complete installation.~~

Part 3 — Execution

3.1 — EXAMINATION

- ~~.1 — Examine areas and conditions in which wall surface protection systems will be installed.~~
- ~~.2 — Complete finishing operations, including painting, before beginning installation of wall surface protection system materials.~~
- ~~.3 — Do not proceed with installations until unsatisfactory conditions have been corrected.~~

3.2 — PREPARATION

- ~~.1 — General: Prior to installation, clean substrate to remove dust, debris and loose particles.~~

3.3 — INSTALLATION

- ~~.1 — General:
 - ~~.1 — Install wall surface protection units plumb, level and true to line without distortions with full spread adhesive method.~~
 - ~~.2 — Do not use materials with chips, cracks, voids, stains or other defects that might be visible in the finished work.~~~~
- ~~.2 — Install wall panel accessories in strict accordance with the manufacturer's instructions. Seal joint and perimeter moldings and trim with silicone sealant prior to installation of panels.~~

3.4 — CLEANING

- ~~.1 — General: Immediately upon completion of installation, clean wall panels using recommended cleaning agents in accordance with the manufacturer's recommendations.~~
- ~~.2 — Remove excess adhesive using methods and materials recommended by manufacturer.~~
- ~~.3 — Remove surplus materials, rubbish and debris resulting from installation upon completion of work and leave areas of installation in neat, clean condition.~~

END OF SECTION

Part 1 General

1.1 **SECTION INCLUDES**

- .1 Wall protection.
- .2 Related accessories.

1.2 **ACTION AND INFORMATIONAL SUBMITTALS**

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
 - .1 Submit manufacturer's instructions, printed product literature and data sheets for wall and corner guards and include product characteristics, performance criteria, physical size, finish and limitations.
 - .2 Submit 2 copies of WHMIS SDS in accordance with Section 01 35 23 - Health and Safety. Indicate volatile organic compounds (VOC's) for material as follows:
 - .1 Caulking materials during application and curing.
 - .2 Adhesives.
- .3 Installation Drawings: Indicate on drawings large scale details, materials, finishes, dimensions, anchorage and assembly.
- .4 Samples: Submit duplicate 300 mm long samples of profiles and colours for wall guards.

1.3 **QUALITY ASSURANCE**

- .1 Test Reports: Submit certified test reports showing compliance with specified performance characteristics and physical properties.
- .2 Certificates: Submit product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.

1.4 **DELIVERY, STORAGE AND HANDLING**

- .1 Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements and with manufacturer's written instructions.
- .2 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
- .3 Storage and Handling Requirements:
 - .1 Store materials off ground, indoors and in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
 - .2 Store and protect wall guards from nicks, scratches, and blemishes.
 - .3 Replace defective or damaged materials with new.
- .4 Packaging Waste Management: remove for reuse and return by manufacturer of pallets, crates, padding, and packaging materials as specified in Construction Waste Management Plan in accordance with Section 01 74 00 - Cleaning and Waste Management and Waste Management.

Part 2 Products

2.1 **MATERIALS**

- .1 High strength PVC compound, selected by the Consultant from manufacturer's standard range.
- .2 Wall Protection (WP-3 and, WP-4 and WP-5): Manufacturers, products, colours and finishes as indicated on the Drawings.**
- ~~.2.3~~ Chair Rail (CH-1): Manufacturers, products, colours and finishes as indicated on the Drawings.**
- .4 Rigid Vinyl Wall Covering (RV-1 and RV-2): Manufacturers, products, colours and finishes as indicated on the Drawings.**

2.2 **ACCESSORIES**

- .1 Fasteners: self-tapping stainless steel, **concealed** mounting.
- .2 Adhesive: water resistant type as recommended by manufacturer for substrate.

2.3 **FINISHES**

- .1 Finish exposed surfaces of aluminum components in accordance with Aluminum Association Designation System for Aluminum Finishes.
 - .1 As fabricated or mill finish.
 - .2 Integral colour anodic finish to match Consultant's approved sample.
- .2 Appearance and properties of anodized finishes designated by the Aluminum Association as Architectural Class 1, Architectural Class 2, and Protective and Decorative.

Part 3 Execution

3.1 **EXAMINATION**

- .1 Verification of Conditions: verify that conditions of substrate previously installed under other Sections or Contracts are acceptable for wall and corner guards installation in accordance with manufacturer's written instructions.
 - .1 Visually inspect substrate in presence of Consultant.
 - .2 Inform Consultant of unacceptable conditions immediately upon discovery.
 - .3 Proceed with installation only after unacceptable conditions have been remedied and after receipt of written approval to proceed from Consultant.

3.2 **MANUFACTURER'S INSTRUCTIONS**

- .1 Compliance: comply with manufacturer's written data, including product technical bulletins, product catalogue installation instructions, product carton installation instructions, and data sheets.

3.3 **INSTALLATION**

- .1 Install units on solid backing and erect with materials and components straight, tight and in alignment.
- .2 Mechanically fasten and adhere wall guards at 200 mm maximum o.c. with top surface

above finish floor line as indicated, straight and level to variation plus or minus 3 mm over 3000 mm straight edge, non-cumulative.

- .3 Mechanically fasten and adhere corner guards and door frame bumpers to plywood substrate at 200 mm o.c as indicated. Provide additional anchorage at corner guards with stainless steel fasteners expansion screws adhesives at 200 mm o.c.

3.4 **CLEANING**


.1 Progress Cleaning:

- .1 Clean in accordance with Section 01 74 00 - Cleaning and Waste Management and Waste Management.
- .2 Leave Work area clean at end of each day.
- .2 Perform cleaning after installation to remove construction and accumulated environmental dirt.
- .3 Clean surfaces after installation using manufacturer's written recommended cleaning procedures.
- .4 Upon completion of installation, remove surplus materials, rubbish, tools and equipment barriers.
- .5 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 00 - Cleaning and Waste Management.
- .6 Waste Management: Remove recycling containers and bins from site and dispose of materials at appropriate facility.

3.5 **PROTECTION**

- .1 Protect installed products and components from damage during construction.
- .2 Repair damage to adjacent materials caused by wall and corner guards installation.

END OF SECTION

	WAYPOINT 3RD FLOOR RENOVATIONS - BID QUESTIONS - ADDENDUM NO. 4	
	Questions	Responses
PB-0001	There is no bid form found within the documents issued. Please provide bid form to be submitted at time of tender.	DOCUMENT PROVIDED
PB-0002	Please provide electronic asbestos report for review.	DOCUMENT PROVIDED
PB-0003	Is there any fire protection scope required for the project? If yes, please issued Sprinkler drawings.	NO FIRE PROTECTION SCOPE - JUST REWORK AS NEEDED.
PB-0004	Please advise if there are any mandatory base building subcontractors required.	NO
PB-0005	Please advise who the base building BAS Controls contractor is.	TEMP AIR
PB-0006	Please advise who the base building security vendor is.	
	Please advise the finish height of WP-3 and WP-4.	FULL HEIGHT
PB-0008	Please advise Hardware Group on Door Schedule on Drawing A1005 that correlates to Door Hardware Sets as listed in Specifications document.	DOOR HARDWARE SCHEDULE HAS BEEN UPDATED
PB-0009	On interior elevations (Drawing A0601) - there is a symbol on the wall tile in the washrooms where one of the tiles is grey and has an arrow pointing in a specific direction. Please advise what this symbol means.	DEPICTS START OF FULL TILE FOR LAYOUT
PB-0010	On interior elevations (Drawing A0601) - there is a specific item that is shown in multiple locations (I.e. Blood Draw/Exam room (detail 35), Patient Nutrition Centre (detail 32), and Charting area 3013B (detail 28)) - can you please advise what this item is?	SHALL BE HHS-2 PER PLUMBING SCHEDULE
		SHALL BE HHS-2 PER PLUMBING SCHEDULE
PB-0011	11. In specification section, 08 71 00 - Door Hardware on page 217 of 992, mentions to refer to Section 08 34 00. Please provide us with this specification to refer to.	REFER TO SPEC SECTION 08 3454
PB-0012	if XFR PVC piping is acceptable for the drains and vents for the above tender.	Please refer to mechanical specification section 22 13 16.13 - copper or cast iron pipe fittings to be used. PVC DWV use is limited to urnial fixture drains and a portion of fixture vent piping
PB-0013	If you could provide a plan takers list or list of pre-qualified General Contractors for the project above closing March 7 th	WALK THRU DOCUMENT PROVIDED
PB-0014	Are you be able to provide any pictures of the existing distribution panels LP-A3, B3 and C3 , name plates or physical sizes.. The pictures sent with the original drawings do not have enough information to price the way distributors want.	Please see attached photos.
PB-0015	Is removal of flooring and ceiling limited only to areas as identified with notes 4, 5 and 6 since those notes are not identified for all areas.	EXTENT IS SHOWN FOR GENERAL UNDERSTANDING BUT FURTHER COORDINATION WITH MEP IS REQUIRED FOR ALL AREAS
PB-0016	Can a list of attendee's for the site visit February 21, 2024 @ 10AM be provided?	WALK THRU DOCUMENT PROVIDED
PB-0017	Is their a specification for Division 26 other then the dialogue on drawing E01?	No, but please note there are specifications for Division 27 (Nurse Call) & Division 28 (Security)
PB-0018	Can you please consider the above products as an equal of the product specified on the documents of the Toanche Building 3 rd Floor	YES - DOCUMENT PROVIDED
PB-0019	Are you able to re-confirm the log-in details for the FTP site for our access to all addenda?	SHAREPOINT TO BE PROVIDED
PB-0020	Provide list of attendees (sign-in sheet) from Site Visit.	WALK THRU DOCUMENT PROVIDED
PB-0021	Is work of Section 03 54 16 (Hydraulic Cement Underlayment) limited to areas as and if required or it has to be applied throughout renovated area.	DRAWING A0101 HAS BEEN REVISED
PB-0022	Are you able to re-confirm the log-in details for the FTP site for our access to all addenda?	SHAREPOINT TO BE PROVIDED
PB-0023	We are unable to locate the bid form in the documents provided for the above-mentioned tender. Can you please advise where this form is located? Also, could you please provide addendum #2 as I only have emails for Addendum #1 & #3.	WILL BE PROVIDED

PB-0024	The BAS Controller location was not observed at the site visit where it is noted on the drawings. Please advise location.	Controls for the building are Carrier. Extension of the existing BAS system to support new additions as part of this tender shall be coordinated with the facilities team and Carrier Controls.
PB-0025	Please confirm intent for the 2nd floor - if the ceiling space is similar to the 3rd floor, there is very little space above for sanitary piping, and may require large sections of the hard ceiling to be removed.	Refer to A0700 - REFER TO NOTES
PB-0026	As there are no fire protection drawings, please confirm intent with standpipe - are they existing to remain?	YES - EXISTING TO REMAIN
PB-0027	Please confirm the connections to plumbing risers are to be completed within the ceiling space and we are not required to access the shafts around the perimeter of the floor.	Refer to mechanical drawing M5 (Level 03 Plumbing New Work) for location of domestic, sanitary and vent risers - these connections aren't in shafts around the perimeter of the building. It's the Heating/cooling risers that are located in the shafts around the permimeter of the building. New heating/cooling connections to risers can be completed in ceiling where piping is accessible.
PB-0028	Please confirm if there are any abatement work which has been completed to date.	DOCUMENT PROVIDED
PB-0029	Please confirm which CCDC2 contract is to be used as amended by supplementary conditions as both CCDC2 2008 and CCDC2 2020 are noted in the documents.	CCDC2 2020
PB-0030	Please advise if there are any costs associated with Waypoint parking passes.	NONE
PB-0031	Provide specification and size for integral blinds at door panel type 'V' (drawing A1005).	REFER TO DRAWING A1005
PB-0032	Are there any lighting controls required? There are some 0-10V devices listed in the legend, but not if they are required?	Yes, there are local controls (dimmers, switches, occupancy sensors), as shown on drawing E02.
PB-0033	Provide Bid Form.	DOCUMENT PROVIDED
PB-0034	Section 00 21 13.1.8 indicates requirement for Performance Bond and Labour and Material Payment Bond. Provide information on amounts required (i.e. 50/50 or 100/100).	50/50
PB-0035	Provide Hazardous Material Report (indicated in Section 00 31 26).	DOCUMENT PROVIDED
PB-0036	Section 01 21 00.1.2.3 indicates total amount of Cash Allowances as \$250,000. Section 01 21 00.1.4.4 indicates total amount of Cash Allowances for Assignable Contracts as \$120,000. Since description of work for both types of Cash Allowance is very similar, are any of noted Cash Allowances obsolete, or both amounts have to be included.	SPECIFICATIONS HAVE BEEN REVISED.
PB-0037	Section 01 91 00.1.2 indicates that Contractor shall retain and pay for a commissioning agency. Usually, independent Commissioning Agency is retained and pay for directly by the Owner. If it is still required to be retained by General Contractor, provide detailed Commissioning specification with all requirements on extent of work.	NO SPECIFICATION; INDEPENDENT COMMISSIONING AGENCY TO BE RETAINED AND PAID FOR DIRECTLY BY OWNER.
PB-0038	What is extent of work of Section 09 77 50 (Sanitary Wall Panel System).	SPECIFICATION REMOVED
PB-0039	What is extent of work of Section 11 73 13 (Psychiatric Seclusion Room Wall Padding)	REFER TO ROOM FINISH SCHEDULE FOR LOCATIONS
PB-0040	What is extent of work of Section 09 66 23 (Terrazzo Flooring).).	SPECIFICATION REMOVED
PB-0041	Drawing A1200 is making reference to Section 09 67 23 (Resinous Flooring). Provide specifications.	SPECIFICATION ADDED TO MATCH FINISH SCHEDULE
PB-0042	Section 08 71 00 (Door Hardware) indicates hardware sets. Assign noted sets to doors on drawing A1005	DOOR SCHEDULE HAS BEEN REVISED
PB-0043	Provide information on floor to floor height (3 rd floor).	APPROX. 10'-10" ± - VIF. RE EXISTING DRAWINGS BY OWNER
PB-0044	Drawing A0101 indicates Equipment Schedule. Provide matrix of responsibility (and specifications if Contractor supplied) for each item listed.	EQUIPMENT SCHEDULE HAS BEEN REVISED
PB-0045	Drawing A0101 indicates Accessory Group List. Clarify further meaning and extent of noted groups and accessory numbers.	GROUP LIST CORRESPONDS WITH KEY TO MATERIALS LISTED ON A0600 SERIES AND TOILET ACCESSORIES IN SPECIFICATIONS
PB-0046	Doors 3206, 3208 indicated on floor plan (A0101) are not indicated in Door Schedule (A1005).	DOOR SCHEDULE HAS BEEN REVISED
PB-0047	Provide specification for glazing material note on drawing A1006 ('G1' and 'G2'); not specified in Section 08 80 00 (Glazing).	DRAWINGS AND SPECIFICATIONS HAVE BEEN UPDATED
PB-0048	Drawing A1301 indicates 'WP-3' as chair rail (CH-1). Drawing A1200 indicates 'WP-3' as 'Altro' wall protection	WALL PROTECTION ASSEMBLIES TO BE REVISED TO WPA FOR CLARIFICATION. SEE REVISED SHEET 1301

WAYPOINT DATABASE
ASBESTOS CONTAINING MATERIALS
TOANCHE BUILDING

Last Updated
January 2024

INTRODUCTION

The Facility Operations and Maintenance (FO+M) department at Waypoint Centre for Mental Health Care (Waypoint) provides and maintains a database of known and suspected asbestos containing materials found at Waypoint.

This database was originally created by a third party consultant and has been used as a starting point for current versions of the database.

The database will be routinely updated as new information becomes available or as changes are required. A complete review will be completed at least once per year.

This database is meant to be a tool for long-term management of asbestos containing materials (ACM) in Waypoint buildings and to support safe day-to-day operations.

LIMITATIONS

Based on the age of some of Waypoint's buildings, asbestos materials may be present and not identified. Efforts have been made to be as accurate and complete as possible; however, details within this report may not be comprehensive. Some materials that were concealed have not been assessed.

This report may not be adequate for major or renovation projects. In the event of major renovations, further project specific intrusive assessments and possible testing should be considered.

CONFIRMED AND ASSUMED ASBESTOS – TOANCHE SUB LEVEL

SUB 01	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Plaster	Brown	NON-ACM	ND	ND	S0005	2007		

SUB 03	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Piping Insulation	Grey	Confirmed	60% Chrysotile	Good	S0001	2021	552116794	

SUB 04	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Piping Cement	Grey	Assumed	25-50% Chrysotile	Good	V0002	2007		

SUB 05	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Piping Cement	Grey	Confirmed	25-50% Chrysotile	Good	S0002	2007		

*Some piping was removed in 2022; however, the removal was not comprehensive.

SUB 08	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Drywall / Joint Plaster	White	NON-ACM	ND	ND	S0001	2007		

CONFIRMED AND ASSUMED ASBESTOS – TOANCHE 1st FLOOR

T 107	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Sheet Flooring	Dark Red	NON-ACM	ND	ND	S0007	2007		

T 109	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Texture Coat	Ceiling White	NON-ACM	ND	ND	S0006	2007		

T 138	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Piping Sweat Wrap	Black or Brown	NON-ACM	ND	ND	S0010	2007		

CONFIRMED AND ASSUMED ASBESTOS – TOANCHE 2nd FLOOR

T 201	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Tile	Grey, no mastic	NON-ACM	ND	ND	S0013	2007		

T 203	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Ceiling Fibrous Fireproofing	Brown	NON-ACM	ND	ND	S0016	2007		
	Texture Coat	Ceiling White	NON-ACM	ND	ND	S0017	2007		

T 205	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Tile	Yellow/grey with black flecks	NON-ACM	ND	ND	S0027	2007		

T 206B	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Tile	Yellow/grey with black flecks	NON-ACM	ND	ND	S0027	2007		

T 214	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Sheet Flooring	Blue	NON-ACM	ND	ND	S0018	2007		
	Lay-In Ceiling Tiles	AT-003 White	NON-ACM	ND	ND	S0021	2007		
	Vinyl Sheet Flooring	Green	NON-ACM	ND	ND	S0024	2007		

CONFIRMED AND ASSUMED ASBESTOS – TOANCHE 2nd FLOOR

T 224	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Lay-In Ceiling Tiles	AT-004 White	NON-ACM	ND	ND	S0030	2007		

T 225	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Lay-In Ceiling Tiles	AT-004 White	NON-ACM	ND	ND	S0030	2007		

T 226	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Lay-In Ceiling Tiles	AT-004 White	NON-ACM	ND	ND	S0030	2007		

T 245	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Tile	Beige with beige flecks	NON-ACM	ND	ND	S0035	2007		

T 246	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Ceiling Fibrous Fireproofing	Brown	NON-ACM	ND	ND	S0038	2007		

T 256	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Tile / Mastic	Green with black and grey flecks	NON-ACM	ND	ND	S0033	2007		

CONFIRMED AND ASSUMED ASBESTOS – TOANCHE 2nd FLOOR

T 264	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Sheet Flooring	Brown Squares	Confirmed	25-50% Chrysotile	Good	S0046	2007		

T 277A	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Tile / Mastic	Beige with black and brown flecks	NON-ACM	ND	ND	S0043	2007		

T 277B	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Tile / Mastic	Beige with black and brown flecks	NON-ACM	ND	ND	S0043	2007		

CONFIRMED AND ASSUMED ASBESTOS – TOANCHE 3rd FLOOR

T 301	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Tile	White with black and brown flecks	NON-ACM	ND	ND	S0055	2007		

T 303	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Tile	White/Beige with thick green lines	Confirmed	0-5% Chrysotile	Good	V0049	2007		
	Vinyl Tile	White/Beige with thick green lines	Confirmed	2% Chrysotile	Good	V0001	2024	552401290	

T 315	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Tile	Beige and white	NON-ACM	ND	ND	S0052	2007		

T 316	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Tile	Beige and white	NON-ACM	ND	ND	S0052	2007		

T 316A	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Tile	Beige and white	NON-ACM	ND	ND	S0052	2007		

CONFIRMED AND ASSUMED ASBESTOS – TOANCHE 3rd FLOOR

T 330	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Tile	White/Beige with thick green lines	Assumed	0-5% Chrysotile	Good	V0049	2007		
	Vinyl Tile	White/Beige with thick green lines	Assumed	2% Chrysotile	Good	V0001	2024	552401290	

T 338	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Tile	White/Beige with thick green lines	Confirmed	0-5% Chrysotile	Good	S0049	2007		
	Vinyl Tile	White/Beige with thick green lines	Confirmed	2% Chrysotile	Good	S0001	2024	552401290	
	Floor Tile Mastic		Non-ACM	ND		S0001A	2024	552401290	

T 341	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Tile	White/Beige with thick green lines	Assumed	0-5% Chrysotile	Good	V0049	2007		
	Vinyl Tile	White/Beige with thick green lines	Assumed	2% Chrysotile	Good	V0001	2024	552401290	

CONFIRMED AND ASSUMED ASBESTOS – TOANCHE 4th FLOOR

T 407	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Tile / Mastic	White mottled. Yellow mastic.	NON-ACM	ND	ND	S0065	2007		

T 409	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Tile / Mastic	White and yellow. Black mastic.	Assumed	0-5% Chrysotile	Good	V0070	2007		

T 411	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Tile / Mastic	White and yellow. Black mastic.	Assumed	0-5% Chrysotile	Good	V0070	2007		

T 416	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Tile / Mastic	Grey with black marks. Yellow mastic.	NON-ACM	ND	ND	S0064	2007		

T 418	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Sheet Flooring	Beige with round shapes	Confirmed	25-50% Chrysotile	Good	S0063	2007		

T 421	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Sheet Flooring	Beige with round shapes	Assumed	25-50% Chrysotile	Good	V0058	2007		

CONFIRMED AND ASSUMED ASBESTOS – TOANCHE 4th FLOOR

T 425	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Drywall / Joint Plaster	White	NON-ACM	ND	ND	S0062	2007		

T 426	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Plaster	Plaster White and Grey	NON-ACM	ND	ND	S0060	2007		

T 429	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Texture Coat	Grey	NON-ACM	ND	ND	S0061	2007		

T 433	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Tile / Mastic	Grey with black marks. Yellow mastic.	NON-ACM	ND	ND	S0059	2007		

T 437	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Sheet Flooring	Beige with brown squares	Confirmed	25-50% Chrysotile	Good	S0058	2007		

CONFIRMED AND ASSUMED ASBESTOS – TOANCHE 5th FLOOR

T 502	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Tile	White with black marks	NON-ACM	ND	ND	S0066	2007		

T 502A	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Tile	White with black marks	NON-ACM	ND	ND	S0066	2007		

T 502B	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Tile	White with black marks	NON-ACM	ND	ND	S0066	2007		

T 509	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Sheet Flooring	Beige with brown squares	Assumed	25-50% Chrysotile	Good	V0058	2007		

T 510	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Tile / Mastic	White and yellow. Black mastic.	Confirmed	0-5% Chrysotile	Good	S0077	2007		

T 513	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Tile / Mastic	White with black marks. Yellow mastic.	NON-ACM	ND	ND	S0075	2007		

CONFIRMED AND ASSUMED ASBESTOS – TOANCHE 5th FLOOR

T 514A	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Texture Coat	Grey	NON-ACM	ND	ND	S0074	2007		

T 519	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Sheet Flooring	Beige with beige squares	Confirmed	25-50% Chrysotile	Good	S0076	2007		

T 520	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Sheet Flooring	Beige with beige squares Assumed under new flooring	Assumed	25-50% Chrysotile	Good	V0076	2007		

T 521	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Sheet Flooring	Beige with beige squares Assumed under new flooring	Assumed	25-50% Chrysotile	Good	V0076	2007		

T 522	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Sheet Flooring	Beige with beige squares	Assumed	25-50% Chrysotile	Good	V0076	2007		

T 523	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Sheet Flooring	Beige with beige squares	Assumed	25-50% Chrysotile	Good	V0076	2007		

CONFIRMED AND ASSUMED ASBESTOS – TOANCHE 5th FLOOR

T 525	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Sheet Flooring	Beige with beige squares	Assumed	25-50% Chrysotile	Good	V0076	2007		

T 531	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Texture Coat	Grey	NON-ACM	ND	ND	S0067	2007		

T 540	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Sheet Flooring	Beige with brown squares	Assumed	25-50% Chrysotile	Good	V0058	2007		

T 541	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Sheet Flooring	Beige with brown squares	Assumed	25-50% Chrysotile	Good	V0058	2007		

CONFIRMED AND ASSUMED ASBESTOS – TOANCHE 6th FLOOR

T 604	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Floor	Beige and brown	NON-ACM	ND	ND	S0071	2007		

T 611	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Tile / Mastic	White and yellow. Black mastic.	Assumed	0-5% Chrysotile	Good	V0070	2007		

T 613	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Tile / Mastic	White and yellow. Black mastic.	Assumed	0-5% Chrysotile	Good	V0070	2007		

T 632	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Tile / Mastic	White and yellow. Black mastic.	Confirmed	0-5% Chrysotile	Good	S0070	2007		

T 646	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Plaster	Brown	NON-ACM	ND	ND	S0068	2007		

T 647	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Plaster	White	NON-ACM	ND	ND	S0069	2007		

CONFIRMED AND ASSUMED ASBESTOS – TOANCHE 6th FLOOR

T 648	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Vinyl Sheet Flooring	Beige with beige squares	Assumed	25-50% Chrysotile	Good	V0076	2007		

CONFIRMED AND ASSUMED ASBESTOS – TOANCHE PENTHOUSE

Pent house	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Plaster	White and brown	NON-ACM	ND	ND	S0072	2007		

Pent house	Building Component	Description	Asbestos Status	Asbestos Type	Condition	Sample Reference	Sample Date	Lab Report	Photo
	Drywall / Joint Plaster	White	NON-ACM	ND	ND	S0073	2007		

project:

Waypoint Centre for Mental Health Care
Additional Acute Mental Health In-Patient Beds
500 Church St, Penetanguishene

date:

February 21, 2024 @ 10:00 a.m.

page 1 of 2

firm	contact name	email	phone
1. COREBUILD CONSTRUCTION	PETER TIMM	estimating@ corebuildconstruction.com	416-509-7689
2. BIRD CONSTRUCTION	CANBIRD	CANBIRD@BIRD.CA	416-450-3261
3. NUTEMP MEDICAL SYSTEMS	Andrew Hill	ahill@nutemp.ca	916 726 8989
4. BIRD CONSTRUCTION	TIMMY LEUNG	TIMMY.LEUNG@BIRD.CA	647 539 4687
5. Bird Construction	Andrew Kusko	andrew_kusko@bird.ca	647 967 9926
6. WESTERN MECH JASON SARTAN	JASON SARTAN	JASON.SARTAN@WESTERNMECHANICAL.NET	705 333 4317

Contractor Registry

project:

Waypoint Centre for Mental Health Care
Additional Acute Mental Health In-Patient Beds
500 Church St, Penetanguishene

date:

February 21, 2024 @ 10:00 a.m.

page 1 of 2

firm	contact name	email	phone
7. Western Electrical	Gary Kimber	gkimber@westernmechanical.net	705-627-3754
8. High tech power	Benjamin	Benjamin@Htpelectricians.com	647 545 9421
9. HARBRUSCEAN CROSS LTD	JERRY ASH	BIOSEHARBRUSCEANROSS.COM	647-462-9170
10. BIRD CONSTRUCTION	Amy Ta	amy.ta@bird.com	(437)238-4466
11. MJ Dixon	Walter Li	estimating@mjdixon.ca	905-270-7770
12. Argos Central Plumber	Jose Berbeal	Over9660@gmail.com	289 936 2047