

project:	Scarborough Health Network Mental Health Inpatient Consolidation Pod 3A3030 Birchmount Road, Scarborough, ON	ADD:	01
MMC RFQ#:	CW29854	date:	2026-06-24
HJA project no:	24-20	page 1 of:	10 + attachments

This addendum forms part of the contract documents and is to be read, interpreted, and co-ordinated with all other parts. The cost of all contained herein is to be included in the stipulated bid price. The following revisions supersede the information contained in the original drawings and specifications issued for the above-named project to the extent referenced and shall become part thereof. Acknowledge receipt of this Addendum by inserting its number on the tender form. Failure to do so may subject bidder to disqualification.

1.0 GENERAL

- 1.1 PARKING** – Pay parking is available to the *Contractor* in the highlighted area of the pay lot below.



- 1.2 WASTE BIN LOCATION** – Locate waste bin in circled area below only. Allow for sufficient room within this space for garbage pickup. Do not block drive aisle.





- 1.3 STAGING AND STORAGE LOCATIONS** – No storage area on the site or outside of POD 3A is available for the Contractor's use for staging, storage and site office. The Contractor is limited to bringing in materials and equipment through the loading area, up to Pod 3A via Owner designated elevator. Note, the Owner may restrict material delivery and use of elevator to specific hours.

2.0 ALTERNATIVES (Refer to specification section 01 25 00 – Substitution Procedures)

2.1 Architectural

- .1 Resinous Flooring

Use of Sikafloor Quartzite HDB System is **not approved**. Use specified systems.

2.2 Mechanical

- .1 Not Used

2.3 Electrical

- .1 Not Used

3.0 ARCHITECTURAL GENERAL

3.1 Not Used

4.0 ARCHITECTURAL SPECIFICATION

4.1 Section 00 00 10 Table of Contents

- .1 **REISSUED** with this addendum. (2 pages)

4.2 Section 01 11 00 Summary of Work and General Conditions

- .1 **REVISE** item 1.5.1 to read: "14 one bed psychiatric intensive care unit (PICU) beds with ensuites.

- .2 **ADD** sub-section 18 to read:

"PERMITS

18.1 The Owner has applied and paid for the Building, HVAC and Plumbing Permits.

18.2 The Contractor will be responsible for applying and paying for all other permits, licenses, certifications, and inspections required by Authorities Having Jurisdiction including but not limited to Mag lock, sprinkler, and ESA permits."

4.3 Section 01 14 00 Work Restrictions.

- .1 **ADD** following sentences to end of 1.1.7 to read:

"Stair 1A is to be used only if use of elevator has been restricted by the Owner. Use this stair after hours only between 5:30pm to 7am. Contractor shall keep

stair 1A clear at all times to permit safe passage for occupants using this stair. Do not encumber stair with equipment and materials. Have supervisory staff present anytime this stair is used for construction access to ensure safe conditions are provided for occupants using the stair. Immediately clean stairs after such each use and as required during use to maintain safe conditions. Protect surfaces from damage and be responsible for repairing such damage per Section 01 73 00 Execution.

- .2 **REVISE** item 1.7.4 to read: "Work outside of restricted hours is subject to the approval of the Owner which may be granted on a case-by case basis"
- .3 **REVISE** hours indicated in item 1.8.1 to read "5:30pm to 7:30am"

4.4 Section 01 56 00 Temporary Barriers and Enclosures

- .1 **ADD** item 1.2.4 to read:
"Provide warning do not enter signs around all exterior fenced in areas erected"
- .2 **REVISE** Item 1.3.1 to read:
"Erect 6 feet (1.8m) high welded metal wire mesh modular construction fencing around all exterior work areas. Provide higher fencing if requested by authorities having jurisdiction"
- .3 **ADD** Item 1.3.3 to read:
"Erect safety rails along roof perimeter for any work on roof areas. Erect fencing or netting to prevent debris from:
 - .1 falling onto off the roof areas onto surfaces below.
 - .2 falling onto existing skylight."

4.5 Section 01 75 11 Testing of Integrated Fire Protection and Life Safety Systems

- .1 **REVISE** 1.1.1 to read: "Develop a testing plan and provide such testing of the integrated fire protection and life safety systems and related equipment in accordance with CAN/ULC-S1001 and this specification section."
- .2 **ADD** sentence to the end of 1.3.1.1 to read: "The ITC engaged by the Contractor shall be an independent 3rd party specialized in providing this service and not be a direct employee of the Contractor or Sub-Contractors."
- .3 **DELETE** the last sentence of 3.1.1.

4.6 Section 07 92 00 Joint Sealants

- .1 **CLARIFICATION:** Designation of sealant in drawings as "tamper resistant sealant" or such similar language shall mean Type INT4 Tamper resistant security sealant. Where such note on drawing refers to the sealant placed against glazing, it shall mean Type INT 5 Tamper resistant security sealant for glass.
- .2 **ADD** sentence at end of paragraph in 1.5.2 to read: "Manufacturer to submit test report to Consultant."

.3 **ADD** item 1.5.2.3 to read:

"Seams along wall base transition between resinous flooring and Altro Whiterock wall protection and between resilient flooring and Altro Whiterock wall protection to ensure there is full adhesion and no staining of these materials has resulted."

.4 **REVISE** item 2.2.5 to read:

"Sealant primers: Use primers on all surfaces on which Type INT 4 and INT 5 sealants will be applied onto. Use primers where recommended by sealant manufacturer of all other specified sealant types.

Use only primers recommended by sealant manufacturer for each sealant type to enhance adhesion of sealant to specific joint substrates indicated and as determined for use from pre-construction mock-up testing. Select primers in consultation with sealant manufacturer and manufacturer of substrate material which do not have a detrimental effect on sealant adhesion or in-service performance.

Use P-120 primer by Percora when applying Type INT 5 sealant onto Altro Whiterock, resinous flooring and resilient flooring substrates."

.5 **REVISE** item 3.6.6.4 to read:

"All Patient washrooms including at plumbing fixtures, door frames, and transition between Altro Whiterock wall protection and epoxy cove base."

4.7 Section 08 34 00 Special Function Doors

.1 **ADD** specification section issued with this addendum. (4 pages)

4.8 Section 08 80 16 Interior Glass and Glazing

.1 **REVISE** 2.1.1.3.1.4 to read:

"GLF-1 film in Section 08 87 00. Provide film on patient side. Where patients are on both sides, provide film on both sides."

.2 **REVISE** 2.1.2.3.1.4 to read:

"GLF-1 film in Section 08 87 00. Provide film on patient side. Where patients are on both sides, provide film on both sides."

.3 **REVISE** 2.1.3.1 to read:

"GLF-1 film in Section 08 87 00. Provide film on patient side. Where patients are on both sides, provide film on both sides."

4.9 Section 08 87 00 Applied films

.1 **ADD** new item 1.3 to read:

"Related Sections

.1 08 80 16 Interior Glass and Glazing – Glass to receive film

- .2 **REVISE** current numbering for items 1.3 to 1.7 to "1.4 to 1.8"
- .3 **ADD** 2.1.1.2 for read:
Roll Width: as required to permit installation without seams
- .4 **ADD** 2.1.1.3 for read:
Acceptable product: 3M Scotchshield Ultra S800 or approved equal

4.10 Section 08 88 16 Vision Control Insulating Glass Units

- .1 **REVISE** 1.2.2 to read:
 - .1 Section 08 11 13 Steel Door and Frames – Openings to accommodate vision control units
- .2 **REVISE** 2.2.2.1 to read:
Patient Side – 3/4" Polycarbonate: ANSI Z97.1; plastic compound, ultraviolet stabilized, non-yellowing, abrasion resistant coated.
- .3 **REVISE** 2.2.2.1 to read:
Patient Side – 3/8" Polycarbonate: ANSI Z97.1; plastic compound, ultraviolet stabilized, non-yellowing, abrasion resistant coated.

4.11 Section 09 21 16 Gypsum Board Assemblies

- .1 **ADD** 2.2.3.3 to read:
"Acceptable product: Sheetrock Brand Mold Tough VHI Firecode X Panels by CGC or approved equal"

4.12 Section 09 65 16 Resilient Sheet Flooring

- .1 **REISSUED** with this addendum. (12 pages)

4.13 Section 09 67 23 Resinous Flooring

- .1 **REISSUED** with this addendum. (11 pages)

4.14 Section 09 91 10 Painting

- .1 **REVISE** item 1.4.3 to read:
 - .1 "Samples: Submit 2 draw down samples, 12"x12" in size and sheen of each colour specified for each paint product. The Contractor shall provide, if requested by the *Consultant*, alternate colours and sheen in addition to those specified. Contractor shall incorporate alternate colours and sheen if selected by the Consultant at no additional cost to the Project."

.2 **REVISE** item 2.1.1.1 to read:

- .1 "Type 1 – Interior Wall and Ceilings: Promar 200 HP Zero VOC Interior Acrylic by Sherwin Williams, Dulux Anti Scuff, or approved equal"

Type 2 – Interior HM Door Leaf and Metal Frame: Pro Industrial Pre-Catalyzed Water Based Epoxy by Sherwin Williams, Pitt-Glaze WB1 High Performance Pre-catalyzed Waterborne Epoxy by Dulux/ PPG, or approved equal.

Refer to Architectural Drawings for product requirements for other specific substrates. Where a paint product has not been indicated for a specific surface, provide manufacturer's top line zero or low VOC product from approved products list of the MPI manual for all other painted surfaces.

.3 **REVISE** item 2.1.1.3 to read:

- .1 "All paint material used on this Project shall be from a single paint manufacturer unless a product type such as a specialized coating is not offered by the manufacturer. In such instances, use alternate manufacturer approved by the *Consultant*."

4.15 Section 10 26 13 Wall Protection

- .1 **ADD** item 1.3.4 to read: "Section 09 67 23 Resinous Flooring: Floor to wall overlap transition."
- .2 **ADD** sentence to the end of 1.7.1.1 to read: "Installer of the WR series wall protection shall have attended full training program at the Altro Academy."
- .3 **REVISE** item 3.3.6.5 to read: "Overlap wall panel 100mm (4")) where installed over resinous flooring cove and 50mm (2") overlap where installed over resilient sheet flooring cove. Adhere panel to coves in accordance with manufacturer's instructions. Apply continuous bead of type INT4 sealant specified in Section 07 92 00 along bottom exposed edge of wall panel."

4.16 Section 10 28 00 Washroom and Janitor Accessories

- .1 **REVISE** item 1.4.4.1 to read: "Construct a mock-up installation of all washroom accessories in a 1 Bed PICU patient room and ensuite. Location to be determined by the *Consultant*."

4.17 Appendix A – Hardware Schedule

- .1 **Electric Hardware and Related Items, List of Product and Service Responsibilities**
- .1 **REISSUED** with this addendum for clarification. [Original 7-page document replaced with revised 8-page document.]

5.0 ARCHITECTURAL DRAWINGS

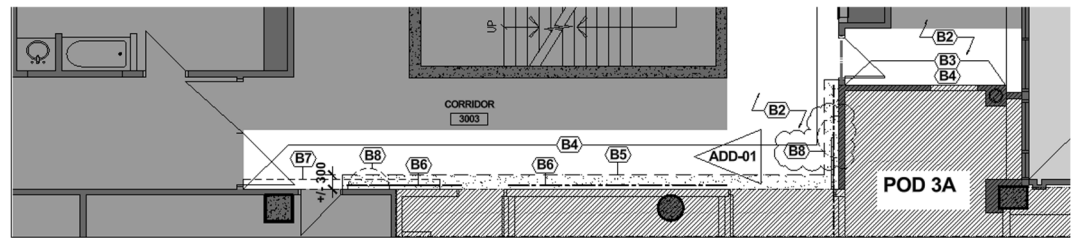
5.1 A-000 COVER

- .1 **ADDED A SHEET** – A new sheet is added to the Architectural Drawing List. See sketch below: -

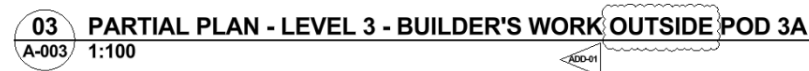
A-700	MISCELLANEOUS DETAILS	
A-701	MISCELLANEOUS DETAILS	
A-702	MISCELLANEOUS DETAILS	ADD-01

5.2 A-003 (LEVEL SD) HOARDING; (LEVEL 4) DISRUPTION PHASING; (LEVEL 3) BUILDER'S WORK OUTSIDE POD 3A

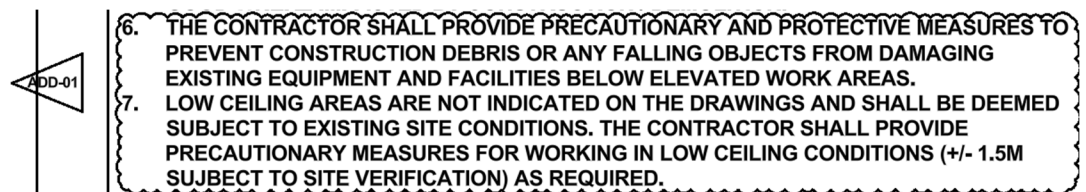
- .1 **ADDED KEY NOTE CALLOUT** – An additional callout for keynote B8 on drawing 03/A-003. See sketch below: -



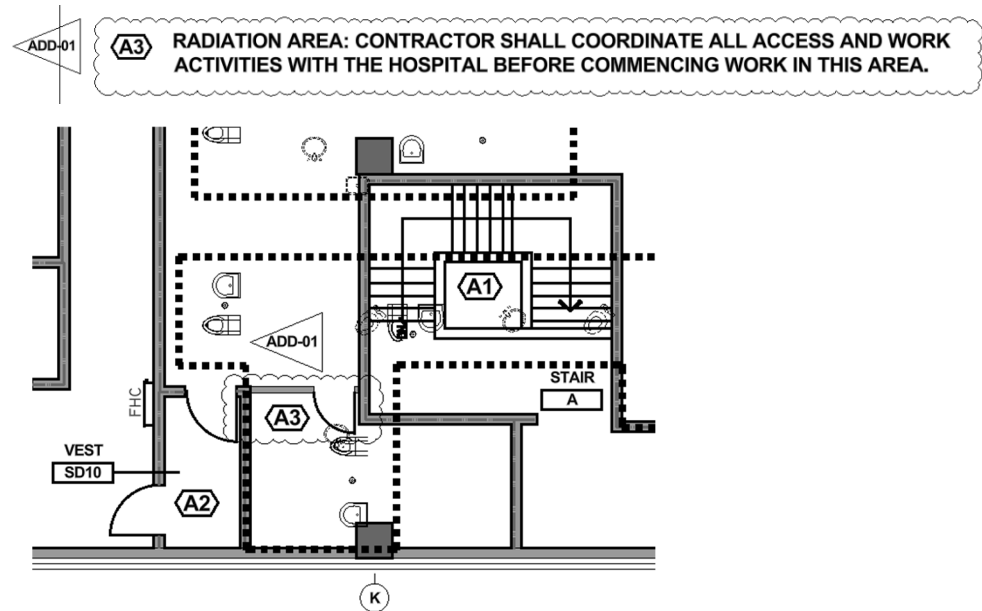
- .2 **CORRECTED TYPO** – Typo corrected in the title on drawing 03/A-003. See sketch below: -



- .3 **NEW NOTE** – New general note 6 and 7 added to drawing 05/A-003. See sketch below: -

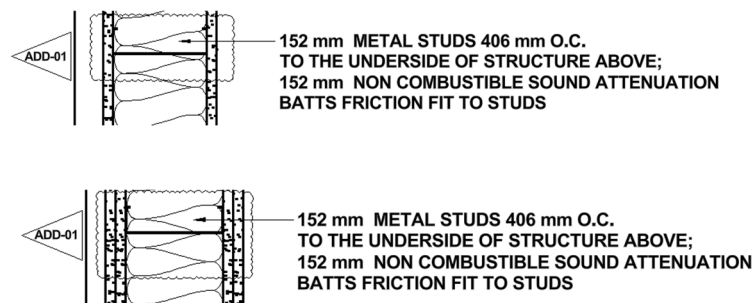


- .4 **NEW NOTE AND CALLOUT** – Existing layout updated to show the existing door and partition, with new Keynote A3 added to drawing 01/A-003. The corresponding keynote A3 legend also added on drawing 05/A-003. See sketch below: -



5.3 A-004 PARTITION ASSEMBLIES

- .1 **REVISED GRAPHICS** – Metal stud is added to illustrative representation of partition type P8, P9, P10 and P11. See sketch below: -



- .2 **REVISED NOTE** – General note 11 on drawing 05/A-004 revised for clarity.

11. GYPSUM BOARD IN AREAS THAT ARE ACCESSIBLE BY PATIENT SHALL BE IMPACT RESISTANT TYPE FOR ABUSE RESISTANCE TO SURFACE ABRASION, INDENTATION AND IMPACT DAMAGE. IMPACT RESISTANT GYPSUM BOARD USED IN FIRE-RATED ASSEMBLIES SHALL MAINTAIN THE REQUIRED FIRE-RESISTANCE RATING OF THE ASSEMBLY. AREAS ACCESSIBLE TO PATIENTS INCLUDE ALL SPACES WITHIN AREA OF WORK EXCEPT THE FOLLOWING AREA. REFER ALSO TO DRAWING 04/A-004 FOR DEMARCATION.

5.4 A-200 CONSTRUCTION PLAN – LEVEL 3 (POD 3A)

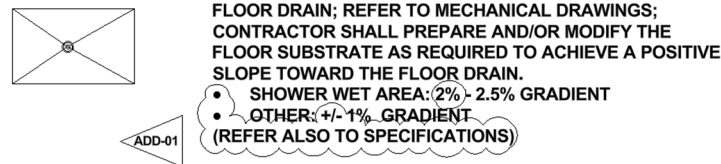
- .1 **RE-ISSUED** sheet with this addendum. Major updates include addition of dimensions, callout, notes and partition types for clarification.

5.5 A-201 REFLECTED CEILING PLAN - LEVEL 3 (POD 3A)

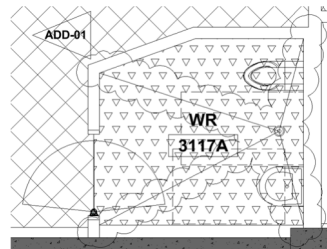
- .1 **RE-ISSUED** sheet with this addendum.

5.6 A-202 FLOOR FINISHES PLAN LEVEL 3 (POD 3A)

- .1 **REVISED NOTE** – The note for floor drain on drawing 03/A-202 is revised for clarification. See sketch below: -



- .2 **REVISED NOTE** – Illustrative representation of slope-to-drain added to Room 3117A on drawing 01/A-202. See sketch below: -



5.7 A-203 WALL FINISHES PLAN LEVEL 3 (POD 3A)

- .1 **RE-ISSUED** sheet with this addendum.

5.8 A-500 DOOR SCHEDULE

- .1 **RE-ISSUED** sheet with this addendum.

5.9 A-501 GLAZED SCREEN SCHEFDULE & PATIENT ROOM DOOR VISION PANEL

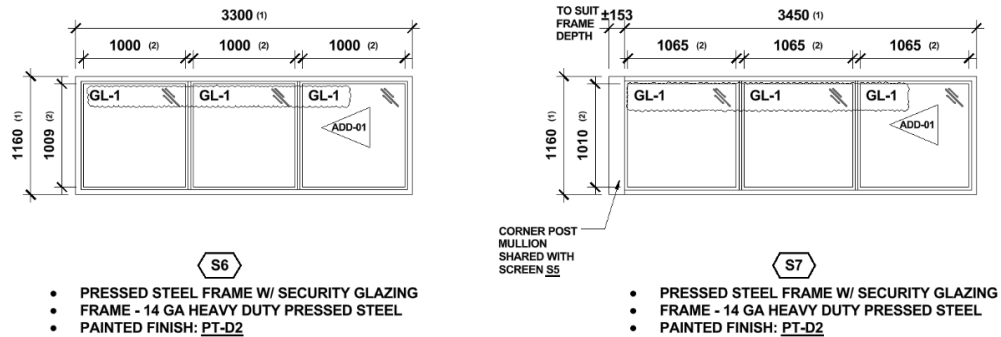
- .1 **NEW NOTE** – A new note, as described in the sketch below, added to drawing 10/A-501 & 11/A501.



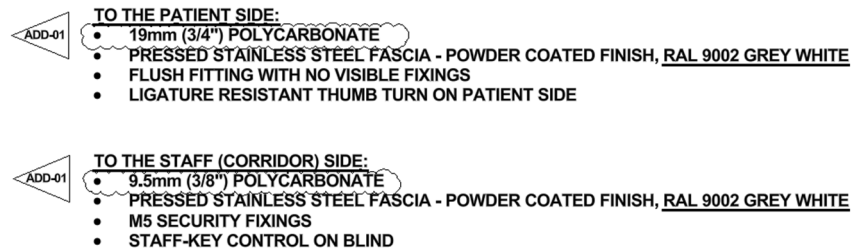
- .2 **REVISED NOTE** – General note revised as follows on drawing 1/A-501.

11. THE EXPOSED SURFACE OF THE STEEL FRAME SHALL BE FACTORY PRIMED TO RECEIVE PAINTED FINISH. REFER TO DRAWING 04/A-500 FOR LEGEND OF PAINTED FINISH COLOUR.

- .3 **REVISED GLAZING TAG** – Glazing type for Glazed Screen Type S6 and S7 changed from GL-8 to GL-1 on drawing 06-A501. See sketch below: -



- .4 **REVISED GLAZING TYPE** – Glazing type for Duralux Secure Vision Panel by Kingsway Group is revised on drawing 11/A501. See sketch below: -



5.10 A-700 MISCELLANEOUS DETAILS

- .1 **RE-ISSUED** sheet with this addendum.

5.11 A-701 MISCELLANEOUS DETAILS

- .1 **RE-ISSUED** sheet with this addendum.

5.12 A-702 MISCELLANEOUS DETAILS

- .1 **NEW SHEET** issued with this addendum.

6.0 MECHANICAL ADDENDUM (SEE ATTACHED ADD# M-01)

7.0 ELECTRICAL ADDENDUM (SEE ATTACHED ADD# E-01)

end of addendum

Prepared by:

Angela Chan, OAA

hanson + jung architects inc.

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MECHANICAL – Refer to Mechanical Drawings for specifications

ELECTRICAL - – Refer to Electrical Drawings for specifications

APPENDIX A Hardware Schedule

END OF SECTION

SPECIAL FUNCTION DOORS

PART 1 GENERAL

1.1 General Requirements

- .1 Work of this Section, as shown or specified, shall be in accordance with the requirements of the Contract Documents.

1.2 Section Includes

- .1 Work of this Section includes all labor, materials, equipment, and services necessary to complete the special function doors as shown on the drawings and/or specified herein, including, but not necessarily limited to, the following:
 - .1 Barricade resistant door assemblies
 - .2 Ligature Resistant Bathroom Door Assemblies

1.3 Related Sections

- .1 08 88 16 Vision Control Insulated Glass – Vision unit insert in Barricade resistant door assemblies

1.4 Quality Assurance

- .1 Provide assembly compliant to UL-1784 Standard for Air Leakage Tests of Door Assemblies and Other Opening Protectives.
- .2 Doors to be pre-assembled with all hardware prior to arriving onsite.
- .3 Doors to be pre-assembled with all hardware prior to arriving onsite and using Pin Torx-security fasteners.

1.5 Submittals

- .1 Product Data – Submit:
 - .1 Materials list of items proposed to be provided under this Section.
 - .2 Manufacturer's specifications, cut sheets and other data needed to prove compliance with the specified requirements.
- .2 Shop Drawings: Provide shop drawings in sufficient detail to show fabrication, installation, anchorage, and interface of the work of this Section with the work of adjacent trades.
- .3 Manufacturer's recommended installation procedures.

SPECIAL FUNCTION DOORS

1.6 Product Handling

- .1 Protection: Use all means necessary to protect the materials of this Section before, during, and after installation, and to protect the installed work and materials of all other trades.
- .2 Replacements: In the event of damage, immediately make all repairs and replacements necessary.
- .3 Provide 1-year warranty on complete door assembly.

PART 2 PRODUCTS

2.1 Barricade Resistant Door Assemblies

- .1 SWING Anti-Barricade Doorset by Kingsway Group, Inc. 1521 E. Avis Dr, Madison Heights MI 48071.
 - .1 Complete doorset delivered in three sections: door assembly, frame assembly, and emergency stop assembly. The door assembly shall be coordinated and factory-prepared to receive the specified hardware, whether supplied by Kingsway Group or by Others.
 - .2 Door assembly consisting of solid core wood door, ligature resistant mortise lockset, mortise cylinder, double acting hinge with 105-degree opening, and privacy vision panel operated by oval-drive staff key which also operates anti-barricade stop.
 - .3 Frame assembly to be constructed of minimum 14-gauge mild steel, having single-rabbet strike jamb to coordinate with anti-barricade stop, flush hinge jamb, and flush header.
 - .4 Emergency stop assembly to consist of hinged stop with two locking points on jamb, operated by oval drive staff key.
 - .5 Hardware:
 - .1 Double acting continuous hinge: KG202C SwingHinge double acting continuous hinge by Kingsway Group
 - .2 Ligature Resistant Mortise Lockset: Refer to Section 08 71 00.
 - .3 Mortise Cylinder: Refer to Section 08 71 00.
 - .4 Privacy Vision Panel: Duralux secure vision panel by Kingsway Group; Product Code: D8050.AC.PC01; Refer to Section 08 88 16.
 - .5 Anti-barricade Stop: Kingsway SwingStop anti-barricade aluminum stop with two locking points by Kingsway Group; Product Code: KG207N.
 - .6 Concealed Closer: KG35 Double Action Transom Closer by Kingsway Group for use with KG202C double acting continuous hinge.

SPECIAL FUNCTION DOORS

- .7 Kick Plate: KG110 with custom height on both sides of door. Refer to dwg. A-500 for height.
- .8 Key: Supply a total of twenty-one (21) oval drive staff keys and six (6) stainless steel T-handle keys to operate the keyed-alike anti-barricade stops and privacy vision panel.
- .6 Construction: Door to be made having a solid core and hardwood stiles, FORTUS Core (FSC Approved tri-laminated hardwood). Assembly to be completed with Pin Torx Security Fasteners throughout.
- .7 Finish: As selected by architect from selections offered by Kingsway Group.
- .2 SHOWER Flex™ Ligature Resistant Bathroom Doorset by Kingsway Group, Inc. 1521 E. Avis Dr., Madison Heights 48071; (800) 783-7980.
 - .1 Complete doorset delivered in two sections: door assembly, frame assembly.
 - .2 Door assembly consisting of solid 1/8" EnduraFlex door with Spinnaker shape & double acting hinge with 84-degree opening. Hinge extends equal distance above and below door slab, with internal blocking to reduce ligature attachment.
 - .3 Frame assembly to be constructed of minimum 14-gauge mild steel, flush jambs and header to coordinate with continuous hinge of door assembly.
 - .4 Door Hardware:
 - .1 Double acting continuous hinge: MEGA Hinge, double acting continuous hinge by Kingsway Group
 - .2 Part Numbers:
 - .1 SFD01: SHOWER doorset with solid color leaf and primed metal frame
 - .5 Construction: Door & hinge to be made of solid construction, with combination of high-quality stainless steel, powder coated aluminum, and polycarbonate components. Assembly to be completed with Pin Torx Security Fasteners throughout.
 - .6 Finish: To be selected by Architect. Contact Kingsway for full list of options.

PART 3 EXECUTION

3.1 Inspection

- .1 Examine the areas and conditions where special function doors are to be installed and correct any conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions are corrected to permit proper installation of the work.

SPECIAL FUNCTION DOORS

3.2 Installation

- .1 Coordinate as required with other trades to ensure proper and adequate provision in the work of those trades for interface with the work of this Section.
- .2 Install the work of this Section in strict accordance with the original design, the approved Shop Drawings, pertinent requirements of governmental agencies having jurisdiction, and the manufacturer's recommended installation procedures.

END OF SECTION

RESILIENT SHEET FLOORING

PART 1 GENERAL

1.1 Section Includes

- .1 Self-leveling underlayment over concrete floor substrate
- .2 Resilient Vinyl Sheet Flooring systems and Integral Cove Base.

1.2 Related Sections

- .1 Section 07 92 00 Sealants – Installation of tamper resistant sealant
- .2 Section 10 26 13 Wall Protection: Floor to wall overlap transition

1.3 Extent of Topping and Self-Levelling Work and Quantities

- .1 Provide latex, modified cementitious floor leveller in all rooms to receive resilient flooring. Allow coverage for 100% of floor area to create smooth even surface. Leveller product shall be compatible as an underlayment for the flooring specified. Feather leveller to allow installed resilient sheet flooring to meet elevation of adjacent finishes to remain such as at corridors and ensuites.
- .2 Provide a high ridge under door of ensuite. Slope topping minimum 915mm (3'-0") on each side of ridge back into respective rooms
- .3 Provide high ridge along edge of shower and remainder of room in BF Shower room 3133. Build up topping to slope to drain within shower. Slope topping from high ridge back into room outside of shower. See drawings for percent slope to be provided.

1.4 References

- .1 User latest edition of references below.
- .2 ACI 302.2 Guide for Concrete Slabs that Receive Moisture-Sensitive Flooring Materials
- .3 ASTM D2047 – Standard Test Method for Static Coefficient of Friction of Polish Coated Flooring Surfaces as Measured by the James Machine
- .4 ASTM E648 – Standard Test Method for Critical Radiant Flux of Floor Covering Systems using a Radiant Heat Energy Source
- .5 ASTM E84 – Test Method for Surface Burning Characteristics of Building Materials.
- .6 ASTM F137 – Standard Test Method for Flexibility of Resilient Flooring

RESILIENT SHEET FLOORING

- .7 ASTM F710 – Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring
- .8 ASTM F925 – Standard Test Method for Resistance to Chemicals of Resilient Flooring
- .9 ASTM F970 – Standard Test Method for Measuring Recovery Properties of Floor Covering after Static Loading
- .10 ASTM F1514 – Standard Test Method for Measuring Heat Stability of Resilient Flooring by Colour Change.
- .11 ASTM F1515 – Standard Test Method for Measuring Light Stability of Resilient Flooring by Colour Change
- .12 ASTM F1869 – Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride.
- .13 ASTM F1913 – Standard Specification for Sheet Vinyl Floor Covering without Backing.
- .14 ASTM F1914 – Standard Test Methods for Short Term Indentation and Residual Indentation of Resilient Floor Covering
- .15 ASTM F2170, Standard Method for Determining Relative Humidity in Concrete Floor Slabs Using in Situ probes.
- .16 BS EN 1815 Resilient, modular mechanical locked floor coverings (MMF) and laminate floor coverings. Assessment of Static Electrical Propensity.
- .17 CAN ULC S-102.2 – Standard Method of Test for Surface Buring Characteristics of Flooring, Floor Coverings, and Miscellaneous Materials and Assemblies
- .18 CSA-A23.1-09/A23.2-09 - Concrete Materials and Methods of Concrete Construction/Test Methods and Standard Practices for Concrete.
- .19 ISO 4918 – Resilient, textile and laminate floor coverings – castor chair test
- .20 ISO 10581 – Resilient Floor Coverings – Homogeneous poly (vinyl chloride) floor covering – specifications
- .21 (RFCI) Resilient Floor Covering Institute
 - .1 RFCI Standard Slab Moisture Test Method (Calcium Chloride Method) as a supplementary test method to ASTM F2170
- .22 RFCI Recommended Work Practices for Removal of Resilient Floor Covering

RESILIENT SHEET FLOORING

1.5 Submittals

- .1 Product Data: Provide data for all specified products, describing physical and performance characteristics;
- .2 Samples:
 - .1 Submit two 12" x 12" samples of flooring in colour and pattern specified.
 - .2 Submit two 12" long samples of cover former, preformed outer corners, cap trim, welding rods of each colour

1.6 Mock ups

- .1 Provide mock ups as follows:
 - .1 One full room mockup of topping and underlayment installation in patient room and ensuite at location designated by *Consultant*.
 - .2 one full room mockup of completed resilient flooring installation in patient room including ensuite at location designated by *Consultant*.
- .2 Mockup will be assessed for compliance with this specification with special emphasis on quality of smoothness of substrate, adhesion and seaming.
- .3 Arrange review meeting with Consultant to be attended by Contractor, Consultant, Flooring installer, and Flooring Manufacturer. Flooring manufacturer to submit a report.
- .4 Modify installation to address comments raised during the mockup meeting.
- .5 Accepted mockup may be incorporated into the Work.

1.7 Regulatory Requirements

- .1 Conform to Ontario Building code for flame/smoke rating requirements in accordance with ASTM E84.

1.8 Quality Assurance

- .1 Installer Qualifications:
 - .1 Awarded flooring contractor must be able to provide recent Healthcare project experience
 - .2 Awarded flooring contractor must use in-house installers.
 - .3 Installers shall be experienced in performing work of this section within an operational Hospital environment. The installer and the job foreman shall have minimum 5 years experience in the installation of work similar to that required by this project
- .2 Pre-installation Meeting: Conduct pre-installation meeting to verify project requirements, substrate conditions, manufacturer's installation instructions, manufacturer's warranty requirements, and installer qualifications. The meeting

RESILIENT SHEET FLOORING

shall be attended by the Construction Manager, flooring manufacturer, and flooring installer.

.3 Concrete Moisture Test:

- .1 Perform moisture level tests using test method such as those identified in ASTM F1869 OR ASTM F2170 or as otherwise recommended by the flooring and underlayment manufacturers to ascertain the moisture level in the substrate is within the acceptable range required by the underlayment and flooring manufacturers for installation of the specified material.
- .2 Carryout 1 test minimum in each room. Allow for 1 additional tests if required until results are outside of the acceptable range.
- .3 Perform tests prior to installation of self-leveling compound. Do not proceed with installation of self-leveling compound until results of tests are within acceptable range of both self-leveling compound and flooring manufacturers.

.4 Bond Test:

- .1 Once self-leveling compound has fully cured, install 3' x 3' pieces of material adhered with the appropriate adhesive to verify quality of adhesion. Remove half of each piece after 24 hours, then the other half after 48 hours. To help assess resistance to indentation, place end user equipment onto a sample for 72 hours. Document all results. Provide results to Consultant.
- .2 Perform one bond test on each floor.
- .3 Redo bond tests if satisfactory results are not attained with prior test as determined by Consultant or Owner.

.5 pH Test:

- .1 Perform alkalinity test on concrete floor. Results shall be between 7 and 9.

DO NOT PROCEED WITH INSTALLATION UNTIL FLOORING MANUFACTURER AND FLOORING INSTALLER IS SATISFIED THAT THE FLOORING CONDITION AND TEST RESULTS IN THE AREA OF WORK IS ACCEPTABLE TO RECEIVE THE FLOORING. COMMENCEMENT OF INSTALLATION WILL BE DEEMED ACCEPTANCE OF CONDITIONS BEING SUITABLE FOR APPLICATION OF THE FLOORING PRODUCT.

1.9 Ordering, Delivery, Storage, and Handling

- .1 Ordering: Comply with manufacturer's ordering instructions and lead time requirements to avoid construction delays.
- .2 Deliver, store, protect and handle products to site.
- .3 Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.

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- .4 Protect roll materials from damage by storing on end.

1.10 Environmental Requirements

- .1 Temperature Requirements: If storage temperature is below 65F (18C) or the floor temperature is below 50F (18C), move flooring product to a warmer place and allowed to reach this temperature before unrolling or installation. For further information, refer to flooring manufacturer's current Installation Practices.
- .2 Maintain air temperature and structural base temperature at flooring installation area between 65F (18C) and 81F (27C) for 48 hours before, during and 24 hours after installation.
- .3 Store materials for three days prior to installation in area of installation to achieve temperature stability.
- .4 Maintain ambient temperature required by adhesive manufacturer three days prior to, during, and 24 hours after installation of materials.

1.11 Maintenance Data

- .1 Maintenance Data: Include maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning, stripping, and re waxing.

1.12 Maintenance Material

- .1 Deliver to Owner extra materials from same production run as products installed. Package products with protective covering and identify with descriptive labels. Store where directed by the Owner.
 - .1 One full roll (20m) where one colour is used on the project
 - .2 5m roll of each colour where more than one colour is used on the project.

1.13 Sequencing and Scheduling

- .1 Finishing Operations: Install flooring after finishing operations, including painting and ceiling operations, have been completed.
- .2 Concrete Substrate: Do not install floor leveller underlayment over concrete substrates until substrates have been tested for bond strength, moisture, and pH to ensure the substrates are within the flooring manufacturer's required range. testing.

1.14 Warranty

- .1 Warrant product and installation from delamination, cracking, separation of welded joints, staining and fading for an extended warranty period of 1 year for a total warranty period of 2 years. Warranty shall include full material, equipment, and labour costs associated with the repairs.

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- .2 Provide Manufacturer's product warranty

PART 2 PRODUCTS

2.1 Materials: Sheet Flooring

- .1 Sheet Vinyl flooring and integral cove base: Comply with ASTM F1913 and ISO 10581 Type 1.
 - .1 Acceptable Products: Refer to Floor Finishes Schedule in drawings.
- .2 Primer
 - .1 Per recommendation of flooring manufacturer for floor and wall substrates
- .3 Adhesives
 - .1 Two part urethane, high strength, low-emitting, high moisture tolerant adhesive.
 - .1 Acceptable product: 975 Two-Part Urethane adhesive by Tarkett
- .4 Rubber base for installation on round columns in lieu of integrated cove base. Refer to drawings for product.
- .5 Accessories:
 - .1 Vinyl welding rod: 4mm diameter for hot welding to produce seamless flooring.
 - .1 Acceptable product: Welding Rods by Tarkett; colour to match specified flooring
 - .2 Cove former:
 - .1 PVC extrusions; 40mm ; Product: PA 40 by Tarkett
 - .2 PVC preformed external corners – External Clean Room Corner by Tarkett
 - .3 Cap strip: PVC extrusions
 - .1 Without wall protection above: SCC-XX-D with self stick tape by Johnsonite . Colour to later selection by *Consultant* from manufacturer's entire range.
 - .2 With wall protection above: Refer to floor to wall transition detail

2.2 Patching, Topping and Self- Leveling Compounds

- .1 Use only products from the same manufacturer
- .2 Patching compound: for use to fill cracks and minor surface variations in existing concrete slab. Polymer modified, fibre reinforced cement-based.
 - .1 Acceptable material: Plani Prep SC by Mapei or Approved Equal

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- .3 Topping Mortar – accelerated-cured screed mortar for creation of slopes and high ridges in flooring. One component, shrinkage compensated, polymer modified, fast setting cementitious mortar. Do not use where feathering to zero is required.
 - .1 Acceptable Material: Topcem Premix by Mapei or Approved Equal for use where depth of screed is not less than 6mm
 - .2 Acceptable Material: Mapecem Quickpatch by Mapei or approved equal for use where depth of screed is feathered to 1.5mm (1/16")
- .4 Self Leveling compound: Quick setting, self-curing, self leveling gray Portland cement-based underlayment. Use for filling deep areas, holes, or cracks in concrete slab. Moisture resistant, silicate free, Portland cement based or blended hydraulic-cement-based formulation.
 - .1 Cured density: 122 lbs per cu ft (1.95 kg per L)
 - .2 pH of wet mixture: 11
 - .3 VOC content 0g per L
 - .4 Compressive strength – ASTM C109 Modified:
 - .1 7 days >3,150 psi (21.7 MPa)
 - .2 28 days > 5,000 psi (34.5MPa)
 - .5 Flexural strength – ASTM 348 (CAN/CSA-A23.2-8C):
 - .1 28 days >1,070 psi (7.38 MPa)
 - .6 Pull out strength – ASTM C1583: > 450 psi (3.10 MPa)

Acceptable product Ultraplan 1 plus by Mapei or Approved Equal.
- .5 Primer: solvent free, one component, water-based acrylic primer used before the installation of underlayment, low odor and low VOCs.

Acceptable material: Primer L by Mapei or Approved Equal.
- .6 White gypsum materials are not acceptable.

PART 3 EXECUTION

3.1 Examination

- .1 Examine substrate and prepare to receive underlayment in accordance with ASTM F710
- .2 Verify concrete floors are dry to a maximum moisture content acceptable to flooring manufacturer, floor leveler manufacturer, and exhibit negative alkalinity, carbonization, or dusting.

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- .3 Verify room and slab temperatures are within range as specified and required by underlayment and flooring manufacturers.
- .4 Verify floor and wall substrate condition and material are:
 - .1 Ensure substrates have been provided without holes, protrusions, cracks greater than 1.6 mm (1/16") wide, unfilled control joints, depressions greater than 3 mm (1/8") deep, or other major defects.
 - .2 suitable for product installation in accordance with manufacturer's instructions.
 - .3 are free of substances that may impair adhesion and curing materials provided under this section.
- .5 Commencement of work of this section denote acceptance of substrate conditions. Defective work resulting from application to unsatisfactory surfaces will be considered the responsibility of those performing the work of this section.

3.2 Preparation

- .1 Comply with recommendations of ASTM F710-08.
- .2 Adjacent Surfaces Protection: Protect adjacent work areas and finish surfaces from damage during product installation.
- .3 Verify that substrates are dry and free of curing compounds, sealers, and hardeners.
- .4 Remove substrate coatings, adhesive residue and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, using mechanical methods recommended by manufacturer. Do not use solvents.
- .5 Alkalinity and adhesion testing: Perform tests and proceed with installation only after substrates pass testing. Document tests performed and submit in writing to *Consultant*.
- .6 Fill cracks, holes, and depressions in substrates with trowel-applied levelling and patching compound and remove bumps and ridges to produce a uniform and smooth substrate.
- .7 Remove chalking and dusting from concrete surfaces with wire brushes.
- .8 Prohibit traffic until filler is cured.
- .9 Sweep and vacuum clean substrates to be covered materials of this section immediately before installation.

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3.3 Installation – Patching, Topping, and Self-Leveling Underlayment Compounds

- .1 Mix material to patching, topping and self-levelling consistency in accordance with manufacturer's instructions
- .2 Fill any deep areas, holes and cracks in existing slab with patching compound.
- .3 Apply primer over entire concrete substrate once patching compound has cured.
- .4 Build ridges and slopes identified in 1.3.2 and 1.3.3 of this specification section with topping mortar.
- .5 Apply self-leveling underlayment over entire floor surface to fill minor or local low spots, cracks, joints, holes, and other defects to achieve smooth, flat, hard surface.
- .6 Place to minimum 3mm thickness and maximum 12.7 mm thickness over one pass.
- .7 Do not install self-leveling over expansion joints
- .8 Where flooring adjoins thicker floor materials, apply epoxy levelling screed, feather out to make up difference in level between materials.
- .9 Air cure in accordance with self-leveling manufacturer's instructions.

3.4 Installation – Sheet Flooring

- .1 Do not commence with flooring installation until self-leveling compound has fully cured.
- .2 Install in strict accordance with manufacturer's written instructions.
- .3 Mix the 2 part adhesive in strict accordance with manufacturer's instructions. Apply adhesive uniformly as soon as mixed. Spread only enough adhesive to permit installation of materials before initial set. Wait required time period for adhesive to set prior to laying sheet flooring material.
- .4 The flooring must be installed into wet adhesive. Adhesive transfer to the flooring is critical to a successful installation. Do not slide flooring into place, this will force adhesive through seams. Work off flooring to prevent adhesive displacement and shifting of sheet.
- .5 Overlap edges of sheet vinyl so all seams can be double cut to ensure a tight fit. Alternate sheets should be reversed to ensure better appearance.
- .6 Set flooring in place, roll in both directions using a 100 pound 3 section roller to attain full adhesion.

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- .7 Lay flooring with joints and seams in accordance with seaming plan. Lay seams parallel to building lines to produce minimum number of seams. Lay sheet flooring centered in corridors, with equal sized sheet to either side of center sheet. Weld all joints.
- .8 Install sheet flooring parallel to length width of room. Provide minimum of 1/3 full roll width. Double cut sheet; provide continuously heat welded seal at all seams.
- .9 Terminate flooring at centerline of door openings where adjacent floor finish is dissimilar.
- .10 Install edge strips at unprotected or exposed edges, and where flooring terminates. Secure resilient strips by adhesive.
- .11 Scribe flooring to walls, columns, cabinets, floor outlets, and other appurtenances to produce tight joints.
- .12 Install flooring in pan type floor access covers. Maintain floor pattern.
- .13 Install feature strips, edge strips, and floor markings where indicated. Fit joints tightly.
- .14 Substrate and joints shall not telegraph through sheet flooring. Flooring installation shall be homogenous free of substrate lines, pockets, bumps and unevenness.
- .15 Heat-welded seams:
 - .1 Weld seams in accordance with ASTM F1516-08.
 - .2 Wait minimum of 24 hours after flooring installation before grooving and heat welding seams.
 - .3 Prepare, weld, and trim seams to produce flat surfaces flush with adjoining floor covering surfaces.
 - .4 Rout joints to approximately 2/3 of the thickness of the material and use welding bead to permanently fuse sections into a seamless floor covering. Groove shall be between 3 mm (0.118") and 3.5 mm (0.138") wide.
 - .5 Using a weld plate and skiving knife to make first cut and allow weld rod to fully cure to room temperature.
 - .6 Using a skiving knife only, finish the trimming of the remainder of the weld. The finish should be smooth and on the same level as the flooring.
 - .7 Trimming of welded joint while warm is not permitted unless final trimming is performed after weld has cooled to flooring temperature. Excess weld shall be removed using a heated standard putty knife.
 - .8 Roll the seam area with 45 kg (100 lb) three-section roller.
 - .9 Maximum variation of welds from plane or from straight: 6 mm (1/4") in 3 m (10 ft) length using a 3 m (10 ft) straight edge.
- .16 Seal and protect as required by manufacturer's installation instructions.

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3.5 Installation – Base

- .1 Use vinyl cove former at junction between vertical and horizontal surfaces around perimeter of room and preformed outer corner cove formers. Adhere cove former with contact tape or adhesive as recommended by manufacturer. Mitre all corners. Use preformed outer corner cove formers
- .2 Install base up wall as follows:
 - .1 11" (280mm) in shower room 3133. Wall panel is to overlap onto sheet flooring base by 2" (50mm) to leave an exposed base of 9: (230mm).
 - .2 8" (200mm) where wall protection has been specified. Wall panel is to overlap onto sheet flooring base by 2" (50mm) to leave an exposed base of 6: (150mm).
 - .3 6" (150mm) where no wall protection has been specified.
 - .4 Other heights as noted on drawings.
- .3 Adhere using adhesive recommended by manufacturer. Ensure bases are securely adhered to wall substrates.
- .4 Fit sheet joints tight and vertical. Maintain minimum measurement of 18 inches between joints.
- .5 Corners:
 - .1 Internal – Mitre
 - .2 External - v-plug/ butterfly
 - .3 Groove joints with grooving tool.
- .6 Install base on solid backing. Bond tight to wall and floor surfaces.
- .7 Scribe and fit tightly to door frames and other interruptions.
- .8 Weld joints in accordance with manufacturers instructions.

3.6 Cleaning

- .1 Wait 72 hours after installation before performing initial cleaning.
- .2 Remove access adhesive from floor, base, and wall surfaces without damage.
- .3 Clean, seal, and wax floor and base surfaces in accordance with manufacturer's instructions.

3.7 Protection of Finished Work

- .1 Prohibit foot traffic on floor finish for 24hours after installation. No heavy traffic, rolling loads or furniture placement for 72 hours after installation

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- .2 Protect flooring from construction equipment and traffic at all times until handover to Client.

3.8 Schedule

- .1 Refer to Drawings and Room Finish Schedule for rooms to receive resilient flooring and colour.

END OF SECTION

RESINOUS FLOORING

PART 1 GENERAL

1.1 Summary

- .1 This Section includes one resinous flooring system (one top coat variation), with one epoxy body.
 - .1 Application Method: Flat metal or plastic blade, power or hand troweled.

1.2 Related Sections

- .1 Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
- .2 Section 07 85 00 – Firestopping and Smoke Seals
- .3 Section 07 92 00 – Joint Sealants

1.3 Extent Self-Levelling Work and Quantities

- .1 Provide resinous or manufacturer-approved cementitious leveling and patching compound for up to ½" depth in entirety of all rooms scheduled to receive resinous flooring. The leveller product shall be compatible as an underlayment for the flooring specified. Intent is to provide doorways at similar elevations along corridors. Install at other areas as instructed by the Architect.

1.4 References

- .1 Use latest edition of standards identified
- .2 ASTM C 307, "Standard Test Method for Tensile Strength of Chemical-Resistant Mortar, Grouts, and Monolithic Surfacing"
- .3 ASTM C 579, "Standard Test Methods for Compressive Strength of Chemical-Resistant Mortars, Grouts, Monolithic Surfacing, and Polymer Concretes"
- .4 ASTM C 580, "Standard Test Method for Flexural Strength and Modulus of Elasticity of Chemical-Resistant Mortars, Grouts, Monolithic Surfacing, and Polymer Concretes"
- .5 ASTM D 2240, "Standard Test Method for Rubber Property—Durometer Hardness"
- .6 ASTM D 2369, "Standard Test Method for Volatile Content of Coatings"
- .7 ASTM D 2794, "Standard Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact)"

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- .8 ASTM E 648, "Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source"
- .9 ASTM E 662, "Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials"
- .10 ASTM F 2170, "Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes"
- .11 ASTM F1869, "Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride"

1.5 Submittals

- .1 Product Data: Submit manufacturer's product data and application instructions for each product specified.
 - .1 Include Technical Data Sheets and Safety Data Sheets.
- .2 Samples for Verification: For each resinous flooring system required, 5 inches (150 mm) square, applied to a rigid backing.
- .3 Product Schedule: Use resinous flooring designations indicated in Part 2 and room designations indicated on Drawings in product schedule.
- .4 Installer Certificates: Signed by manufacturer certifying that installers comply with specified requirements.
- .5 Maintenance Data: For resinous flooring to include in maintenance manuals.

1.6 Quality Assurance

- .1 No request for substitution shall be considered that would change the generic type of floor system specified (i.e. Epoxy resin mortar-based flooring system with urethane sealers). Equivalent materials of other manufactures may be substituted only on approval of Architect or Engineer. Request for substitution will only be considered only if submitted 10 days prior to bid date. Request will be subject to specification requirements described in this section.
- .2 Installer Qualifications: Engage an experienced installer (applicator) who is experienced in applying resinous flooring systems similar in material, design, and extent to those indicated for this Project, whose work has resulted in applications with a record of successful in-service performance, and who is acceptable to resinous flooring manufacturer.
 - .1 Engage an installer who is certified in writing by resinous flooring manufacturer as qualified to apply resinous flooring systems indicated.
 - .2 Contractor shall have completed at least 10 projects of similar size and complexity.

RESINOUS FLOORING

- .3 Source Limitations: Obtain primary resinous flooring materials, including primers, resins, hardening agents, grouting coats, and topcoats, through one source from a single manufacturer, with not less than ten years of successful experience in manufacturing and installing principal materials described in this section. Provide secondary materials, including patching and fill material, joint sealant, and repair materials, of type and from source recommended by manufacturer of primary materials.
- .4 Manufacturer Field Technical Service Representatives: Resinous flooring manufacture shall retain the services of Field Technical Service Representatives who are trained specifically on installing the system to be used on the project.
 - .1 Field Technical Services Representatives shall be employed by the system manufacture to assist in the quality assurance and quality control process of the installation and shall be available to perform field problem solving issues with the installer.
- .5 Mockups: Apply mockups to verify selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
 - .1 Provide mock ups as follows:
 - .1 One full room mockup of topping and underlayment installation in patient room and ensuite at location designated by Consultant.
 - .2 one full room mockup of completed resilient flooring installation in patient room including ensuite at location designated by Consultant.
 - .2 Mockup will be assessed for compliance with this specification with special emphasis on quality of smoothness of substrate, adhesion and seaming.
 - .3 Arrange review meeting with Consultant to be attended by Contractor, Consultant, Flooring installer, and Flooring Manufacturer. Flooring manufacturer to submit a report.
 - .4 Modify installation to address comments raised during the mockup meeting.
 - .5 Accepted mockup may be incorporated into the Work.
- .6 Pre-installation Conference:
 - .1 General contractor shall arrange a meeting not less than thirty days prior to starting work.
 - .2 Attendance:
 - .1 General Contractor
 - .2 Architect/Owner's Representative.
 - .3 Manufacturer/Installer's Representative.
- .7 Concrete Moisture Test:

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- .1 Perform moisture level tests using test method acceptable to flooring manufacturer such as RH concrete moisture tests to ascertain moisture level is within manufacturer's acceptable range for installation of specified flooring material.
 - .2 Carryout tests in minimum 3 different areas on each floor. Redo up to 3 additional tests per floor if requested by Consultant or flooring manufacturer.
 - .3 Perform tests prior to installation of self-leveling compound. Do not proceed with installation of self-leveling compound until results of tests are within acceptable range of both self-leveling compound and flooring manufacturers.
- .8 Bond Test:
- .1 Once self-leveling compound has fully cured, install 3' x 3' pieces of material adhered with the appropriate adhesive to verify quality of adhesion. Remove half of each piece after 24 hours, then the other half after 48 hours. To help assess resistance to indentation, place end user equipment onto a sample for 72 hours. Document all results. Provide results to Consultant.
 - .2 Perform one bond test on each floor.
 - .3 Redo up to 3 additional bond test per floor when requested by Consultant.
- .9 **DO NOT PROCEED WITH INSTALLATION UNTIL CONTRACTOR, FLOORING MANUFACTURER AND FLOORING INSTALLER IS SATISFIED THAT THE FLOORING CONDITION IN THE AREA OF WORK IS ACCEPTABLE TO RECEIVE THE FLOORING. COMMENCEMENT OF INSTALLATION WILL BE DEEMED ACCEPTANCE OF CONDITIONS BEING SUITABLE FOR APPLICATION OF THE FLOORING PRODUCT.**
- .10 Source Limitations: Provide all industrial flooring system materials from a single manufacturer.

1.7 Delivery, Storage, And Handling

- .1 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.
- .2 Store materials to prevent deterioration from moisture, heat, cold, direct sunlight, or other detrimental effects. Store material per product data.
- .3 All materials used shall be factory pre-weighed and pre-packaged in single, easy to manage batches to eliminate on site mixing errors. No on site weighing or volumetric measurements allowed.

RESINOUS FLOORING

1.8 Project / Environmental Conditions

- .1 Environmental Limitations: Comply with resinous flooring manufacturer's written instructions for substrate temperature, ambient temperature, moisture, ventilation, and other conditions affecting resinous flooring application.
- .2 Maintain material and substrate temperature between 65 and 85 deg F (18 and 30 deg C) during resinous flooring application and for not less than 24 hours after application.
- .3 Lighting: Provide permanent lighting or, if permanent lighting is not in place, simulate permanent lighting conditions during resinous flooring application.
- .4 Close spaces to traffic during resinous flooring application and for not less than 24 hours after application, unless manufacturer recommends a longer period.
- .5 Concrete substrate shall be properly cured. A vapor barrier must be present for concrete subfloors on or below grade. Otherwise, an osmotic pressure resistant grout must be installed prior to the resinous flooring

1.9 Warranty

- .1 Warrant work of this section for a period of 2 years against delamination, spalling, cracking, chipping, discolouration or such similar failures. Warranty shall include full material, equipment, and labour costs associated with the repairs.

PART 2 PRODUCTS

2.1 Resinous Flooring and Base

- .1 Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include,
 - .1 Broadcast systems will not be accepted. Trowel mortar only.
- .2 Acceptable Manufactures
 - .1 Stonhard Basis of design.
- .3 Product: Subject to compliance with requirements:
 - .1 Stonhard, Inc.; Stonblend GSI®.
- .4 System Characteristics:
 - .1 Color and Pattern: STONE
 - .2 Wearing Surface: smooth Matte finish.
 - .3 Integral Cove Base: STONE
 - .4 Overall System Thickness: 3/16 inch (5 mm).

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- .5 EP-1/EP-2 System Components: Manufacturer's standard components that are compatible with each other and as follows:
 - .1 **Waterproofing:**
 - .1 **Material Basis:** Stonproof ME7/VM7
 - .2 **Resin:** Urethane.
 - .3 **Formulation Description:** 2 component, 100% solids.
 - .4 **Type:** non pigmented.
 - .5 **Finish:** standard.
 - .6 **Number of Coats:** one.
 - .2 **Primer:**
 - .1 **Material Basis:** Stonblend Primer
 - .2 **Resin:** Epoxy.
 - .3 **Formulation Description:** 2 component, 100% solids.
 - .4 **Type:** non pigmented.
 - .5 **Finish:** standard.
 - .6 **Number of Coats:** one.
 - .3 **Mortar Base:**
 - .1 **Material Basis:** Stonblend Mortar
 - .2 **Resin:** Epoxy.
 - .3 **Formulation Description:** 3 component, 100% solids.
 - .4 **Application Method:** Flat Metal or plastic blade trowel.
 - .5 **Thickness of Coats:** 3/16 inch (5 mm).
 - .6 **Number of Coats:** One.
 - .7 **Aggregates:** Pigmented quartz Blended aggregate.
 - .4 **Groutcoat:**
 - .1 **Material Basis:** Stonblend Groutcoat
 - .2 **Resin:** Epoxy.
 - .3 **Formulation Description:** 2 component, 100% high solids.
 - .4 **Type:** Clear.
 - .5 **Finish:** standard.
 - .6 **Number of Coats:** one.
 - .5 **Sealer:**
 - .1 **Material Basis:** Stonkote CE4.
 - .2 **Resin:** Epoxy
 - .3 **Formulation Description:** 2 component, 100% solids.
 - .4 **Type:** Clear.
 - .5 **Finish:** Matte.
 - .6 **Number of Coats:** one.
 - .6 **Topcoat (EP-2 Only - For the PICU Washroom Areas)**

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- .1 Material Basis: Stonseal SK6-SF-GT
- .2 Resin: VOC EPA Compliant, Waterborne, Aliphatic Polyurethane.
- .3 Formulation Description: 2 component 100% high solids.
- .4 Type: Clear.
- .5 Finish: Satin, with gentle texture
- .6 Number of Coats: Two.

~~Note: Components listed above are the basis of design intent; all bids will be compared to this standard including resin chemistry, color, wearing surface, thickness, and installation procedures, including number of coats. Contractor shall be required to comply with all the requirements of the Specifications and all of the components required by the Specifications, whether or not such products are specifically listed above.~~

- .6 System Physical Properties: Provide resinous flooring system with the following minimum physical property requirements when tested according to test methods indicated:
 - .1 Compressive Strength: 6,000 psi after 7 days per ASTM C 579.
 - .2 Tensile Strength: 1,500 psi per ASTM C 307.
 - .3 Flexural Strength: 2,200 psi per ASTM C 580.
 - .4 Flexural Modulus of Elasticity: 5.0 x 10⁵ psi per ASTM C 580.
 - .5 Hardness: 85 to 90, Shore D per ASTM D 2240.
 - .6 Impact Resistance: > 160 in. lbs. per ASTM D 2794.
 - .7 Abrasion Resistance: 0.06 gm max. weight loss per ASEM D 4060, CS-17
 - .8 If needed, insert, in first subparagraph below, requirements for extent of burning.
 - .9 Flammability: Class 1 per ASTM E-648, E-662
 - .10 Thermal Coefficient of Linear Expansion: 9 x 10⁻⁶ in./in oF
 - .11 VOC Content per ASTM D 2369, Method E
 - .1 Stonblend Primer: 75 g/l
 - .2 Stonblend GSI Base: 17 g/l
 - .3 Stonblend Groutcoat: 52 g/l
 - .4 Stonkote CE4: 34 g/l
 - .5 Stonseal CF7: 47 g/l (Method C)
 - .12 Cure Rate: 12 hours for foot traffic, 24 hours normal operations.

2.2 Accessory Materials

- .1 Primer: Type recommended by manufacturer for substrate and body coats indicated. Formulation Description: Stonhard Stonblend Primer, 100% solids **and Rust Bond Primer for all metal substrate applications.**

RESINOUS FLOORING

- ~~.2 Waterproofing Membrane: Type recommended by manufacturer for substrate and primer and body coats indicated. Formulation Description—Only if application above grade Product—Stonproof ME7.~~
- .2 Sloping Mortar: Stoneset TG5.
- .3 Patching, Leveling and Fill Material: Resinous product of or approved by resinous flooring manufacturer and recommended by manufacturer for application indicated.
- .4 Joint Sealant: Stonflex MP7 joint fill material. Including installation at flooring transition between epoxy flooring and adjacent flooring materials.
- .5 Wall Base Termination: Stonset PM5 to be applied above all 6 inch (150mm) epoxy wall base tapered to zero over 4 inch (100mm)

PART 3 EXECUTION

3.1 Preparation

- .1 General: Prepare and clean substrates according to resinous flooring manufacturer's written instructions for substrate indicated. Provide clean and dry substrate for resinous flooring application.
- .2 Concrete Substrates: 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.
 - .1 Mechanically prepare substrates as follows:
 - .1 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 or Diamond Grind with a dust-free system.
 - .2 Repair damaged and deteriorated concrete according to resinous flooring manufacturer's written recommendations.
 - .3 Verify that concrete substrates meet the following requirements.
 - .1 Perform in situ probe test, ASTM F 2170. Proceed with application only after substrates do not exceed a maximum potential equilibrium relative humidity of 85 percent.
 - .2 Perform anhydrous calcium chloride test, ASTM F 1869. Proceed with application only after substrates have maximum moisture-vapor-emission rate of 6 lb of water/1000 sq. ft. of slab in 24 hours.
 - .4 Use patching and fill material to fill holes and depressions in substrates according to manufacturer's written instructions.

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- .5 Remove concrete at transitions as required to create a flush transition and maintain minimum product thickness where epoxy meets adjacent flooring finishes.
- .6 Treat control joints and other nonmoving substrate cracks to prevent cracks from reflecting through resinous flooring according to manufacturer's written recommendations. Allowances should be included for Stonflex MP7 joint fill material, and CT5 concrete crack treatment.
- .7 **Build up minimum 20mm (3/4") Sloping Mortar high ridge along underside of door to ensuite in PICU patient rooms. Slope topping minimum 915mm (3'-0") on each side of ridge back into respective rooms.**

3.2 Application

- .1 General: 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 intercoat adhesion.
 - .2 Cure resinous flooring components according to manufacturer's written instructions. Prevent contamination during application and curing processes.
 - .3 At substrate expansion and isolation joints, provide joint in resinous flooring to comply with resinous flooring manufacturer's written recommendations.
 - .1 Apply joint sealant to comply with manufacturer's written recommendations.
 - .4 Apply primer where required by resinous system, over prepared substrate at manufacturer's recommended spreading rate.
 - .5 Integral Cove Base: Stonblend GSI mortar, 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 topcoating of cove base. Round internal and external corners.
 - .6 Integral Cove Base: TBD inches high.
 - .7 Troweled Mortar: Mix mortar material according to manufacturer's recommended procedures. Uniformly spread mortar over substrate using manufacturer's specially designed screed box adjusted to manufacturer's recommended height. Hand trowel apply mixed material over freshly primed substrate using steel finishing trowels or power trowel material using manufacturer's specially designed power trowel blades.
 - .8 Groutcoat: Remove excess unbonded granules by lightly abrading or scraping and vacuuming the floor surface. Mix and apply grout coat with strict adherence to manufacturer's installation procedures and coverage rates.

RESINOUS FLOORING

- .9 Sealer: Lightly sand or scrape surface to remove any floor surface irregularities. Mix and apply sealer with strict adherence to manufacturer's installation procedures.
- .10 Matte Finish: Lightly sand or scrape surface to remove any floor surface irregularities. Mix and roller apply mar resistant finish with strict adherence to manufacturer's installation procedures.

3.3 Terminations

- .1 Chase edges to "lock" the flooring system into the concrete substrate along lines of termination.
- .2 Penetration Treatment: Lap and seal coating onto the perimeter of the penetrating item by bridging over compatible elastomer at the interface to compensate for possible movement.
- .3 Trenches: Continue flooring system into trenches to maintain monolithic protection. Treat cold joints to assure bridging of potential cracks.
- .4 Treat floor drains by chasing the flooring system to lock in place at point of termination.

3.4 Joints And Cracks

- .1 Treat control joints and to maintain monolithic protection.
- .2 Treat cold joints and construction joints to bridge potential cracks and to maintain monolithic protection on horizontal and vertical surfaces as well as horizontal and vertical interfaces.
- .3 Vertical and horizontal contraction and expansion joints are treated by installing backer rod and compatible sealant after coating installation is completed. Provide sealant type recommended by manufacturer for traffic conditions and chemical exposures to be encountered.

3.5 Field Quality Control

- .1 Material Sampling: Owner may at any time and any numbers of times during resinous flooring application require material samples for testing for compliance with requirements.
 - .1 Owner will 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.
 - .2 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.
 - .3 If test results show applied materials do not comply with specified requirements, pay for testing, remove noncomplying materials, prepare

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surfaces coated with unacceptable materials, and reapply flooring materials to comply with requirements.

3.6 Cleaning, Protecting, And Curing

- .1 Cure resinous flooring materials in compliance with manufacturer's directions, taking care to prevent contamination during stages of application and prior to completion of curing process. Close area of application for a minimum of 24 hours.
- .2 Protect resinous flooring materials from damage and wear during construction operation. Where temporary covering is required for this purpose, comply with manufacturer's recommendations for protective materials and method of application. General Contractor is responsible for protection.
- .3 Cleaning: Remove temporary covering and clean resinous flooring just prior to final inspection. Use cleaning materials and procedures recommended by resinous flooring manufacturer. General Contractor is responsible for cleaning prior to inspection.

3.7 Coating Schedule

- .1 All Rooms as indicated on drawings and as follows;
 - .1 All Rooms indicated as "1-BED (PICU)"
 - .2 All Rooms indicated as "WR" Accessed via "1-BED (PICU)".

END OF SECTION

Electric Hardware and Related Items
List of Product and Service Responsibilities

SHN Mental Health

Thursday, June 18, 2026

Legend:

Electrical	DIV 26/Refer to Electrical Drawings
Security	DIV 28/Refer to Electrical Drawings
Hardware	08 71 00
Door Supplier	DIV 8
Swinging Aluminum Doors	DIV 8
Swinging All Glass Doors	DIV 8
Sliding Aluminum & All Glass Doors	DIV 8
Hardware Installer	DIV 6
	Contractor
	Shared

Item#	Symbol/ Image	Product Description	Prepare Door/Frame	Supply Product	Install Product	Wire Product to Systems Integration Point Box	Test Applied Devices	Commission Opening (Card Readers, Fire Alarm, Security System, etc.)
1		Door Contact - Swinging WD & HM Doors	DIV 8	08 71 00	08 71 00	08 71 00	08 71 00, DIV 28	DIV 26, 28
2		Door Contact - Swinging Alum. Doors (If Applicable)	DIV 8	08 71 00	By Door Supplier	By Door Supplier	DIV 28	DIV 26, 28
3		Door Contact - Sliding Alum. Doors (If Applicable)	DIV 8	By Door Supplier	By Door Supplier	DIV 28	DIV 28	DIV 26, 28
4		Door Contact - Sliding All Glass Doors (If Applicable)	DIV 8	By Door Supplier	By Door Supplier	DIV 28	DIV 28	DIV 26, 28
5		Door Contact - Overhead Doors (If Applicable)	By Door Supplier	By Door Supplier	By Door Supplier	DIV 28	DIV 28	DIV 26, 28
6		Door Contact - Overhead Doors (If Applicable)	By Door Supplier	By Door Supplier	By Door Supplier	DIV 28	DIV 28	DIV 26, 28
7		Electric Strike - Swinging WD & HM Doors (Security Related)	DIV 8	08 71 00	08 71 00	08 71 00	08 71 00, DIV 28	DIV 26, 28
8		Electric Strike - Swinging Alum. Doors (If Applicable) (Security Related)	DIV 8	08 71 00	By Door Supplier	DIV 28	08 71 00, DIV 28	DIV 26, 28
9		Electric Strike - Swinging WD & HM Doors (Power Operator Related Only)	DIV 8	08 71 00	08 71 00	08 71 00	08 71 00, DIV 28	DIV 26, 28

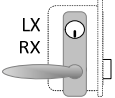
Electric Hardware and Related Items
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SHN Mental Health

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Security	DIV 28/Refer to Electrical Drawings
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Door Supplier	DIV 8
Swinging Aluminum Doors	DIV 8
Swinging All Glass Doors	DIV 8
Sliding Aluminum & All Glass Doors	DIV 8
Hardware Installer	DIV 6
Contractor	
Shared	

Item#	Symbol/ Image	Product Description	Prepare Door/Frame	Supply Product	Install Product	Wire Product to Systems Integration Point Box	Test Applied Devices	Commission Opening (Card Readers, Fire Alarm, Security System, etc.)
10		Electric Strike - Swinging Alum. Doors (If Applicable) (Power Operator Related Only)	DIV 8	08 71 00	By Door Supplier	08 71 00	08 71 00, DIV 28	DIV 26, 28
11		Electric Strike - Swinging All Glass Doors (If Applicable) (Power Operator Related Only)	DIV 8	08 71 00	By Door Supplier	DIV 28	DIV 28	DIV 26, 28
12		Magnetic Lock - WD & HM Doors	DIV 8	08 71 00	08 71 00	08 71 00	08 71 00, DIV 28	DIV 26, 28
13		Magnetic Lock - Swinging Alum. Doors (If Applicable)	DIV 8	08 71 00	By Door Supplier	DIV 28	DIV 28	DIV 26, 28
14		Magnetic Lock - Sliding Alum. Doors (If Applicable)	DIV 8	By Door Supplier	By Door Supplier	DIV 28	DIV 28	DIV 26, 28
15		Electric Lock	DIV 8	08 71 00	08 71 00	08 71 00	08 71 00, DIV 28	DIV 26, 28
16		Power Transfer - for WD & HM Doors (from Frame to Door)	DIV 8	08 71 00	08 71 00	08 71 00	08 71 00	DIV 26, 28
17		Power Transfer - for Swinging Alum. Door (If Applicable) (from Frame to Door)	DIV 8	08 71 00	By Door Supplier	DIV 28	DIV 28	DIV 26, 28

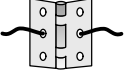
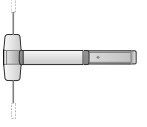
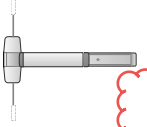
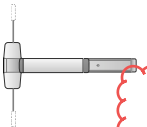
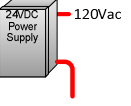
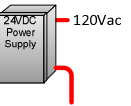
Electric Hardware and Related Items
List of Product and Service Responsibilities

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Security	DIV 28/Refer to Electrical Drawings
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Door Supplier	DIV 8
Swinging Aluminum Doors	DIV 8
Swinging All Glass Doors	DIV 8
Sliding Aluminum & All Glass Doors	DIV 8
Hardware Installer	DIV 6
Contractor	
Shared	

Item#	Symbol/ Image	Product Description	Prepare Door/Frame	Supply Product	Install Product	Wire Product to Systems Integration Point Box	Test Applied Devices	Commission Opening (Card Readers, Fire Alarm, Security System, etc.)
18		Power Transfer - for Sliding Alum. Door (If Applicable) (from Frame to Door)	DIV 8	By Door Supplier	By Door Supplier	DIV 28	DIV 28	DIV 26, 28
19		Electric Wire Through Hinge HM & WD Door	DIV 8	08 71 00	08 71 00	08 71 00	08 71 00	DIV 26, 28
20		Electrified Exit Device - HM & WD Door	DIV 8	08 71 00	08 71 00	08 71 00	08 71 00, DIV 28	DIV 26, 28
21		Electrified Exit Device - Swinging Alum. Doors (If Applicable) (for OPERATORS)	DIV 8	08 71 00	By Door Supplier	08 71 00	08 71 00	DIV 26, 28
22		Electrified Exit Device - Swinging Alum. Doors (If Applicable) (for SECURITY)	DIV 8	08 71 00	By Door Supplier	08 71 00	08 71 00, DIV 28	DIV 26, 28
23		Power Supply - for Electric Strike, Magnetic Lock & Electrified Lock	Not Required	08 71 00	DIV 26	DIV 26	DIV 26	DIV 26, 28
24		Power Supply - for Electrified Exit Device w/ Electric Latch Retraction	Not Required	08 71 00	DIV 26	DIV 26	DIV 26	DIV 26, 28

Electric Hardware and Related Items
List of Product and Service Responsibilities

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Swinging All Glass Doors	DIV 8
Sliding Aluminum & All Glass Doors	DIV 8
Hardware Installer	DIV 6
	Contractor
	Shared

Item#	Symbol/ Image	Product Description	Prepare Door/Frame	Supply Product	Install Product	Wire Product to Systems Integration Point Box	Test Applied Devices	Commission Opening (Card Readers, Fire Alarm, Security System, etc.)
25		Systems Integration Box - Security Related	Not Required	08 71 00	DIV 26	08 71 00	08 71 00, DIV 28	DIV 26, 28
26		Systems Integration Box - Barrier Free Operator Related	Not Required	08 71 00	DIV 26	08 71 00	08 71 00, DIV 28	DIV 26, 28
27		Automatic Door Operator - WD & HM Door	DIV 8	08 71 00	08 71 00	08 71 00	08 71 00	DIV 26, 28
28		Automatic Door Operator - Swinging Alum. Door (If Applicable)	DIV 8	08 71 00	08 71 00	08 71 00	08 71 00	DIV 26, 28
29		Automatic Door Operator - Sliding Alum. Door (If Applicable)	DIV 8	By Door Supplier	By Door Supplier	DIV 28	DIV 28	DIV 26, 28
30		Automatic Door Operator - Swinging All Glass Door (If Applicable)	DIV 8	By Door Supplier	By Door Supplier	DIV 28	DIV 28	DIV 26, 28
31		Automatic Door Operator - Sliding All Glass Door (If Applicable)	DIV 8	By Door Supplier	By Door Supplier	DIV 28	DIV 28	DIV 26, 28
32		Operator Actuator - WD, HM Door	DIV 8	08 71 00	08 71 00	08 71 00	08 71 00	DIV 26, 28

Electric Hardware and Related Items
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Sliding Aluminum & All Glass Doors	DIV 8
Hardware Installer	DIV 6
	Contractor
	Shared

Item#	Symbol/ Image	Product Description	Prepare Door/Frame	Supply Product	Install Product	Wire Product to Systems Integration Point Box	Test Applied Devices	Commission Opening (Card Readers, Fire Alarm, Security System, etc.)
33		Operator Actuator - Swinging Glass Door (If Applicable)	DIV 8	By Door Supplier	By Door Supplier	DIV 28	DIV 28	DIV 26, 28
34		Operator Actuator - Sliding Alum. Door (If Applicable)	DIV 8	By Door Supplier	By Door Supplier	DIV 28	DIV 28	DIV 26, 28
35		Operator Actuator - Sliding All Glass Door (If Applicable)	DIV 8	By Door Supplier	By Door Supplier	DIV 28	DIV 28	DIV 26, 28
36		Frame and/or Door Mounter Motion and Safety Sensors related to Operators	DIV 8	08 71 00	08 71 00	08 71 00	08 71 00	Not Required
37		Conduit and Junction Boxes for Automatic Door Operator Actuators, 120VAC & Low Voltage	DIV 26	DIV 26	DIV 26	DIV 26	DIV 26	DIV 26
38		Key Switch - for Hardware Applications	DIV 8	08 71 00	08 71 00	08 71 00	08 71 00	DIV 26, 28
39		Exit Button for Magnetic Lock	Not Required	08 71 00	08 71 00	08 71 00	08 71 00, DIV 28	DIV 26, 28
40		Magnetic Hold Open Closer - Frame Mounted	DIV 8	08 71 00	08 71 00	DIV 26	DIV 26	DIV 26, 28

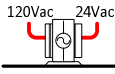
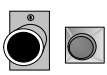
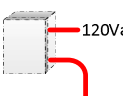
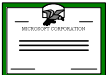
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Hardware Installer	DIV 6
	Contractor
	Shared

Item#	Symbol/ Image	Product Description	Prepare Door/Frame	Supply Product	Install Product	Wire Product to Systems Integration Point Box	Test Applied Devices	Commission Opening (Card Readers, Fire Alarm, Security System, etc.)
41		Junction Box Mounter 24VAC Transformer - for Frame Mounted Magnetic Hold Open Closer	Not Required	08 71 00	DIV 26	DIV 26	DIV 26	DIV 26, 28
42		Wall Mounted Hold Open Device (if any)	DIV 8	08 71 00	08 71 00	DIV 26	DIV 26	DIV 26, 28
43		All Fire Alarm Connections	Not Required	DIV 26	DIV 26	DIV 26	DIV 26	DIV 26
44		All 120 VAC Connections	DIV 26	DIV 26	DIV 26	DIV 26	DIV 26	DIV 26, 28
45		Wall or Frame Mounted PIR-REX Motion Sensors for Security	DIV 28	DIV 28	DIV 28	DIV 28	DIV 28	DIV 26, 28
46	LX	Latch Bolt Monitors in Hardware Devices (where applicable)	DIV 8	08 71 00	08 71 00	08 71 00	08 71 00, DIV 28	DIV 26, 28
47		MagLock Permit Permit	Not Required	Not Required	Not Required	Not Required	Not Required	General Contractor
48		Fire Alarm Pull Station	Not Required	DIV 26	DIV 26	DIV 26	DIV 26	DIV 26
49		Key Switch - for Fire Alarm Activation	Not Required	DIV 26	DIV 26	DIV 26	DIV 26	DIV 26

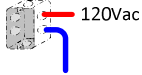
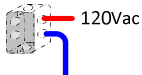
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	Contractor
	Shared

Item#	Symbol/ Image	Product Description	Prepare Door/Frame	Supply Product	Install Product	Wire Product to Systems Integration Point Box	Test Applied Devices	Commission Opening (Card Readers, Fire Alarm, Security System, etc.)
50		Card Reader	Not Required	DIV 28	DIV 28	DIV 28	DIV 28	DIV 26, 28
51		Frame and/or Door Mounted Junction/Wrought boxes, Electric Hardware Protection	DIV 8	DIV 8	DIV 8	Not Required	Not Required	Not Required
52		Wire Conduit - for Electric Strikes and Door Contact (and all Electric Hardware Devices in Frames)	DIV 8	DIV 8	DIV 8	Not Required	Not Required	Not Required
53		All other Conduit not attached to the Frame (or not in Alum. Member)	DIV 26	DIV 26	DIV 26	Not Required	Not Required	Not Required
54		Power Supply/ Logic Control Set Up Drawings - Operator Related Equipment	Not Required	08 71 00	Not Required	Not Required	Not Required	Not Required
55		Low Voltage Wire from mounted device to SIP Box or "above door" mounted Power Supply or Junction Box	Not Required	08 71 00	DIV 26	08 71 00	08 71 00, DIV 28	DIV 26, 28
56		Blue Pull String in Conduit (not related to Frame Mounted Conduit)	Not Required	DIV 26	DIV 26	Not Required	Not Required	Not Required

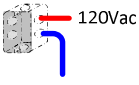
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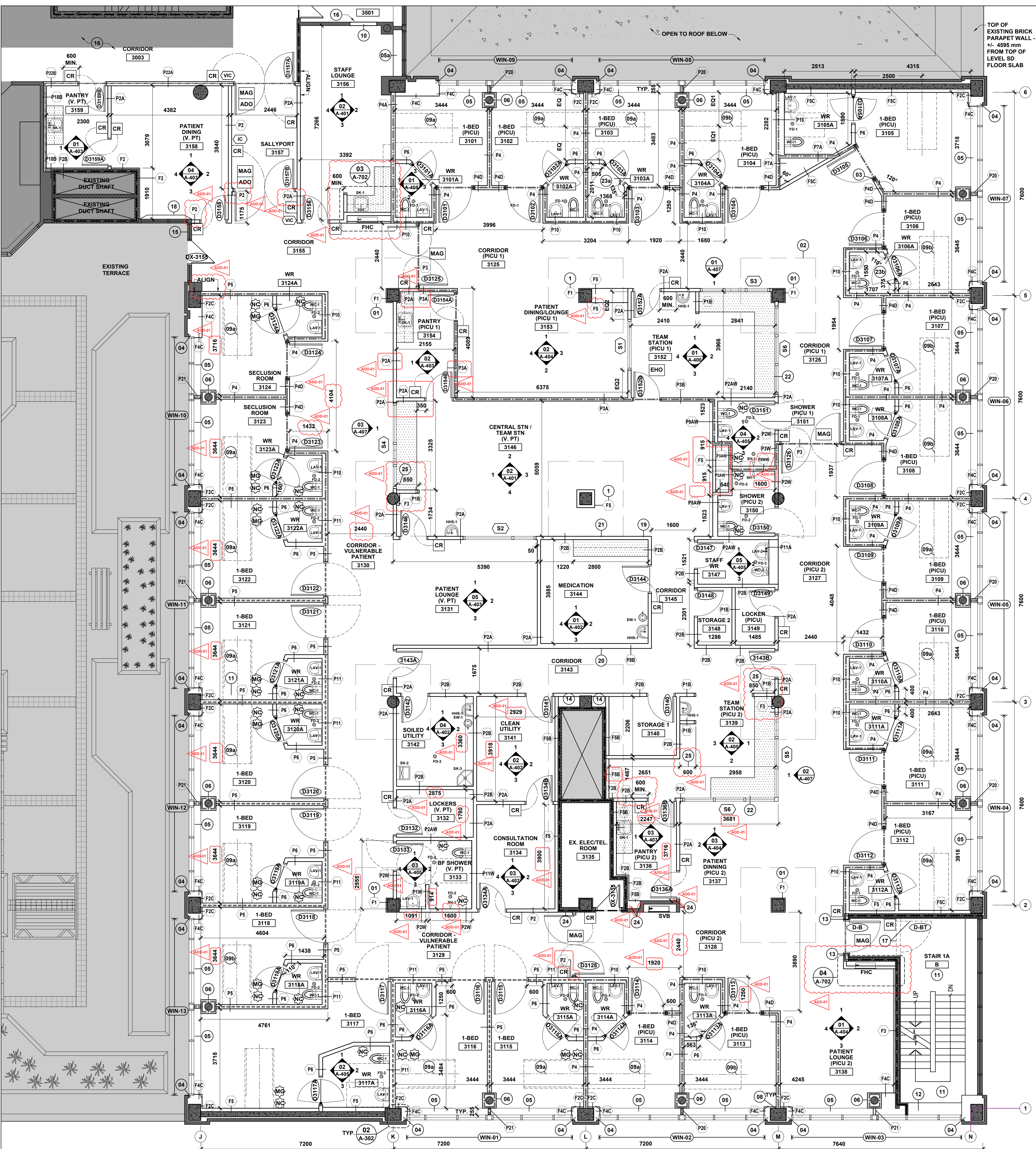
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	Shared

Item#	Symbol/ Image	Product Description	Prepare Door/Frame	Supply Product	Install Product	Wire Product to Systems Integration Point Box	Test Applied Devices	Commission Opening (Card Readers, Fire Alarm, Security System, etc.)
57		Access Doors for Access to Control Boxes & Power Supplies in hard ceilings	Not Required	DIV 26	General Contractor	Not Required	Not Required	Not Required
58		Conduit from Hardware Devices to ceiling - for Alum. Frames	DIV 26	DIV 26	DIV 26	Not Required	Not Required	Not Required



01 CONSTRUCTION PLAN
A-200 1:75

- ### GENERAL NOTES
- CONTRACTOR TO VERIFY ALL SITE DIMENSIONS. ANY ERROR OR DISCREPANCY TO THE DIMENSIONED PARTITION SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN CONSULTANT PRIOR TO CONSTRUCTION.
 - ALL WORK TO CONFORM TO EXISTING BY-LAWS, CODES AND AUTHORITIES HAVING JURISDICTION.
 - GENERAL CONTRACTOR IS TO REVIEW & FOLLOW THE HOSPITAL'S CONSTRUCTION GUIDELINES PRIOR TO COMMENCEMENT OF ANY WORK. ALL NOISE AND NOXIOUS WORK TO BE DONE AFTER HOURS AND ARRANGED WITH HOSPITAL BEFOREHAND. SEAL OFF SITE WITH HOARDING AS REQUIRED FOR DURATION OF CONSTRUCTION SO NOT TO DISTURB DAY TO DAY OPERATIONS.
 - CONTRACTOR TO PATCH, REPAIR AND MAKE GOOD ANY DAMAGED EXISTING CONCRETE FLOOR SLAB AND G.W.B. ON PARTITIONS, BULKHEADS, ETC. AND MAKE READY FOR NEW FINISH.
 - CONTRACTOR TO REPAIR / REPLACE ANY EXISTING FINISHES, INCLUDING BUT NOT EXCLUSIVELY FLOORING, DAMAGED BY CONSTRUCTION. TOUCH-UP PAINTED SURFACES AFTER COMPLETION OF ALL INSTALLATION.
 - GENERAL CONTRACTOR SHALL MAINTAIN THE PREMISES CLEAN AND FREE OF RUBBISH OR DEBRIS DURING CONSTRUCTION AND SHALL LEAVE THE PREMISES CLEAN UPON COMPLETION OF WORK. COORDINATE RUBBISH AND DEBRIS REMOVAL WITH THE BUILDING MANAGEMENT.
 - REFER TO THE ENGINEERING DRAWINGS FOR ALL POWER, DATA & SECURITY REQUIREMENTS, LOCATIONS & SPECIFICATIONS.
 - IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COORDINATE THE INSTALLATION OF ALL SUBTRADE WORK, I.E. MECHANICAL, ELECTRICAL, ETC.
 - PROVIDE IN-WALL BLOCKING BETWEEN STUDS AS REQUIRED AT ALL WALL-HUNG ITEMS INCLUDING EQUIPMENT, ACCESSORIES AND MILLWORK.
 - MAINTAIN INTEGRITY OF ALL EXISTING FIRE EXITS AT ALL TIMES DURING CONSTRUCTION.
 - PROVIDE FIRE STOP SYSTEMS AT OPENINGS AND GAPS AROUND DUCTS / PIPES / ELECTRICAL PENETRATION IN FLOORS, AND FIRE RATED PARTITIONS TO MAINTAIN INTEGRITY OF FIRE SEPARATION. USE ULC LISTED FIRE STOP PRODUCTS.
 - ALL DEVICES, SWITCHES, EQUIPMENT, HARDWARE, ACCESSORIES, ETC. TO BE INSTALLED IN AREAS ACCESSIBLE TO PATIENTS SHALL BE ANTI-LIGATURES AND TAMPER RESISTANT.
 - CONTRACTOR SHALL COORDINATE WITH ALL SUBTRADES FOR THE REQUIRED ROUGH OPENING FOR ALL DOORS, WINDOWS AND GLAZED SCREEN TO ALLOW FOR PROPER INSTALLATION.
 - CONTRACTOR SHALL COORDINATE PARTITION AND DOOR OPENING SETTING OUT TO ENSURE THE REQUIRED BARRIER-FREE LATCH SIDE CLEARANCE (300mm) ON THE PUSH SIDE AND 600mm ON THE PULL SIDE ARE PROVIDED IN ACCORDANCE WITH ACCESSIBILITY REQUIREMENTS.

02 CONSTRUCTION PLAN GENERAL NOTES A-200

- ### CONSTRUCTION PLAN LEGEND
- | | |
|-----------|--|
| INDOOR | NOT INCLUDED IN THE ARCHITECTURAL LIMITS OF WORK. REFER TO THE MECHANICAL AND ELECTRICAL DRAWINGS FOR THE LIMITS OF WORK FOR THESE DISCIPLINES. ALL BUILDER'S WORK ASSOCIATED WITH THE WORKS REQUIRED TO FACILITATE THE SCOPE OF WORK UNDER THESE DISCIPLINES SHALL BE PROVIDED BY THE CONTRACTOR. |
| ROOF | EXISTING WALL AND STRUCTURE TO REMAIN |
| | EXISTING WINDOW TO REMAIN |
| | EXISTING CONCRETE BLOCK WALL TO REMAIN |
| | GYPSUM BOARD WALL ASSEMBLY. REFER TO PARTITION SCHEDULE. |
| | 140mm CONCRETE BLOCK WALL WITH PLASTER RENDER ON BOTH SIDES |
| | NON-RATED FIRE SEPARATION |
| | 1-HOUR FIRE SEPARATION |
| | 2-HOUR FIRE SEPARATION |
| | EXISTING 2-HOUR FIRE SEPARATION |
| ROOM NAME | ROOM NAME AND NUMBER |
| | CONSTRUCTION PLAN KEY NOTE |
| | PARTITION TYPE NO. REFER TO PARTITION & PARTITION SUFFIX LEGEND |
| | EXAMPLE: PSAB |
| | PARTITION TYPE NO. PS SUFFIX 'A' SUFFIX 'B' |
| | DOOR NUMBER REFER TO DOOR SCHEDULE |
| | GLAZED SCREEN NUMBER REFER TO GLAZING SCHEDULE |
| | REPLACEMENT WINDOW NUMBER REFER TO A-300 DRAWING SERIES |
| | EXISTING DOOR TO REMAIN REFER TO DOOR SCHEDULE |
| | NEW DOOR AND FRAME REFER TO DOOR SCHEDULE |
| | BUILT-IN MILLWORK TO BE PROVIDED IN CONTRACT; ALSO REFER TO A-204 FFE, A-400 SERIES INTERIOR ELEVATIONS AND A-600 SERIES MILLWORK |
| CR | RECESSED ACCESS CONTROL CARD READER |
| MAG | MAG LOCK WIRED INTO FIRE ALARM SYSTEM |
| ADO | AUTOMATIC DOOR OPERATOR |
| EHO | ELECTRICAL DOOR CLOSER WITH HOLD-OPEN |
| NC | NURSE CALL |
| MG | MEDICAL GAS OUTLETS W/ TRIMS; REFER TO MECH. DWGS. THE OUTLETS SHALL BE COVERED BY SECURITY ENCLOSURE. REFER TO DWG. A-204 FOR REQUIREMENT OF ENCLOSURE. |
| FHC | FIRE HOSE CABINET - WITH VANDAL-RESISTANT AND LIGATURE RESISTANT METAL COVER AND LOCK; REFER TO MECHANICAL DWGS FOR DETAILS |
| SVB | EXISTING SPRINKLER VALVE BOX WITH METAL COVER TO REMAIN; REFER TO MECHANICAL DWGS FOR DETAILS |
| V. PT | VULNERABLE PATIENT |
| PICU | PSYCHIATRIC INTENSIVE CARE UNIT |
- ### PLUMBING FIXTURE ABBREVIATION
- | ABBREVIATION | DESCRIPTION |
|--------------|----------------------|
| EW | EYE WASH |
| FD | FLOOR DRAIN |
| HHS | HAND HYGIENE STATION |
| LAV | LAVATORY |
| SH | SHOWER HEAD SET |
| SK | SINK |
| WC | WATER CLOSET |

03 CONSTRUCTION PLAN LEGEND
A-200

- ### CONSTRUCTION PLAN KEY NOTES
- [TYPICAL FOR ALL] THE SPECIFIED WALL FURRING APPLIES TO ALL EXPOSED SIDES OF THE COLUMN UNLESS NOTED OTHERWISE.
 - [TYPICAL FOR ALL] DASHED LINE DENOTES LOCATION OF DROPPED SLAB COLUMN CAPITAL BELOW THE LEVEL 3 FLOOR SLAB.
 - [TYPICAL FOR ALL] PROVIDE STEEL POST AT BOTH SIDES OF DOORS TO PICU PATIENT ROOMS AND SECLUSION ROOM. REFER TO DWG 02-A-007.
 - [TYPICAL FOR ALL] MAKE GOOD AND REINSTATE ALL FINISHES, INSULATION, WATER/VAPOR BARRIER THAT ARE DAMAGED BY THE WINDOW REPLACEMENT WORK AND CONSTRUCTION WORK TO ENSURE THERMAL CONTINUITY AND AIR TIGHTNESS AROUND WINDOW.
 - NEW ANTI-LIGATURE COVER WITH TAMPER RESISTANT FIXING FOR EXISTING INDUCTION UNIT. SITE VERIFY DIMENSIONS PRIOR TO FABRICATION. REFER TO MECH. DWGS.
 - INDUCTION UNIT AND COVER TO REMAIN AS EXISTING.
 - 1 HR FIRE RATED GLASS WALL ENCLOSURE AROUND THE FOUR SIDES OF THE EXISTING INSULATED AIR DUCT RISER (FLOOR DAMPER), REFER TO DWG. A-302. PROVIDE ANTI-LIGATURE AND VANDAL RESISTANT ACCESS DOOR (1 HR FIRE RATED) TO PERMIT ACCESS TO EXISTING FIRE DAMPER. SITE VERIFY TO CONFIRM CLEAR OPENING DIMENSIONS AND LOCATION TO ALIGN WITH THE EXISTING DUCT ACCESS DOORS; REFER TO MECH. DWGS FOR ACCESS PANEL REQUIREMENTS.
 - EXISTING INDUCTION UNIT TO REMAIN. REMOVE EXISTING COVER AND PROVIDE NEW LIGATURE RESISTANT COVER AND TAMPERPROOF FIXING. REFER ALSO TO MECHANICAL DRAWINGS.
 - [TYPICAL FOR ALL] PARTITION TO BE EXTENDED TO THE CONCRETE STRUCTURE.
 - CENTRE LINE OF PATIENT BED. PATIENT BED TO BE CENTRED AT THE HEAD WALL AS NOTED IN ROOM 3102.
 - CENTRE LINE OF PATIENT BED. PATIENT BED TO BE CENTRED AT ROOM WIDTH BETWEEN WR TO INDUCTION UNIT COVER AS NOTED IN ROOM 3104.
 - INFILL THE OPENING IN THE EXISTING PARTITION AFTER REMOVAL OF DOOR. PROVIDE NEW PARTITION TYPE COMPONENTS, INSULATION TO MATCH THE EXISTING AND SECURE TO THE EXISTING STRUCTURE. PATCH AND MAKE GOOD THE DRYWALL FOR SEAMLESS INTEGRATION. NEW FINISHES SHALL BE APPLIED ON THE ENTIRE WALL SURFACE ON BOTH SIDES OF PARTITION.
 - THE CONSTRUCTION WORK SHALL NOT AFFECT THE EGRESS PATH WITHIN THE STAIRWELL. THE LENGTH AND WIDTH OF LANDING SHALL BE AT LEAST THE WIDTH OF STAIRCASE.
 - REMOVE EXISTING GYPSUM BOARD WALL AND GYPSUM BOARD WALL ENCLOSURE WITH HEATING UNIT BEHIND AS NECESSARY FOR THE WINDOW REPLACEMENT WORK. SALVAGE AND REINSTATE ALL GRILLES AS REQUIRED. CONTRACTOR SHALL PROTECT ALL EXISTING HEATING UNIT AND M&E ITEMS IN THE WALL FROM DAMAGE DURING WINDOW REPLACEMENT WORK. ALLOW FOR COMPLETE REMOVAL, SAFE HANDLING, STORAGE AND RE-INSTALLATION OF ALL UNITS AS REQUIRED TO PERMIT WINDOW REPLACEMENT WORK, RE-COMMISSION AND CLEAN. HEATING UNIT COMPONENTS AND ENCLOSURE INTERIORS UPON COMPLETION OF WORK. PATCH, MAKE GOOD AND REINSTATE PARTITION AND FINISHES TO MATCH EXISTING.
 - PROVIDE 140mm THICK CONCRETE BLOCK, FULLY GROUTED, WITH REINFORCEMENT, TO UNDERSIDE OF STRUCTURE ABOVE. WALL ASSEMBLY SHALL PROVIDE A MIN. 2-HR FIRE-RESISTANCE RATING. FURRED WALL TYPE "F2" ON BOTH SIDES OF NEW CONCRETE BLOCK WALL (REFER TO A-004).
 - EXISTING PIPE CHASE AND PLUMBING RIGIDITY TO REMAIN.
 - EXISTING FIRE PULL TO EXISTING DOOR TO REMAIN.
 - REFER TO DWG A-003, A-202, A-203 FOR L3 SCOPE OF WORK OUTSIDE POD 3A.
 - TEMPORARY 2-HOUR FIRE RATED PARTITION WITH FIRE RATED DOOR DURING CONSTRUCTION. THIS IS TO BE INSTALLED BEFORE DEMOLITION WORK. ALSO SEE DWG. A-100.
 - PATCH AND MAKE GOOD THE ALUMINUM METAL PANEL OF THE CURTAIN WALL AFTER REMOVAL OF THE EXISTING INSULATION. PROVIDE 14 ga METAL PANEL WITH PRIMER COAT FOR FINISH PAINTING TO MATCH EXISTING WINDOW MULLION TO BE MECHANICALLY FASTENED ONTO WINDOW FRAME. SIZE TO SUIT EXISTING SPANDREL PANEL AREA.
 - RECESSED MEDICAL GAS ZONE VALVE ALARM BOX. CONTRACTOR SHALL COORDINATE INSTALLATION AND PROVIDE ALL BUILDER'S WORK FOR THE INSTALLATION. SETTING OUT OF PANELS SHALL BE REVIEWED BY HOSPITAL AND CONSULTANT PRIOR TO INSTALLATION.
 - RECESSED ELECTRICAL PANELS. CONTRACTOR SHALL COORDINATE INSTALLATION AND PROVIDE ALL BUILDER'S WORK FOR THE INSTALLATION. SETTING OUT OF PANELS SHALL BE REVIEWED BY HOSPITAL AND CONSULTANT PRIOR TO INSTALLATION. COORDINATE DOWNTIME OF EXISTING BUILDING SERVICES, IF NECESSARY, WITH HOSPITAL TO AVOID DISRUPTION TO EXISTING BUILDING SERVICES. REFER TO ELEC. DWGS.
 - WALL MOUNTED RELAY CONTROL PANEL AND LIGHT CONTROL PANEL. CONTRACTOR SHALL COORDINATE INSTALLATION AND PROVIDE ALL BUILDER'S WORK FOR THE INSTALLATION. SETTING OUT OF PANELS SHALL BE REVIEWED BY HOSPITAL AND CONSULTANT PRIOR TO INSTALLATION. REFER TO ELEC. DWGS.
 - EMERGENCY WATER SHUT OFF AND DEDICATED EMERGENCY RECEPTACLE CONTROL SHUT-OFF SHUT TO BE PROVIDED PROVIDED ABOVE COUNTER AND BELOW INTERIOR SCREEN. REFER TO MECH. AND ELEC. DWGS. CONTRACTOR SHALL COORDINATE SETTING OUT AND SUBMIT LAYOUT OF SWITCH ON ONE OF THE EXISTING METAL STUD FRAMING AND/OR BLOCK WALLS. SCOPE IS SUBJECT TO FIELD VERIFICATION OF EXISTING CONDITIONS.
 - MEASUREMENT INCLUDES FLUSH MOUNT END WALL PROTECTOR.

04 CONSTRUCTION PLAN KEY NOTES
A-200

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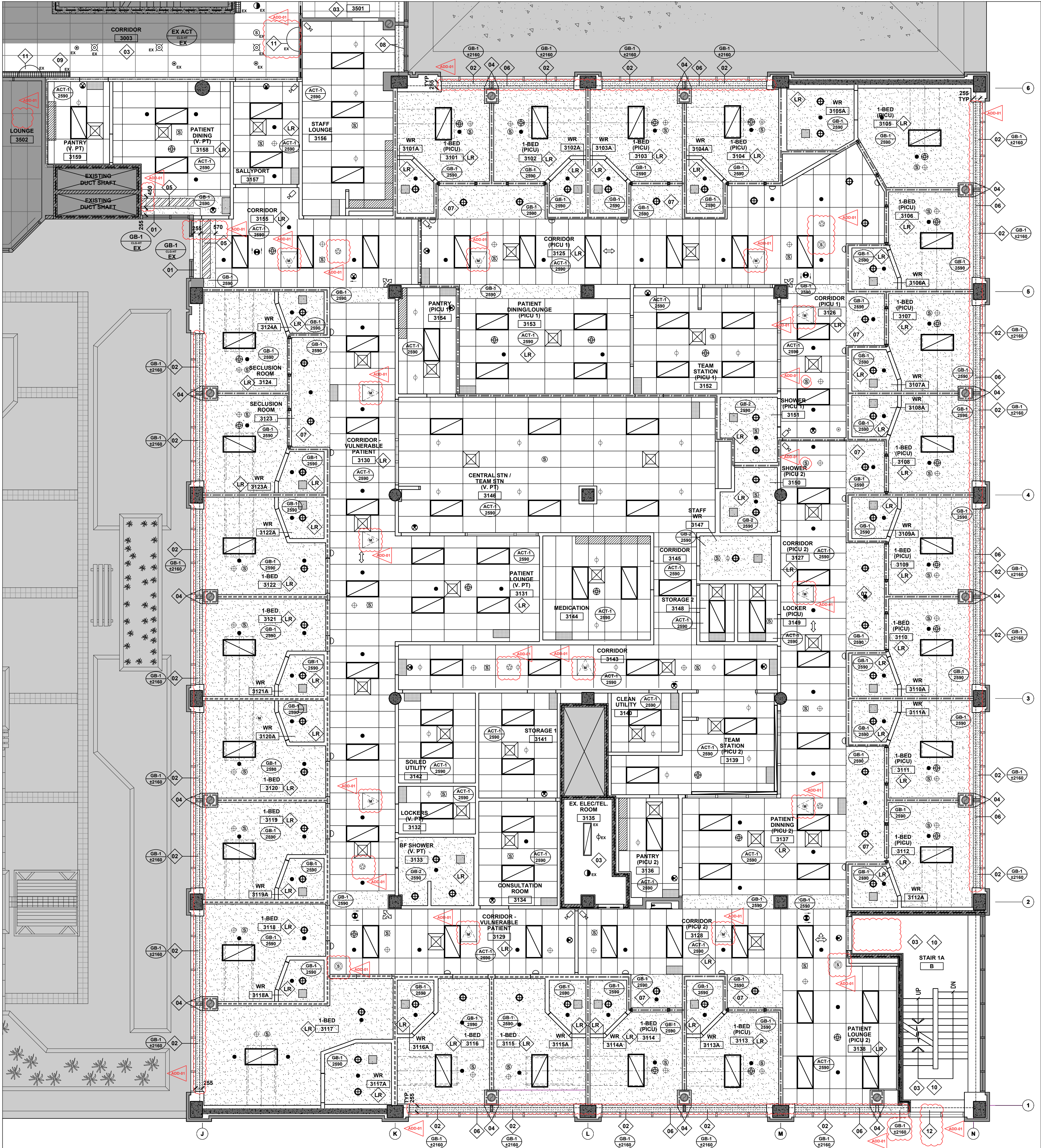
Client:
SCARBOROUGH HEALTH NETWORK
3030 BIRCHMOUNT ROAD
SCARBOROUGH, ON

Project Title:
SHN MENTAL HEALTH INPATIENT CONSOLIDATION POD 3A

Sheet Title:
CONSTRUCTION PLAN - LEVEL 3 (POD 3A)

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A-200



01 REFLECTED CEILING PLAN
A-201 1:75

RCP GENERAL NOTES

- CONTRACTOR TO VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION AND REPORT ALL DISCREPANCIES WITH CONTRACT DOCUMENTS TO THE ARCHITECT.
- IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COORDINATE THE INSTALLATION OF ALL SUBTRADE WORK, IE. MECHANICAL, ELECTRICAL, ETC.
- REFER TO MECHANICAL DRAWINGS FOR EXTENT OF MECHANICAL WORK AND LAYOUT.
- REFER TO ELECTRICAL DRAWINGS FOR EXTENT OF ELECTRICAL WORK, FIRE AND LIFE SAFETY AND LAYOUT.
- REFER TO ENGINEERING DOCUMENTS FOR INFORMATION AND SPECIFICATIONS ON EXIT SIGNAGE, LIFE SAFETY SYSTEMS, 24 HOUR EMERGENCY LIGHTING, VENTILATION, HVAC SYSTEMS, CIRCUITING OF LIGHTS AND THERMOSTAT LOCATION ETC.
- ALL DIMENSIONS ARE TO THE CENTERLINE OF FIXTURE, U.N.O. LOCATE ALL FIXTURES CENTERED WITHIN THE MODULE OF THE CEILING TILE UNLESS DIMENSIONED.
- MAKE GOOD ALL CEILINGS AND CEILING FINISHES DISTURBED OR IMPACTED BY NEW CONSTRUCTION (TYPICAL).
- PROVIDE LIGATURE RESISTANT TAMPERPROOF LIGHT FIXTURES, DEVICES, GRILLES, DIFFUSERS ETC. IN ALL PATIENT CARE AREAS. REFER ALSO TO ELECTRICAL DRAWINGS.
- LOCATIONS OF CEILING FIXTURES AND DEVICES ARE SHOWN INDICATIVELY. CONTRACTOR SHALL COORDINATE FINAL LOCATIONS AND SUBMIT COORDINATED BUILDER'S WORK AND BUILDING SERVICES DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION WORK.
- CONTRACTOR SHALL COORDINATE AND PROVIDE CEILING ACCESS PANELS FOR ALL VALVES AS REQUIRED BY THE MECHANICAL DRAWINGS. LIGATURE-RESISTANT ACCESS PANELS SHALL BE PROVIDED IN PATIENT-ACCESSIBLE AREAS. ACCESS PANELS INSTALLED IN GYPSUM BOARD CEILINGS SHALL HAVE THE SAME FINISH COLOUR OF ADJACENT SURFACES.

04 REFLECTED CEILING PLAN GENERAL NOTES
A-201

REFLECTED CEILING PLAN LEGEND

INDOOR ROOF

EXISTING WALL AND STRUCTURE TO REMAIN

EXISTING CONCRETE BLOCK WALL TO REMAIN

GYPSUM BOARD WALL ASSEMBLY. REFER TO PARTITION SCHEDULE.

140mm CONCRETE BLOCK WALL WITH PLASTER RENDER ON BOTH SIDES

NON-RATED FIRE SEPARATION

1-HOUR FIRE SEPARATION

2-HOUR FIRE SEPARATION

CEILING TYPE

HEIGHT A.F.F.

EXISTING ACOUSTIC SUSPENDED CEILING SYSTEM

ACOUSTIC SUSPENDED CEILING SYSTEM. REFER TO CEILING FINISHES TYPE LEGEND AND SPECIFICATION.

GYPSUM BOARD CEILING OR CEILING BULKHEAD WITH PT-1 FINISH UNLESS NOTED OTHERWISE. REFER ALSO TO DWG. A-203 AND A-702.

MILLWORK AT HIGH LEVEL

GYPSUM BOARD CEILING OR CEILING BULKHEAD WITH WR-2 WHITEROCK FINISH ON EXPOSED SURFACES. REFER TO DWG. A-203 AND A-702.

EXISTING HALF-DOME SAFETY MIRROR

RTLS SYSTEM - STAFF DURESS SYSTEM (REFER TO ELEC.)

RTLS STAR

RTLS MONITOR

CEILING SECURITY ENCLOSURE FOR RTLS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUPPLY, COORDINATION AND COMPLETE INSTALLATION OF THE APPROVED RECESSED CEILING-MOUNTED SECURITY ENCLOSURE FOR THE RTLS MONITOR. COMPLETE WITH SECURITY FASTENERS AND ADEQUATE SUPPORT, IN ACCORDANCE TO MANUFACTURER'S INSTRUCTION. REFER TO ELEC. FOR SPECIFICATION.

RTLS STROBE/SOUNDER

SPRINKLERS (REFER TO MECH.)

- SPRINKLER (FOR PATIENT AREA)
- RECESSED SPRINKLER

SAFETY & SECURITY DEVICES (REFER TO ELEC.)

- SPEAKER
- SPEAKER AND STROBE
- WALL MOUNTED DOME LIGHT
- SMOKE DETECTOR
- DIRECTIONAL EXIT SIGN
- EXIT SIGN
- CEILING MOUNTED FISH EYE CCTV CAMERA
- CEILING MOUNTED FIXED CCTV CAMERA
- CEILING MOUNTED 180 CCTV CAMERA
- CEILING MOUNTED 270 CCTV CAMERA
- CEILING MOUNTED 360 CCTV CAMERA

CEILING LIGHT FIXTURES (REFER TO ELEC.)

- RECESSED LIGHT FIXTURE
- POT LIGHT

MECHANICAL GRILLE (REFER TO MECH.)

- AIR SUPPLIER GRILLE
- EXHAUST GRILLE

EXISTING MECHANICAL DEVICES (REFER TO MECH.)

- EXISTING SPRINKLER TO REMAIN

EXISTING ELECTRICAL DEVICES (REFER TO ELEC.)

- EXISTING LIGHT FIXTURE TO REMAIN
- EXISTING LINEAR LIGHT FIXTURE TO REMAIN
- EXISTING LIGHT FIXTURE TO REMAIN
- EXISTING SMOKE DETECTOR TO REMAIN
- EXISTING SPEAKER TO REMAIN

02 REFLECTED CEILING PLAN LEGEND
A-201

REFLECTED CEILING PLAN KEY NOTES

- GYPSUM BOARD CEILING BULKHEAD WITH PAINT FINISH ABOVE EXISTING WINDOW AND DOOR TO TERRACE. LEVEL TO MATCH EXISTING. REFER TO DWG. 10A-702.

PERIMETER GYPSUM BOARD CEILING BULKHEAD ALONG WINDOW TO BE CLADDED WITH WHITEROCK™ FINISH ON EXPOSED SURFACES. BULKHEAD FINISH LEVEL TO BE SITE VERIFIED TO MATCH WITH THE FRAME LEVEL OF THE REPLACED WINDOW SYSTEM. REFER TO DWG. 1/A-302 AND 11/A-702.

EXISTING CEILING, LIGHTING AND CEILING FIXTURES TO REMAIN; REMOVE AS NECESSARY TO FACILITATE ALL REQUIRED DEMOLITION WORKS AND CONSTRUCTION WORKS INCLUDING MECHANICAL AND ELECTRICAL SCOPE OF WORK. RENSTATE AND MAKE GOOD ALL AREA AND FINISHES WHERE DAMAGED OR DISTURBED BY THE DEMOLITION AND/OR CONSTRUCTION WORKS.

1 HR FIRE RATED BULKHEAD ABOVE FINISHED CEILING BETWEEN STRUCTURAL CONCRETE BEAM TO 1 HR FIRE RATED AIR DUCT ENCLOSURE. REFER DWG. 06/A-702 AND 11/A-702.

ANTI-LIGATURE RADIANT CEILING PANEL. REFER TO MECH. DWG. CONTRACTOR TO PROVIDE STRUCTURAL REINFORCEMENT IN BULKHEAD TO SUPPORT THE RADIANT CEILING PANEL.

LINE OF EXISTING CONCRETE STRUCTURAL BEAM. CONTRACTOR TO SITE VERIFY THE SIZE AND LEVEL.
- GYPSUM BOARD CEILING TO RECEIVE PT-3 PAINT FINISH. REFER TO DWG. A-203 FOR CEILING FINISHES TYPE LEGEND.

EXISTING WINDOW AND CEILING BULKHEAD TO REMAIN. PREPARE THE SURFACE OF THE EXISTING CEILING BULKHEAD TO RECEIVE NEW PAINT FINISH. PATCH AND MAKE GOOD ANY DAMAGES AREA TO MATCH EXISTING.

EXISTING LINEAR LIGHT FIXTURE TO BE REINSTATED. ALSO REFER TO DWG. 03/A-003 FOR APPROXIMATE EXTENT AND THE SCOPE OF WORK.

EXISTING FINISHES IN THE STAIRWELL DAMAGED BY THE CONSTRUCTION WORK SHALL BE PATCHED, MAKE GOOD AND REFINISHED TO MATCH EXISTING. CONTRACTOR TO SITE SURVEY EXISTING CONDITION AND FINISHES. ALL SURFACE SHALL BE REFINISHED IN ITS ENTIRETY. SPOT OR PARTIAL TOUCH-UP FINISH WILL NOT BE ACCEPTED.

EXISTING HALF-DOME SAFETY MIRROR TO BE REMOVED AND REINSTATED. ALSO REFER TO DWG. 03/A-003 FOR SCOPE OF WORK.

EXISTING GYPSUM WALL, ENCLOSURE AND FIXTURES SHALL REMAIN. REPAIR FIXTURES AS REQUIRED. ALL FINISHES THAT ARE AFFECTED BY THE CONSTRUCTION SHALL BE REPAIRED AND MADE GOOD TO MATCH EXISTING. ALSO SEE NOTE 12 ON DWG. A-200.

03 REFLECTED CEILING PLAN KEY NOTES
A-201

CEILING FINISHES SCHEDULE

GB-1	15.9mm THK ABUSE RESISTANT GYPSUM BOARD PANEL (1 LAYER)
GB-2	15.9mm THK ABUSE RESISTANT & WATER-RESISTANT PANEL (1 LAYER)
ACT-1	SUSPENDED CEILING SYSTEM WITH ACOUSTIC CEILING TILE MANUFACTURER: ARMSTRONG MODEL: ULTIMA® HEALTH ZONE™ High NRC 1516" SQUARE LAY-IN 610 (24") x 1220 (48") x 22 (7/8") ITEM NO: 1448 COLOUR: WHITE GRID: PRELUDE® 1516"

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Client:
SCARBOROUGH HEALTH NETWORK
3030 BIRCHMOUNT ROAD
SCARBOROUGH, ON

Project Title:

SHN MENTAL HEALTH
INPATIENT CONSOLIDATION
POD 3A

Sheet Title:
**REFLECTED CEILING PLAN -
LEVEL 3 POD 3A**

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A-201



NOT INCLUDED IN THE ARCHITECTURAL LIMITS OF WORK. REFER TO THE MECHANICAL AND ELECTRICAL DRAWINGS FOR THE LIMITS OF WORK FOR THESE DISCIPLINES. ALL BUILDER'S WORK ASSOCIATED WITH THE WORKS REQUIRED TO FACILITATE THE SCOPE OF WORK UNDER THESE DISCIPLINES SHALL BE PROVIDED BY THE CONTRACTOR.

INDOOR ROOF

HIGHLIGHT EXISTING WALL / WINDOW TO REMAIN

NEW PARTITION - REFER TO PARTITION ASSEMBLIES

ROOM NAME
0000

ROOM MARKER

FINISH PLAN KEY NOTE

WALL PARTITION

REGULATED EXTENT OF FINISHES (REFER TO WALL PROTECTION DEMARCATION LINE FOR EXTENT OF WALL PROTECTION)

PT-1

B-1

WR-1

ACR-1

HRHB

WHITEBOCK SHEET WALL PROTECTION

VINYL SHEET WALL PROTECTION

GRANITE/ANDALUSIA (WALL-MOUNTED ANTI-LIGATURE)

A-203

1. ALL WHITELOCK RIGID SHEET PROTECTION WILL BE FULL HEIGHT, EXTENDING FROM WALL BASE TO FINISHED CEILING, REFER TO A-700 DWG SERIES FOR DETAILS.
2. ALL WHITELOCK RIGID SHEET PROTECTION SHALL BE CUT TO FIT THE WALL SPACE AS SPECIFIED, VERTICAL JOINT SHALL BE HEAT WELDED WITH THERMOFORMED INSIDE AND OUTSIDE CORNERS FOLLOWING MANUFACTURER'S INSTRUCTION.
3. ALL WHITELOCK RIGID SHEET PROTECTION SHALL BE FULL HEIGHT, REFER TO A-701, VERTICAL JOINT SHALL BE HALFWALL JOINT, SEE MANUFACTURER'S INSTRUCTION.
4. CONTRACTOR SHALL PREPARE THE PARTITION (GYPSUM DRYWALL, BOARD BOARD, CONCRETE SURFACE, TILE BACKER BOARD, CEMENTITIOUS BOARD, ETC.) TO PAINT READY PRIMED FOR PROTECTION OF THE RIGID SHEET WALL PROTECTION TO ELIMINATE THE DUST FROM AFFECTING THE ADHESION.

03 WALL FINISHES SCHEDULE

^

- ## 04 WALL FINISHES PLAN KEY NOTES

1 ALL

- ## 05 WALL FINISHES PLAN GENERAL NOTES

A-203

PAINT FINISH

NOTE: PROVIDE PAINT TYPES COMPATIBLE WITH THE SURFACES TO WHICH THEY ARE APPLIED. REFER TO SPECIFICATIONS.

- PT-EX MATCH EXISTING PAINT FINISH TO REMAIN**
CONTRACTOR TO PROVIDE NEW PAINT FINISHES
MANUFACTURED BY SHERWIN WILLIAMS TO MATCH EXISTING
BASED ON SITE SURVEY
- PT-1 GENERAL WALL PAINT**
MANUFACTURER : SHERWIN WILLIAMS
COLOUR : SW 7006, EXTRA WHITE
- PT-2 GENERAL WALL PAINT**
MANUFACTURER : SHERWIN WILLIAMS
COLOUR : SW6105, DIVINE WHITE
- PT-3 ACCENT WALL PAINT**
MANUFACTURER : SHERWIN WILLIAMS
COLOUR : SW6219, RAIN
- PT-4 ACCENT WALL PAINT**
MANUFACTURER : SHERWIN WILLIAMS
COLOUR : SW6523, DENIM
- PT-5 ACCENT WALL PAINT**
MANUFACTURER : SHERWIN WILLIAMS
COLOUR : SW6477, TIDEWATER

NOTE: WALL BASE HEIGHT SHOWN IS THE VISIBLE HEIGHT ABOVE FINISHED FLOOR. CONTRACTOR SHALL PROVIDE THE REQUIRED OVERALL HEIGHT TO SUIT THE WALL PROTECTION/WALL BASE OVERLAP DETAIL ON DWG. A-700.

- ### VINYL SHEET WALL PROTECTION

NOTES:
(1) ALL MID-HEIGHT SHEET WALL PROTECTION SHALL BE FINISHED WITH TRIM.
(2) REFER TO ELEVATION FOR HEIGHT OF SHEET WALL PROTECTION.

RAIL AND CORNER GUARDS

— — HANDRAILS

CORNER GUARD:

CORNER GUARD:

90° C

 **CG-4**  **CG-4** **CUSTOM ANGLE CORNER PROTECTION (FROM TOP OF WALL BASE TO UNDERSIDE OF FINISHED CEILING) STAINLESS STEEL CORNER GUARD; 3-1/3" (89mm) WING; FULL HEIGHT; TYPE 304 (16 GAUGE); SATIN FINISH; WITH TAMPER RESISTANT FASTENERS AND HEAVY DUTY ADHESIVE**

ADHE

REMOVE ALL EXISTING WALL FINISHES INCLUDING ANY EXISTING WALL	WALL FINISHES PLAN LEVEL 3 (POD 3A)
---	--

PATCH EXISTING GYPSUM BOARD SCHEDULED TO REMAIN WHERE SECTIONS HAVE BEEN REMOVED TO FACILITATE INSTALLATION OF NEW ELECTRICAL OF MECHANICAL INSTALLATIONS OR NEW BLOCKING.

CONTRACTOR SHALL PATCH, REPAIR AND MAKE GOOD ALL SURFACES AFFECTED BY THE WORKS DURING CONSTRUCTION.

1. CONTRACTOR SHALL REPAIR AND/OR REPLACE ALL FINISHES INCLUDING TRIM, FLOORING, BASE, WALL COVERING AND CEILING AFFECTED BY THE WORKS DURING CONSTRUCTION UNLESS NOTED OTHERWISE.

2. AT ALL REPAIR AND TIE-IN AREAS, THE CONTRACTOR SHALL PAINT AND/OR REFINISH THE ENTIRE WALL OR CEILING SURFACE IN ITS ENTIRETY. SPOT OR PARTIAL TOUCH-UP FINISH WILL NOT BE ACCEPTED.

3. REFER ALSO TO INTERIOR ELEVATIONS FOR ADDITIONAL FINISH INFORMATION INCLUDING EXTENT AND HEIGHT OF WALL PROTECTION AND CORNER GUARDS.

4. CONTRACTOR SHALL SUBMIT SHOP DRAWING INDICATING THE LOCATION AND ALIGNMENT OF FINISHES SEAM LINES FOR COMMENT. ALL ADJUSTMENTS AND REVISIONS TO ACTIVE ACCEPTABLE ALIGNMENT AND VISUAL CONTINUITY SHALL BE CARRIED OUT BY THE CONTRACTOR AT NO ADDITIONAL COST AND TIME TO THE CONTRACT.

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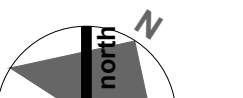
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**SCARBOROUGH
HEALTH NETWORK**

3030 BIRCHMOUNT ROAD
SCARBOROUGH, ON

SHN MENTAL HEALTH
INPATIENT CONSOLIDATION
POD 3A

Sheet Title:
WALL FINISHES PLAN
LEVEL 3 (POD 3A)

Project North 	Stamp	
Date: MAR 25	Project No.: 24-20	
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A-203

ABBREVIATIONS

AB	ANTI BARRICADE HARDWARE
ACL	ANTI BARRICADE LEAF
ACR	ACROVYN
AP	ARMOUR PLATE
CC	CONCEALED CLOSER
CL	CLOSER (REGULAR)
CH	HEAVY DUTY CONTINUOUS HINGE
CHO	HEAVY DUTY CONTINUOUS HINGE HOLD DOOR OPEN
CR	CARD READER
DAC	DOOR ALARM CONTACT
DS	DOOR STOP
EMHO	ELECTRO-MAGNETIC HOLD-OPEN
ES	ELECTRIC STRIKE
HG PRS	HEAVY GAUGE PRESSED STEEL
HG STL	HEAVY GAUGE STEEL
HW	HOLLOW METAL
HW	HARDWOOD
KP	KICK PLATE
LK	LOCKSET
LT	LATCHSET
MAG	MAGLOCK
ML	ANTI LIGATURE MORTISE LOCK
ME	MATCH EXISTING
ODS	OVERHEAD DOOR STOP
OI	OCCUPANCY INDICATOR
PL	PLASTIC LAMINATE
POLY	POLYSTYRENE (FLEMING DOOR)
PR	PRIVACY SET
PRS	PRESSED STEEL
PT	PAINT FINISH
SC	SOLID CORE
SOUND	SOUND CORE ACOUSTIC DOOR
STL	STEEL
WD	WOOD

ALL DOOR HARDWARE SHALL BE SUPPLIED AND INSTALLED BY UPPER CANADA UNLESS NOTED OTHERWISE. REFER TO THE UPPER CANADA HARDWARE SCHEDULE UNDER THE ARCHITECTURAL SPECIFICATIONS.

01 ABBREVIATIONS

A-500

LEGEND

- DENOTES FRAME TO FRAME NOMINAL OPENING WIDTH OR FLOOR TO FRAME NOMINAL OPENING HEIGHT
- DENOTES THROAT DIMENSIONS TO BE FIELD CHECKED BY CONTRACTOR TO SUIT ALL WALL CONDITIONS. THROAT WIDTH SHALL ALSO TAKE CONSIDERATION OF THICKNESS OF WALL PROTECTION WHERE SPECIFIED IN ADDITION TO PARTITION TYPE. REFER TO DRAWING A-503 FOR PARTITION ASSEMBLIES AND A-203 FOR WALL FINISHES.
- # DIMENSIONS INDICATED ARE MINIMUM REQUIREMENTS ONLY AND ARE SUBJECT TO COORDINATION WITH THE SPECIFIED DOOR HARDWARE. CONTRACTOR SHALL VERIFY ALL HARDWARE REQUIREMENTS AND PROVIDE DOOR FRAMES AND HEADER FRAMES WITH SUFFICIENT WIDTH, DEPTH, AND REINFORCEMENT TO ACCOMMODATE THE SPECIFIED HARDWARE, INCLUDING CONCEALED DOOR CLOSERS.
- ^^ DENOTES HEIGHT FROM FINISHED FLOOR TO BOTTOM OF VISIBLE GLASS. THE BOTTOM OF THE VISIBLE GLASS MUST BE LOCATED NOT MORE THAN 900 mm ABOVE FINISH FLOOR.

02 LEGEND

A-500

GLAZING TYPES

- GL-# GLAZING TYPE NUMBER. REFER TO SPECIFICATIONS AND DRAWING A-501 FOR GLAZING TYPE LEGEND

03 GLAZING TYPES

A-500

DOOR & FRAME COLOR

PT-D1	FIELD PAINTED WITH COLOUR MATCHING BRAND: SHERWIN WILLIAMS COLOUR: SW 6105, DIVINE WHITE
PT-D2	FIELD PAINTED WITH COLOUR MATCHING BRAND: SHERWIN WILLIAMS COLOUR: SW 7512, BEIGE PAVILION
PT-D3	FIELD PAINTED WITH COLOUR MATCHING BRAND: SHERWIN WILLIAMS COLOUR: SW 6227, MEDITATIVE
PT-D4	SELECTION FROM KINGSWAY GROUP'S FINISHES AND COLOUR:- POWDER COATED FINISH: RAL 1919, GREY BEIGE RAL 9003, SIGNAL WHITE
PL-D1	SELECTION FROM KINGSWAY GROUP'S FINISHES AND COLOUR:- LAMINATE FINISH: MOJAVE 8751

04 DOOR & FRAME

A-500

DOOR SPECIAL REQUIREMENT KEY NOTES

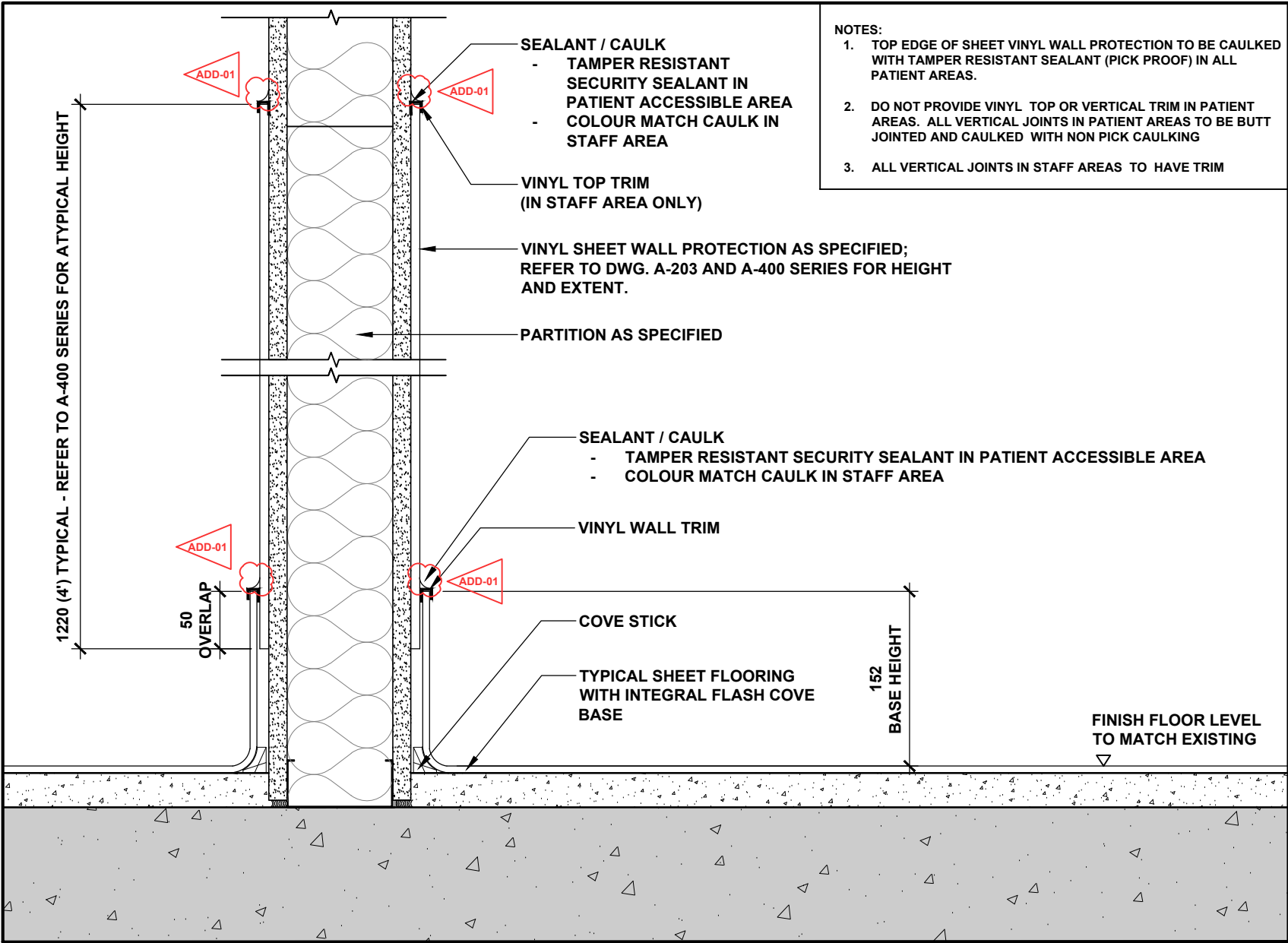
- IMPACT- AND LIGATURE-RESISTANT HARDWARE IN PATIENT ACCESSIBLE AREA.
- OUT-SWINGING DOOR. PATIENT CAN LOCK DOOR INSIDE; STAFF CAN OVERRIDE THE LOCK FROM THE CORRIDOR SIDE. IN THE EVENT OF POTENTIAL DANGEROUS SITUATION, THE STAFF WOULD BE ABLE TO SECURE THE PATIENT WITHIN THE ROOM. EQUIPPED WITH CONCEALED CLOSER AND AN IMPACT-RESISTANT VISION PANEL WITH INTEGRAL LOUVERS.
- PATIENT CAN LOCK DOOR INSIDE; STAFF CAN OVERRIDE THE LOCK FROM THE CORRIDOR SIDE. THE DOOR SYSTEM ALLOWS STAFF TO RELEASE THE DOOR STOP AND OPEN THE DOOR OUTWARDS FROM THE CORRIDOR SIDE. EQUIPPED WITH A TRANSOM CLOSER AND AN IMPACT RESISTANT VISION PANEL WITH INTEGRAL BLIND.
- EMERGENCY RELEASE STOPS AND INTEGRAL BLIND SHALL BE KEPT ALIKE AND CONTRACTOR SHALL PROVIDE A TOTAL OF 21 OVAL DRIVE KEYS AND 6 STAINLESS STEEL T-HANDLE KEY.
- DOUBLE ACTION; NO LOCKING DEVICE; NO SELF-CLOSING FUNCTION;
- THE DOOR WILL ALWAYS REQUIRE A KEY OR CREDENTIAL TO THE READER TO UNLOCK OR FROM OUTSIDE THE ROOM INCLUDING DURING POWER LOSS. ALWAYS FREE EGRESS FROM INSIDE.
- HOLD-OPEN DEVICE IS LINKED TO FIRE ALARM. DOOR IS RELEASED UPON ACTIVATION OF FIRE ALARM. NO LOCKING FUNCTION REQUIRED.
- CARD ACCESS OR REMOTE RELEASED IS REQUIRED TO ENTER OR EXIT THROUGH EACH OPENING IN SALLYPORT. THE TWO PAIRS OF DOORS ARE INTERLOCKED. ONLY ONE PAIR OF DOORS CAN BE OPENED AT A TIME. WHEN POWER IS REMOVED, DOOR IS UNLOCKED.
- ANTI-BARRICADE DOOR WITH DOUBLE SWING PIN, BARREL HINGE AND EMERGENCY RELEASE STOP FOR RELEASING DOOR IN EMERGENCY. EMERGENCY RELEASE STOPS SHALL BE KEPT ALIKE. PROVIDE A TOTAL OF 25 KEYS FOR ALL SHOWER DOOR EMERGENCY RELEASE STOPS.
- A VALID CREDENTIAL IS REQUIRED TO ENTER OR EXIT. A HARD KEY WILL GRANT ACCESS BACK INTO UNIT INCLUDING DURING POWER LOSS.
- TEMPORARY FIRE DOOR TO EXIT STAIR. SELF-LOCKING AFTER CLOSING. FREE EGRESS FROM INSIDE TO STAIR.
- A KEY OR CREDENTIAL TO READER IS REQUIRED TO UNLOCK DOOR FROM PANTRY, INCL. DURING POWER LOSS. ALWAYS FREE EGRESS FROM TEAM STATION.
- ACCESS CONTROL ON BOTH SIDES. THE DOOR WILL ALWAYS REQUIRE A KEY OR CREDENTIAL TO THE READER TO UNLOCK FROM EITHER SIDE.
- MAGNETIC LOCKS ARE REQUIRED TO RELEASE UPON STAGE 2 FIRE ALARM ACTIVATION. PROVIDE KEY SWITCH-ACTIVATED MANUAL STATION IN PATIENT ACCESSIBLE AREA.
- CARD ACCESS ON BOTH SIDES TO RELEASE ELECTROMAGNETIC LOCK. WHEN POWER IS REMOVED, DOOR IS UNLOCKED.

06 DOOR SPECIAL REQUIREMENT KEY NOTES

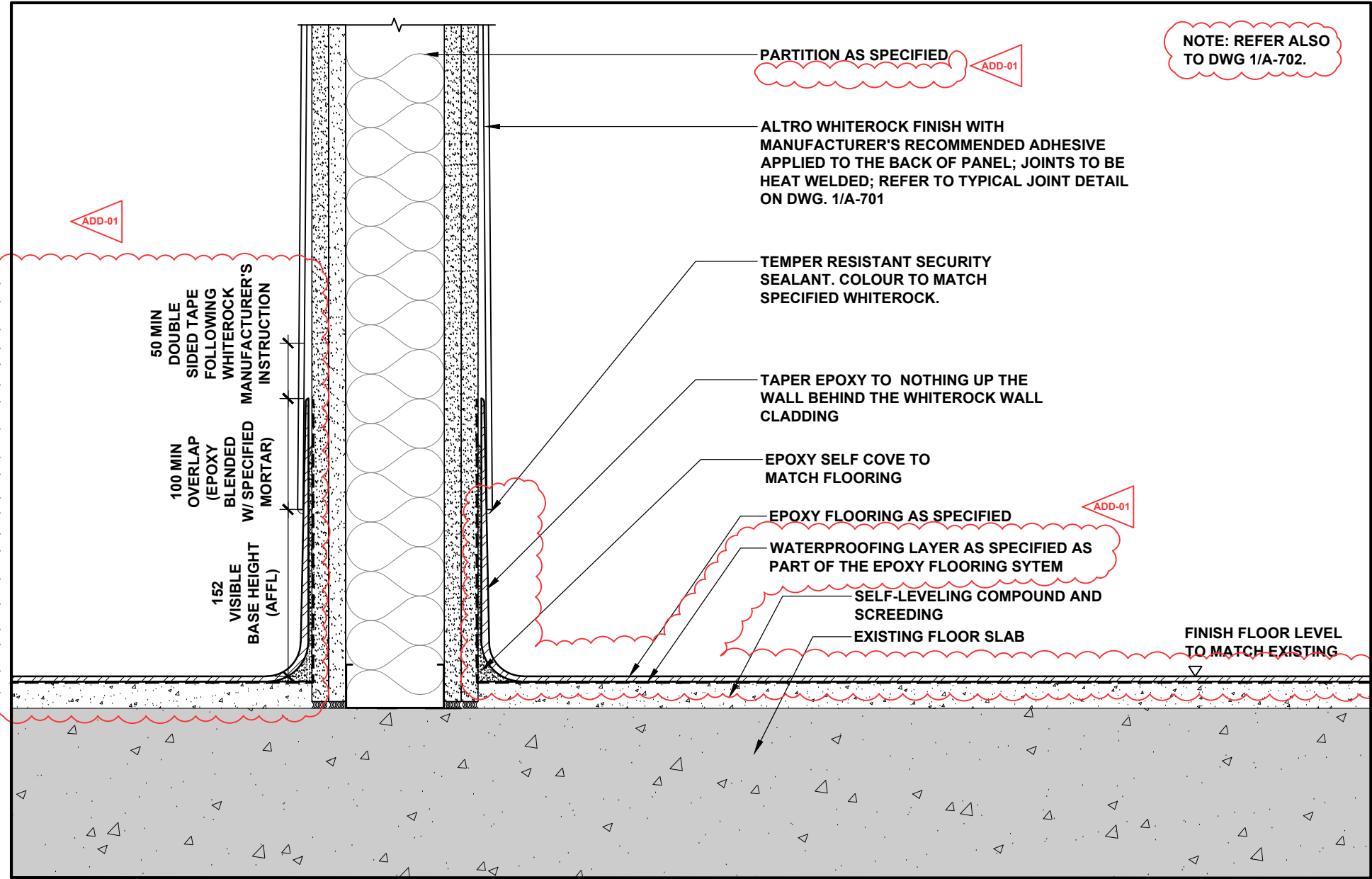
A-500

DOOR SCHEDULE (REFER ALSO TO GENERAL NOTES AND SPECIFICATION)

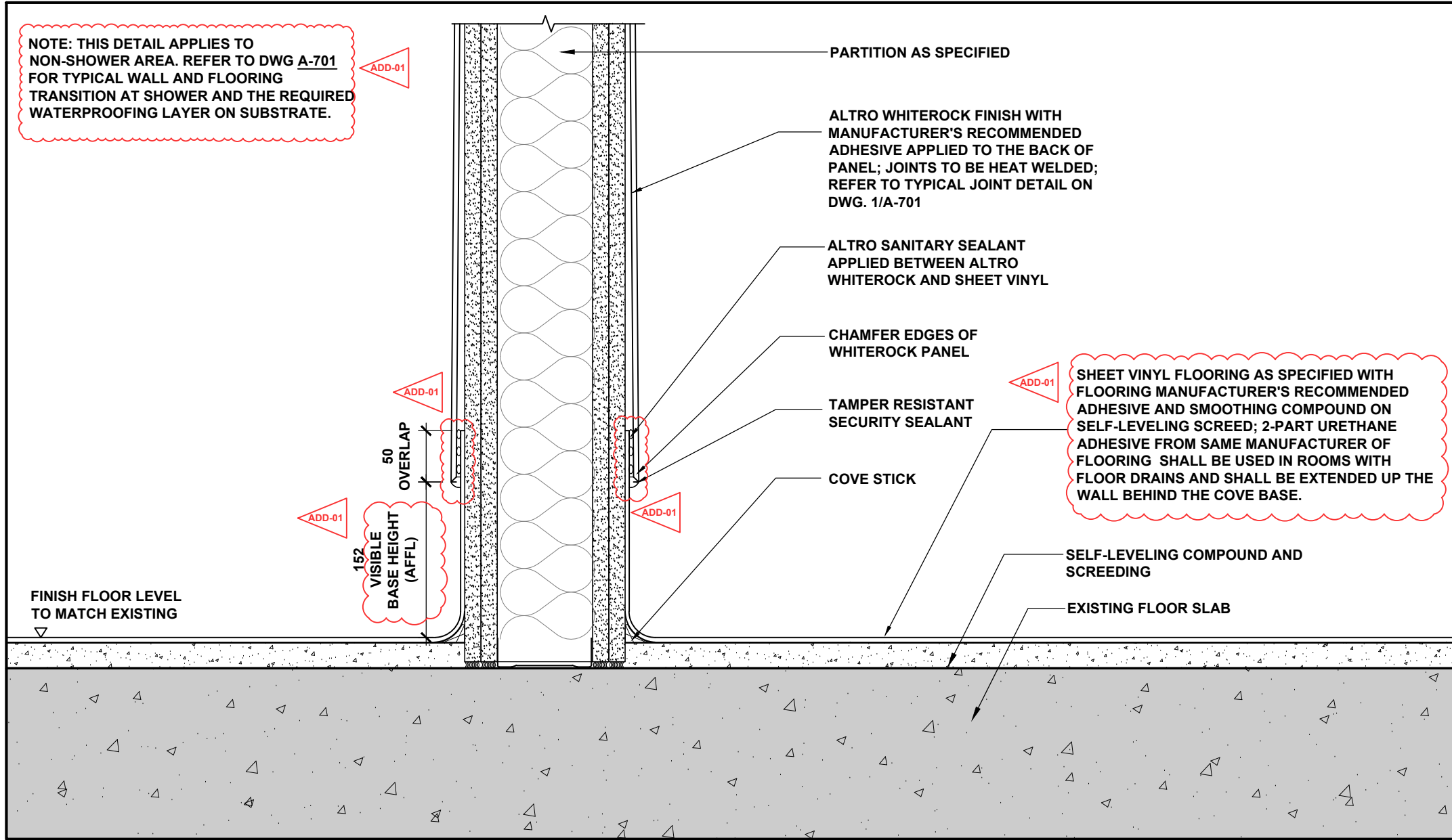
Room		Door		Frame													General Hardware Requirements (Refer to Door Hardware Schedule by Upper Canada)		Special Requirement (Refer to SDA-500)	
No.	Name	No.	Type	Width ***	Height ***	Thickness	Material	Label	Face	Core	Finish	Material	Elevation	Label	Finish	Profile				
3101	1-BED (PICU)	D3101	A	1219	2134	48 (1-7/8")	HM	3/4 HR	HG STL	SOUND	PT-D3	HG PRS	A	3/4 HR	PT-D3	A		• LK, CH, DS, CC	◆◆	
3102	1-BED (PICU)	D3102	A	1219	2134	48 (1-7/8")	HM	3/4 HR	HG STL	SOUND	PT-D3	HG PRS	A	3/4 HR	PT-D3	A				
3103	1-BED (PICU)	D3103	A	1219	2134	48 (1-7/8")	HM	3/4 HR	HG STL	SOUND	PT-D3	HG PRS	A	3/4 HR	PT-D3	A				
3104	1-BED (PICU)	D3104	A	1219	2134	48 (1-7/8")	HM	3/4 HR	HG STL	SOUND	PT-D3	HG PRS	A	3/4 HR	PT-D3	A				
3105	1-BED (PICU)	D3105	A	1219	2134	48 (1-7/8")	HM	3/4 HR	HG STL	SOUND	PT-D3	HG PRS	A	3/4 HR	PT-D3	A				
3106	1-BED (PICU)	D3106	A	1219	2134	48 (1-7/8")	HM	3/4 HR	HG STL	SOUND	PT-D3	HG PRS	A	3/4 HR	PT-D3	A				
3107	1-BED (PICU)	D3107	A	1219	2134	48 (1-7/8")	HM	3/4 HR	HG STL	SOUND	PT-D3	HG PRS	A	3/4 HR	PT-D3	A				
3108	1-BED (PICU)	D3108	A	1219	2134	48 (1-7/8")	HM	3/4 HR	HG STL	SOUND	PT-D3	HG PRS	A	3/4 HR	PT-D3	A				
3109	1-BED (PICU)	D3109	A	1219	2134	48 (1-7/8")	HM	3/4 HR	HG STL	SOUND	PT-D3	HG PRS	A	3/4 HR	PT-D3	A				
3110	1-BED (PICU)	D3110	A	1219	2134	48 (1-7/8")	HM	3/4 HR	HG STL	SOUND	PT-D3	HG PRS	A	3/4 HR	PT-D3	A				
3111	1-BED (PICU)	D3111	A	1219	2134	48 (1-7/8")	HM	3/4 HR	HG STL	SOUND	PT-D3	HG PRS	A	3/4 HR	PT-D3	A				
3112	1-BED (PICU)	D3112	A	1219	2134	48 (1-7/8")	HM	3/4 HR	HG STL	SOUND	PT-D3	HG PRS	A	3/4 HR	PT-D3	A				
3113	1-BED (PICU)	D3113	A	1219	2134	48 (1-7/8")	HM	3/4 HR	HG STL	SOUND	PT-D3	HG PRS	A	3/4 HR	PT-D3	A				
3114	1-BED (PICU)	D3114	A	1219	2134	48 (1-7/8")	HM	3/4 HR	HG STL	SOUND	PT-D3	HG PRS	A	3/4 HR	PT-D3	A				
3101A	WR	D3101A	H	1000 [260 MIN. CLEAR]	2134	REER TO KINGSWAY GROUP SPECIFICATION						F	-	PT-D5	E	• DOUBLE ACTION HINGE AS PART OF THE KINGSWAY DOOR SYSTEM	◆◆			
3102A	WR	D3102A	H	1000 [260 MIN. CLEAR]	2134	REER TO KINGSWAY GROUP SPECIFICATION						F	-	PT-D5	E					
3103A	WR	D3103A	H	1000 [260 MIN. CLEAR]	2134	REER TO KINGSWAY GROUP SPECIFICATION						F	-	PT-D5	E					
3104A	WR	D3104A	H	1000 [260 MIN. CLEAR]	2134	REER TO KINGSWAY GROUP SPECIFICATION						F	-	PT-D5	E					
3105A	WR	D3105A	H	1000 [260 MIN. CLEAR]	2134	REER TO KINGSWAY GROUP SPECIFICATION						F	-	PT-D5	E					
3106A	WR	D3106A	H	1000 [260 MIN. CLEAR]	2134	REER TO KINGSWAY GROUP SPECIFICATION						F	-	PT-D5	E					
3107A	WR	D3107A	H	1000 [260 MIN. CLEAR]	2134	REER TO KINGSWAY GROUP SPECIFICATION						F	-	PT-D5	E					
3108A	WR	D3108A	H	1000 [260 MIN. CLEAR]	2134	REER TO KINGSWAY GROUP SPECIFICATION						F	-	PT-D5	E					
3109A	WR	D3109A	H	1000 [260 MIN. CLEAR]	2134	REER TO KINGSWAY GROUP SPECIFICATION						F	-	PT-D5	E					
3110A	WR	D3110A	H	1000 [260 MIN. CLEAR]	2134	REER TO KINGSWAY GROUP SPECIFICATION						F	-	PT-D5	E					
3111A	WR	D3111A	H	1000 [260 MIN. CLEAR]	2134	REER TO KINGSWAY GROUP SPECIFICATION						F	-	PT-D5	E					
3112A	WR	D3112A	H	1000 [260 MIN. CLEAR]	2134	REER TO KINGSWAY GROUP SPECIFICATION						F	-	PT-D5	E					
3113A	WR	D3113A	H	1000 [260 MIN. CLEAR]	2134	REER TO KINGSWAY GROUP SPECIFICATION						F	-	PT-D5	E					
3114A	WR	D3114A	H	1000 [260 MIN. CLEAR]	2134	REER TO KINGSWAY GROUP SPECIFICATION						F	-	PT-D5	E					
3115	1-BED	D3115	B	1219	2134	REER TO KINGSWAY GROUP SPECIFICATION						PL-D1	E	-	PT-D4	D	• DOUBLE ACTION CONTINUOUS HINGE, ANTI-BARRICADE REMOVABLE DOOR STOP, DOUBLE ACTION TRANSOM CLOSER, KICK PLATE AS PART OF KINGSWAY'S DOOR SYSTEM	◆◆		
3116	1-BED	D3116	B	1219	2134	REER TO KINGSWAY GROUP SPECIFICATION						PL-D1	E	-	PT-D4	D				
3117	1-BED	D3117	B	1219	2134	REER TO KINGSWAY GROUP SPECIFICATION						PL-D1	E	-	PT-D4	D				
3118	1-BED	D3118	B	1219	2134	REER TO KINGSWAY GROUP SPECIFICATION						PL-D1	E	-	PT-D4	D				
3119	1-BED	D3119	B	1219	2134	REER TO KINGSWAY GROUP SPECIFICATION						PL-D1	E	-	PT-D4	D				
3120	1-BED	D3120	B	1219	2134	REER TO KINGSWAY GROUP SPECIFICATION						PL-D1	E	-	PT-D4	D				
3121	1-BED	D3121	B	1219	2134	REER TO KINGSWAY GROUP SPECIFICATION						PL-D1	E	-	PT-D4	D				
3122	1-BED	D3122	B	1219	2134	REER TO KINGSWAY GROUP SPECIFICATION						PL-D1	E	-	PT-D4	D				
3123	SECLUSION ROOM	D3123	A	1219	2134	48 (1-7/8")	HM	3/4 HR	HG STL	SOUND	PT-D3	HG PRS	A	3/4 HR	PT-D3	A			LK; CH, DS, CC	◆◆
3124	SECLUSION ROOM	D3124	A	1219	2134	48 (1-7/8")	HM	3/4 HR	HG STL	SOUND	PT-D3	HG PRS	A	3/4 HR	PT-D3	A			LK; CH, DS, CC	◆◆
3115A	WR	D3115A	H	1000 [260 MIN. CLEAR]	2134	REER TO KINGSWAY GROUP SPECIFICATION						F	-	PT-D5	E	• DOUBLE ACTION HINGE AS PART OF THE KINGSWAY DOOR SYSTEM			◆◆	
3116A	WR	D3116A	H	1000 [260 MIN. CLEAR]	2134	REER TO KINGSWAY GROUP SPECIFICATION						F	-	PT-D5	E					
3117A	WR	D3117A	H	1000 [260 MIN. CLEAR]	2134	REER TO KINGSWAY GROUP SPECIFICATION						F	-	PT-D5	E					
3118A	WR	D3118A	H	1000 [260 MIN. CLEAR]	2134	REER TO KINGSWAY GROUP SPECIFICATION						F	-	PT-D5	E					
3119A	WR	D3119A	H	1000 [260 MIN. CLEAR]	2134	REER TO KINGSWAY GROUP SPECIFICATION						F	-	PT-D5	E					
3120A	WR	D3120A	H	1000 [260 MIN. CLEAR]	2134	REER TO KINGSWAY GROUP SPECIFICATION						F	-	PT-D5	E					
3121A	WR	D3121A	H	1000 [260 MIN. CLEAR]	2134	REER TO KINGSWAY GROUP SPECIFICATION						F	-	PT-D5	E					
3122A	WR	D3122A	H	1000 [260 MIN. CLEAR]	2134	REER TO KINGSWAY GROUP SPECIFICATION						F	-	PT-D5	E					
3123A	WR	D3123A	H	1000 [260 MIN. CLEAR]	2134	REER TO KINGSWAY GROUP SPECIFICATION						F	-	PT-D5	E					
3124A	WR	D3124A	H	1000 [260 MIN. CLEAR]	2134	REER TO KINGSWAY GROUP SPECIFICATION						F	-	PT-D5	E					
3125	CORRIDOR (PICU 1)	D3125	FX	1100 x 1100	2134	45 (1-3/4")	HM	3/4 HR	HG STL	SOUND	PT-D1	HG PRS	D	3/4 HR	PT-D1		B	CR; MAG; CH; DS; CC; KP		◆◆◆◆
3126	CORRIDOR (PICU 1)	D3126	FX	1100 x 1100	2134	45 (1-3/4")	HM	3/4 HR	HG STL	SOUND	PT-D1	HG PRS	D	3/4 HR	PT-D1		B	CR; MAG; CH; DS; CC; KP		◆◆◆◆
3128	CORRIDOR (PICU 2)	D3128	F	1100 x 1100	2134	45 (1-3/4")	HM	-	HG STL	SOUND	PT-D1	HG PRS	D	-	PT-D1		B	CR; MAG; CH; DS; CC; KP		◆◆◆◆
3132	LOCKERS (V.P.T.)	D3132	D1	965	2134	45 (1-3/4")	HM	-	HG STL	SOUND	PT-D1	HG PRS	B1	-	PT-D1		B	CR; CH; DS; CC; KP		◆◆◆◆
3133	BF SHOWER (V.P.T.)	D3135	C2	1000	2134	45 (1-3/4")	HM	-	HG STL	SOUND	PT-D2	HG PRS	C2	-	PT-D2	F	PR; OI; CH; DS; CC; KP; AB	◆◆◆◆		
3134	CONSULTATION ROOM	D3134A	E1	965	2134	45 (1-3/4")	HM	-	HG STL	SOUND	PT-D1	HG PRS	B1	-	PT-D1	B	CR; CH; DS; CC; KP	◆◆◆◆		
3134	CONSULTATION ROOM	D3134B	D1	965	2134	45 (1-3/4")	HM	-	HG STL	SOUND	PT-D2	HG PRS	B1	-	PT-D2	B	CR; CH; DS; CC; KP	◆◆◆◆		
3135	ELECTRICAL ROOM	D3135				EXISTING TO REMAIN													--	◆◆
3136	PANTRY (PICU 2)	D3136A	E1	965	2134	45 (1-3/4")	HM	-	HG STL	-	PT-D1	HG PRS	B1	-	PT-D1	B	CR; CH; DS; CL; KP	◆◆◆◆		
3136	PANTRY (PICU 2)	D3136B	E2	965	2134	45 (1-3/4")	HM	-	HG STL	-	PT-D2	HG PRS	B2	-	PT-D2	B	CR; CH; DS; CL; KP	◆◆◆◆		
3140	STORAGE 1	D3140	D2	965	2134	45 (1-3/4")	HM	-	STL	-	PT-D2	PRS	B2	-	PT-D2	B	LK; CH; DS; CL; KP	◆◆◆◆		
3141	CLEAN UTILITY	D3141	D2	965	2134	45 (1-3/4")	HM	-	STL	-	PT-D2	PRS	B2	-	PT-D2	B	LK; CH; DS; CL; KP	◆◆◆◆		
3142	SOILED UTILITY	D3142	D2	965	2134	45 (1-3/4")	HM	-	STL	-	PT-D2	PRS	B2	-	PT-D2	B	LK; CH; DS; CL; KP	◆◆◆◆		
3143	CORRIDOR (STAFF)	D3143A	E1	965	2134	45 (1-3/4")	HM	-	HG STL	SOUND	PT-D1	HG PRS	B1	-	PT-D1	B	CR; CH; DS; CL; KP	◆◆◆◆		
3143	CORRIDOR (STAFF)	D3143B	E1	965	2134	45 (1-3/4")	HM	-	HG STL	SOUND	PT-D1	HG PRS	B1	-	PT-D1	B	CR; CH; DS; CL; KP	◆◆◆◆		
3144	MED ROOM	D3144	E2	965	2134	45 (1-3/4")	HM	-	STL	SOUND	PT-D2	PRS	B2	-	PT-D2	B	CR; CH; DS; CL; KP	◆◆◆◆		
3146	CENTRAL STN / TEAM STN (V. PT)	D3146	E1	965	2134	45 (1-3/4")	HM	-	HG STL	SOUND	PT-D1	HG PRS	B1	-	PT-D1	B	CR; CH; DS; CL; KP	◆◆◆◆		
3147	STAFF WR	D3147	D2	965	2134	45 (1-3/4")	HM	-	STL	-	PT-D2	PRS	B2	-	PT-D2	B	PR; OI; CH; DS; CL; KP	◆◆◆◆		
3148	STORAGE 2	D3148	D2	965	2134	45 (1-3/4")	HM	-	STL	-	PT-D2	PRS	B2	-	PT-D2	B	LK; CH; DS; CL; KP	◆◆◆◆		
3149	LOCKER (PICU)	D3149	D1	965	2134	45 (1-3/4")	HM	-	HG STL	-	PT-D1	HG PRS	B1	-	PT-D1	B	CR; CH; DS; CC; KP	◆◆◆◆		
3150	SHOWER (PICU 2)	D3150	C1	950	2134	45 (1-3/4")	HM	-	HG STL	-	PT-D2	HG PRS	C1	-	PT-D2	F	PR; OI; CH; DS; CC; KP; AB	◆◆◆◆		
3151	SHOWER (PICU 1)	D3151	C1	950	2134	45 (1-3/4")	HM	-	HG STL	-	PT-D2	HG PRS	C1	-	PT-D2	F	PR; OI; CH; DS; CC; KP; AB	◆◆◆◆		
3162	TEAM STATION (PICU 1)	D3152A	E1	965	2134	45 (1-3/4")	HM	-	HG STL	SOUND	PT-D1	HG PRS	B1	-	PT-D1	B	CR; CH; DS; CL; KP	◆◆◆◆		
3162	TEAM STATION (PICU 1)	D3152B	E2X	965	2134	45 (1-3/4")	HM	3/4 HR	HG STL	-	PT-D2	HG PRS	B2	3/4 HR	PT-D2	B	EMHO; CH; DS; CL; KP	◆◆◆◆		
3164	PANTRY (PICU 1)	D3154A	E1X	965	2134	45 (1-3/4")	HM	3/4 HR	HG STL	-	PT-D1	HG PRS	B1	3/4 HR	PT-D1	B	CR; CH; DS; CL; KP	◆◆◆◆		
3164	PANTRY (PICU 1)	D3154B	E2	965	2134	45 (1-3/4")	HM	-	HG STL	-	PT-D2	HG PRS	B2	-	PT-D2	B	CR; CH; DS; CL; KP	◆◆◆◆		
3165	ROOF TERRACE	D3135				EXISTING TO REMAIN (KEY LOCKED WITHOUT DOOR OPERATOR)													--	◆◆
3166	STAFF LOUNGE	D3156	E1	965	2134	45 (1-3/4")	HM	-	HG STL	SOUND	PT-D1	HG PRS	E1	-	PT-D1	B	CR; CH; DS; CL; KP	◆◆◆◆		
3167	SALLYPORT	D3157A	FX	1100 x 1100	2134	102	HM	1-1/2 HR	HG STL	-	PT-D2	HG PRS	FX	1-1/2 HR	PT-D2	B	CR; MAG; AD; CH; DS; CC; KP	◆◆◆◆		
3167	SALLYPORT	D3157B	F	1100 x 1100	2134	45 (1-3/4")	HM	-	HG STL	-	PT-D1	HG PRS	F	-	PT-D1	B	CR; MAG; AD; CH; DS; CC; KP	◆◆◆◆		
3168	PATIENT DINING	D3158	E1	965	2134	45 (1-3/4")	HM	-	HG STL	SOUND	PT-D2	HG PRS	B1	-	PT-D2	B	CR; CH; DS; CC; KP	◆◆◆◆		
3169	PANTRY (V.P.T.)	D3159A	E1	965	2134	45 (1-3/4")	HM	-	HG STL	-	PT-D1	HG PRS	B1	-	PT-D1	B	CR x 2; CH; DS; CC; KP	◆◆◆◆		
3169	PANTRY (V.P.T.)	D3159B	D2X	965	2134	45 (1-3/4")	HM	1-1/2 HR	HG STL	-	PT-D2	HG PRS	B2	1-1/2 HR	PT-D2	B2	CR; CH; DS; CL; KP	◆◆◆◆		
B	STAIR-1A	D-B	G1	1100 (ME)	2134 (ME)	45 (1-3/4")	HM	1-1/2 HR	HG STL	-	PT-D1	HG PRS	C3	1-1/2 HR	PT-D1	C	MAG; DAC; CH; DS; CL; KP	◆◆◆◆		
B	STAIR-1A	D-BT	G2	1100 (ME)	2134 (ME)	45 (1-3/4")	HM	1-1/2 HR	HG STL	-	PT-D1	HG PRS	C3	1-1/2 HR	PT-D1	C	CH; DS; CL	◆◆◆◆		



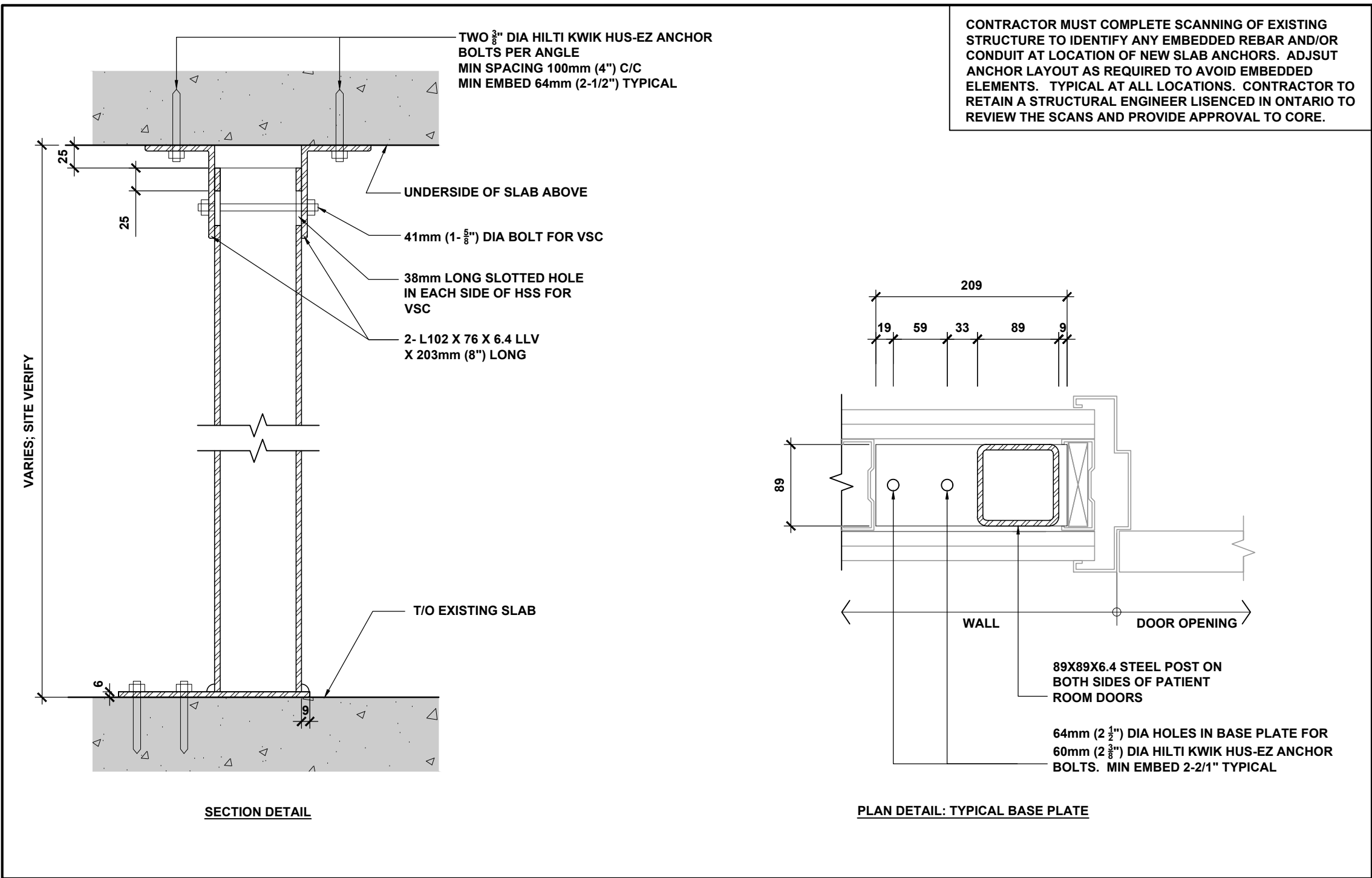
01 TYPICAL DETAIL - VINYL COVE BASE AND VINYL SHEET WALL PROTECTION
A-700 1:5



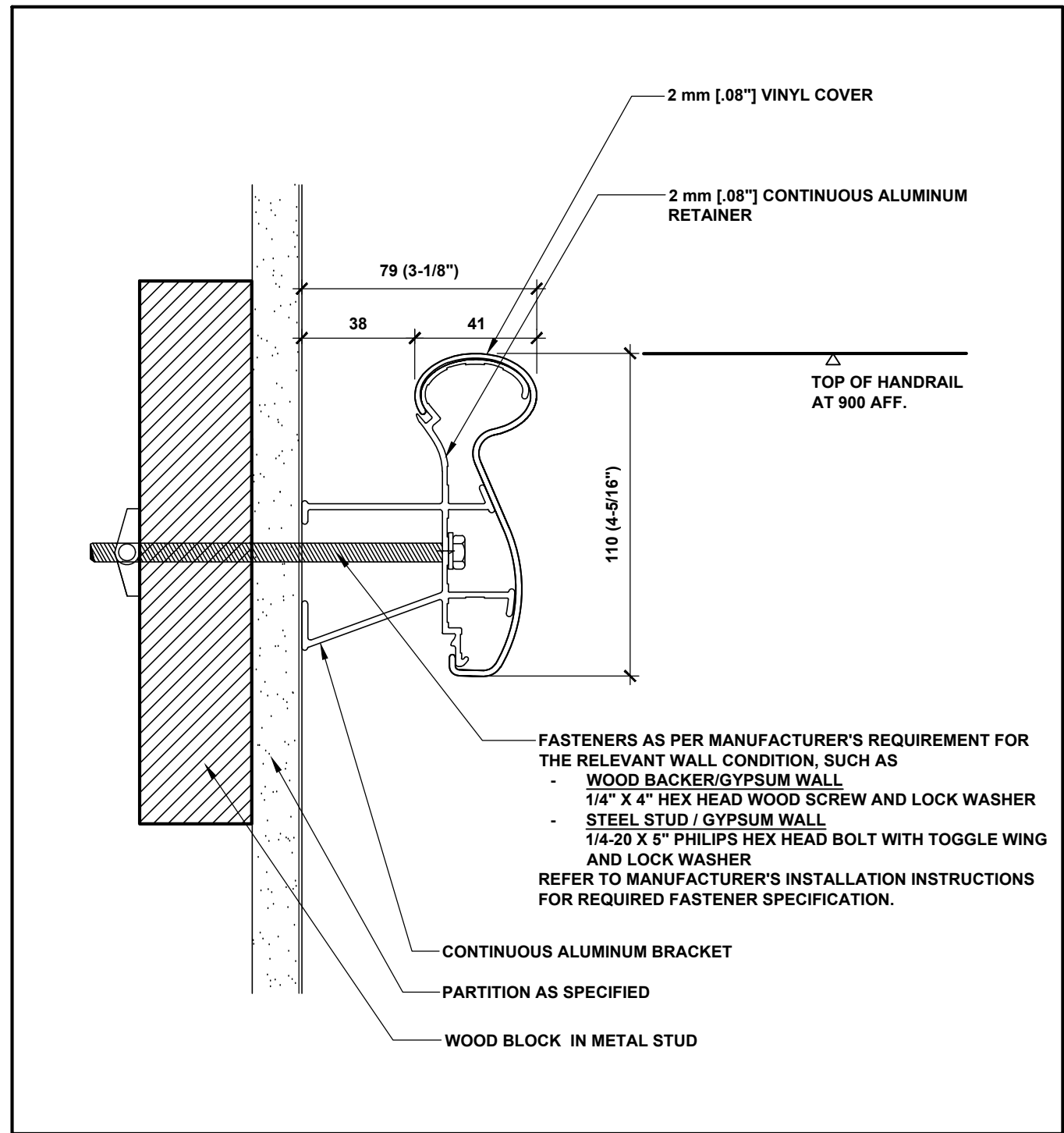
04 TYPICAL BASE DETAIL - EPOXY COVE BASE AND WHITEROCK TRANSITION
A-700 1:5



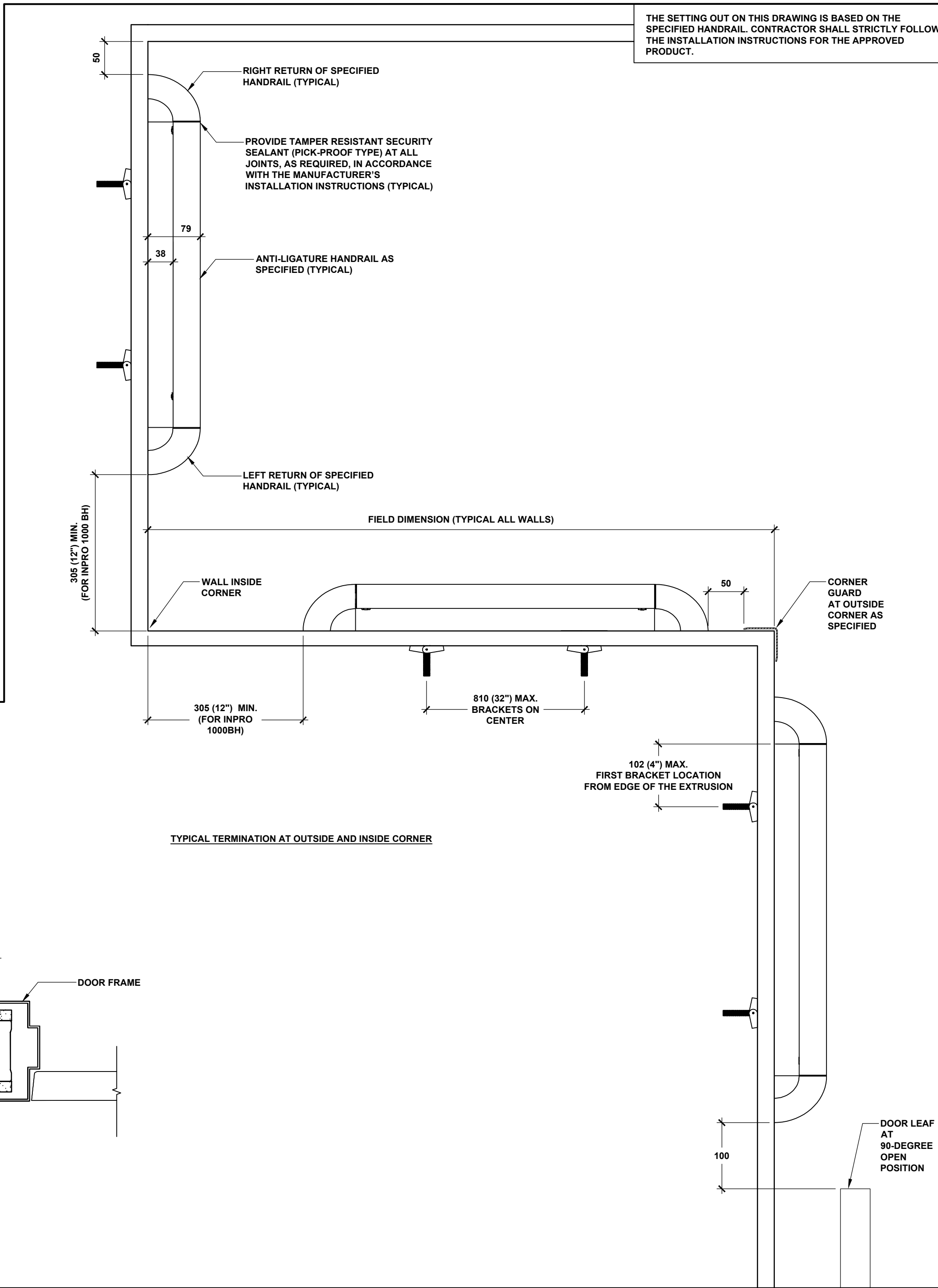
06 TYPICAL BASE DETAIL - VINYL COVE BASE AND WHITEROCK TRANSITION
A-700 1:5



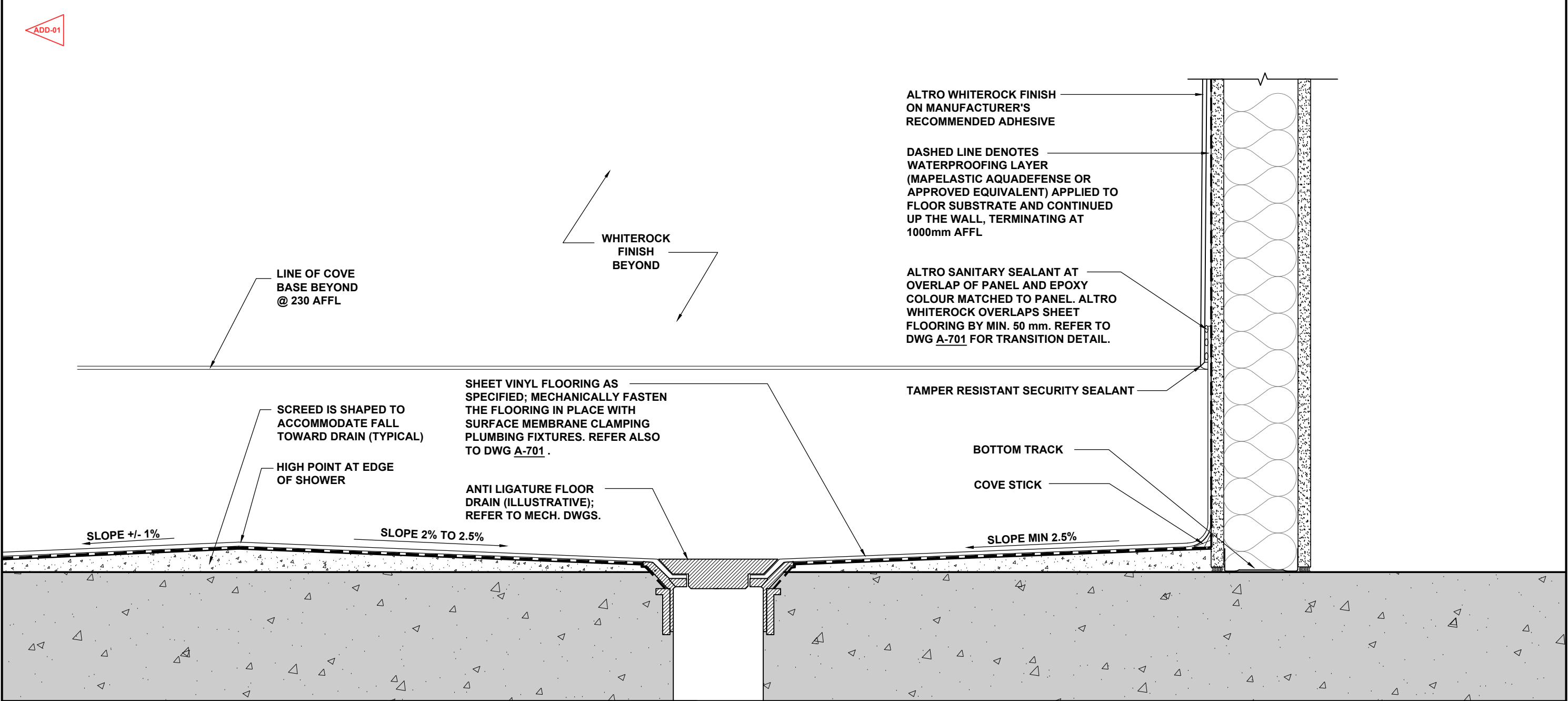
02 STEEL POST DETAIL- PICU PATIENT ROOM
A-700 1:5



05 TYPICAL HANDRAIL DETAIL
A-700 NTS.



07 TYPICAL HANDRAIL TERMINATION DETAILS AND CORNER DETAILS
A-700 NTS.



03 TYPICAL DETAIL FOR FLOORING AT SHOWER
A-700 NTS

NOT FOR CONSTRUCTION

SHEET ISSUANCE

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1	Re-issued with ADDENDUM 1	2026-06-24
NO		

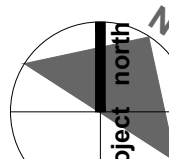
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5	Issued for PERMIT and TENDER	2026-06-04
4	Issued for Final Review	2026-05-29
3	Issued for Review	2026-02-13
2	Issued for Review	2025-07-25
1	Issued for Review	2025-03-25
NO	ACTION	DATE

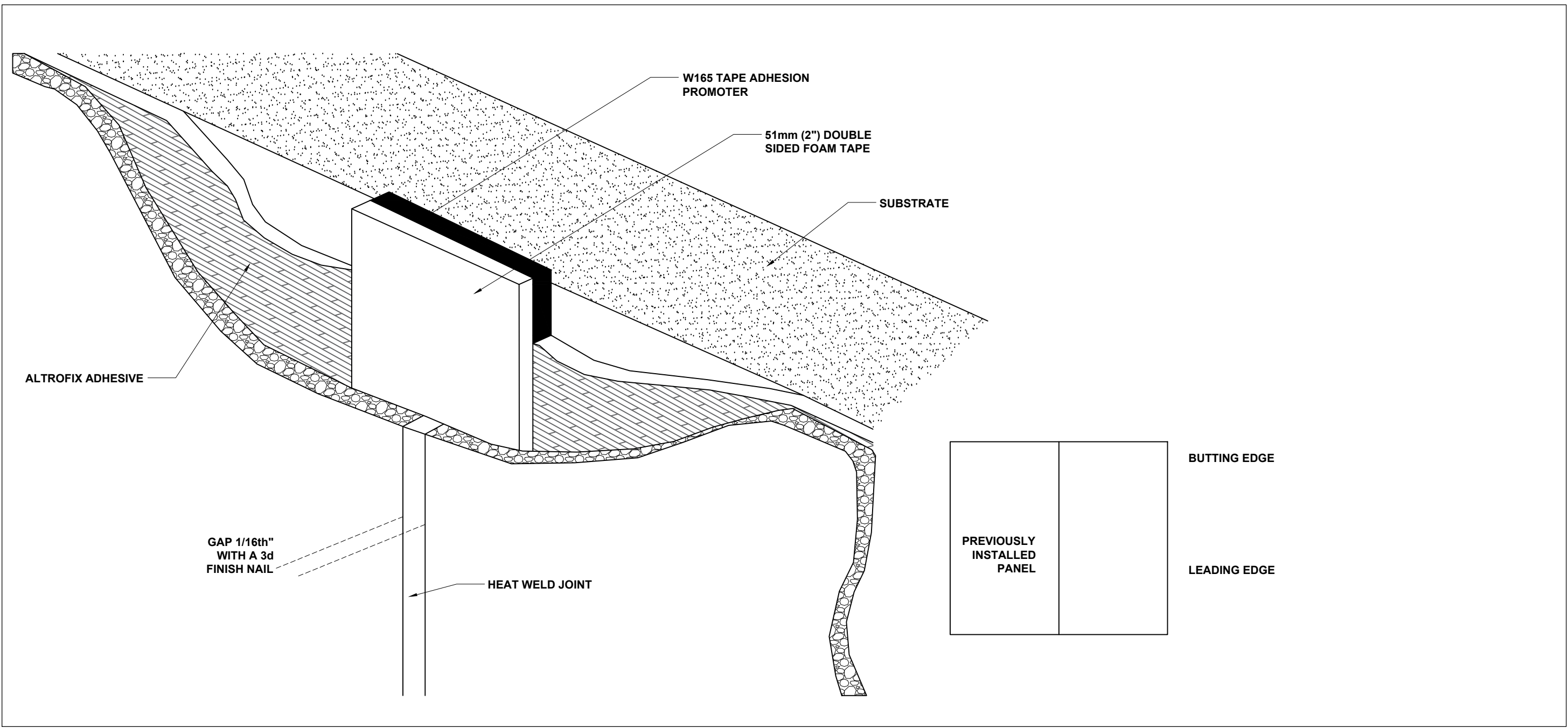
Client:
SCARBOROUGH HEALTH NETWORK
3030 BIRCHMOUNT ROAD
SCARBOROUGH, ON

Project Title:
SHN MENTAL HEALTH
INPATIENT CONSOLIDATION
POD 3A

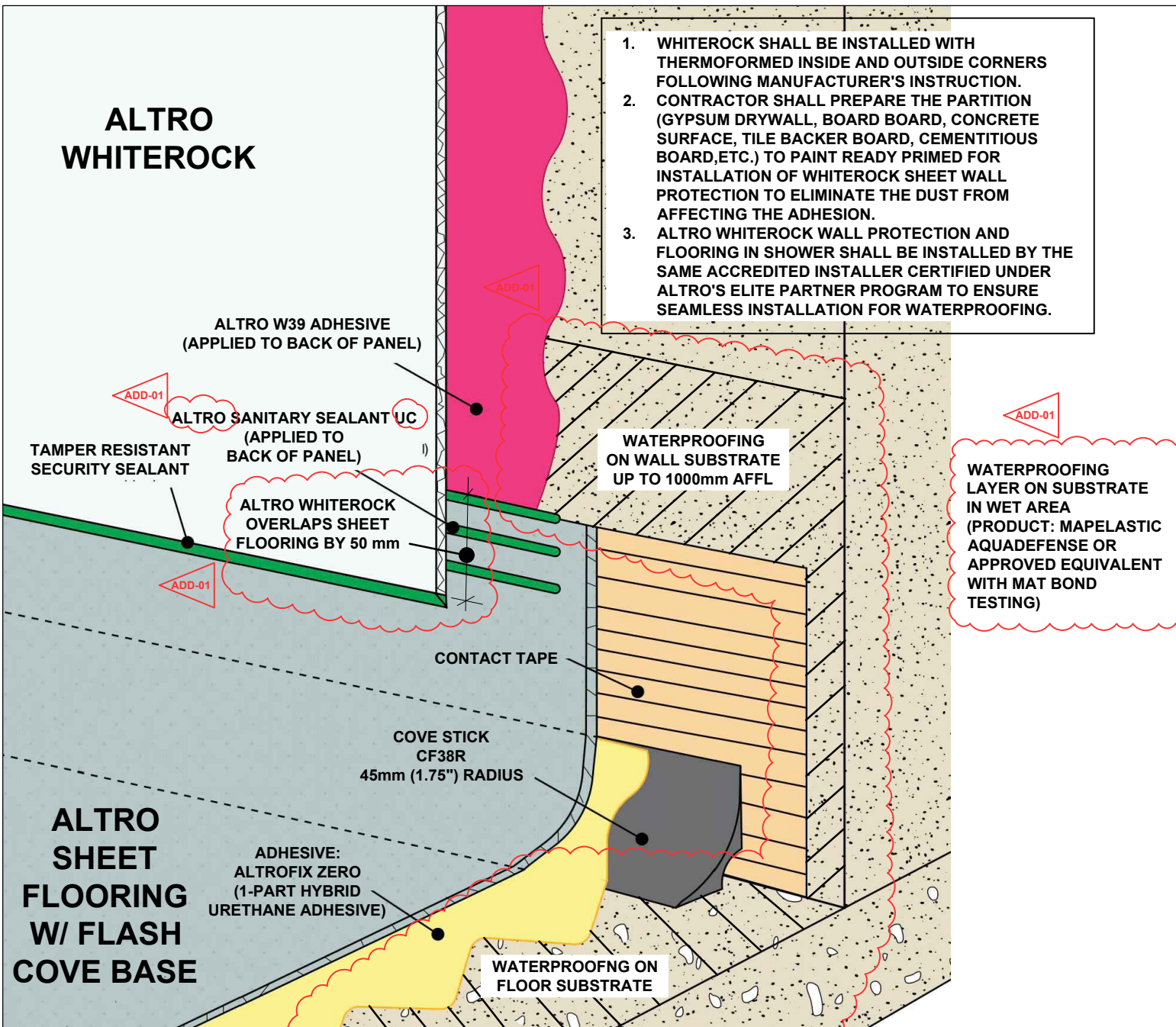
Sheet Title:
MISCELLANEOUS DETAILS

Project North 	Stamp	
Date: MAR 2025	Project No.: 24-20	
Scale: AS NOTED	Drawn: AC	Checked: HH

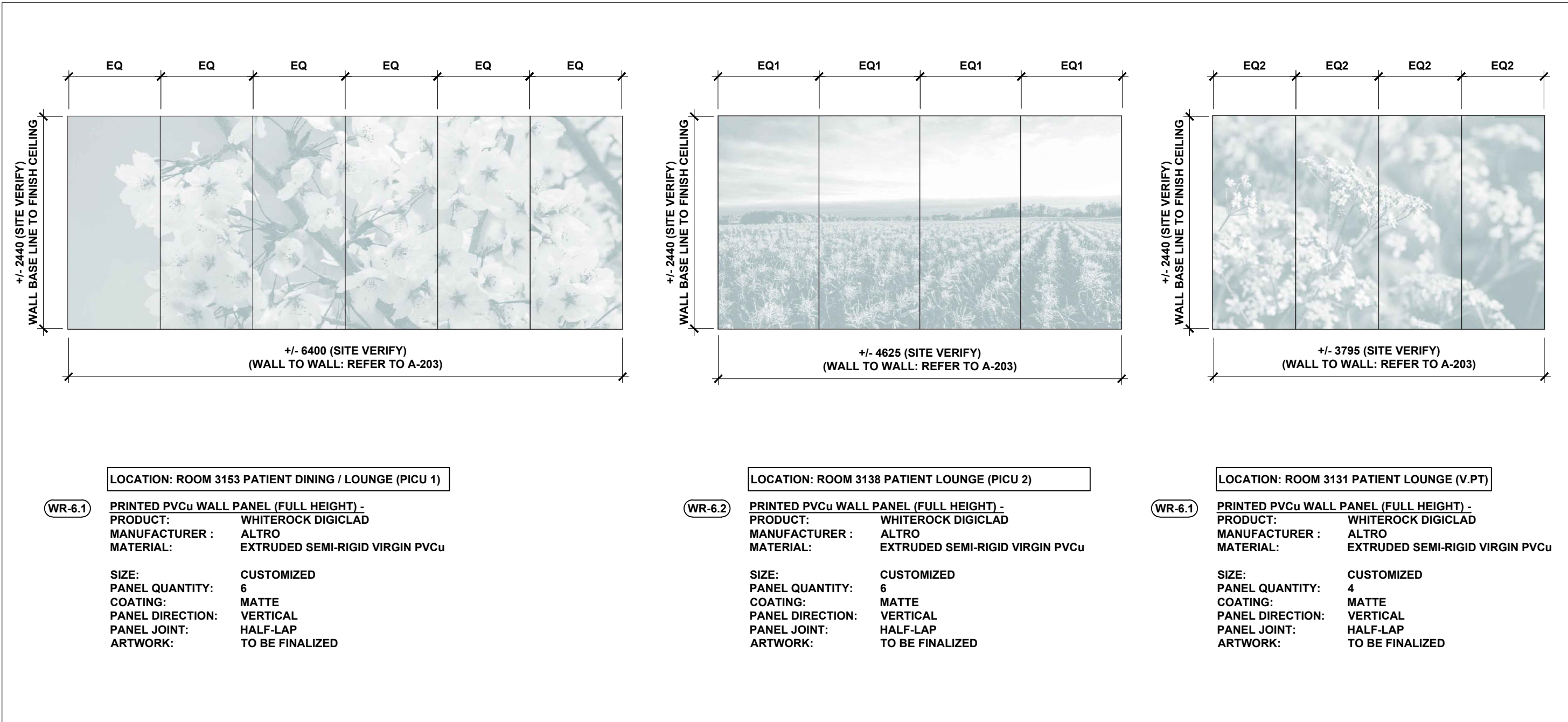
A-700



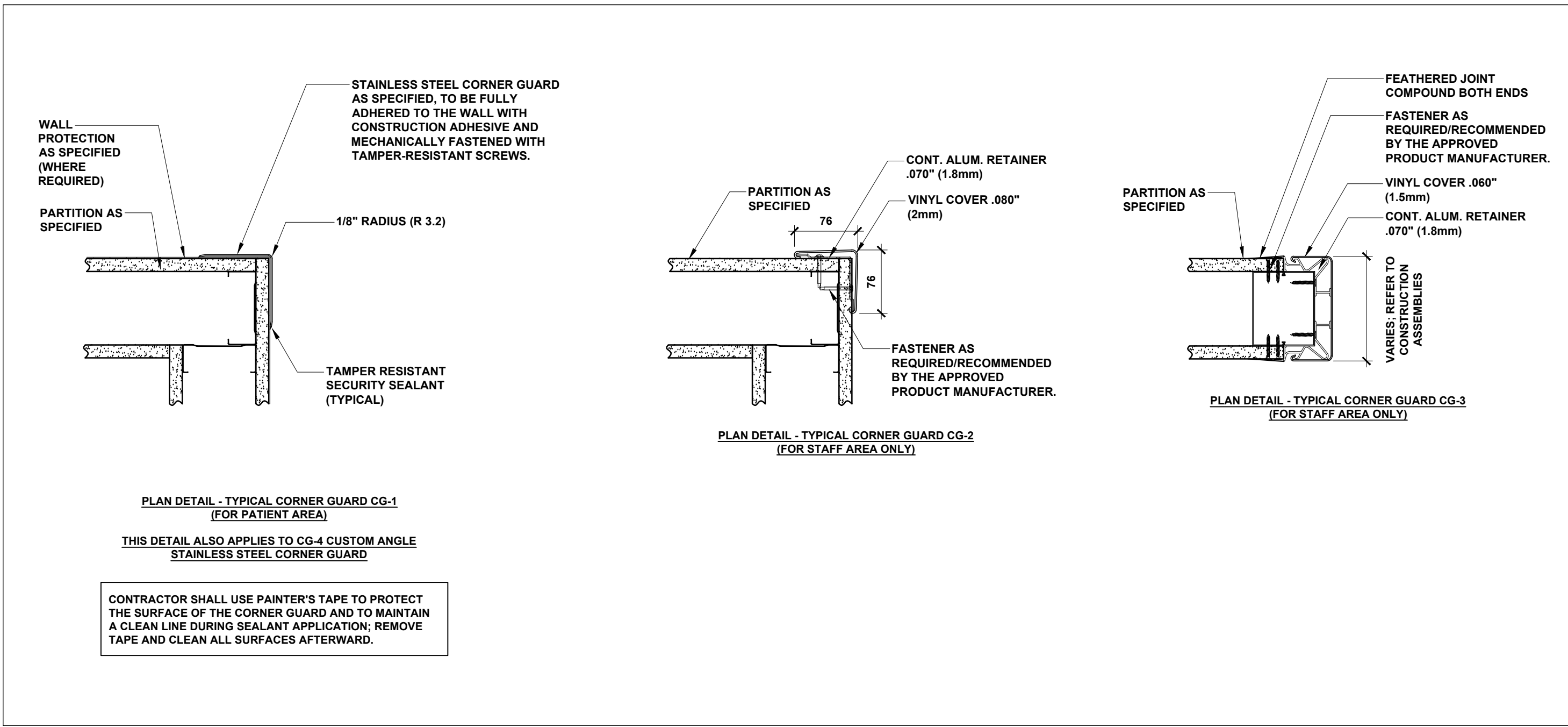
01 TYPICAL ALTO WHITEROCK WALL CLADDING HEAT WELD
A-701 NTS. REFERENCE DETAIL FROM ALTRO



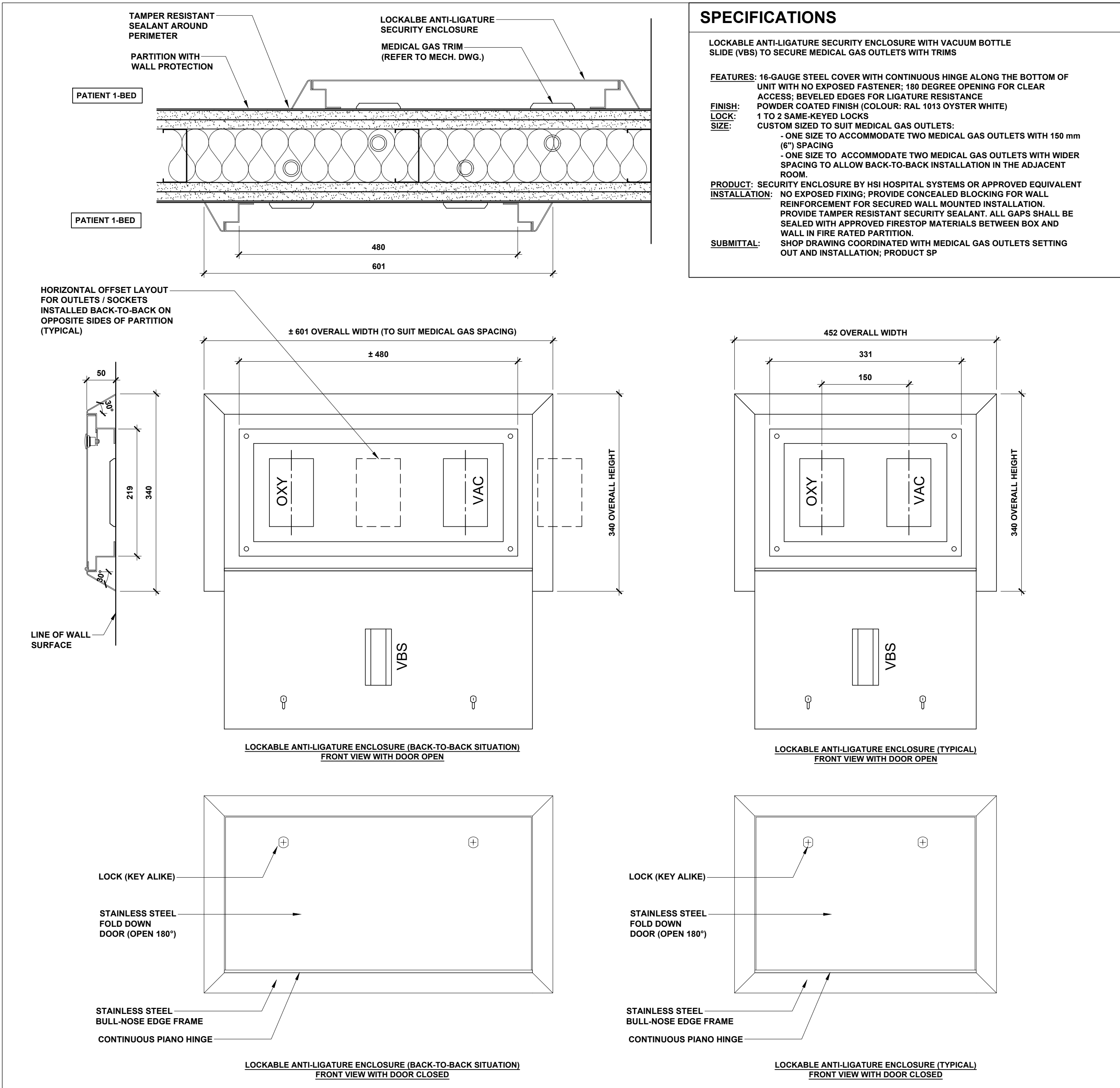
02 TYPICAL WALL AND FLOORING TRANSITION AT SHOWER
A-701 NTS. REFERENCE DETAIL FROM ALTRO



04 TYPICAL ALTRO WHITEROCK DIGICLAD PANEL LAYOUT
A-701 NTS.



05 TYPICAL CORNER GUARD DETAILS
A-701 1:5



06 LOCKBLE ANTI-LIGATURE ENCLOSURE OVER MEDICAL GAS OUTLETS DESIGN REQUIREMENT
A-701 1:5

NOT FOR CONSTRUCTION

SHEET ISSUANCE		
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1	Re-issued with ADDENDUM 1	2026-06-24
NO		

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5	Issued for PERMIT and TENDER	2026-06-04
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2	Issued for Review	2025-07-25
1	Issued for Review	2025-03-25
NO	ACTION	DATE

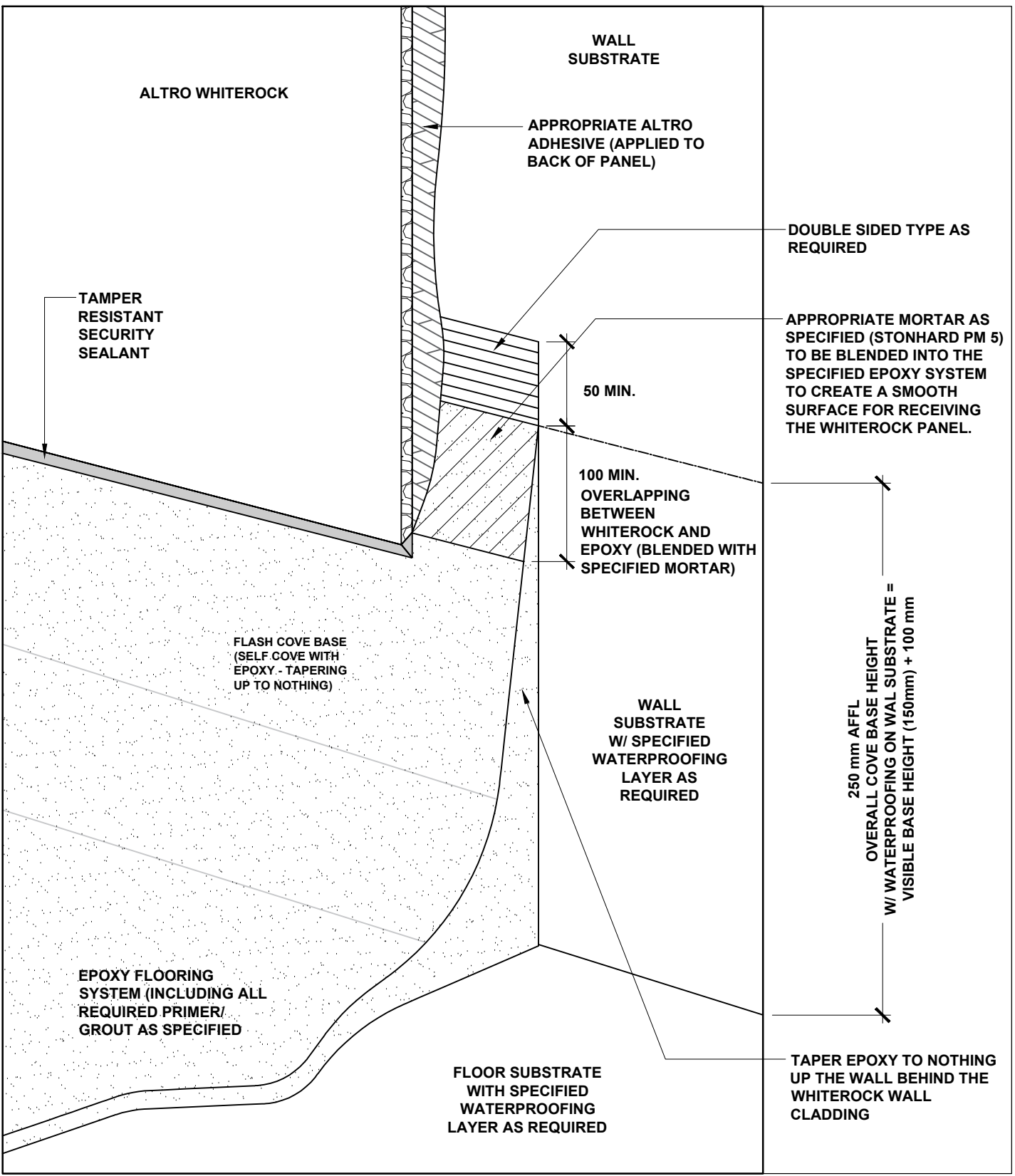
Client:
SCARBOROUGH HEALTH NETWORK
3030 BIRCHMOUNT ROAD
SCARBOROUGH, ON

Project Title:
SHN MENTAL HEALTH
INPATIENT CONSOLIDATION
POD 3A

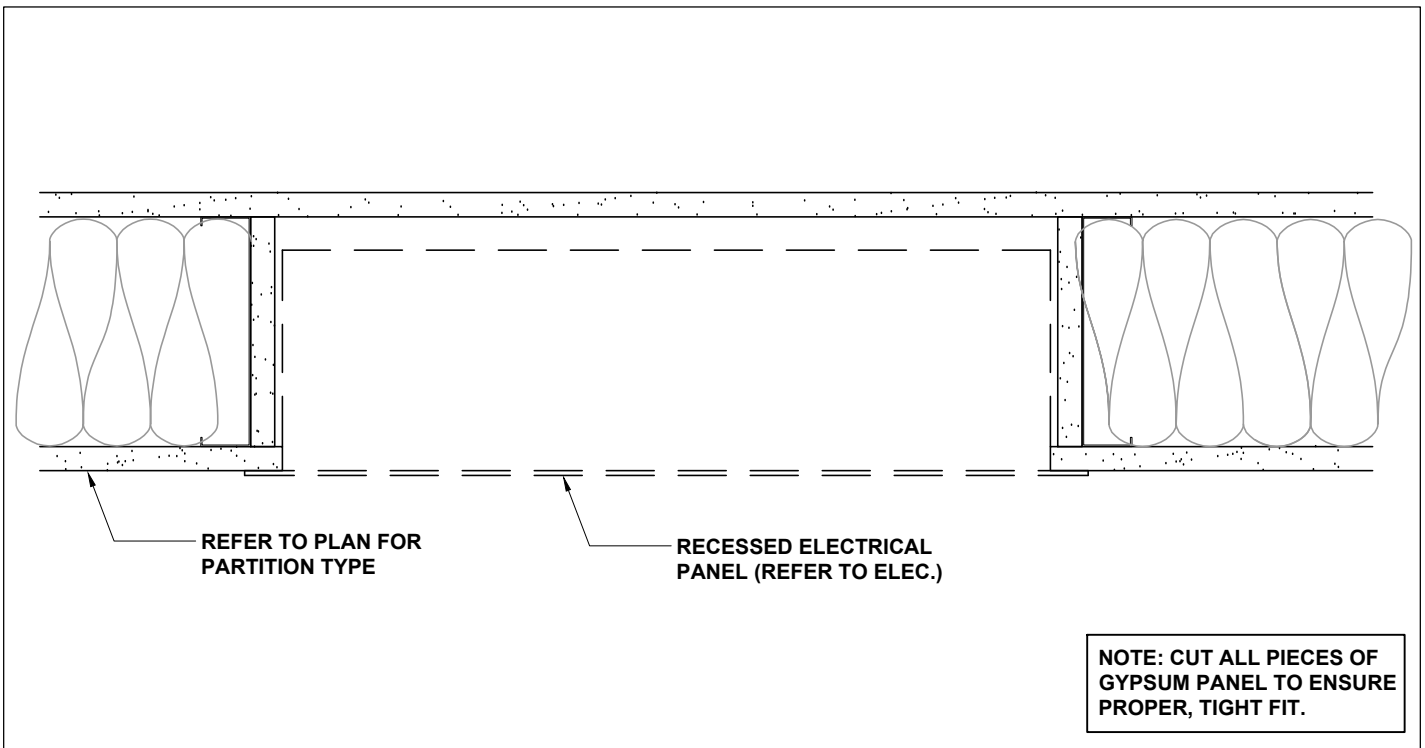
Sheet Title:
MISCELLANEOUS DETAILS

Project North	Stamp
Date: MAR 2025	Project No.: 24-20
Scale: 1:5	Drawn: AC
Drawing Number:	Checked: HH

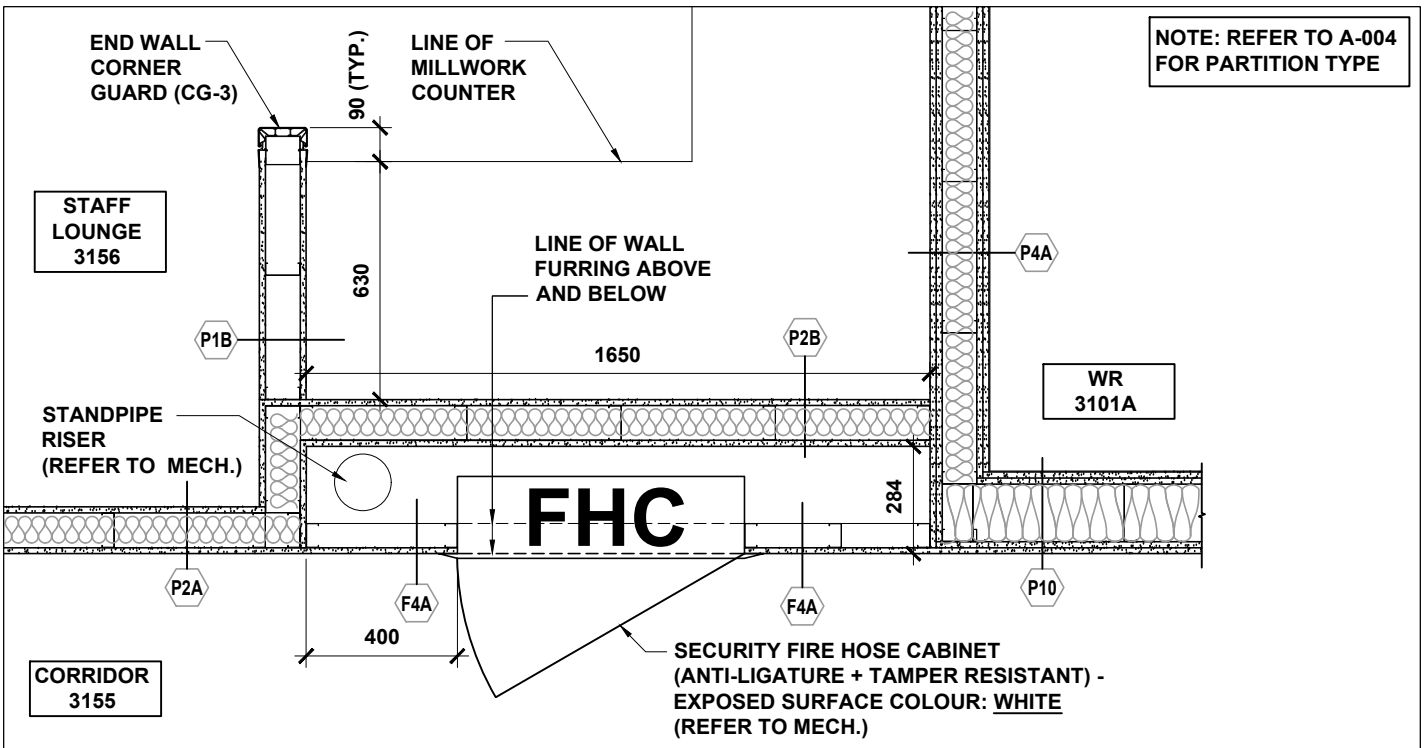
ADD-01 **A-701**



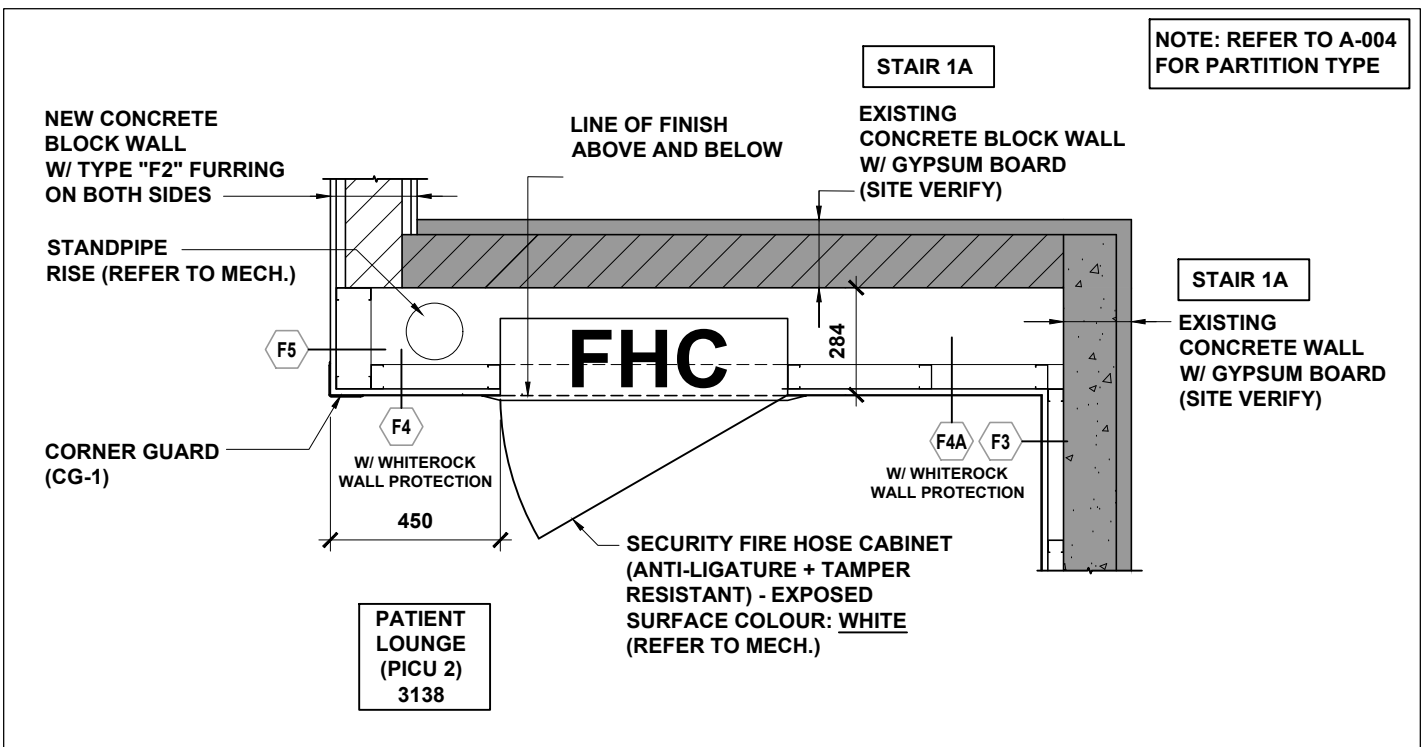
01 TYPICAL DETAIL: EPOXY BASE DETAIL AT WHITEROCK
A-702 SCALE: NTS



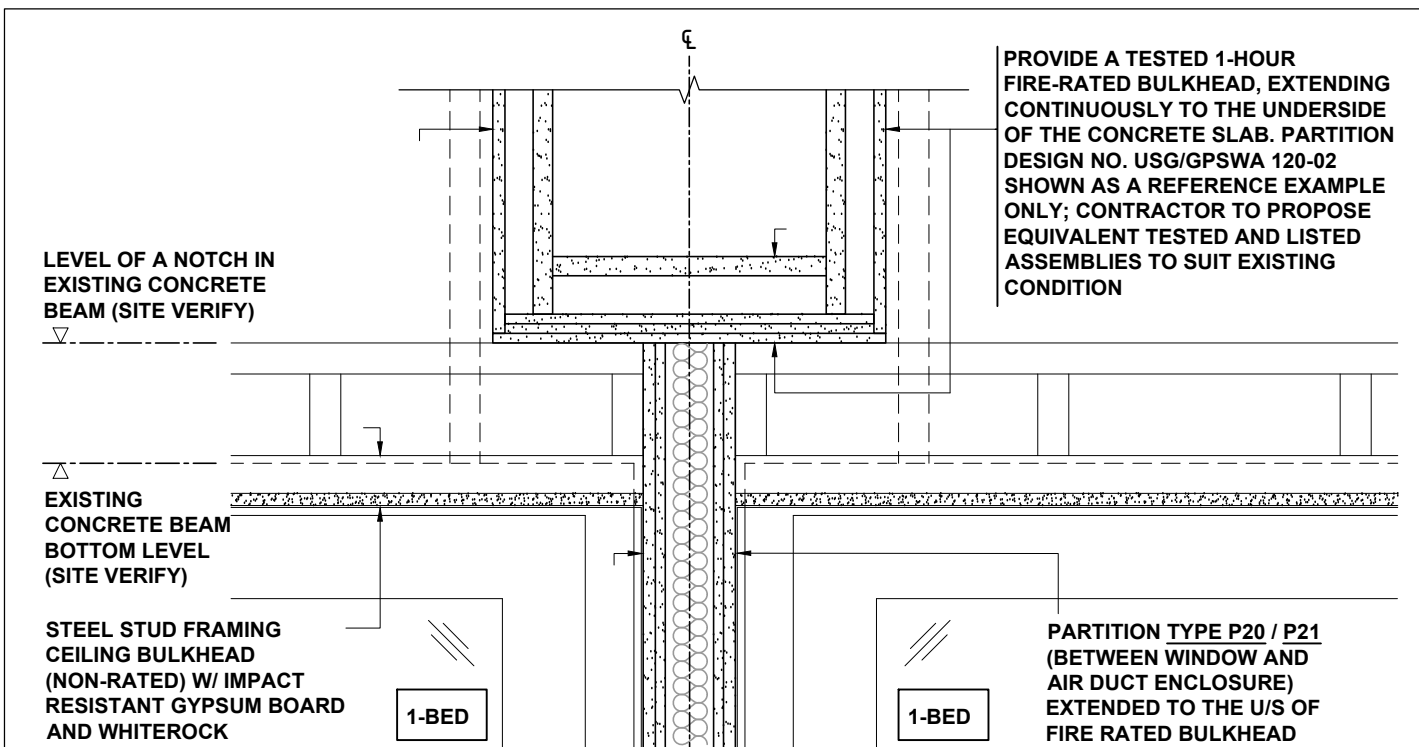
13 TYPICAL PLAN DETAIL: NON RATED PARTITION WITH RECESSED PANEL
A-702 1:5



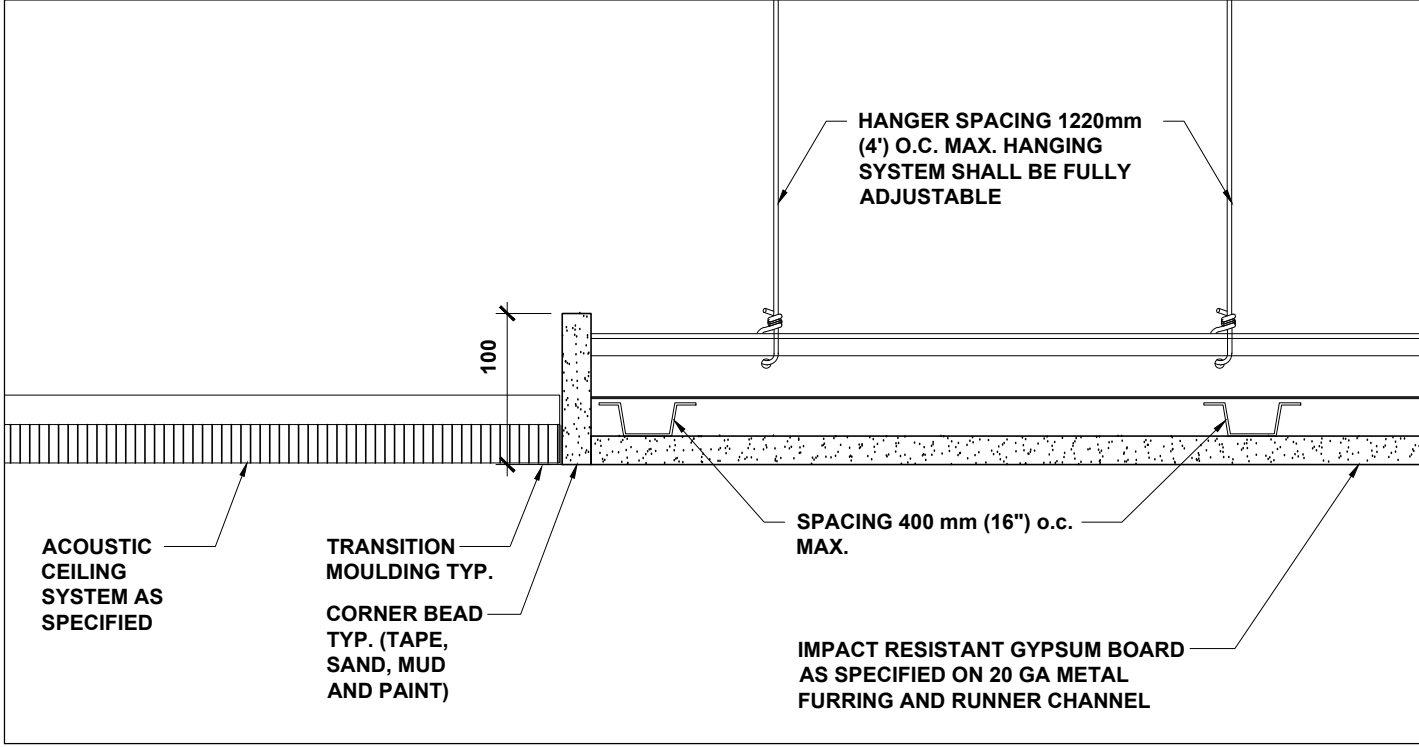
03 PLAN DETAIL AT FIRE HOSE CABNETS
A-702 1:10 CORRIDOR 3155



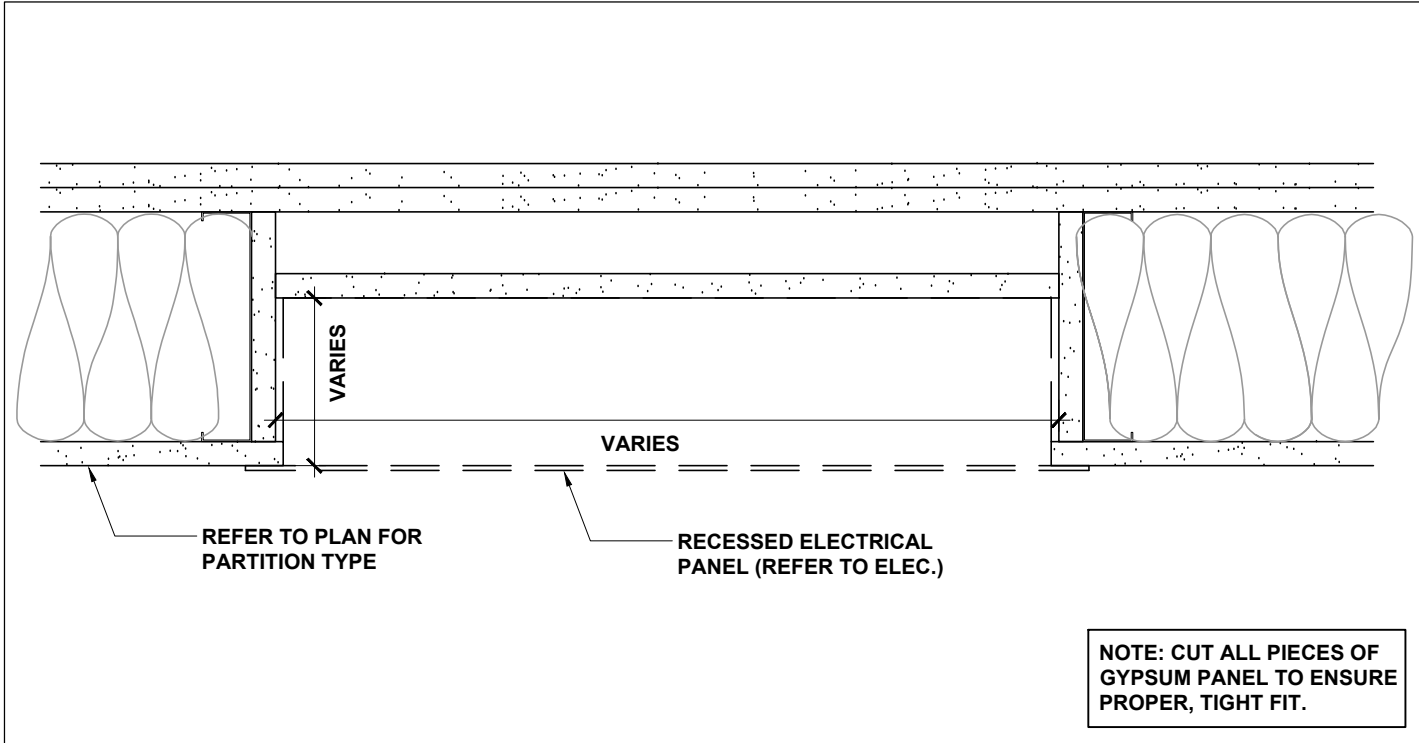
04 PLAN DETAIL AT FIRE HOSE CABNETS
A-702 1:10 PATIENT LOUNGE 3138



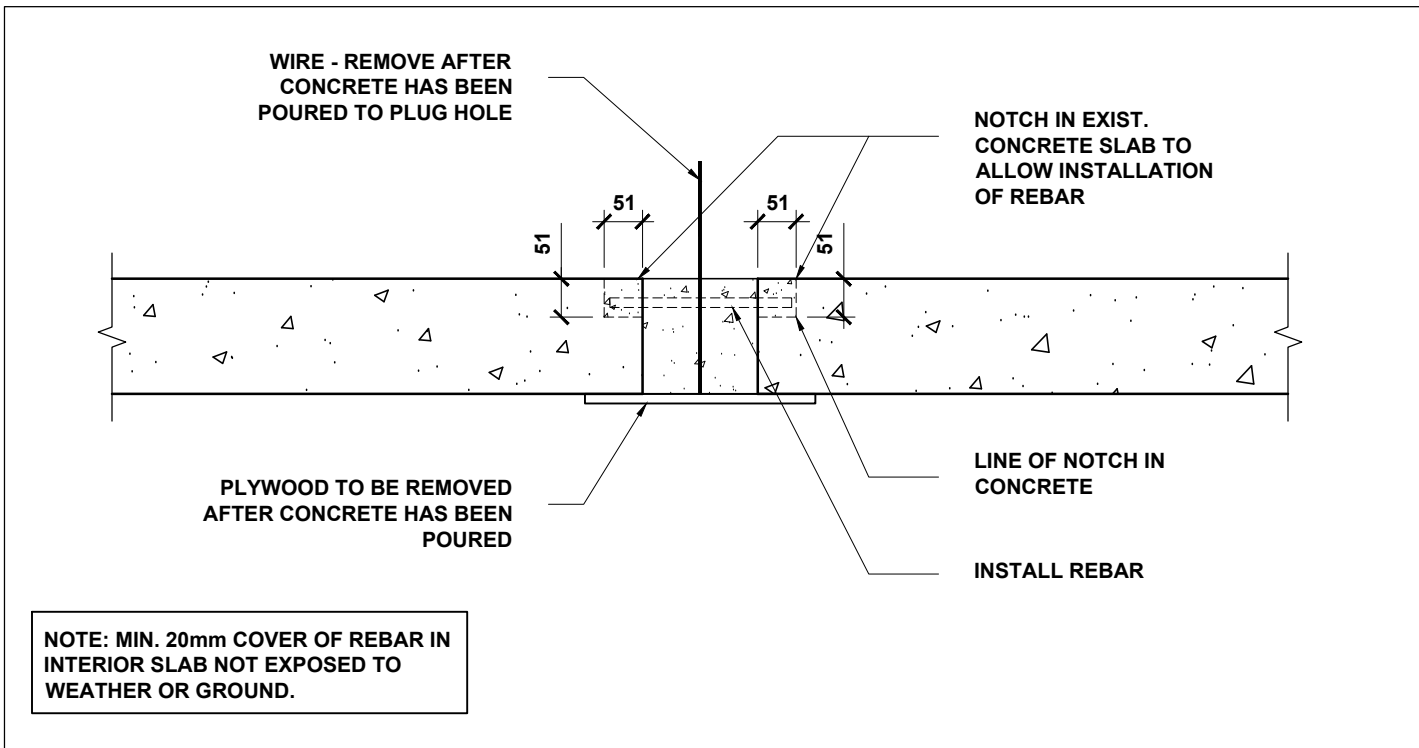
05 TYPICAL SECTION THROUGH TYPE P20/P21 PRATITION AND BULKHEADS LOOKING TOWARD INT. FACE OF WINDOW.
A-702 1:10



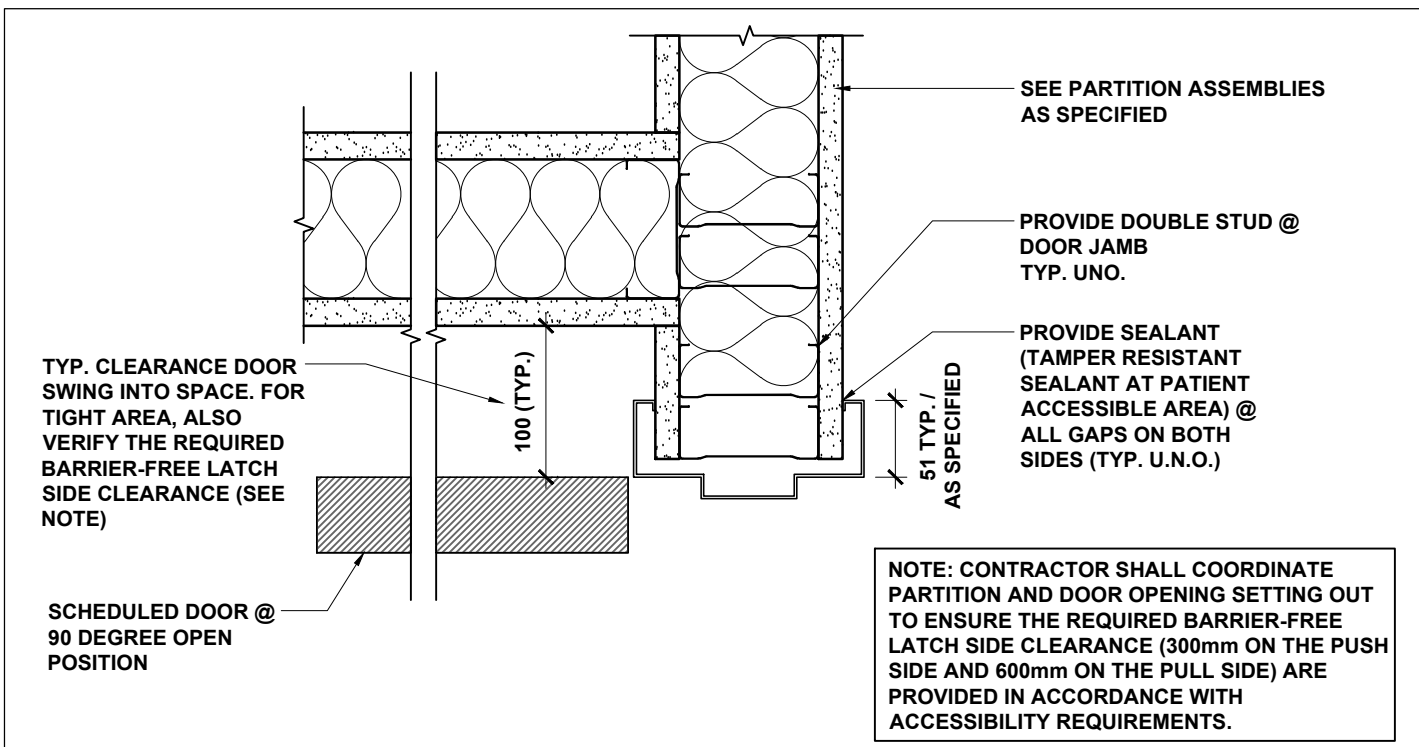
06 TYPICAL SUSPENDED GYPSUM BOARD CEILING AND TRANSITION WITH ACOUSTIC CEILING SYSTEM
A-702 1:5



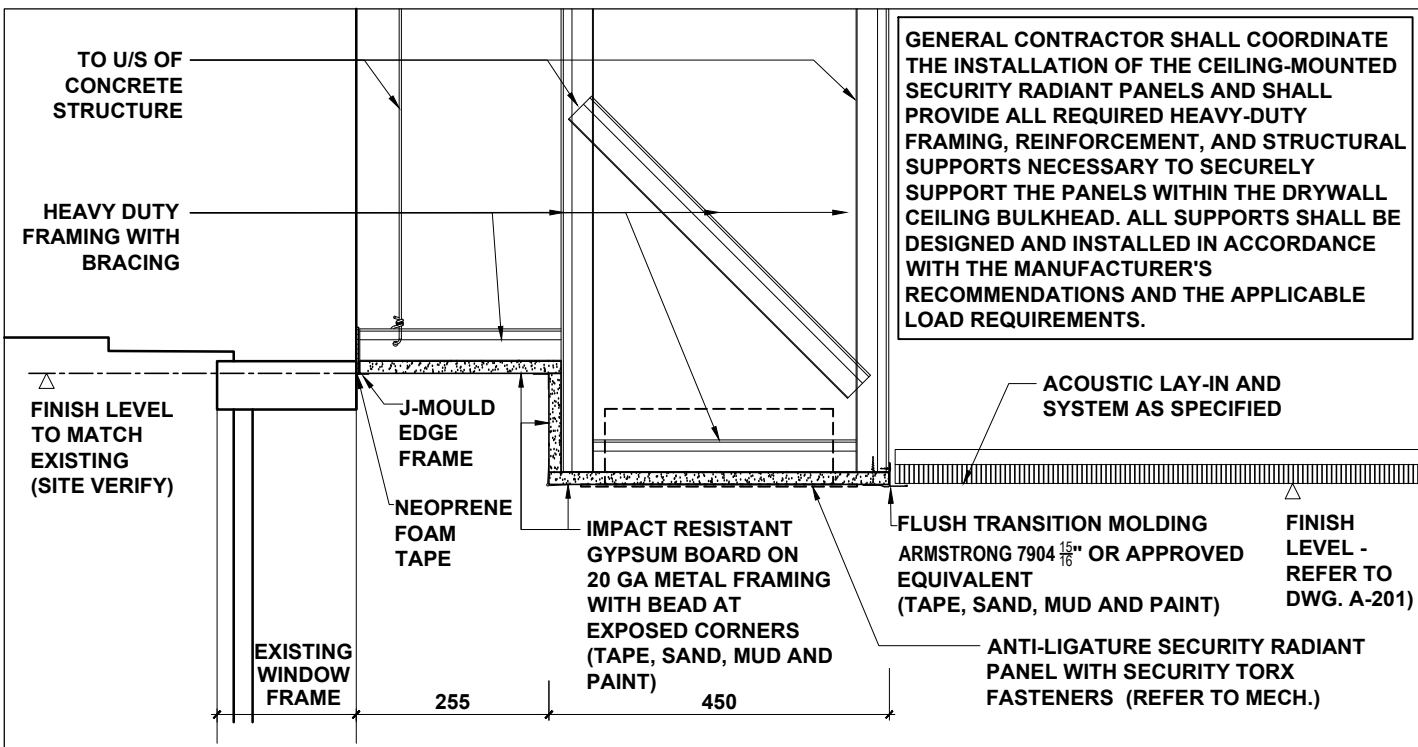
07 TYPICAL PLAN DETAIL: FIRE RATED PARTITION (1 HOUR) WITH RECESSED PANEL
A-702 1:5



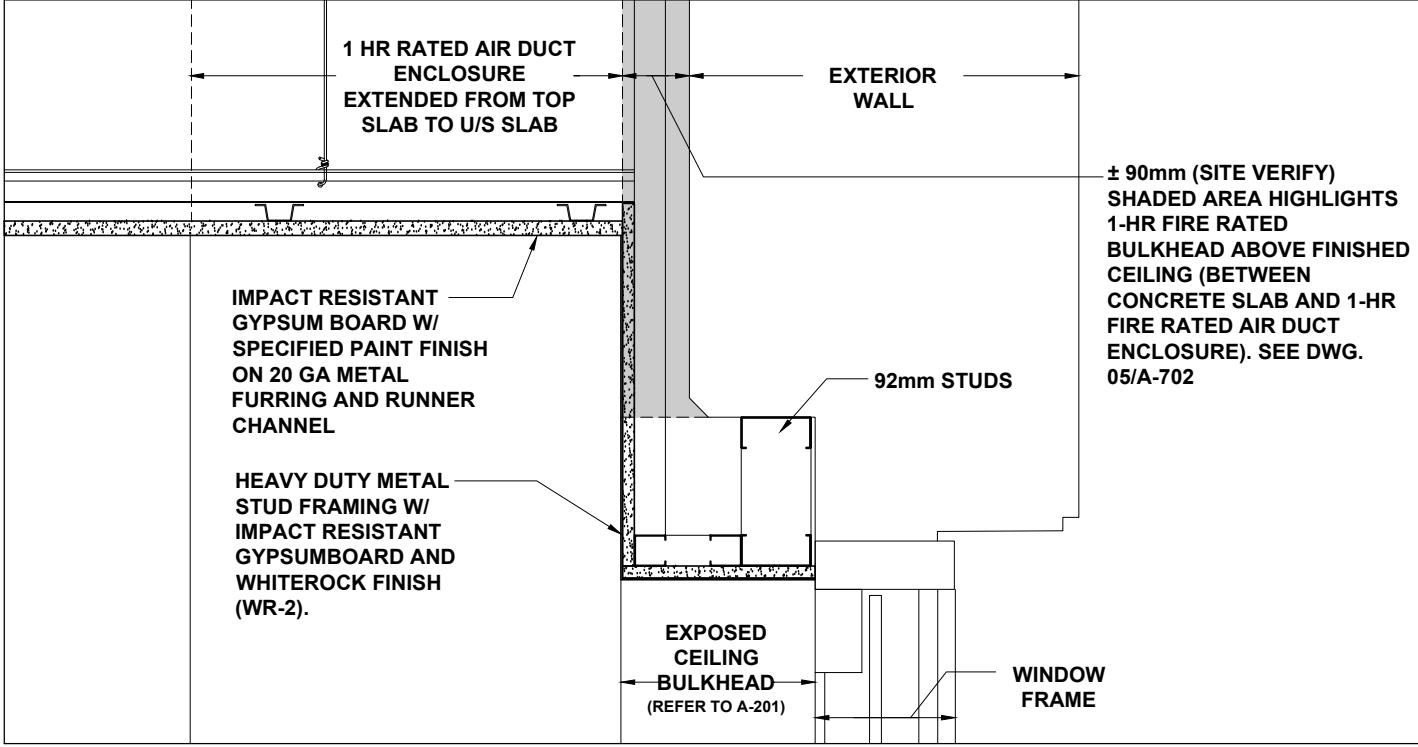
08 TYPICAL DETAIL SECTION AT INFILL OF EX. FLOOR CORE
A-702 1:10



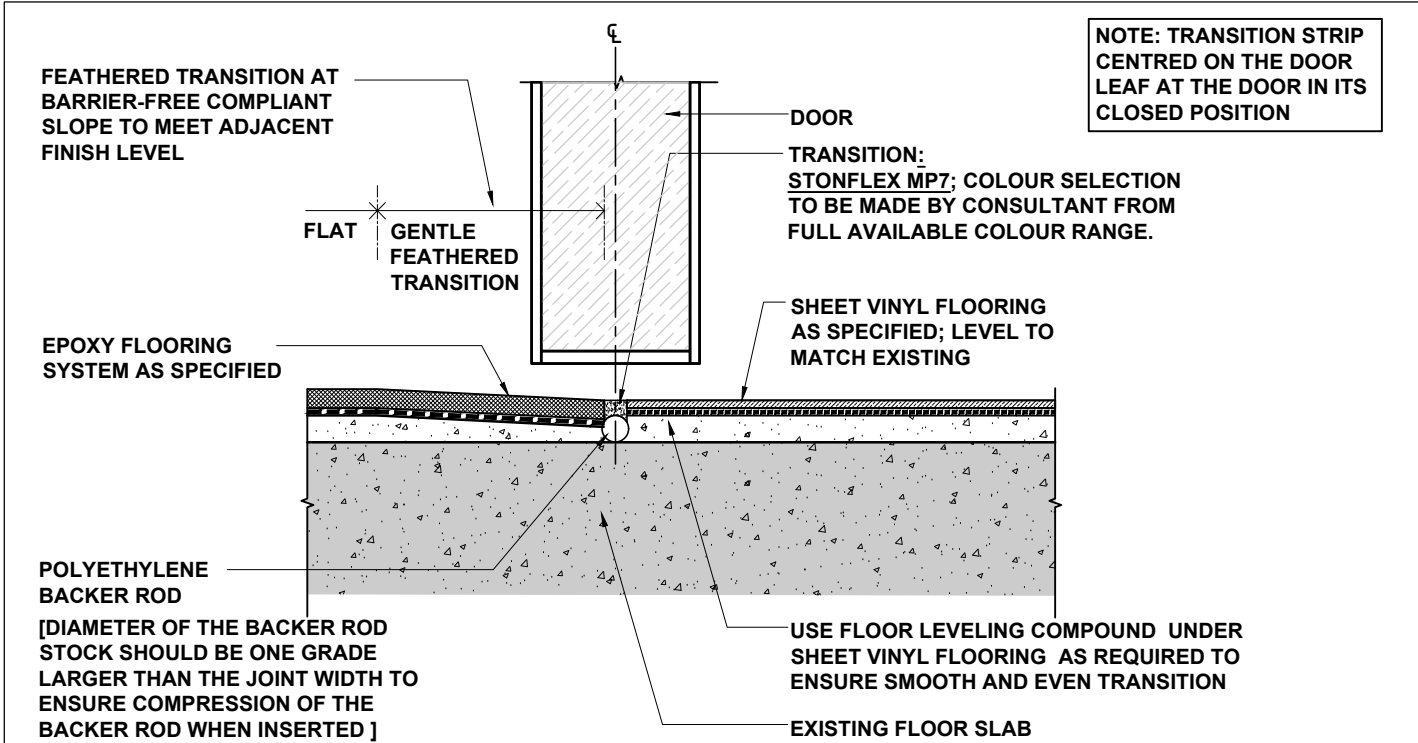
09 TYPICAL FRAME LOCATION FROM THE EDGE OF WALL U.N.O.
A-702 1:5



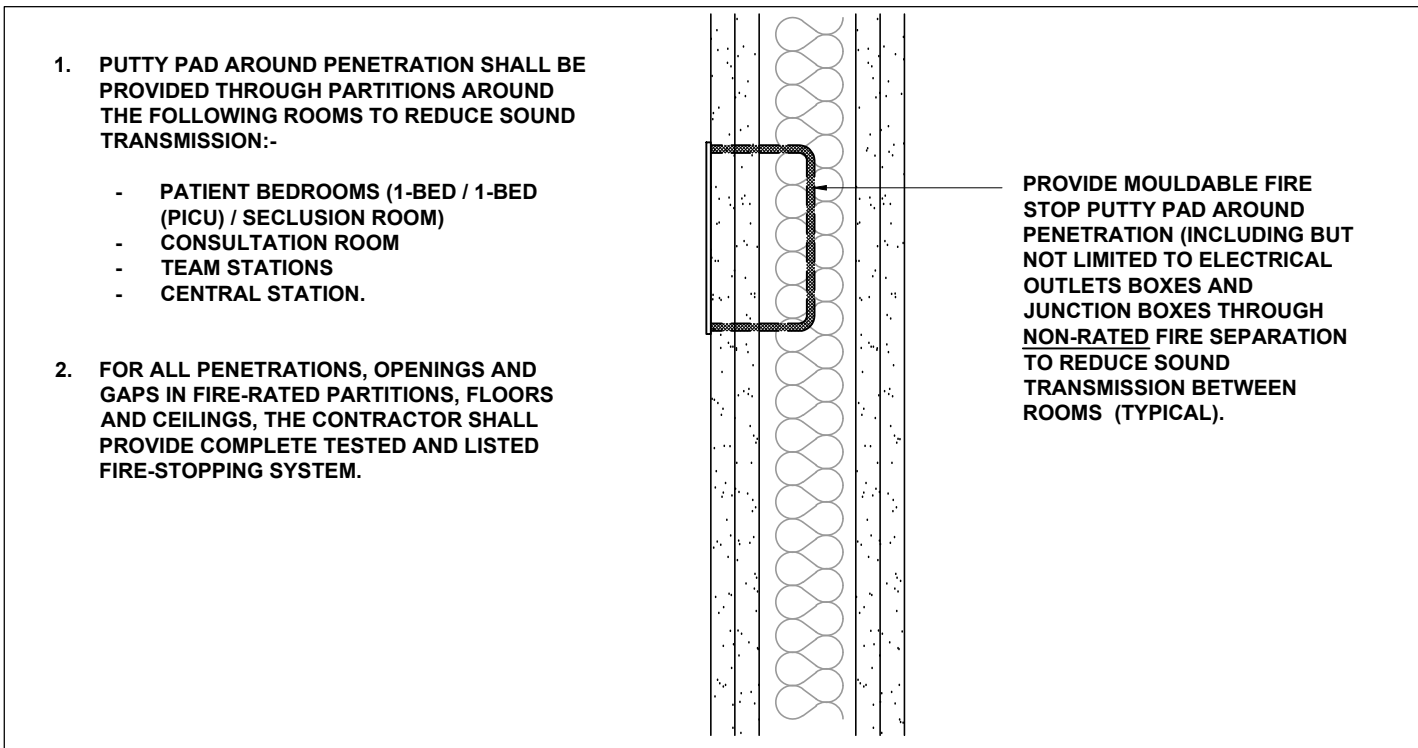
10 SECTION: TYPICAL DRYWALL CELING BULKHEAD WITH SECURITY RADIANT PANEL AT EX. WINDOW
A-702 1:10



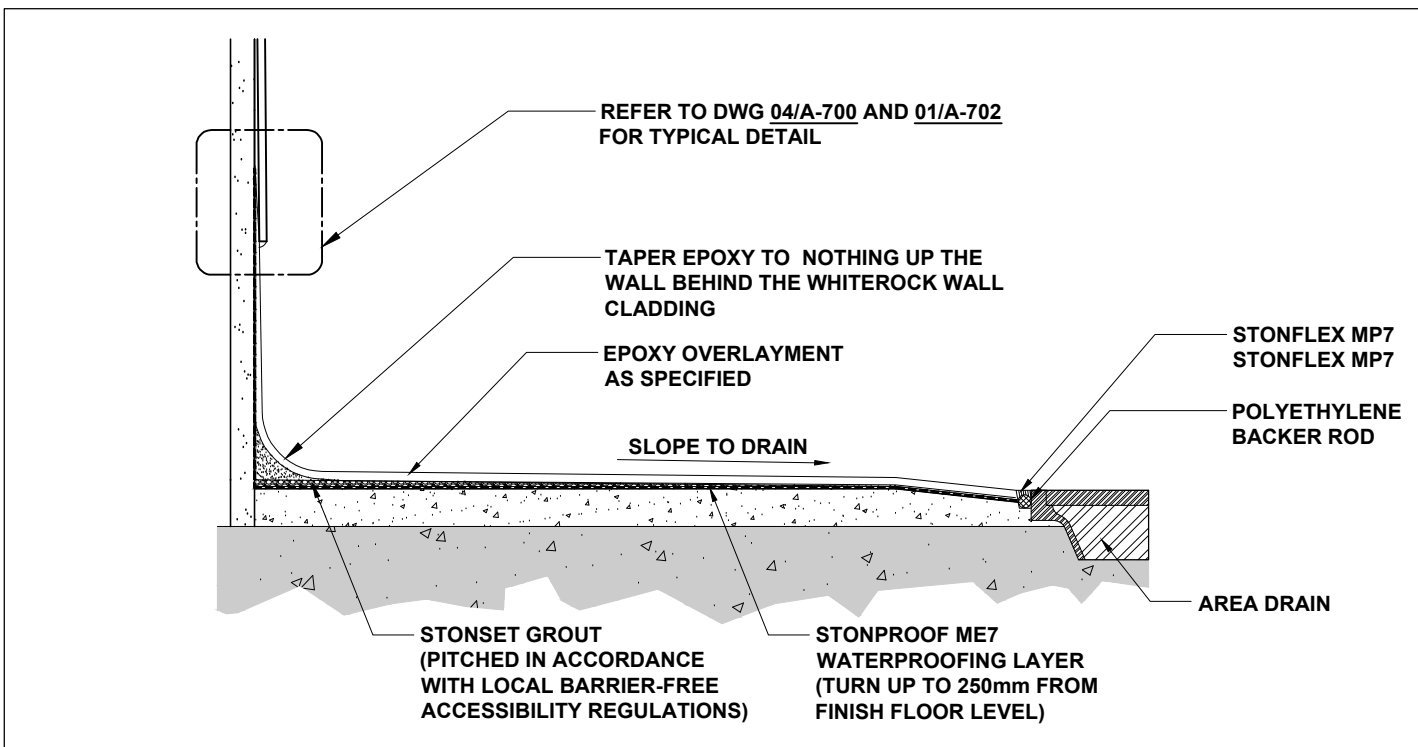
11 SECTION: TYPICAL DRYWALL CELING BULKHEAD AT PATIENT BEDROOM (1-BED)
A-702 1:10



12 TYPICAL DETAIL: TRANSITION BETWEEN SHEET VINYL AND EPOXY FLOORING
A-702 1:2



13 PUTTY PAD FOR ENHANCED ACOUSTIC PERFORMANCE
A-702 NTS



13 TYPICAL DETAIL FOR EPOXY FLOORING WITH FLOOR DRAIN
A-702 NTS

SHEET ISSUANCE

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1	New sheet issued with ADDENDUM 1	2026-06-24
NO		

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5	Issued for PERMIT and TENDER	2026-06-04
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3	Issued for Review	2026-02-13
2	Issued for Review	2025-07-25
1	Issued for Review	2025-03-25
NO	ACTION	DATE

Client:
SCARBOROUGH HEALTH NETWORK
3030 BIRCHMOUNT ROAD
SCARBOROUGH, ON

Project Title:
SHN MENTAL HEALTH INPATIENT CONSOLIDATION POD 3A

Sheet Title:
MISCELLANEOUS DETAILS

Project North	Stamp
Date: JUN 2026	Project No.: 24-20
Scale: AS NOTED	Drawn: AC
	Checked: HH
Drawing Number:	



Addendum

Queen's Quay Terminal
207 Queen's Quay West, Suite 615
Toronto, Ontario M5J 1A7
Phone 416-598-2920 Fax 416-598-5394
www.mcw.com

Date: June 23, 2026

Project Name: SHN Mental Health Inpatient Consolidation Pod 3A

Client: Scarborough Health Network

To: Hanson + Jung Architects Inc.

Attention: Angela Chan (angela@hjarchitects.ca)

From: Samuel Chan (samuelchan@mcw.com)

Distribution: Heidi Hanson (heidi@hjarchitects.ca)

Wilson Jung (wilson@hjarchitects.ca)

Mark Caminiti (mcaminiti@mcw.com)

Project #: 24002-02

ADD #: M-01

Page #: 1 of 1

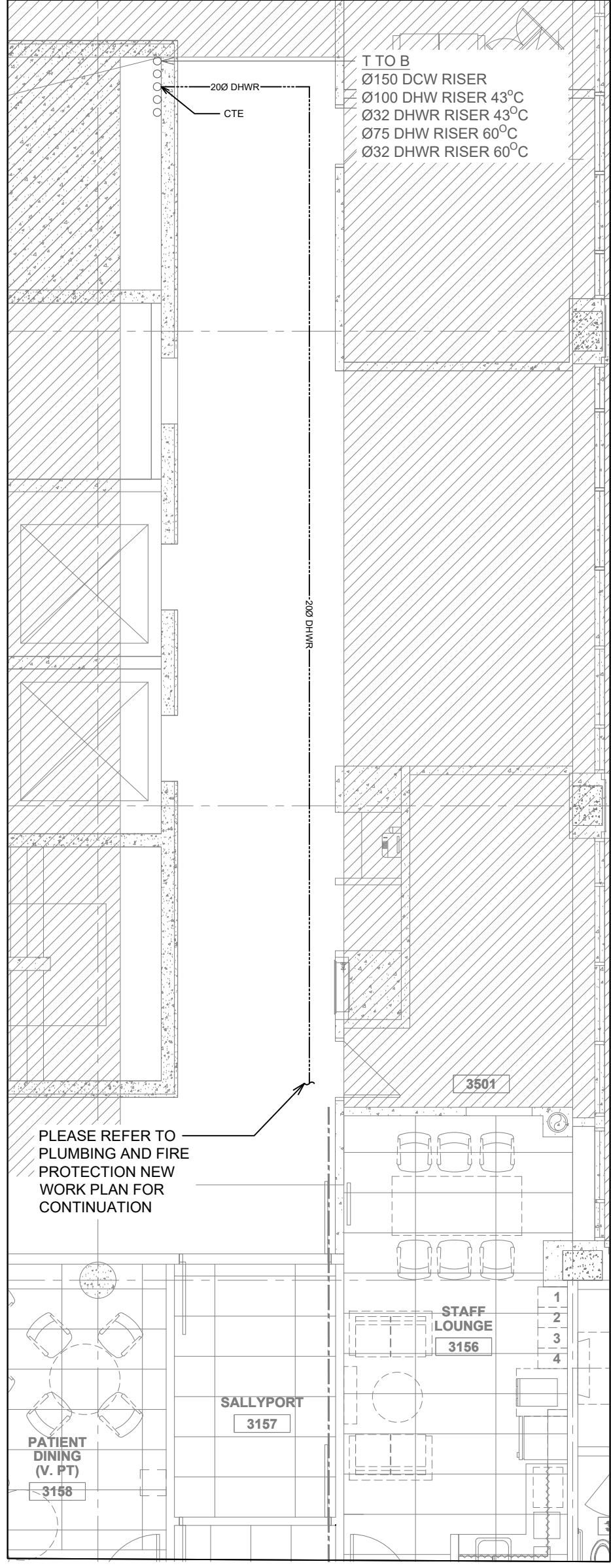
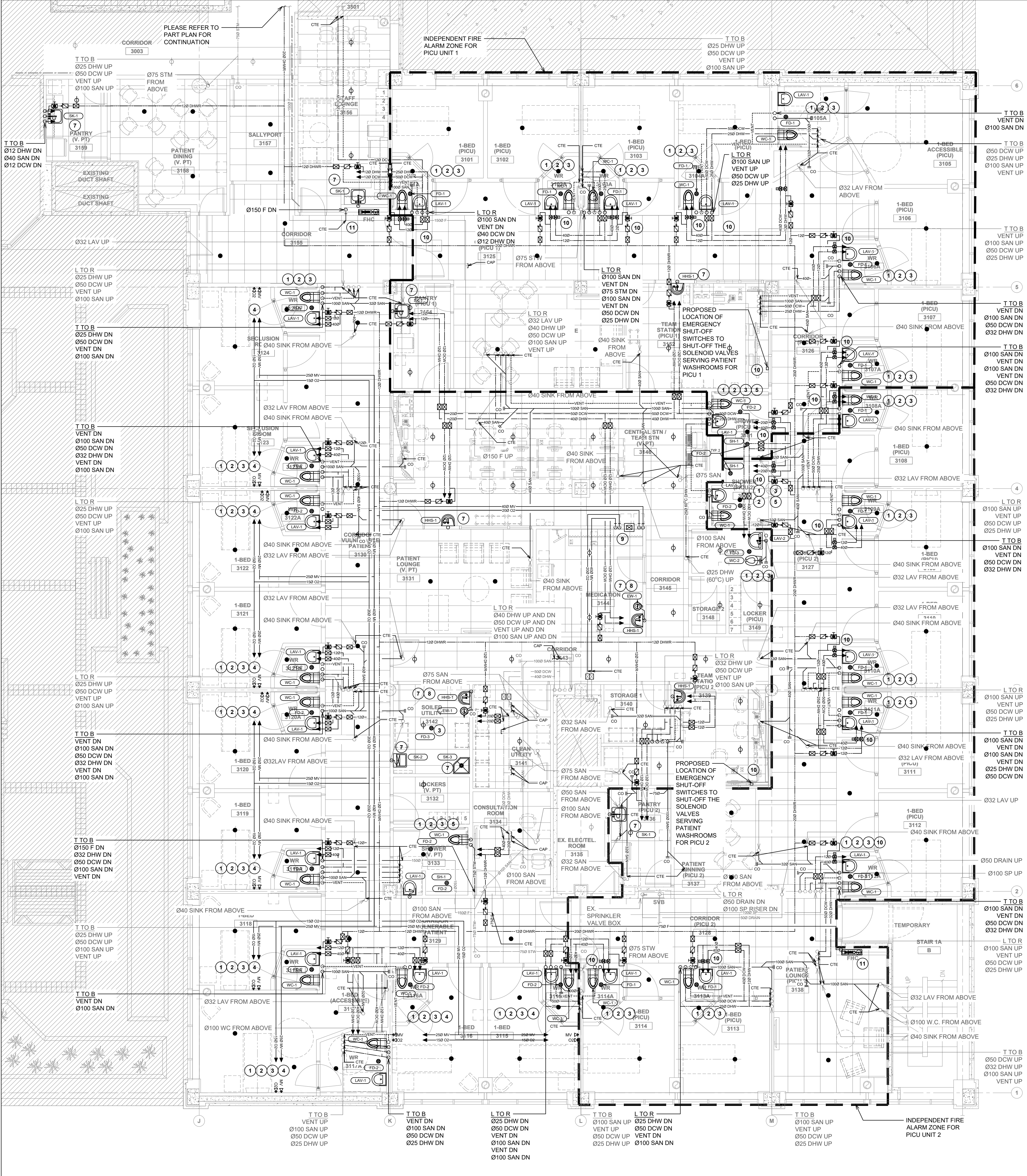
+ Attachment

In accordance with the drawings and specifications, provide in the tender all costs required to complete the work including items as listed below.

Mechanical:

Reference	Description
M-101	1. Revised general note No. 17.
M-201	1. Revised general note No. 17.
ME-500	1. Updated note for radiant schedule. 2. Added radiant panel installation detail.

End of ADD # M-01



- ### GENERAL NOTES
- CONTRACTOR TO VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION AND REPORT ALL DISCREPANCIES WITH CONTRACT DOCUMENTS TO THE CONSULTANT.
 - MAINTAIN ACCESS AND INTEGRITY OF FIRE EXITS AT ALL TIMES.
 - CONTRACTOR IS TO REVIEW & FOLLOW THE HOSPITAL'S CONSTRUCTION GUIDELINES PRIOR TO COMMENCEMENT OF ANY WORK. ALL NOISE AND NOXIOUS WORK TO BE DONE AFTER HOURS AND ARRANGED WITH HOSPITAL BEFOREHAND.
 - DETERMINE THE EXTENT OF DEMOLITION AND PROVIDE THE NECESSARY PROTECTION TO ADJACENT AREAS NOT AFFECTED BY THIS CONTRACT.
 - IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO REPAIR DAMAGES TO THE PREMISES RESULTING FROM DEMOLITION / CONSTRUCTION WORK.
 - ENSURE THAT ALL REQUIRED FIRE SEPARATIONS ARE MAINTAINED IN WALLS, CEILINGS, FLOORS, AND INTERSTITIAL.
 - REFER TO DWGS. FOR SALVAGED ITEMS NOT BEING REUSED IN THE RENOVATION TO BE RETURNED TO OWNER. IN ADDITION, CONSULT WITH OWNER'S REPRESENTATIVE FOR OTHER SALVAGED ITEMS TO BE RETURNED TO OWNER. ALL OTHER ITEMS TO BE DEMOLISHED OR REMOVED BECOMES THE PROPERTY OF THE CONTRACTOR AND MUST TO BE REMOVED FROM THE SITE.
 - ALL EQUIPMENT, OR BUILDING MATERIALS INDICATED ON THE DRAWINGS TO BE RELOCATED OR RE-USED SHALL BE CAREFULLY REMOVED, SAFELY STORED, REPAIRED AS NEEDED AND RE-INSTALLED BY CONTRACTOR.
 - ALL WORK TO CONFORM TO EXISTING BY-LAWS, CODES AND AUTHORITIES HAVING JURISDICTION.
 - CONTRACTOR TO REPAIR / REPLACE ANY EXISTING FINISHES DENOTES TO REMAIN, INCLUDING BUT NOT EXCLUSIVELY SUSPENDED CEILING TILES, CEILING GRID OR GYPSUM BOARD CEILING, DAMAGED BY CONSTRUCTION. TOUCH-UP PAINTED SURFACES AFTER COMPLETION OF ALL INSTALLATION.
 - CONTRACTOR SHALL MAINTAIN THE PREMISES CLEAN AND FREE OF RUBBISH OR DEBRIS DURING CONSTRUCTION AND SHALL LEAVE THE PREMISES CLEAN UPON COMPLETION OF WORK. COORDINATE RUBBISH AND DEBRIS REMOVAL WITH THE BUILDING MANAGEMENT.
 - PROVIDE FIRE STOP SYSTEMS AT OPENINGS AND GAPS AROUND DUCTS/PIPES/ ELECTRICAL PENETRATION IN FLOORS, AND FIRE RATED PARTITIONS TO MAINTAIN INTEGRITY OF FIRE SEPARATION. USE ULC LISTED FIRE STOP PRODUCTS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS.
 - FIRESTOP ALL NEW AND EXISTING PENETRATIONS IN EXISTING FIRE RATED FLOOR ASSEMBLIES AND PARTITIONS.
 - CONTRACTOR TO PATCH, REPAIR AND MAKE GOOD EXISTING CEILING / WALLS AND MAKE READY FOR NEW FINISH.
 - DISPOSE OF ALL HAZARDOUS MATERIALS IN COMPLIANCE WITH ALL APPLICABLE REGULATION.
 - PROVIDE HEAVY-DUTY, COMMERCIAL-GRADE ACCESS PANELS FOR ALL CONCEALED MECHANICAL COMPONENTS REQUIRING MAINTENANCE OR INSPECTION (INCLUDING SHUT-OFF VALVES, DAMPER, ACTUATORS, GAV BOXES, AND CLEANOUTS), COORDINATING EXACT LOCATIONS AND SIZES WITH ALL APPLICABLE TRADES PRIOR TO INSTALLATION. REPLACE EXISTING ACCESS PANELS WITH MATCHING OPENING SIZES TO MAINTAIN ACCESS TO THE EXISTING FIRE DAMPER WITHIN THE VERTICAL AIR DUCT RISER. IN PATIENT-ACCESSIBLE AREAS, PROVIDE TAMPER-RESISTANT, ANTI-LIGATURE SECURITY ACCESS PANELS CONSTRUCTED OF 14-GAUGE STEEL WITH CONCEALED HINGES. A WHITE POWDER-COAT FINISH, KEYED SECURITY LOCKS, AND SECURITY FIXINGS. STANDARD FLUSH ACCESS PANELS MAY BE USED IN NON-PATIENT AREAS PER ARCHITECTURAL DEMARCATIONS. ALL PANELS SHALL BE WALL- OR CEILING-MOUNTED AS REQUIRED TO SUIT THE INSTALLATION LOCATION AND SHALL MAINTAIN THE FIRE-RESISTANCE RATING OF ADJACENT ASSEMBLIES IN ACCORDANCE WITH NFPA AND LOCAL BUILDING CODES. SUBMIT SHOP DRAWINGS DETAILING ALL PANEL TYPES, SIZES, AND LOCATIONS FOR REVIEW PRIOR TO ORDERING MATERIALS.
 - SUPPLY AND INSTALL NEW ANTI-LIGATURE SPRINKLER HEADS IN PATIENT ACCESSIBLE AREA AND NEW CONCEALED SPRINKLER HEADS IN NON PATIENT ACCESSIBLE AREA (REFER TO ARCHITECTURAL DRAWINGS FOR DEMARCATION) IN ACCORDANCE WITH NEPA STANDARD 13 BASED ON A LIGHT HAZARD CLASSIFICATION. EXTEND AND CONNECT ALL NEW INSTALLATIONS TO EXISTING SPRINKLER PIPING. FIRE PROTECTION ENGINEER TO PERFORM HYDRAULIC CALCULATIONS PRIOR TO INSTALLATION. ALL WORK SHALL COMPLY WITH SPECIFICATION SECTION 9 AND BE COMPLETED BY BASE BUILDING CONTRACTOR - CLASSIC FIRE (CONTACT: BLAIR SARGINSON, BSARGINSON@CLASSICFELS.COM).
 - REFER TO M-400 & M-401 FOR PROPOSED PHASING PLANS (TO BE FINALIZED BY CONTRACTOR AND APPROVED BY OWNER).

01 PLUMBING NEW WORK PART PLAN

M-201 1:75

- ### KEY NOTES
- PROVIDE NEW WATER CLOSET AS SPECIFIED. CONNECT TO EXISTING DOMESTIC COLD, SANITARY AND VENT PIPING.
 - PROVIDE NEW LAVATORY AS SPECIFIED. CONNECT TO EXISTING DOMESTIC COLD, HOT, RECIRCULATION, WASTE AND VENT PIPING.
 - PROVIDE NEW FLOOR DRAIN AS SPECIFIED. CONNECT TO EXISTING WASTE AND VENT PIPING.
 - PROVIDE NEW MEDICAL GAS OUTLETS. CONNECT TO EXISTING OXYGEN AND MEDICAL VACUUM PIPING. GAS WORK SHALL BE COMPLETED BY BASE BUILDING CONTRACTOR - AIR LIQUIDE HEALTHCARE. (CONTACT: FAIZAL QUERSHI, 416-702-5177, FAIZAL.QUERSHI@AIRLIQUIDE.COM).
 - PROVIDE NEW SHOWER AS SPECIFIED. CONNECT TO EXISTING DOMESTIC COLD, HOT, RECIRCULATION, WASTE AND VENT PIPING.
 - NOT USED.
 - PROVIDE NEW SINK AS SPECIFIED. CONNECT TO EXISTING DOMESTIC COLD, HOT, RECIRCULATION, WASTE AND VENT PIPING.
 - PROVIDE NEW EYEWASH AS SPECIFIED. CONNECT TO EXISTING DOMESTIC COLD, HOT, RECIRCULATION, WASTE AND VENT PIPING.
 - PROVIDE NEW ZONE VALVE BOX FOR MEDICAL GAS. GAS WORK SHALL BE COMPLETED BY BASE BUILDING CONTRACTOR - AIR LIQUIDE HEALTHCARE. (CONTACT: FAIZAL QUERSHI, 416-702-5177, FAIZAL.QUERSHI@AIRLIQUIDE.COM).
 - PROVIDE NEW DOMESTIC HOT AND COLD WATER SOLENOID VALVES, NORMALLY OPEN, SUITABLE FOR POTABLE WATER SERVICE. WIRE SOLENOID VALVES BACK TO THE EMERGENCY SHUT-OFF MAIN SWITCH LOCATED IN THE NURSE STATION. LOCATE SOLENOID VALVES IN THE CORRIDOR TO PERMIT EASY ACCESS. PROVIDE A BYPASS LOOP WITH MANUAL ISOLATION VALVES FOR SERVICING.
 - PROVIDE NEW FIRE HOSE CABINET AS SPECIFIED BELOW. CONNECT TO EXISTING FIRE PROTECTION PIPING. ALL WORK SHALL BE COMPLETED BY BASE BUILDING CONTRACTOR - CLASSIC FIRE (CONTACT: BLAIR SARGINSON, BSARGINSON@CLASSICFELS.COM).
- DESCRIPTION: MAXIMUM SECURITY HOSE CABINET
- SUPPLIER: NATIONAL FIRE EQUIPMENT LTD.
- STANDARD PRODUCT SPECIFICATIONS:
- 10 GA. FULL METAL ADJUSTABLE FRONTS. REINFORCED DOOR, 1/4" RETURN ON DOOR - GREY POWDER COATED PAINT.
 - 10 GA. PAINTED TUBS - GREY
 - HINGES: MODEL 8007 SECURITY HINGE
 - LOCK: MODEL 7010 HIGH SECURITY MECHANICAL DEADBOLT LOCK.
 - LOCK: FIRE EXTINGUISHER CABINETS USE MODEL 7017 COMPACT SECURITY LOCK.

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1	ISSUED FOR ADDENDUM ADD M-01
NO	23.06.26

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4	ISSUED FOR TENDER AND PERMIT	04.06.26
3	ISSUED FOR CLIENT REVIEW	29.05.26
2	ISSUED FOR REVIEW	25.07.25
1	ISSUED FOR REVIEW	15.05.25
NO	ACTION	DATE

Client:
SCARBOROUGH
HEALTH NETWORK
3030 BIRCHMOUNT ROAD
SCARBOROUGH, ON

Project Title:
SHN MENTAL HEALTH
INPATIENT CONSOLIDATION
POD 3A

Sheet Title:
PLUMBING, MEDICAL GAS
AND FIRE PROTECTION
NEW WORK PLAN

Project North	Stamp
Date: APR 2025	Project No.: 24002-02
Scale: 1:75	Drawn: SC
Drawing Number:	Checked: MC

M-201

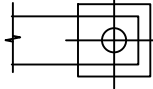
RADIATION SCHEDULE

REFERENCE	TYPE	kW/m	ROWS	SPEED	WATER FLOW (l/s)	LENGTH (mm)	WIDTH (mm)	DEPTH (mm)	FINS/FT	FIN SIZE	TUBE SIZE (mm)	POWER	PANEL	MODEL	DESCRIPTION / ENCLOSURE HEIGHT	MANUFACTURER	REMARKS:	NOTES:
RCP-1	RADIANT CEILING PANEL	0.3	4	-	0.032	1950	305	-	-	-	16	-	-	SLC	-	SIGMA	-	ANTI-LIGATURE - SECURITY ENCLOSURE WITH TORX FASTENERS
RCP-2	RADIANT CEILING PANEL	0.3	4	-	0.032	2210	305	-	-	-	16	-	-	SLC	-	SIGMA	-	ANTI-LIGATURE - SECURITY ENCLOSURE WITH TORX FASTENERS

REGISTERS, GRILLES AND DIFFUSERS SCHEDULE

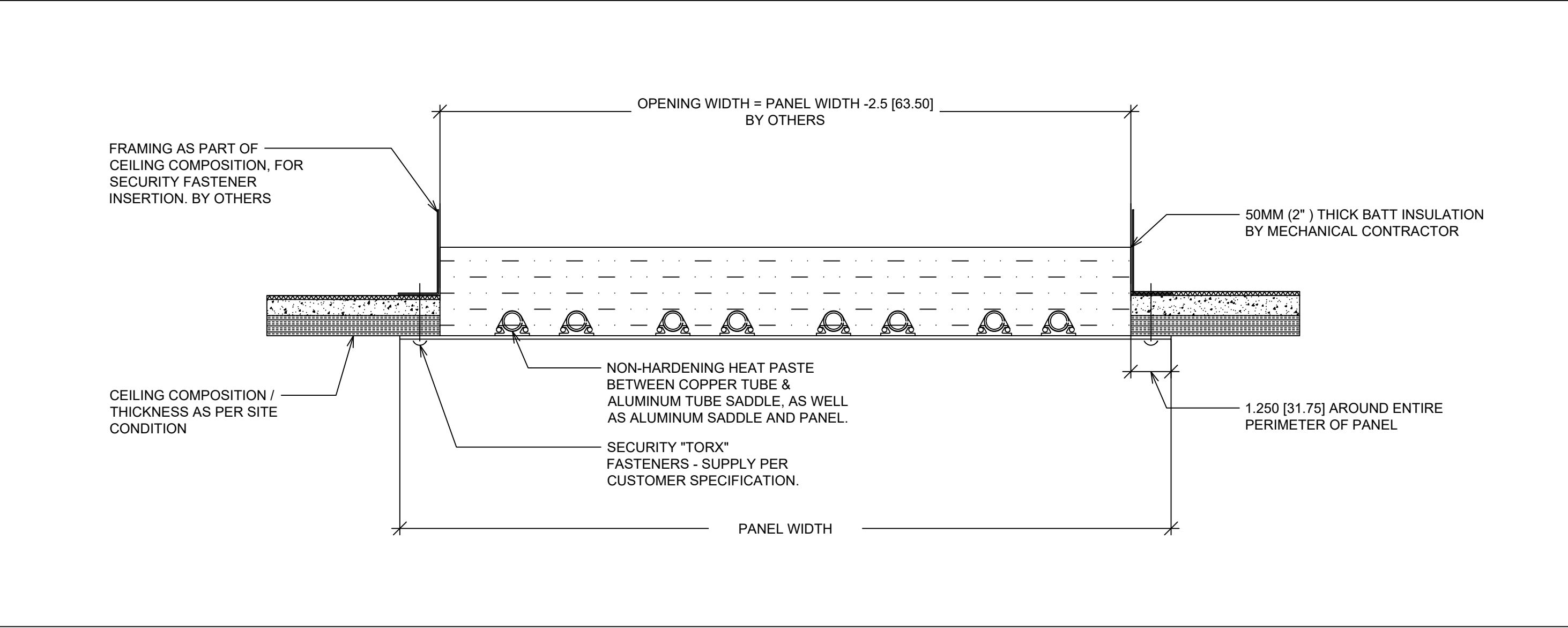
REFERENCE	FUNCTION	CONFIGURATION	MODEL NUMBER	MOUNTING TYPE	REMARKS:
SD-1	SUPPLY AIR	SQUARE PLAQUE DIFFUSER	EH PRICE - SPD - 600 X 600	DRYWALL / T-BAR	REFER TO PLANS FOR NECK SIZE
SD-1A	SUPPLY AIR	MAXIMUM SECURITY RISK RESISTANT CEILING DIFFUSER	EH PRICE - MSRRCD - 600 X 600	DRYWALL / T-BAR	REFER TO PLANS FOR NECK SIZE
EG-1	EXHAUST AIR	EGGCRATE GRILLE	EH PRICE - 80 - 600 X 300	DRYWALL / T-BAR	REFER TO PLANS FOR NECK SIZE
EG-1A / RG-1A	EXHAUST AIR / RETURN AIR	PERFORATED FACE SECURITY GRILLE	EH PRICE - MSPG - 600 X 300	DRYWALL / T-BAR	REFER TO PLANS FOR NECK SIZE
EG-2	EXHAUST AIR	EGGCRATE GRILLE	EH PRICE - 80 - 300 X 300	DRYWALL / T-BAR	REFER TO PLANS FOR NECK SIZE
EG-2A	EXHAUST AIR	PERFORATED FACE SECURITY GRILLE	EH PRICE - MSPG - 300 X 300	DRYWALL / T-BAR	REFER TO PLANS FOR NECK SIZE

* FOR SUITE FAN AND R/A GRILLES REFER TO MANUFACTURER

SYMBOL CLARIFICATION	 C-600x600-500	C - DIFFUSER/GRILLE TYPE 600x600 - GRILLE SIZE 500 - AIR QUANTITY L/S	NOTES: 1 - PROVIDE OPPOSED BLADE DAMPER 2 - PROVIDE CABLE OPERATED BALANCING DAMPER
SELECTION BASED ON	EH PRICE		

CONSTANT VOLUME BOX W/ REHEAT COIL SCHEDULE

REFERENCE	INLET SIZE (MM)	AIR QUANTITY (L/S)	MAX. N.C. LEVEL		REHEAT COIL								TOTAL APD @ MAX (Pa)	MIN. OPERATING PRESSURE (Pa)	MANUFACTURER	MODEL	NOTES: CW 3FT INTEGRAL ATTENUATOR (HOSPITAL GRADE LINER)
			MAX.	RAD	DISCH.	CAPACITY (KW)	E.A.T (°C)	L.A.T (°C)	E.W.T (°C)	L.W.T (°C)	FLOW (L/S)	PD (kPa)	ROWS				
CAV-1	125	163	25	29		3.36	12.7	29.6	40.5	35.0	0.15	2.9	2	60	62	E.H. PRICE	SDV
CAV-2	175	299	-	22		5.41	12.7	27.6	40.5	35.0	0.24	8.81	2	95	119	E.H. PRICE	SDV
CAV-3	125	123	21	29		2.42	12.7	28.8	40.5	35.0	0.11	1.61	2	27	30	E.H. PRICE	SDV
CAV-4	150	184	20	25		3.38	12.7	27.8	40.5	35.0	0.15	2.96	2	55	89	E.H. PRICE	SDV
CAV-5	125	160	25	29		3.01	12.7	28.2	40.5	35.0	0.13	2.39	2	45	47	E.H. PRICE	SDV
CAV-6	125	160	25	29		3.01	12.7	28.2	40.5	35.0	0.13	2.39	2	45	47	E.H. PRICE	SDV



01 RADIANT PANEL INSTALLATION DETIAL
ME-500 N.T.S.

SHEET ISSUANCE		
8	.	.
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5	.	.
4	.	.
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1	ISSUED FOR ADDENDUM ADD M-01	23.06.26
NO		

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The Contractor shall check and verify all dimensions and report any discrepancies to the Architect prior to construction; do not scale this drawing.
This drawing shall not be used for construction purposes unless properly signed and sealed by the Architect.

7		
6		
5		
4	ISSUED FOR TENDER AND PERMIT	04.06.26
3	ISSUED FOR CLIENT REVIEW	29.05.26
2	ISSUED FOR REVIEW	25.07.25
1	ISSUED FOR REVIEW	15.05.25
NO	ACTION	DATE

Client:
**SCARBOROUGH
HEALTH NETWORK**
3030 BIRCHMOUNT ROAD
SCARBOROUGH, ON

Project Title:
**SHN MENTAL HEALTH
INPATIENT CONSOLIDATION
POD 3A**

Sheet Title:
EQUIPMENT SCHEDULES

Project North	Stamp	
Date: APR 2025	Project No.: 24002-02	
Scale: N.T.S.	Drawn: SC	Checked: MC

ME-500

Queen's Quay Terminal
207 Queen's Quay West, Suite 615
Toronto, Ontario M5J 1A7
Phone 416-598-2920 Fax 416-598-5394
www.mcw.com

Date: June 23, 2026

Project Name: SHN Mental Health Inpatient Consolidation Pod 3A

Client: Scarborough Health Network

To: Hanson + Jung Architects Inc.

Attention: Angela Chan (angela@hjarchitects.ca)

From: Peter Tang (ptang@mcw.com)

Kareem Odeh (kodeh@mcw.com)

Distribution: Heidi Hanson (heidi@hjarchitects.ca)

Wilson Jung (wilson@hjarchitects.ca)

Mark Caminiti (mcaminiti@mcw.com)

Peera Butrsingkorn (peera@mcw.com)

Project #: 24002-02

ADD #: E-01

Page #: 1 of 1

+ Attachment

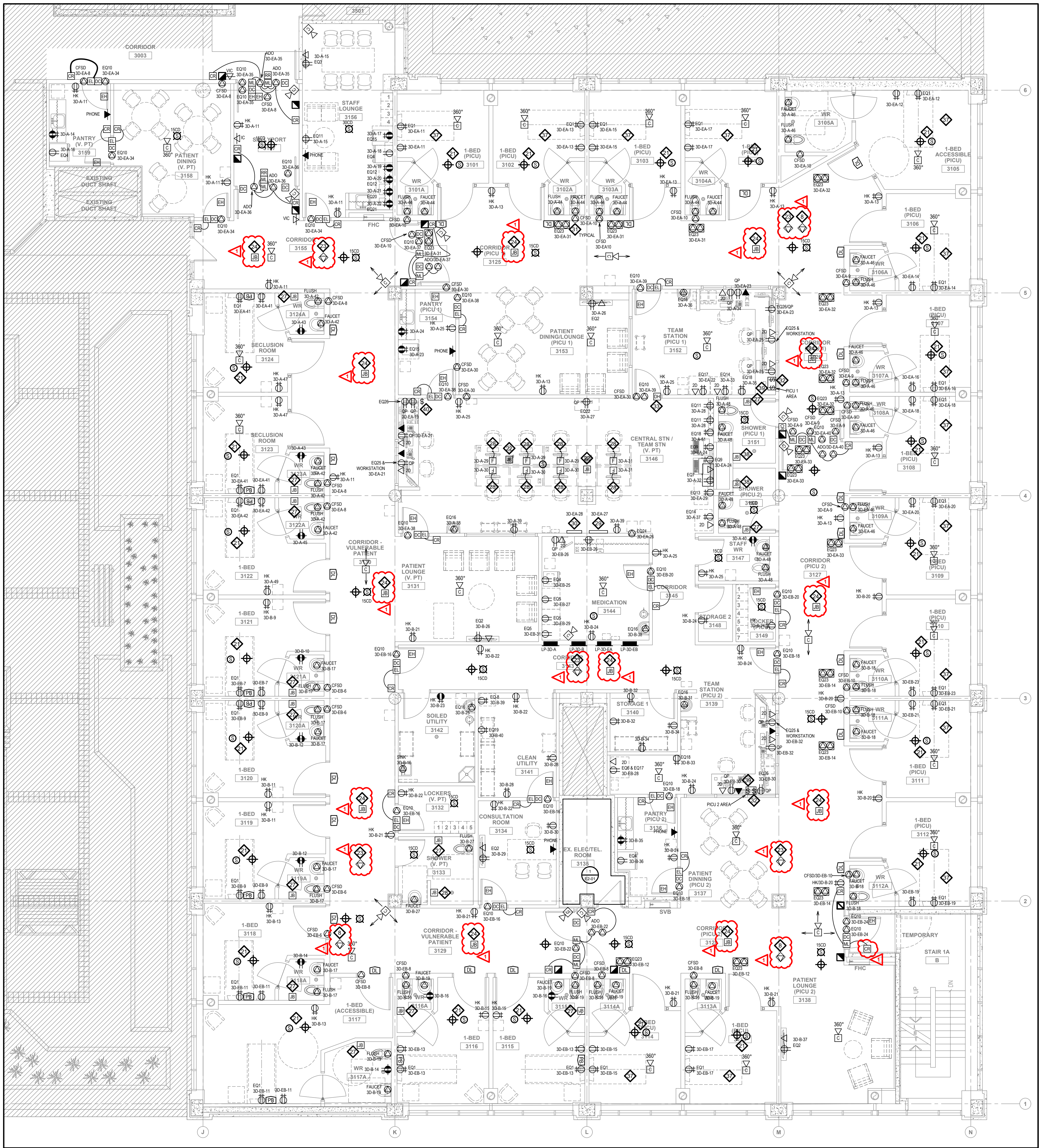
In accordance with the drawings and specifications, provide in the tender all costs required to complete the work including items as listed below.

Electrical:

Reference	Description
E0-01b	Revised electrical specs.
E1-02	- Revised general notes 8, 23, & 24 as shown. - Added twelve (12) junction boxes for RTLS monitors as shown. - Added five (5) data drops for Centrak WAP as shown. - Added three (3) data drops for Centrak strobes as shown. - Revised location of card reader "CR" as shown.
E2-01	- Added "Cable & Conduit Schedule - Copper" as shown, - Added "Cable Fill Schedule" as shown. - Revised "Single Line Diagram" as shown. - Added keynotes 2-4 for clarification as shown. - Added RTLS monitor and provided power in Electrical/IT Room as shown. - Added Altronix and provided power in Electrical/IT Room as shown. - Added Central POE Web Relay Quad Output module in Electrical/IT Room as shown.
E2-02	Revised panel "LP-3D-EB" as shown.

End of ADD # E-01

1.30.6.2.3. MEASURE THE INSULATION RESISTANCE OF EACH BRANCH CIRCUIT CONDUCTOR WITH ALL WIRING DEVICES CONNECTED.	2.3.3.2. OUTLET BOXES ON CONCEALED WORK SHALL BE 4" SQUARE OR OCTAGONAL GALVANIZED PRESSED STEEL WITH PLASTER RINGS AS REQUIRED. OUTLET BOXES FOR EXPOSED CONDUIT WORK SHALL BE CAST ALUMINUM ALLOY WITH CAST ALUMINUM ALLOY COVERS.	2.9. <u>MECHANICAL TRADES WIRING</u>	A. FIRE ALARM CONTROL PANELS AND DATA GATHERING PANELS. B. DATA CABINETS AND RACKS.	2.15.8. PROVIDE CONFIRMATION IN WRITING, SIGNED AND SEALED BY THE STRUCTURAL ENGINEER, AT COMPLETION OF PROJECT THAT THE ELECTRICAL INSTALLATION IS IN GENERAL COMPLIANCE WITH THE STRUCTURAL INSTALLATION DRAWINGS SUBMITTED WITH THE SHOP DRAWING PACKAGE. THE ELECTRICAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE FULL SCOPE OF THIS WORK, INCLUDE ALL COSTS OF: STRUCTURAL DESIGN, MATERIALS, AND SITE REVIEW IN TENDER PRICE. SRS SHALL BE FULLY INTEGRATED INTO, COMPATIBLE WITH NOISE AND VIBRATION CONTROLS. SRS TO PROVIDE GENTLE AND STEADY CUSHIONING ACTION AND AVOID HIGH IMPACT LOADS. SRS TO LIMIT MOTION TO AVOID DAMAGE TO OTHER BUILDING ELEMENTS AND/OR SYSTEMS. SRS TO RESTRAIN SEISMIC FORCES IN EVERY DIRECTION. FASTENERS AND ATTACHMENT POINTS TO RESIST SAME LOAD AS SEISMIC RESTRAINTS. SRS UTILIZING CAST IRON, THREADED PIPE, OTHER BRITTLE MATERIALS NOT PERMITTED ATTACHMENTS TO RC STRUCTURE. A. USE HIGH STRENGTH MECHANICAL EXPANSION ANCHORS. B. DRILLED OR POWER DRIVEN ANCHORS NOT PERMITTED.
1.30.7. RECEPTACLE RETENTIVE FORCE TEST	2.3.3.3. WHERE INSTALLED IN PLASTER, BOXES SHALL BE FITTED WITH GALVANIZED STEEL PLASTER COVERS OF REQUIRED DEPTH TO FINISH FLUSH WITH FINISHED WALL OR CEILING.	2.9.1. UNLESS OTHERWISE NOTED, ALL STARTERS AND CONTROL WIRING TO BE PROVIDED BY DIVISION 15. DIVISION 16 TO RECEIVE, INSTALL, STARTERS AND PROVIDE ALL LINE-SIDE AND LOAD-SIDE POWER WIRING AND REQUIRED ISOLATING DISCONNECT SWITCHES.		2.15.9. SRS SHALL BE FULLY INTEGRATED INTO, COMPATIBLE WITH NOISE AND VIBRATION CONTROLS. SRS TO PROVIDE GENTLE AND STEADY CUSHIONING ACTION AND AVOID HIGH IMPACT LOADS. SRS TO LIMIT MOTION TO AVOID DAMAGE TO OTHER BUILDING ELEMENTS AND/OR SYSTEMS. SRS TO RESTRAIN SEISMIC FORCES IN EVERY DIRECTION. FASTENERS AND ATTACHMENT POINTS TO RESIST SAME LOAD AS SEISMIC RESTRAINTS. SRS UTILIZING CAST IRON, THREADED PIPE, OTHER BRITTLE MATERIALS NOT PERMITTED ATTACHMENTS TO RC STRUCTURE. A. USE HIGH STRENGTH MECHANICAL EXPANSION ANCHORS. B. DRILLED OR POWER DRIVEN ANCHORS NOT PERMITTED.
1.30.7.1. REQUIREMENTS:	2.3.3.4. SWITCH BOXES, RECEPTACLE BOXES AND OTHER OUTLET BOXES SHALL BE STANDARD 4" SQUARE WITH PLASTER RINGS OR GANG COVERS AS REQUIRED.	2.9.2. CONFIRM ELECTRICAL REQUIREMENTS AND EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT WITH DIVISION 15 PRIOR TO INSTALLATION.		2.15.10. SRS SHALL BE FULLY INTEGRATED INTO, COMPATIBLE WITH NOISE AND VIBRATION CONTROLS. SRS TO PROVIDE GENTLE AND STEADY CUSHIONING ACTION AND AVOID HIGH IMPACT LOADS. SRS TO LIMIT MOTION TO AVOID DAMAGE TO OTHER BUILDING ELEMENTS AND/OR SYSTEMS. SRS TO RESTRAIN SEISMIC FORCES IN EVERY DIRECTION. FASTENERS AND ATTACHMENT POINTS TO RESIST SAME LOAD AS SEISMIC RESTRAINTS. SRS UTILIZING CAST IRON, THREADED PIPE, OTHER BRITTLE MATERIALS NOT PERMITTED ATTACHMENTS TO RC STRUCTURE. A. USE HIGH STRENGTH MECHANICAL EXPANSION ANCHORS. B. DRILLED OR POWER DRIVEN ANCHORS NOT PERMITTED.
1.30.7.1.1. A FORCE OF 1.1 NEWTONS DOES NOT REMOVE A TEST PIN FROM THE GROUND SLOT OF A RECEPTACLE.	2.3.3.5. WEATHERPROOF BOXES SHALL BE CONDULET CAST BOXES WITH WEATHERPROOF DEVICES AND COVERS. PROVIDE HOT-DIPPED GALVANIZED CORROSION-RESISTANT EPOXY ENAMEL FINISH OR PVC-COATED PRODUCTS, WHERE NOTED ON DRAWINGS.	2.10. <u>LUMINAIRES</u>		2.15.10. SRS SHALL BE FULLY INTEGRATED INTO, COMPATIBLE WITH NOISE AND VIBRATION CONTROLS. SRS TO PROVIDE GENTLE AND STEADY CUSHIONING ACTION AND AVOID HIGH IMPACT LOADS. SRS TO LIMIT MOTION TO AVOID DAMAGE TO OTHER BUILDING ELEMENTS AND/OR SYSTEMS. SRS TO RESTRAIN SEISMIC FORCES IN EVERY DIRECTION. FASTENERS AND ATTACHMENT POINTS TO RESIST SAME LOAD AS SEISMIC RESTRAINTS. SRS UTILIZING CAST IRON, THREADED PIPE, OTHER BRITTLE MATERIALS NOT PERMITTED ATTACHMENTS TO RC STRUCTURE. A. USE HIGH STRENGTH MECHANICAL EXPANSION ANCHORS. B. DRILLED OR POWER DRIVEN ANCHORS NOT PERMITTED.
1.30.7.1.2. A FORCE OF 13 NEWTONS DOES NOT REMOVE A TWO PIN TEST ATTACHMENT PLUG FROM A RECEPTACLE.	2.3.3.6. PROVIDE SCREW-JOINT OUTLET BOXES, WITH GASKETED WEATHERPROOF COVERS IN EXTERIOR LOCATIONS, WHERE EXPOSED TO MOISTURE. AT KITCHEN AND CAFETERIA EQUIPMENT WITH OR NEXT TO WATER OR STEAM CONNECTIONS, AND WHERE INDICATED AS WEATHERPROOF ON DRAWINGS.	2.10.1. PROVIDE ALL LUMINAIRES AS SHOWN ON THE DRAWINGS AND AS SPECIFIED IN THE LUMINAIRE SCHEDULE.		2.15.10. SRS SHALL BE FULLY INTEGRATED INTO, COMPATIBLE WITH NOISE AND VIBRATION CONTROLS. SRS TO PROVIDE GENTLE AND STEADY CUSHIONING ACTION AND AVOID HIGH IMPACT LOADS. SRS TO LIMIT MOTION TO AVOID DAMAGE TO OTHER BUILDING ELEMENTS AND/OR SYSTEMS. SRS TO RESTRAIN SEISMIC FORCES IN EVERY DIRECTION. FASTENERS AND ATTACHMENT POINTS TO RESIST SAME LOAD AS SEISMIC RESTRAINTS. SRS UTILIZING CAST IRON, THREADED PIPE, OTHER BRITTLE MATERIALS NOT PERMITTED ATTACHMENTS TO RC STRUCTURE. A. USE HIGH STRENGTH MECHANICAL EXPANSION ANCHORS. B. DRILLED OR POWER DRIVEN ANCHORS NOT PERMITTED.
1.30.7.2. METHOD:	2.3.3.7. PROVIDE ONLY ENOUGH CONDUIT OPENINGS TO ACCOMMODATE CONDUITS AT INDIVIDUAL LOCATION. EACH BOX SHALL BE LARGE ENOUGH TO ACCOMMODATE NUMBER AND SIZES OF CONDUITS, WIRES AND SPLICES TO MEET OESC REQUIREMENTS, BUT SHALL BE AT LEAST SIZE SHOWN OR SPECIFIED. NECESSARY VOLUME SHALL BE OBTAINED BY USING BOXES OF PROPER DIMENSIONS. BOX DEPTHS GREATER THAN 2" SHALL NOT BE USED TO OBTAIN NECESSARY VOLUME. BUT MAY BE USED WITH ARCHITECT'S APPROVAL, TO FACILITATE INSTALLATION. STANDARD CONCRETE BOXES MAY BE 6" DEEP WHERE NECESSARY TO PERMIT ENTRANCE OF CONDUITS INTO SIDES OF BOXES WITHOUT INTERFERENCE WITH REINFORCING BARS. OCTAGONAL HUNG CEILING BOXES WITH SUSPENSION BARS MAY BE 3-1/2" DEEP. RECTANGULAR BOXES FOR INTER-CONNECTION OF BRANCH CIRCUIT CONDUITS MAY BE 2-1/2" DEEP.	2.10.2. PROVIDE NEW LUMINAIRES AS SHOWN ON THE DRAWINGS AND AS SPECIFIED IN THE LUMINAIRE SCHEDULE.		2.15.10. SRS SHALL BE FULLY INTEGRATED INTO, COMPATIBLE WITH NOISE AND VIBRATION CONTROLS. SRS TO PROVIDE GENTLE AND STEADY CUSHIONING ACTION AND AVOID HIGH IMPACT LOADS. SRS TO LIMIT MOTION TO AVOID DAMAGE TO OTHER BUILDING ELEMENTS AND/OR SYSTEMS. SRS TO RESTRAIN SEISMIC FORCES IN EVERY DIRECTION. FASTENERS AND ATTACHMENT POINTS TO RESIST SAME LOAD AS SEISMIC RESTRAINTS. SRS UTILIZING CAST IRON, THREADED PIPE, OTHER BRITTLE MATERIALS NOT PERMITTED ATTACHMENTS TO RC STRUCTURE. A. USE HIGH STRENGTH MECHANICAL EXPANSION ANCHORS. B. DRILLED OR POWER DRIVEN ANCHORS NOT PERMITTED.
1.30.7.2.1. USE THE TEST PINS AND METHODS SPECIFIED IN CSA STANDARD C22.2 NO. 42 AS AN ALTERNATIVE A COMMERCIALLY AVAILABLE "TENSION TESTED" COMPLYING WITH CSA STANDARD C22.2 NO.42, GENERAL USE RECEPTACLES, PLUGS AND SIMILAR WIRING DEVICES MAY BE EMPLOYED.	2.3.3.8. DO NOT INSTALL OUTLET BOXES "BACK TO BACK" IN WALLS AND PARTITIONS. SUCH OUTLETS MUST BE STAGGERED AND SEALED AGAINST NOISE TRANSMISSION. "THRU WALL" TYPE OUTLET BOXES WILL NOT BE PERMITTED FOR ANY APPLICATION.	2.10.3. ALL PRODUCTS OF A SPECIFIED TYPE ARE TO BE FROM THE SAME MANUFACTURER.		2.15.10. SRS SHALL BE FULLY INTEGRATED INTO, COMPATIBLE WITH NOISE AND VIBRATION CONTROLS. SRS TO PROVIDE GENTLE AND STEADY CUSHIONING ACTION AND AVOID HIGH IMPACT LOADS. SRS TO LIMIT MOTION TO AVOID DAMAGE TO OTHER BUILDING ELEMENTS AND/OR SYSTEMS. SRS TO RESTRAIN SEISMIC FORCES IN EVERY DIRECTION. FASTENERS AND ATTACHMENT POINTS TO RESIST SAME LOAD AS SEISMIC RESTRAINTS. SRS UTILIZING CAST IRON, THREADED PIPE, OTHER BRITTLE MATERIALS NOT PERMITTED ATTACHMENTS TO RC STRUCTURE. A. USE HIGH STRENGTH MECHANICAL EXPANSION ANCHORS. B. DRILLED OR POWER DRIVEN ANCHORS NOT PERMITTED.
1.30.7.2.2. IF USING THE TENSION CHECKED, ENSURE THAT THE DEVICE IS CALIBRATED FOR TENSION (NEWTONS) FOR BOTH SINGLE-GROUND PIN AND FOR MULTIPLE PIN TESTING.	2.3.3.9. ALL RECESSED OUTLET BOXES FOR SURFACE MOUNTED DEVICES OR LIGHTING FIXTURES MUST BE TOTALLY CONCEALED BY THE DEVICE OR FIXTURE.	2.10.4. ALL NEW AND RELOCATED FIXTURES IN SCOPE OF WORK SHALL BE SUPPORTED INDEPENDENT OF THE CEILING SYSTEM TO THE APPROVAL OF THE CANADIAN ELECTRICAL CODE.		2.15.10. SRS SHALL BE FULLY INTEGRATED INTO, COMPATIBLE WITH NOISE AND VIBRATION CONTROLS. SRS TO PROVIDE GENTLE AND STEADY CUSHIONING ACTION AND AVOID HIGH IMPACT LOADS. SRS TO LIMIT MOTION TO AVOID DAMAGE TO OTHER BUILDING ELEMENTS AND/OR SYSTEMS. SRS TO RESTRAIN SEISMIC FORCES IN EVERY DIRECTION. FASTENERS AND ATTACHMENT POINTS TO RESIST SAME LOAD AS SEISMIC RESTRAINTS. SRS UTILIZING CAST IRON, THREADED PIPE, OTHER BRITTLE MATERIALS NOT PERMITTED ATTACHMENTS TO RC STRUCTURE. A. USE HIGH STRENGTH MECHANICAL EXPANSION ANCHORS. B. DRILLED OR POWER DRIVEN ANCHORS NOT PERMITTED.
1.30.7.2.3. FOR EACH OUTLET, CHECK THAT THE TENSION OF THE TWO PIN REMOVAL MEETS OR EXCEEDS THE REQUIREMENT.	2.3.4. JUNCTION BOXES, PULL BOXES AND CABLE TROUGHS	2.10.5. ALL NEW AND RELOCATED FIXTURES IN SCOPE OF WORK SHALL BE SUPPORTED INDEPENDENT OF THE CEILING SYSTEM TO THE APPROVAL OF THE CANADIAN ELECTRICAL CODE.		2.15.10. SRS SHALL BE FULLY INTEGRATED INTO, COMPATIBLE WITH NOISE AND VIBRATION CONTROLS. SRS TO PROVIDE GENTLE AND STEADY CUSHIONING ACTION AND AVOID HIGH IMPACT LOADS. SRS TO LIMIT MOTION TO AVOID DAMAGE TO OTHER BUILDING ELEMENTS AND/OR SYSTEMS. SRS TO RESTRAIN SEISMIC FORCES IN EVERY DIRECTION. FASTENERS AND ATTACHMENT POINTS TO RESIST SAME LOAD AS SEISMIC RESTRAINTS. SRS UTILIZING CAST IRON, THREADED PIPE, OTHER BRITTLE MATERIALS NOT PERMITTED ATTACHMENTS TO RC STRUCTURE. A. USE HIGH STRENGTH MECHANICAL EXPANSION ANCHORS. B. DRILLED OR POWER DRIVEN ANCHORS NOT PERMITTED.
1.30.7.2.3. RECORD GROUND TO TENSION READING FOR EACH OUTLET.	2.3.4.1. PROVIDE CODE GAUGE GALVANIZED STEEL JUNCTION AND PULL BOXES FOR CONDUIT 1-1/4" TRADE SIZE AND LARGER, WHERE INDICATED AND AS NECESSARY TO FACILITATE INSTALLATION, OF REQUIRED DIMENSIONS, WITH ACCESSIBLE, REMOVABLE SCREW-ON COVERS. PROVIDE JUNCTION AND PULL BOXES AND BOXES DETERMINED IN FIELD WHERE NECESSARY.	2.10.6. ALL FIXTURES SHALL BE INSTALLED WITH A FRAME OR CANOPY THAT IS COMPATIBLE WITH THE CEILING TYPE SPECIFIED ON THE CONSTRUCTION DRAWINGS.		2.15.10. SRS SHALL BE FULLY INTEGRATED INTO, COMPATIBLE WITH NOISE AND VIBRATION CONTROLS. SRS TO PROVIDE GENTLE AND STEADY CUSHIONING ACTION AND AVOID HIGH IMPACT LOADS. SRS TO LIMIT MOTION TO AVOID DAMAGE TO OTHER BUILDING ELEMENTS AND/OR SYSTEMS. SRS TO RESTRAIN SEISMIC FORCES IN EVERY DIRECTION. FASTENERS AND ATTACHMENT POINTS TO RESIST SAME LOAD AS SEISMIC RESTRAINTS. SRS UTILIZING CAST IRON, THREADED PIPE, OTHER BRITTLE MATERIALS NOT PERMITTED ATTACHMENTS TO RC STRUCTURE. A. USE HIGH STRENGTH MECHANICAL EXPANSION ANCHORS. B. DRILLED OR POWER DRIVEN ANCHORS NOT PERMITTED.
1.30.8. RECEPTACLE POLARITY TEST	2.3.4.2. JUNCTION BOXES FOR EXPOSED CONDUIT WORK IN FINISHED AREAS SHALL BE CAST ALUMINUM ALLOY WITH CAST ALUMINUM ALLOY COVERS.	2.10.7. PROVIDE APPROPRIATE ACCESSORIES FOR PROPER MOUNTING OF ALL FIXTURES. INCLUDE PLASTER FRAMES FOR PLASTER CEILING AND FIRESTOP PROTECTION FOR FIXTURES IN RATED CEILING. FOR FIXTURES SUSPENDED FROM CEILING, PROVIDE PENDANTS OR AIRCRAFT CABLES COMPLETE WITH ACCESSORIES TO COMPLETE THE INSTALLATION AS INDICATED ON THE DRAWINGS.		2.15.10. SRS SHALL BE FULLY INTEGRATED INTO, COMPATIBLE WITH NOISE AND VIBRATION CONTROLS. SRS TO PROVIDE GENTLE AND STEADY CUSHIONING ACTION AND AVOID HIGH IMPACT LOADS. SRS TO LIMIT MOTION TO AVOID DAMAGE TO OTHER BUILDING ELEMENTS AND/OR SYSTEMS. SRS TO RESTRAIN SEISMIC FORCES IN EVERY DIRECTION. FASTENERS AND ATTACHMENT POINTS TO RESIST SAME LOAD AS SEISMIC RESTRAINTS. SRS UTILIZING CAST IRON, THREADED PIPE, OTHER BRITTLE MATERIALS NOT PERMITTED ATTACHMENTS TO RC STRUCTURE. A. USE HIGH STRENGTH MECHANICAL EXPANSION ANCHORS. B. DRILLED OR POWER DRIVEN ANCHORS NOT PERMITTED.
1.30.8.1. REQUIREMENTS:	2.3.4.3. PROVIDE CABLE TROUGHS OF SPECIAL SHAPES, DESIGN AND CONSTRUCTION REQUIRED TO INSTALL, SUPPORT AND ENCLOSE FEEDER, CABLE THROUGHOUT INDICATED ROUTES. TROUGHS SHALL BE AS SPECIFIED ABOVE FOR JUNCTION AND PULL BOXES, WITH REINFORCING, INSULATING SUPPORTS AND CLAMPING. FOR CABLE INSTALLATION, CABLES SHALL BE CONTINUOUS THROUGHOUT TROUGHS AND SHALL BE RACKED IN DISTRIBUTED PHASE GROUPINGS ARRANGED WITH PHASE CABLES SURROUNDING NEUTRAL CONDUCTORS.	2.10.8. WHERE LIGHT FIXTURE OR LIGHT FIXTURE SUSPENSION APPARATUS PENETRATES METAL PAN OR SHEET METAL CEILING OR CANOPIES, AN APPROVED COPY OF THE SHOP DRAWINGS OF THOSE FIXTURES SHALL BE PROVIDED TO THE CEILING MANUFACTURER. APERTURES IN THE CEILING OR OPENINGS FOR SUSPENSION CABLES SHALL BE PRE-CUT BY THE CEILING MANUFACTURER TO SUIT LIGHT FIXTURES. INSTRUCT THE MANUFACTURER ACCORDINGLY.		2.15.10. SRS SHALL BE FULLY INTEGRATED INTO, COMPATIBLE WITH NOISE AND VIBRATION CONTROLS. SRS TO PROVIDE GENTLE AND STEADY CUSHIONING ACTION AND AVOID HIGH IMPACT LOADS. SRS TO LIMIT MOTION TO AVOID DAMAGE TO OTHER BUILDING ELEMENTS AND/OR SYSTEMS. SRS TO RESTRAIN SEISMIC FORCES IN EVERY DIRECTION. FASTENERS AND ATTACHMENT POINTS TO RESIST SAME LOAD AS SEISMIC RESTRAINTS. SRS UTILIZING CAST IRON, THREADED PIPE, OTHER BRITTLE MATERIALS NOT PERMITTED ATTACHMENTS TO RC STRUCTURE. A. USE HIGH STRENGTH MECHANICAL EXPANSION ANCHORS. B. DRILLED OR POWER DRIVEN ANCHORS NOT PERMITTED.
1.30.8.1.1. RECEPTACLES TO BE CONNECTED IN ACCORDANCE WITH CONFIGURATIONS LISTED IN CANADIAN ELECTRICAL CODE CSA C22.1, LATEST EDITING SECTION 25.	2.3.4.4. ALL BOXES SHALL BE INSTALLED, SO AS TO BE ACCESSIBLE AFTER WORK IS COMPLETE. PROVIDE PULL BOXES ON ALL CONDUIT RUNS ON THE BASIS OF NO MORE THAN TWO (2) 90 DEG BENDS OR THEIR EQUIVALENT, OR A DISTANCE NOT TO EXCEED 100 FEET BETWEEN BOXES.	2.10.9. IF THE WORDS "EQUIVALENT" OR "APPROVED EQUAL" ARE NOT INDICATED AFTER LIGHT FIXTURE MANUFACTURER AND CATALOG NUMBER IN THE FIXTURE SCHEDULE, NO OTHER MANUFACTURER WILL BE ACCEPTABLE FOR THAT PARTICULAR TYPE.		2.15.10. SRS SHALL BE FULLY INTEGRATED INTO, COMPATIBLE WITH NOISE AND VIBRATION CONTROLS. SRS TO PROVIDE GENTLE AND STEADY CUSHIONING ACTION AND AVOID HIGH IMPACT LOADS. SRS TO LIMIT MOTION TO AVOID DAMAGE TO OTHER BUILDING ELEMENTS AND/OR SYSTEMS. SRS TO RESTRAIN SEISMIC FORCES IN EVERY DIRECTION. FASTENERS AND ATTACHMENT POINTS TO RESIST SAME LOAD AS SEISMIC RESTRAINTS. SRS UTILIZING CAST IRON, THREADED PIPE, OTHER BRITTLE MATERIALS NOT PERMITTED ATTACHMENTS TO RC STRUCTURE. A. USE HIGH STRENGTH MECHANICAL EXPANSION ANCHORS. B. DRILLED OR POWER DRIVEN ANCHORS NOT PERMITTED.
1.30.8.2. METHOD:	2.4. <u>FLOOR BOXES</u>	2.10.10. WITH JUST EMERGENCY LIGHTING IN OPERATION, AND AT NIGHT, THE ELECTRICAL CONTRACTOR IS TO MEASURE THE "AVERAGE" ILLUMINATION ON THE FLOOR (BY ESTABLISHING THE MAXIMUM AND THE MINIMUM LEVEL) IN THE PRINCIPAL ROUTES PROVIDING ACCESS TO EXITS. PULL ALL LIGHTING RESULTS ON A CAD DISK OR ON A SET OF REPRODUCIBLE SERIA DRAWINGS FOR REVIEW BY THE CONSULTANT. SUBMIT TO THE BUILDING INSPECTION AUTHORITIES TO BE BY THE ELECTRICAL CONTRACTOR.		2.15.10. SRS SHALL BE FULLY INTEGRATED INTO, COMPATIBLE WITH NOISE AND VIBRATION CONTROLS. SRS TO PROVIDE GENTLE AND STEADY CUSHIONING ACTION AND AVOID HIGH IMPACT LOADS. SRS TO LIMIT MOTION TO AVOID DAMAGE TO OTHER BUILDING ELEMENTS AND/OR SYSTEMS. SRS TO RESTRAIN SEISMIC FORCES IN EVERY DIRECTION. FASTENERS AND ATTACHMENT POINTS TO RESIST SAME LOAD AS SEISMIC RESTRAINTS. SRS UTILIZING CAST IRON, THREADED PIPE, OTHER BRITTLE MATERIALS NOT PERMITTED ATTACHMENTS TO RC STRUCTURE. A. USE HIGH STRENGTH MECHANICAL EXPANSION ANCHORS. B. DRILLED OR POWER DRIVEN ANCHORS NOT PERMITTED.
1.30.8.2.1. UTILIZE POLARITY TEST SET, AND TEST EACH RECEPTACLE.	2.4.1. FLOOR OUTLET BOXES SHALL BE STEEL, CONCRETE TIGHT ADJUSTABLE TYPE LEGRAND EVOLUTION SERIES, EP484S, 4 OR 5 GANG AS REQUIRED TO SUIT DEVICES AND DEPTH OF CONCRETE. PROVIDE APPLICABLE FLOOR PLATE ASSEMBLY AND WIRING DEVICE TO SUIT THE POWER, COMMUNICATION AND AV REQUIREMENTS AS INDICATED ON THE PLANS. (ALTERNATE MANUFACTURERS: HUBBELL, WELLMARK)	2.10.11. ALL NEW PANELBOARDS, DISCONNECT SWITCHES, METERS, TRANSFORMERS, ETC., TO BE COPPER WINDINGS-BUS-BARS, SAME MANUFACTURE, RATING AND TYPE AS BASE BUILDING EQUIPMENT UNLESS OTHERWISE NOTED. MOLDED CASE CIRCUIT BREAKERS TO BE BOLTON AND SAME MANUFACTURE, RATING AND TYPE AT BASE BUILDING BREAKERS. ALL AT/SS AND SURFACE MOUNTED PANELBOARDS TO BE SPRINKLER PROOF.		2.15.10. SRS SHALL BE FULLY INTEGRATED INTO, COMPATIBLE WITH NOISE AND VIBRATION CONTROLS. SRS TO PROVIDE GENTLE AND STEADY CUSHIONING ACTION AND AVOID HIGH IMPACT LOADS. SRS TO LIMIT MOTION TO AVOID DAMAGE TO OTHER BUILDING ELEMENTS AND/OR SYSTEMS. SRS TO RESTRAIN SEISMIC FORCES IN EVERY DIRECTION. FASTENERS AND ATTACHMENT POINTS TO RESIST SAME LOAD AS SEISMIC RESTRAINTS. SRS UTILIZING CAST IRON, THREADED PIPE, OTHER BRITTLE MATERIALS NOT PERMITTED ATTACHMENTS TO RC STRUCTURE. A. USE HIGH STRENGTH MECHANICAL EXPANSION ANCHORS. B. DRILLED OR POWER DRIVEN ANCHORS NOT PERMITTED.
1.30.8.2.2. CORRECT CONNECTION OF RECEPTACLES WHERE POLARITY INDICATION IS INCORRECT.	2.4.2. ALL FLOOR PLATES SHALL BE COMPLETE WITH COVER AND FINISHING FLANGES AS REQUIRED TO SUIT FLOOR FINISH AND APPLICATION AS NOTED.	2.11. <u>SERVICE EQUIPMENT</u>		2.15.10. SRS SHALL BE FULLY INTEGRATED INTO, COMPATIBLE WITH NOISE AND VIBRATION CONTROLS. SRS TO PROVIDE GENTLE AND STEADY CUSHIONING ACTION AND AVOID HIGH IMPACT LOADS. SRS TO LIMIT MOTION TO AVOID DAMAGE TO OTHER BUILDING ELEMENTS AND/OR SYSTEMS. SRS TO RESTRAIN SEISMIC FORCES IN EVERY DIRECTION. FASTENERS AND ATTACHMENT POINTS TO RESIST SAME LOAD AS SEISMIC RESTRAINTS. SRS UTILIZING CAST IRON, THREADED PIPE, OTHER BRITTLE MATERIALS NOT PERMITTED ATTACHMENTS TO RC STRUCTURE. A. USE HIGH STRENGTH MECHANICAL EXPANSION ANCHORS. B. DRILLED OR POWER DRIVEN ANCHORS NOT PERMITTED.
1.30.8.2.3. RECORD GROUND TO TENSION RESULTS FOR EACH RECEPTACLE.	2.5. <u>GROUNDING</u>	2.11.1. ALL NEW PANELBOARDS, DISCONNECT SWITCHES, METERS, TRANSFORMERS, ETC., TO BE COPPER WINDINGS-BUS-BARS, SAME MANUFACTURE, RATING AND TYPE AS BASE BUILDING EQUIPMENT UNLESS OTHERWISE NOTED. MOLDED CASE CIRCUIT BREAKERS TO BE BOLTON AND SAME MANUFACTURE, RATING AND TYPE AT BASE BUILDING BREAKERS. ALL AT/SS AND SURFACE MOUNTED PANELBOARDS TO BE SPRINKLER PROOF.		2.15.10. SRS SHALL BE FULLY INTEGRATED INTO, COMPATIBLE WITH NOISE AND VIBRATION CONTROLS. SRS TO PROVIDE GENTLE AND STEADY CUSHIONING ACTION AND AVOID HIGH IMPACT LOADS. SRS TO LIMIT MOTION TO AVOID DAMAGE TO OTHER BUILDING ELEMENTS AND/OR SYSTEMS. SRS TO RESTRAIN SEISMIC FORCES IN EVERY DIRECTION. FASTENERS AND ATTACHMENT POINTS TO RESIST SAME LOAD AS SEISMIC RESTRAINTS. SRS UTILIZING CAST IRON, THREADED PIPE, OTHER BRITTLE MATERIALS NOT PERMITTED ATTACHMENTS TO RC STRUCTURE. A. USE HIGH STRENGTH MECHANICAL EXPANSION ANCHORS. B. DRILLED OR POWER DRIVEN ANCHORS NOT PERMITTED.
1.30.9. BRANCH CIRCUIT IMPEDANCE TEST (VOLTAGE DROP TEST - GROUNDED SYSTEMS ONLY)	2.5.1. INSTALL GREEN INSULATED EQUIPMENT GROUNDING CONDUCTORS WITH ALL FEEDERS AND BRANCH CIRCUITS.	2.11.2. ALL NEW PANELBOARDS SHALL BE COMPLETE WITH NEUTRAL BUS RATED 200 PERCENT OF PHASE BUS AND UL LISTED AS SUITABLE FOR NONLINEAR LOADS AND PANELBOARDS FED FROM "K" RATED TRANSFORMERS.		2.15.10. SRS SHALL BE FULLY INTEGRATED INTO, COMPATIBLE WITH NOISE AND VIBRATION CONTROLS. SRS TO PROVIDE GENTLE AND STEADY CUSHIONING ACTION AND AVOID HIGH IMPACT LOADS. SRS TO LIMIT MOTION TO AVOID DAMAGE TO OTHER BUILDING ELEMENTS AND/OR SYSTEMS. SRS TO RESTRAIN SEISMIC FORCES IN EVERY DIRECTION. FASTENERS AND ATTACHMENT POINTS TO RESIST SAME LOAD AS SEISMIC RESTRAINTS. SRS UTILIZING CAST IRON, THREADED PIPE, OTHER BRITTLE MATERIALS NOT PERMITTED ATTACHMENTS TO RC STRUCTURE. A. USE HIGH STRENGTH MECHANICAL EXPANSION ANCHORS. B. DRILLED OR POWER DRIVEN ANCHORS NOT PERMITTED.
1.30.9.1. REQUIREMENTS:	2.5.2. SIGNAL AND COMMUNICATION EQUIPMENT: FOR TELEPHONE, ALARM, VOICE AND DATA, AND OTHER COMMUNICATION EQUIPMENT, PROVIDE NO. #2 AWG MINIMUM INSULATED GROUNDING CONDUCTOR IN RACEWAY FROM GROUNDING ELECTRODE SYSTEM TO EACH SERVICE LOCATION, TERMINAL, CABINET, WIRING CLOSET, AND CENTRAL EQUIPMENT LOCATION.	2.11.3. ALL MAIN BREAKERS SHALL BE SEPARATELY MOUNTED ON TOP OR BOTTOM OF PANEL TO SUIT CABLE ENTRY.		2.15.10. SRS SHALL BE FULLY INTEGRATED INTO, COMPATIBLE WITH NOISE AND VIBRATION CONTROLS. SRS TO PROVIDE GENTLE AND STEADY CUSHIONING ACTION AND AVOID HIGH IMPACT LOADS. SRS TO LIMIT MOTION TO AVOID DAMAGE TO OTHER BUILDING ELEMENTS AND/OR SYSTEMS. SRS TO RESTRAIN SEISMIC FORCES IN EVERY DIRECTION. FASTENERS AND ATTACHMENT POINTS TO RESIST SAME LOAD AS SEISMIC RESTRAINTS. SRS UTILIZING CAST IRON, THREADED PIPE, OTHER BRITTLE MATERIALS NOT PERMITTED ATTACHMENTS TO RC STRUCTURE. A. USE HIGH STRENGTH MECHANICAL EXPANSION ANCHORS. B. DRILLED OR POWER DRIVEN ANCHORS NOT PERMITTED.
1.30.9.1.1. VOLTAGE DROP IN BRANCH CIRCUIT WIRING FROM PANELBOARDS TO RECEPTANCES NOT TO EXCEED 3% WHEN A LOAD OF NOT LESS THAN 80% OF THE BREAKER RATING IS APPLIED AT THE RECEPTACLE.	2.5.2.1. SERVICE AND CENTRAL EQUIPMENT LOCATIONS AND WIRING CLOSETS: TERMINATE GROUNDING CONDUCTOR ON A 1/8" X 2" X 1/2" GROUNDING BUS.	2.11.4. PROVIDE BREAKER LOOKS FOR ALL NEW AND EXISTING BREAKERS SERVING EXIT LIGHTS, EMERGENCY LIGHTING AND EMERGENCY BATTERY PACKS.		2.15.10. SRS SHALL BE FULLY INTEGRATED INTO, COMPATIBLE WITH NOISE AND VIBRATION CONTROLS. SRS TO PROVIDE GENTLE AND STEADY CUSHIONING ACTION AND AVOID HIGH IMPACT LOADS. SRS TO LIMIT MOTION TO AVOID DAMAGE TO OTHER BUILDING ELEMENTS AND/OR SYSTEMS. SRS TO RESTRAIN SEISMIC FORCES IN EVERY DIRECTION. FASTENERS AND ATTACHMENT POINTS TO RESIST SAME LOAD AS SEISMIC RESTRAINTS. SRS UTILIZING CAST IRON, THREADED PIPE, OTHER BRITTLE MATERIALS NOT PERMITTED ATTACHMENTS TO RC STRUCTURE. A. USE HIGH STRENGTH MECHANICAL EXPANSION ANCHORS. B. DRILLED OR POWER DRIVEN ANCHORS NOT PERMITTED.
1.30.9.2. METHOD:	2.5.2.2. TERMINAL CABINETS: TERMINATE GROUNDING CONDUCTOR ON CABINET GROUNDING TERMINAL. CONDUCTORS: INSTALL SOLID CONDUCTOR FOR #AWG AND SMALLER, AND STRANDED CONDUCTORS FOR #AWG AND LARGER UNLESS OTHERWISE INDICATED.	2.11.5. ALL FLOOR MOUNTED DISTRIBUTION EQUIPMENT, INCLUDING TRANSFORMERS, PANELBOARDS AND/OR UPS MODULES SHALL BE MOUNTED ON A 100MM (4") HIGH CONCRETE BASE TO EXTEND (2") ON ALL SIDES WITH CHAMFERED CORNERS.		2.15.10. SRS SHALL BE FULLY INTEGRATED INTO, COMPATIBLE WITH NOISE AND VIBRATION CONTROLS. SRS TO PROVIDE GENTLE AND STEADY CUSHIONING ACTION AND AVOID HIGH IMPACT LOADS. SRS TO LIMIT MOTION TO AVOID DAMAGE TO OTHER BUILDING ELEMENTS AND/OR SYSTEMS. SRS TO RESTRAIN SEISMIC FORCES IN EVERY DIRECTION. FASTENERS AND ATTACHMENT POINTS TO RESIST SAME LOAD AS SEISMIC RESTRAINTS. SRS UTILIZING CAST IRON, THREADED PIPE, OTHER BRITTLE MATERIALS NOT PERMITTED ATTACHMENTS TO RC STRUCTURE. A. USE HIGH STRENGTH MECHANICAL EXPANSION ANCHORS. B. DRILLED OR POWER DRIVEN ANCHORS NOT PERMITTED.
1.30.9.2.1. UTILIZE EQUIPMENT APPROVED BY THE CONSULTANT, SEE FIGURE 2 IN CSA STANDARD 232 FOR TEST CIRCUIT.	2.5.2.3. UNDERGROUND GROUNDING CONDUCTORS: INSTALL BARE TINNED-COPPER CONDUCTOR, 20 AWG MINIMUM.	2.11.6. MANUAL STARTERS SHALL BE ALLAN BRADLEY BULLETIN 600, WITH PILOT LIGHT AND ON/OFF TOGGLE SWITCH.		2.15.10. SRS SHALL BE FULLY INTEGRATED INTO, COMPATIBLE WITH NOISE AND VIBRATION CONTROLS. SRS TO PROVIDE GENTLE AND STEADY CUSHIONING ACTION AND AVOID HIGH IMPACT LOADS. SRS TO LIMIT MOTION TO AVOID DAMAGE TO OTHER BUILDING ELEMENTS AND/OR SYSTEMS. SRS TO RESTRAIN SEISMIC FORCES IN EVERY DIRECTION. FASTENERS AND ATTACHMENT POINTS TO RESIST SAME LOAD AS SEISMIC RESTRAINTS. SRS UTILIZING CAST IRON, THREADED PIPE, OTHER BRITTLE MATERIALS NOT PERMITTED ATTACHMENTS TO RC STRUCTURE. A. USE HIGH STRENGTH MECHANICAL EXPANSION ANCHORS. B. DRILLED OR POWER DRIVEN ANCHORS NOT PERMITTED.
1.30.9.2.2. ENSURE THAT ALL CIRCUITS OTHER THAN THE ONE UNDER TEST ARE DE-ENERGIZED.	2.5.2.4. BURY AT LEAST 24" BELOW GRADE.	2.11.7. FUSES SHALL BE GOLD SHAWMUT HRC 1, CLASS J SERIES CJ FOR CONSTANT RUNNING EQUIPMENT AND SERIES AJT FOR EQUIPMENT THAT CYCLES ON AND OFF.		2.15.10. SRS SHALL BE FULLY INTEGRATED INTO, COMPATIBLE WITH NOISE AND VIBRATION CONTROLS. SRS TO PROVIDE GENTLE AND STEADY CUSHIONING ACTION AND AVOID HIGH IMPACT LOADS. SRS TO LIMIT MOTION TO AVOID DAMAGE TO OTHER BUILDING ELEMENTS AND/OR SYSTEMS. SRS TO RESTRAIN SEISMIC FORCES IN EVERY DIRECTION. FASTENERS AND ATTACHMENT POINTS TO RESIST SAME LOAD AS SEISMIC RESTRAINTS. SRS UTILIZING CAST IRON, THREADED PIPE, OTHER BRITTLE MATERIALS NOT PERMITTED ATTACHMENTS TO RC STRUCTURE. A. USE HIGH STRENGTH MECHANICAL EXPANSION ANCHORS. B. DRILLED OR POWER DRIVEN ANCHORS NOT PERMITTED.
1.30.9.2.3. RECORD NO LEAK VOLTAGE AT RECEPTACLE (VO).	2.5.2.5. DUCT BANK GROUNDING CONDUCTOR: BURY 12" ABOVE DUCT BANK WHEN INDICATED AS PART OF DUCT-BANK INSTALLATION.	2.11.8. EXTEND AND MODIFY THE EXISTING BASE BUILDING DISTRIBUTION SYSTEM AS INDICATED ON THE DRAWINGS.		2.15.10. SRS SHALL BE FULLY INTEGRATED INTO, COMPATIBLE WITH NOISE AND VIBRATION CONTROLS. SRS TO PROVIDE GENTLE AND STEADY CUSHIONING ACTION AND AVOID HIGH IMPACT LOADS. SRS TO LIMIT MOTION TO AVOID DAMAGE TO OTHER BUILDING ELEMENTS AND/OR SYSTEMS. SRS TO RESTRAIN SEISMIC FORCES IN EVERY DIRECTION. FASTENERS AND ATTACHMENT POINTS TO RESIST SAME LOAD AS SEISMIC RESTRAINTS. SRS UTILIZING CAST IRON, THREADED PIPE, OTHER BRITTLE MATERIALS NOT PERMITTED ATTACHMENTS TO RC STRUCTURE. A. USE HIGH STRENGTH MECHANICAL EXPANSION ANCHORS. B. DRILLED OR POWER DRIVEN ANCHORS NOT PERMITTED.
1.30.9.2.4. APPLY CURRENT TO 80% OF THE RATING OF THE OVERCURRENT DEVICE PROTECTING THE CIRCUIT UNDER TEST AND RECORD VOLTAGE (VL).	2.5.3. SIZE ALL WIRE FOR MAXIMUM 2% VOLTAGE DROP.	2.11.9. PROVIDE NEW SWITCHES AND BREAKERS IN EXISTING DISTRIBUTION EQUIPMENT AS DETAILED. NEW EQUIPMENT SHALL, IN ALL RESPECTS, BE COMPATIBLE WITH EXISTING EQUIPMENT.		2.15.10. SRS SHALL BE FULLY INTEGRATED INTO, COMPATIBLE WITH NOISE AND VIBRATION CONTROLS. SRS TO PROVIDE GENTLE AND STEADY CUSHIONING ACTION AND AVOID HIGH IMPACT LOADS. SRS TO LIMIT MOTION TO AVOID DAMAGE TO OTHER BUILDING ELEMENTS AND/OR SYSTEMS. SRS TO RESTRAIN SEISMIC FORCES IN EVERY DIRECTION. FASTENERS AND ATTACHMENT POINTS TO RESIST SAME LOAD AS SEISMIC RESTRAINTS. SRS UTILIZING CAST IRON, THREADED PIPE, OTHER BRITTLE MATERIALS NOT PERMITTED ATTACHMENTS TO RC STRUCTURE. A. USE HIGH STRENGTH MECHANICAL EXPANSION ANCHORS. B. DRILLED OR POWER DRIVEN ANCHORS NOT PERMITTED.
1.30.9.2.5. REMOVE LEAD AND RECONFIRM VOLTAGE OF VO.	2.5.4. ALL HOME RUNS TO BE IN CONDUIT.	2.11.10. BALANCE THE LOADING ON FEEDERS SO THAT UNBALANCED LOAD IS LESS THAN 10%.		2.15.10. SRS SHALL BE FULLY INTEGRATED INTO, COMPATIBLE WITH NOISE AND VIBRATION CONTROLS. SRS TO PROVIDE GENTLE AND STEADY CUSHIONING ACTION AND AVOID HIGH IMPACT LOADS. SRS TO LIMIT MOTION TO AVOID DAMAGE TO OTHER BUILDING ELEMENTS AND/OR SYSTEMS. SRS TO RESTRAIN SEISMIC FORCES IN EVERY DIRECTION. FASTENERS AND ATTACHMENT POINTS TO RESIST SAME LOAD AS SEISMIC RESTRAINTS. SRS UTILIZING CAST IRON, THREADED PIPE, OTHER BRITTLE MATERIALS NOT PERMITTED ATTACHMENTS TO RC STRUCTURE. A. USE HIGH STRENGTH MECHANICAL EXPANSION ANCHORS. B. DRILLED OR POWER DRIVEN ANCHORS NOT PERMITTED.
1.30.9.2.6. CALCULATE VOLTAGE DROP AT RECEPTACLE BY THE FORMULA (VO - VL) / VO * 100%.	2.6. <u>WALL PLATES</u>	2.12. <u>EXIT AND EMERGENCY LIGHTING</u>		2.15.10. SRS SHALL BE FULLY INTEGRATED INTO, COMPATIBLE WITH NOISE AND VIBRATION CONTROLS. SRS TO PROVIDE GENTLE AND STEADY CUSHIONING ACTION AND AVOID HIGH IMPACT LOADS. SRS TO LIMIT MOTION TO AVOID DAMAGE TO OTHER BUILDING ELEMENTS AND/OR SYSTEMS. SRS TO RESTRAIN SEISMIC FORCES IN EVERY DIRECTION. FASTENERS AND ATTACHMENT POINTS TO RESIST SAME LOAD AS SEISMIC RESTRAINTS. SRS UTILIZING CAST IRON, THREADED PIPE, OTHER BRITTLE MATERIALS NOT PERMITTED ATTACHMENTS TO RC STRUCTURE. A. USE HIGH STRENGTH MECHANICAL EXPANSION ANCHORS. B. DRILLED OR POWER DRIVEN ANCHORS NOT PERMITTED.
1.30.9.2.7. RECORD THE RESULTS.	2.6.1. FACEPLATES OF FLUSH-MOUNTED TOGGLE SWITCHES AND RECEPTACLES SHALL BE AS FOLLOWS:	2.12.1. PROVIDE A NEW EMERGENCY AND EXIT LIGHTING SYSTEM AS DETAILED ON THE DRAWINGS.		2.15.10. SRS SHALL BE FULLY INTEGRATED INTO, COMPATIBLE WITH NOISE AND VIBRATION CONTROLS. SRS TO PROVIDE GENTLE AND STEADY CUSHIONING ACTION AND AVOID HIGH IMPACT LOADS. SRS TO LIMIT MOTION TO AVOID DAMAGE TO OTHER BUILDING ELEMENTS AND/OR SYSTEMS. SRS TO RESTRAIN SEISMIC FORCES IN EVERY DIRECTION. FASTENERS AND ATTACHMENT POINTS TO RESIST SAME LOAD AS SEISMIC RESTRAINTS. SRS UTILIZING CAST IRON, THREADED PIPE, OTHER BRITTLE MATERIALS NOT PERMITTED ATTACHMENTS TO RC STRUCTURE. A. USE HIGH STRENGTH MECHANICAL EXPANSION ANCHORS. B. DRILLED OR POWER DRIVEN ANCHORS NOT PERMITTED.
1.30.9.2.8. WHERE THE CALCULATED VOLTAGE DROP EXCEEDS 3.0%, REWORK THE BRANCH CIRCUIT WIRING AS REQUIRED TO REDUCE THE VOLTAGE DROP WITHIN THE REQUIRED VOLTAGE.	2.6.1.1. FINISHED AREAS: STAINLESS STEEL FINISH EACH SUPPLIED INDIVIDUALLY WRAPPED IN A SEALED PROTECTIVE ENVELOPE. MANUFACTURER TO MATCH RECEPTACLE AND SWITCH MANUFACTURER.	2.12.2. ALL SELF-CONTAINING EMERGENCY AND EXIT LIGHTS SHALL COMPLY WITH C22.2 241.		2.15.10. SRS SHALL BE FULLY INTEGRATED INTO, COMPATIBLE WITH NOISE AND VIBRATION CONTROLS. SRS TO PROVIDE GENTLE AND STEADY CUSHIONING ACTION AND AVOID HIGH IMPACT LOADS. SRS TO LIMIT MOTION TO AVOID DAMAGE TO OTHER BUILDING ELEMENTS AND/OR SYSTEMS. SRS TO RESTRAIN SEISMIC FORCES IN EVERY DIRECTION. FASTENERS AND ATTACHMENT POINTS TO RESIST SAME LOAD AS SEISMIC RESTRAINTS. SRS UTILIZING CAST IRON, THREADED PIPE, OTHER BRITTLE MATERIALS NOT PERMITTED ATTACHMENTS TO RC STRUCTURE. A. USE HIGH STRENGTH MECHANICAL EXPANSION ANCHORS. B. DRILLED OR POWER DRIVEN ANCHORS NOT PERMITTED.
1.30.9.2.9. NOTE THAT A VOLTAGE DROP UP TO 5%, AS IDENTIFIED IN THE 232 STANDARD IS NOT ACCEPTABLE FOR THIS PROJECT.	2.6.1.2. UNFINISHED AND SURFACE AREAS: GALVANIZED STEEL.	2.12.3. BATTERY UNITS SHALL BE AS SPECIFIED WITH 10 YEAR DESIGN LIFE, INTEGRAL, HIGH CHARGE WITH INDICATING AND PILOT LIGHT, LOAD TRANSFER METERS AND TEST SWITCH, LOW VOLTAGE CUT OUT, OVERLOAD PROTECTIVE CIRCUITRY, 10 MINUTE DELAY OFF, AUTO TEST AND 100 HOUR COOL DOWN.		2.15.10. SRS SHALL BE FULLY INTEGRATED INTO, COMPATIBLE WITH NOISE AND VIBRATION CONTROLS. SRS TO PROVIDE GENTLE AND STEADY CUSHIONING ACTION AND AVOID HIGH IMPACT LOADS. SRS TO LIMIT MOTION TO AVOID DAMAGE TO OTHER BUILDING ELEMENTS AND/OR SYSTEMS. SRS TO RESTRAIN SEISMIC FORCES IN EVERY DIRECTION. FASTENERS AND ATTACHMENT POINTS TO RESIST SAME LOAD AS SEISMIC RESTRAINTS. SRS UTILIZING CAST IRON, THREADED PIPE, OTHER BRITTLE MATERIALS NOT PERMITTED ATTACHMENTS TO RC STRUCTURE. A. USE HIGH STRENGTH MECHANICAL EXPANSION ANCHORS. B. DRILLED OR POWER DRIVEN ANCHORS NOT PERMITTED.
1.30.10. GROUND POINT VOLTAGE RISE TEST (GROUNDED SYSTEMS ONLY)	2.6.1.3. WHERE VOLTAGE RISE EXCEEDS 3%, REWORK THE BRANCH CIRCUIT BONDING CONDUCTOR AS REQUIRED TO REDUCE THE VOLTAGE RISE WITHIN THE REQUIRED VOLTAGE.	2.12.4. EXIT LIGHTS SHALL BE AS SPECIFIED ON THE DRAWINGS. PROVIDE DIRECTIONAL ARROWS AS SHOWN AND TO SUIT THE LOCAL AUTHORITIES. CONNECT 30K SOCKET TO BATTERY UNIT.		2.15.10. SRS SHALL BE FULLY INTEGRATED INTO, COMPATIBLE WITH NOISE AND VIBRATION CONTROLS. SRS TO PROVIDE GENTLE AND STEADY CUSHIONING ACTION AND AVOID HIGH IMPACT LOADS. SRS TO LIMIT MOTION TO AVOID DAMAGE TO OTHER BUILDING ELEMENTS AND/OR SYSTEMS. SRS TO RESTRAIN SEISMIC FORCES IN EVERY DIRECTION. FASTENERS AND ATTACHMENT POINTS TO RESIST SAME LOAD AS SEISMIC RESTRAINTS. SRS UTILIZING CAST IRON, THREADED PIPE, OTHER BRITTLE MATERIALS NOT PERMITTED ATTACHMENTS TO RC STRUCTURE. A. USE HIGH STRENGTH MECHANICAL EXPANSION ANCHORS. B. DRILLED OR POWER DRIVEN ANCHORS NOT PERMITTED.
1.30.10.1. REQUIREMENTS:	2.6.1.4. RECEPTACLES CONNECTED TO THE EMERGENCY POWER SYSTEM: COLOURED RED.	2.12.5. WIRING SHALL CONFORM TO THE MANUFACTURERS RECOMMENDATIONS.		2.15.10. SRS SHALL BE FULLY INTEGRATED INTO, COMPATIBLE WITH NOISE AND VIBRATION CONTROLS. SRS TO PROVIDE GENTLE AND STEADY CUSHIONING ACTION AND AVOID HIGH IMPACT LOADS. SRS TO LIMIT MOTION TO AVOID DAMAGE TO OTHER BUILDING ELEMENTS AND/OR SYSTEMS. SRS TO RESTRAIN SEISMIC FORCES IN EVERY DIRECTION. FASTENERS AND ATTACHMENT POINTS TO RESIST SAME LOAD AS SEISMIC RESTRAINTS. SRS UTILIZING CAST IRON, THREADED PIPE, OTHER BRITTLE MATERIALS NOT PERMITTED ATTACHMENTS TO RC STRUCTURE. A. USE HIGH STRENGTH MECHANICAL EXPANSION ANCHORS. B. DRILLED OR POWER DRIVEN ANCHORS NOT PERMITTED.
1.30.10.1.1. THE VOLTAGE RISE AT THE FOUND POINT OF EACH RECEPTACLE NOT TO EXCEED 2V WHEN A CURRENT OF NOT LESS THAN 84% OF THE RATING OF THE OVERCURRENT DEVICE, PROTECTING THE CIRCUIT UNDER TEST, IS PASSED THROUGH THE BONDING CONDUCTOR.	2.6.1.5. WHERE VOLTAGE RISE EXCEEDS 3%, REWORK THE BRANCH CIRCUIT BONDING CONDUCTOR AS REQUIRED TO REDUCE THE VOLTAGE RISE WITHIN THE REQUIRED VOLTAGE.	2.12.6. INCLUDE CASH ALLOWANCE TO SUPPLY AND INSTALL TWO EXTRA EXIT LIGHTS AND EMERGENCY LIGHTS COMPLETE WITH REQUIRED CONDUITS AND CABLES, ACCORDING TO BUILDING INSPECTORS DIRECTION AT THE TIME OF INSPECTION.		2.15.10. SRS SHALL BE FULLY INTEGRATED INTO, COMPATIBLE WITH NOISE AND VIBRATION CONTROLS. SRS TO PROVIDE GENTLE AND STEADY CUSHIONING ACTION AND AVOID HIGH IMPACT LOADS. SRS TO LIMIT MOTION TO AVOID DAMAGE TO OTHER BUILDING ELEMENTS AND/OR SYSTEMS. SRS TO RESTRAIN SEISMIC FORCES IN EVERY DIRECTION. FASTENERS AND ATTACHMENT POINTS TO RESIST SAME LOAD AS SEISMIC RESTRAINTS. SRS UTILIZING CAST IRON, THREADED PIPE, OTHER BRITTLE MATERIALS NOT PERMITTED ATTACHMENTS TO RC STRUCTURE. A. USE HIGH STRENGTH MECHANICAL EXPANSION ANCHORS. B. DRILLED OR POWER DRIVEN ANCHORS NOT PERMITTED.
1.30.10.2. METHOD:	2.6.2. UNFINISHED AND SURFACE AREAS: GALVANIZED STEEL.	2.13. <u>FIRE ALARM</u>		2.15.10. SRS SHALL BE FULLY INTEGRATED INTO, COMPATIBLE WITH NOISE AND VIBRATION CONTROLS. SRS TO PROVIDE GENTLE AND STEADY CUSHIONING ACTION AND AVOID HIGH IMPACT LOADS. SRS TO LIMIT MOTION TO AVOID DAMAGE TO OTHER BUILDING ELEMENTS AND/OR SYSTEMS. SRS TO RESTRAIN SEISMIC FORCES IN EVERY DIRECTION. FASTENERS AND ATTACHMENT POINTS TO RESIST SAME LOAD AS SEISMIC RESTRAINTS. SRS UTILIZING CAST IRON, THREADED PIPE, OTHER BRITTLE MATERIALS NOT PERMITTED ATTACHMENTS TO RC STRUCTURE. A. USE HIGH STRENGTH MECHANICAL EXPANSION ANCHORS. B. DRILLED OR POWER DRIVEN ANCHORS NOT PERMITTED.
1.30.10.2.1. USE THE TEST CIRCUIT OF FIGURE 4 IN CSA STANDARD 232.	2.6.2.1. WHERE VOLTAGE RISE EXCEEDS 3%, REWORK THE BRANCH CIRCUIT BONDING CONDUCTOR AS REQUIRED TO REDUCE THE VOLTAGE			



NOTES FOR NEW WORK PLAN

- CIRCUIT NUMBER SHOWN IN () ARE INDICATIVE ONLY TO IDENTIFY CIRCUITING ARRANGEMENT. CONTRACTOR SHALL COORDINATE EXACT CIRCUIT NUMBERS WITHIN PANEL ON SITE TO SUIT CONDITIONS.
- RECEPTACLES IN ALL AREAS SHALL BE HOSPITAL GRADE AND PROVIDED IN ACCORDANCE WITH CURRENT OESC, APPLICABLE BULLETINS, AND CSA-222 REQUIREMENTS.
- CONTRACTOR SHALL ADD THE NEW FIRE ALARM INITIATION AND NOTIFICATION DEVICES TO THE EXISTING FIRE ALARM LOOP AS PART OF THE EXISTING FIRE ALARM ZONE AND COORDINATE ALL INSTALLATION ON SITE TO SUIT SITE CONDITIONS.
- EXISTING FIRE ALARM SYSTEM SHALL BE RE-VERIFIED IN ACCORDANCE WITH ALL APPLICABLE CODE REQUIREMENTS AND CANULC-5537.
- CONTRACTOR SHALL UTILIZE THE EXISTING BRANCH CIRCUITS, WHERE POSSIBLE TO FEED THE NEW RECEPTACLES IN THE SCOPE OF WORK AREA. ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH CURRENT OESC, APPLICABLE BULLETINS, AND CSA-222 REQUIREMENTS.
- ENSURE EXISTING BRANCH CIRCUIT WIRING GROUND CONDUCTOR SERVING PATIENT CARE AREAS ARE INSULATED PER CODE REQUIREMENTS. CONTRACTOR SHALL PROVIDE AND INCLUDE AN ITEMIZED PRICE FOR REMOVING EXISTING PATIENT CARE AREA WIRING AND REPLACING WITH NEW TO MEET CURRENT CODE REQUIREMENTS.
- SEE THIS DRAWING FOR EXISTING NEW PANELS LOCATION.
- CENTRAK STROBE SUPPLIED BY HONEYWELL (TYPICAL) DIVISION 26 TO PROVIDE 120V POWER CONNECTION, AND DIVISION 27 TO PROVIDE ONE (1) CAT 6 POE DATA DROP TO POE WEB RELAY. MODULE LOCATED IN ELECTRICAL ROOM. ELECTRICAL CONTRACTOR TO EXTEND 2-CONDUCTOR CABLES FROM RELAY TO EACH STROBE (DEDICATED RUNS). EXACT LOCATIONS OF STROBES TO BE COORDINATED ON SITE AND APPROVED BY OWNER PRIOR TO INSTALL.
- ALL NEW FIRE ALARM DEVICES SHALL BE ADDRESSABLE TYPE AND SAME PRODUCTS ONLY TO MATCH EXISTING SYSTEM AND DEVICES ON SITE.

- ALL NEW PROPOSED SYSTEMS, EQUIPMENT, AND DEVICES SHALL BE FULLY COMPATIBLE WITH, AND THE SAME MANUFACTURER AS EXISTING SYSTEMS, EQUIPMENT, AND DEVICES ON SITE. VERIFY ALL EXISTING SYSTEMS, EQUIPMENT, AND DEVICES ON SITE.
- CONTRACTOR SHALL VERIFY IF THE EXISTING FIRE ALARM SYSTEM HAS STROBING FUNCTION. IF IT DOES NOT, ALL FIRE ALARM SPEAKER STROBE DEVICES SHOWN ON THIS DRAWING SHALL BE FIRE ALARM SPEAKERS TO SUIT THE EXISTING SYSTEM.
- SEE MECHANICAL DRAWINGS FOR MECHANICAL EQUIPMENT SCHEDULE.
- REFER TO I.C.A.T. SPECIFICATIONS (DWG. E2-02a&b) FOR TYPE OF DATA CABLES.
- ALL DATA CABLES SHALL BE HOME RUN BACK TO COMMUNICATION ROOM 3135. SEE DRAWING E2-01 FOR LOCATION.
- ALL COMMUNICATIONS RACEWAYS SHALL BE INSTALLED IN STRAIGHT LINES WITH AS FEW TURNS AS POSSIBLE AND SHALL ALIGN WITH BUILDING GEOMETRY. ALL RACEWAYS SHALL BE INSTALLED IN COMMON CIRCULATION SPACES.
- ALL HORIZONTAL CABLEING SHALL RUN IN CONDUITS OR J-HOOKS. CONDUITS SHALL BE MINIMUM 25MM, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL PROVIDE POE INJECTOR FOR EACH DATA DROP AND NECESSARY PULL BOXES IF HORIZONTAL CABLE PERMANENT LINK LENGTH EXCEEDS 90M. COORDINATE EXACT CABLE ROUTING AND PATHWAYS ON SITE AND PROVIDE TO SUIT.
- PROVIDE ROUGH-INS ONLY FOR ALL SECURITY SYSTEMS, EQUIPMENT, AND DEVICES. SEE ELECTRICAL TYPICAL DETAILS AND SPECIFICATIONS FOR DETAILS. ALL SECURITY SYSTEMS, EQUIPMENT, AND DEVICES SHALL BE SUPPLIED AND INSTALLED BY THE OWNER.
- NURSE CALL SYSTEM AND ASSOCIATED DEVICES SHALL BE AUTSTO TO MATCH BASE BUILDING STANDARD. ALL NEW NURSE CALL DEVICES SHALL BE CONNECTED TO THE EXISTING BASE BUILDING NURSE CALL SYSTEM.
- UPDATE FIRE ALARM ANNUNCIATOR PANEL AT THE ASSOCIATED NURSING STATION TO SUIT THE PROPOSED CHANGES AS PART OF THIS SCOPE OF WORK.

- INITIATION OF SMOKE DETECTOR WITHIN THE ROOM SHALL ACTIVATE SIGNAL ON DOME LIGHT.
- PROVIDE (1) 27MM C FOR POWER AND (1) 35MM C FOR DATA TO A RECESSED FLOOR BOX. EACH FLOOR BOX SHALL CONTAIN (4) 15A RECEPTACLES, (4) CAT6 DATA OUTLETS, AND (1) VOICE OUTLET. RUN POWER CONDUIT UP TO CEILING SPACE AND ROUTE BACK TO ELECTRICAL PANEL. RUN DATA/VOICE CONDUIT UP TO CEILING SPACE AND ROUTE BACK TO TELECOM ROOM. PROVIDE MODULAR FURNITURE TRACKS FROM THE FLOOR BOX UP TO THE DESK CHASSIS TO TERMINATE ALL HARDWARE ON THE WORKSTATION AT 400MM AFF.
- CENTRAK WIRELESS ACCESS POINT (WAP) SUPPLIED BY HONEYWELL (TYPICAL) DIVISION 27 TO PROVIDE CAT 6 POE DATA DROPS FOR ALL WAPS. ELECTRICAL CONTRACTOR TO INSTALL WAPS ABOVE CEILING AND CONNECT VIA RJ45 CONNECTORS. WAP ANTENNAS TO BE INSTALLED THROUGH CEILING TILES. EXACT LOCATIONS TO BE CONFIRMED AND COORDINATED WITH HONEYWELL.
- RTLS MONITOR SUPPLIED BY HONEYWELL (TYPICAL) DIVISION 26 TO PROVIDE 120V POWER CONNECTION TO ALTRONIX POWER SUPPLY LOCATED IN ELECTRICAL ROOM. ELECTRICAL CONTRACTOR TO EXTEND LOW VOLTAGE (218 AWG) CABLE FROM POWER SUPPLY TO EACH MONITOR (3 LOOPS). RTLS MONITORS ARE TO BE INSTALLED IN ANTI-LIGATURE CEILING ENCLOSURES EQUAL TO OBERON WITLIE MODEL 1047 OR APPROVED ALTERNATE. DOOR STYLE, AND ACCESS POINT VENDOR TO BE COORDINATED BY HONEYWELL. ENCLOSURES TO BE SUPPLIED BY DIVISION 26 FOR INSTALLATION BY CEILING TRADE.
- THE EXISTING SECURITY SYSTEM IS C-CURE. ALL SECURITY SYSTEMS MUST BE COORDINATED WITH A.C. TECHNICAL SYSTEMS. CAMERAS SHALL BE AVIGILON, AND ACCESS CONTROLS SHALL BE HID.
- MAG LOCKS TO RELEASE SIMULTANEOUSLY UPON VALID CARD READ, REMOTE RELEASE, OR INITIATION OF A 2ND STAGE EVACUATION SIGNAL. ONCE MAG LOCKS ARE CONFIRMED RELEASED VIA INTERNAL SENSORS, BOTH ADOS SHALL ACTIVATE TO OPEN DOOR LEAVES.

- PROVIDE WATERPROOF BEHAVIORAL HEALTH GRADE EMERGENCY NURSE CALL BUTTON. MUST FEATURE WITH FLUSH ANTI-LIGATURE SWITCH, WIRE TO CENTRAL NURSE CALL SYSTEM. SYSTEM SHALL TRIGGER AUDIO/VISUAL ALARM AT CENTRAL STATION AND CORRIDOR DOME LIGHT. RESET CAPABILITY FROM INSIDE SHOWER ONLY. COORDINATE LOCATION WITH ARCHITECT TO ENSURE DEVICE IS REACHABLE FROM FLOOR LEVEL.
- EACH DESK TO HAVE (1) 15A QUADPLEX RECEPTACLE, (1) DATA OUTLET WITH TWO PORT, AND (1) VOICE OUTLET. ONLY 2 DESKS TOTAL REQUIRE TWO VOICE CORES. (1) OUTLETS MOUNTED ON FURNITURE AT 400MM AFF.
- PROVIDE SHUNT-CONTROL PANEL WHERE SHOWN. PANELS SHALL RECEIVE CONTROL SIGNALS FROM THE NURSE STATION CONSOLE TO SIMUL TANGUALLY.
- 1) TRIGGER RELAY-TRIP BREAKERS OR CONTACTORS ISOLATING ALL POWER CIRCUITS FOR THE ASSIGNED GROUPS OF PICU PATIENT ROOMS.
2) ENERGIZE/DE-ENERGIZE LOW VOLTAGE CONTROL CIRCUITS ROUTED TO NORMALLY CLOSED ELECTRONIC SOLENOID VALVES ON THE MAIN DOMESTIC WATER SUPPLY LINES FOR THE ASSIGNED GROUPS OF PICU ROOMS.
3) PROVIDE FEEDBACK TO THE NURSE STATION CONSOLE FOR LED STATUS INDICATIONS. COORDINATE REQUISITE CONDUIT RUNS, VOLTAGES, AND TERMINATIONS WITH MECHANICAL CONTRACTOR.
- PROVIDE LIGHTING CONTROL PANEL EQUIPPED WITH INTEGRAL TIMECLOCK AND MANUAL OVERRIDE SWITCHES. THE PANEL SHALL INDEPENDENTLY CONTROL LIGHTING ON/OFF FOR ALL PATIENT ROOMS VIA SCHEDULED TIMECLOCK OPERATIONS, WITH INDIVIDUAL MANUAL OVERRIDE CONTROL LOCATED AT THE NURSE STATION.

- REFER TO MECHANICAL DRAWINGS FOR THE EXACT LOCATIONS AND QUANTITIES OF COMBINATION FIRE/SMOKE DAMPERS (CFSD). PROVIDE ONE DEDICATED DUCT-MOUNTED SMOKE DETECTOR FOR EACH CFSD IN STRICT ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS AND APPLICABLE CODES. COORDINATE ALL FINAL POWER, CONDUIT, AND WIRING LOCATIONS WITH THE MECHANICAL CONTRACTOR ON-SITE PRIOR TO ROUGH-IN.
- PROVIDE AN EMERGENCY WATER SHUT-OFF SWITCH LOCATED WHERE SHOWN ON DRAWINGS TO INTERLOCK WITH AND CONTROL THE MECHANICAL SOLENOID VALVES SERVING THE PICU PATIENT WASHROOMS. SWITCH SHALL BE A MUSHROOM STYLE WITH A CLEARLY LABELED ENGRAVED NAMEPLATE AND RED LED PILOT LIGHT TO INDICATE "WATER SHUT-OFF ACTIVATED". REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR VALVES, CONDUIT ROUTING, AND EXACT ZONE CONTROL REQUIREMENTS. COORDINATE FINAL ROUGH-IN LOCATIONS WITH MECHANICAL CONTRACTOR ON-SITE.
- ELECTRICAL DOOR CLOSERS INTERCONNECT WITH THE BUILDING FIRE ALARM SYSTEM VIA ADDRESSABLE CONTROL MODULE OR RELAY. UPON FIRE ALARM ACTIVATION, POWER SHALL BE INTERRUPTED TO ALLOW THE DOOR TO CLOSE AUTOMATICALLY.

- ALL NURSE CALL DEVICES (INCLUDING CALL STATIONS, PUSH BUTTONS) IN PATIENT BEDROOMS, WASHROOMS, AND ALL OTHER PATIENT-ACCESSIBLE AREAS SHALL BE ANTI-LIGATURE AND TAMPER-RESISTANT. DEVICES MUST BE SPECIFICALLY APPROVED FOR BEHAVIORAL HEALTH ENVIRONMENTS. FASTEN ALL DEVICES USING TAMPER-PROOF TORX SECURITY SCREWS.
- PROVIDE REMOTE NURSE CALL LOCKOUT FUNCTION CONTROLLED FROM THE MAIN NURSE SYSTEM REGULATION STATION. THE SYSTEM SHALL ALLOW STAFF TO TEMPORARILY DISABLE PATIENT CALL STATIONS. PROVIDE A DEFAULT AUTOMATIC TIMEOUT RE-EABLE TIME OF 10 MINUTES. FINAL CONFIGURATION, TIMEOUT DURATION, AND OPERATION PROTOCOLS TO BE CONFIRMED BY THE HOSPITAL SYSTEM USER PRIOR TO COMMISSIONING.

- ALL ELECTRICAL WIRING DEVICES, INCLUDING RECEPTACLES, DATA OUTLETS, AND FACEPLATES IN PATIENT-ACCESSIBLE AREAS SHALL BE ANTI-LIGATURE AND TAMPER-RESISTANT. ALL DEVICES MUST BE SUITABLE FOR BEHAVIORAL HEALTH ENVIRONMENTS. RECESSED MOUNT ALL ENCLOSURES AND SECURE COVERS WITH TAMPER-PROOF TORX SECURITY SCREWS.
- PROVIDE TWO (2) DUPLEX RECEPTACLES PER PICU ROOM. TIED TO EMERGENCY POWER CIRCUIT. PROVIDE RECESSED IMPACT-RESISTANT LOCKABLE SECURITY COVERS OVER ALL RECEPTACLES. DEVICES ANULATES TO BE ANTI-LIGATURE AND TAMPER-RESISTANT SUITABLE FOR BEHAVIORAL HEALTH ENVIRONMENTS. SECURE WITH PIN-IN-TORX SECURITY SCREWS. COORDINATE EXACT HEIGHT AND LOCATION WITH ARCHITECTURAL HEADWALL ELEVATIONS PRIOR TO ROUGH-IN. POWER ON/OFF TO BE CONTROLLED BY A MASTER SWITCH AT TEAM STATION.
- PROVIDE WATERPROOF (MIN. IP65), FLUSH-MOUNTED ANTI-LIGATURE NURSE CALL PUSH BUTTON STATION. EQUIPMENT SHALL FEATURE STAINLESS STEEL FACEPLATE, PIEZOELECTRIC BUTTON WITH NO MOVING PARTS, AND TAMPER-PROOF SECURITY SCREWS. APPLY PICK-RESISTANT SECURITY SEALANT AROUND PERIMETER OF FACEPLATE. COORDINATE EXACT MOUNTING LOCATION WITH ARCHITECTURAL ELEVATIONS.
- PROVIDE A DEDICATED EMERGENCY RECEPTACLE CONTROL SHUT-OFF SWITCH FOR EACH INDIVIDUAL PICU PATIENT ROOM. LOCATED WHERE SHOWN ON DRAWINGS. TO INTERLOCK WITH AND CONTROL THE ELECTRICAL POWER CONTROL SERVING THAT SPECIFIC ROOM'S RECEPTACLES. SWITCH SHALL BE A HEAVY-DUTY, KEY-OPERATED TYPE WITH A CLEARLY LABELED ENGRAVED NAMEPLATE AND RED LED PILOT LIGHT TO INDICATE "RECEPTACLE POWER DE-ENERGIZED". COORDINATE FINAL ROUGH-IN LOCATIONS ON-SITE.
- PROVIDE AND INSTALL REMOTE DOOR RELEASE CONTROL SWITCH AT TEAM STATION (V.P.T). ROUTE CONDUIT AND WIRING FROM SWITCH TO SALLYPORT DOOR CONTROL PANEL. COORDINATE EXACT INTERFACE AND ELECTRICAL REQUIREMENTS WITH THE DOOR HARDWARE SUPPLIER AND SECURITY CONTRACTOR. COORDINATE EXACT LOCATION PRIOR TO INSTALLATION.

FURNITURE AND EQUIPMENT

PATIENT BED	EQ1
WALL MOUNTED TV IN PROTECTIVE ENCLOSURE	EQ2
WALL MOUNTED TV	EQ3
FRIDGE	EQ4
AUTOMATIC MEDICATION DISPENSING UNIT	EQ5
PYXIS MED-STATION ES RETURN BINS	EQ6
WALL MOUNTED ELECTRONIC WHITEBOARD	EQ7
BLANKET WARMER	EQ8
WORKSTATION ON WHEEL	EQ9
POWER SUPPLY FOR DOOR HARDWARE	EQ10
PHONE CHARGING STATION	EQ11
MICROWAVE	EQ12

CRASH CART

PRINTER	EQ13
ICE-WATER DISPENSING MACHINE	EQ14
HAND HYGIENE SINK	EQ15
PYXIS - MEDFLEX (MED)	EQ16
VITAL SIGN MONITOR ON STAND	EQ17
WARMER, BATHING WIPES	EQ18
COFFEE MACHINE	EQ19
ELECTRIC KETTLE	EQ20
EPIC ROVER	EQ21
WATER SOLENOID VALVES	EQ22
MEDICAL GAS ZONE ALARM BOX	EQ23
STAFF DURESS COMPUTER	EQ24
CCTV MONITORS	EQ25

SHEET ISSUANCE

7		
6		
5		
4		
3		
2		
1		
NO		
ISSUED FOR ADDENDUM ADD E-01		23.06.26

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4	ISSUED FOR TENDER AND PERMIT	04.06.26
3	ISSUED FOR CLIENT REVIEW	29.05.26
2	ISSUED FOR REVIEW	25.07.25
1	ISSUED FOR REVIEW	15.05.25
NO	ACTION	DATE

Client:
SCARBOROUGH HEALTH NETWORK
3030 BIRCHMOUNT ROAD
SCARBOROUGH, ON

Project Title:
SHN MENTAL HEALTH INPATIENT CONSOLIDATION POD 3A

Sheet Title:
NEW POWER & SYSTEM

Project North

Date:
APR 2025

Project No.:
24002-02

Scale:
1:75

Drawn:
P.T./K.O.

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M.C.

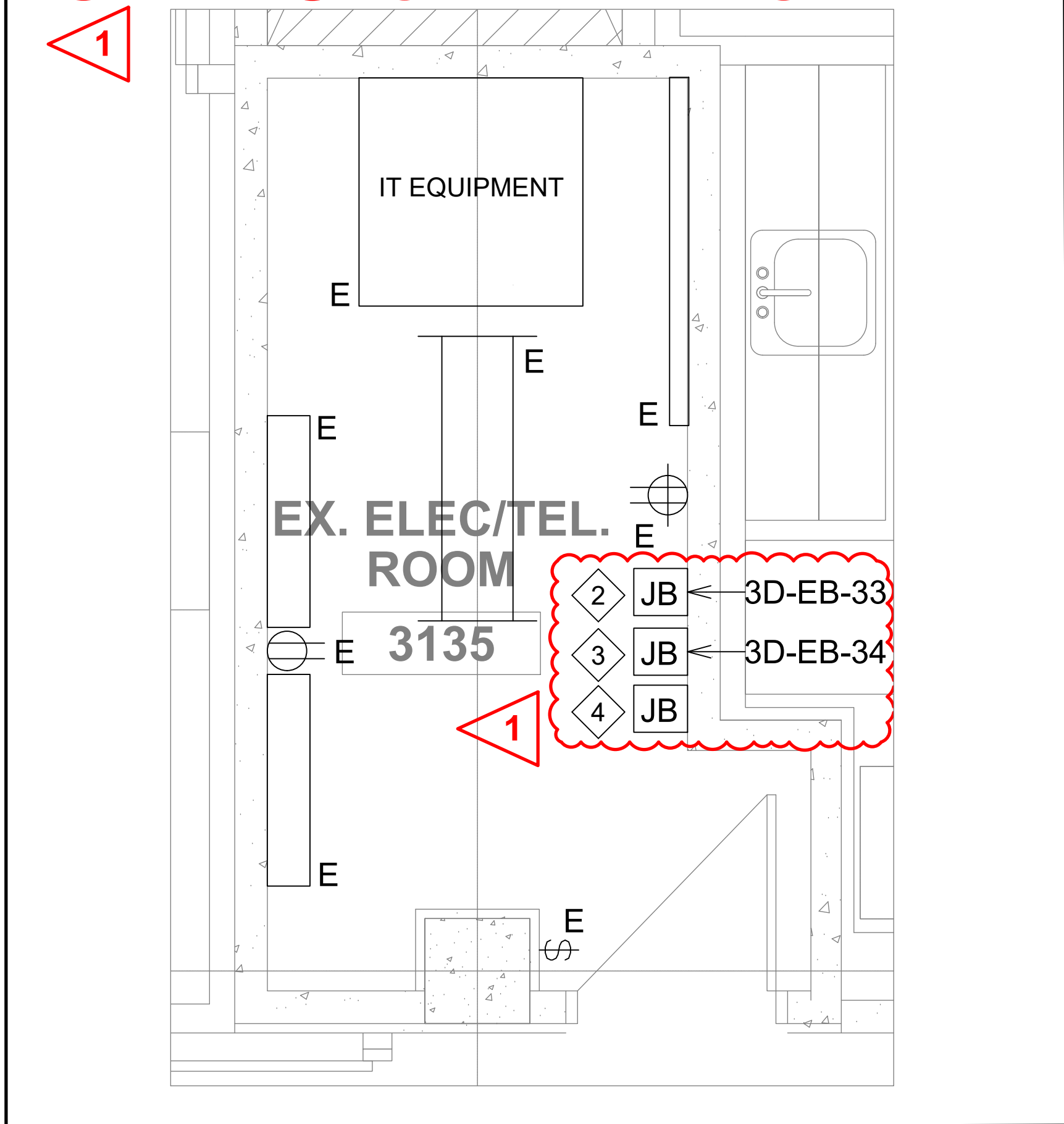
Drawing Number:

E1-02

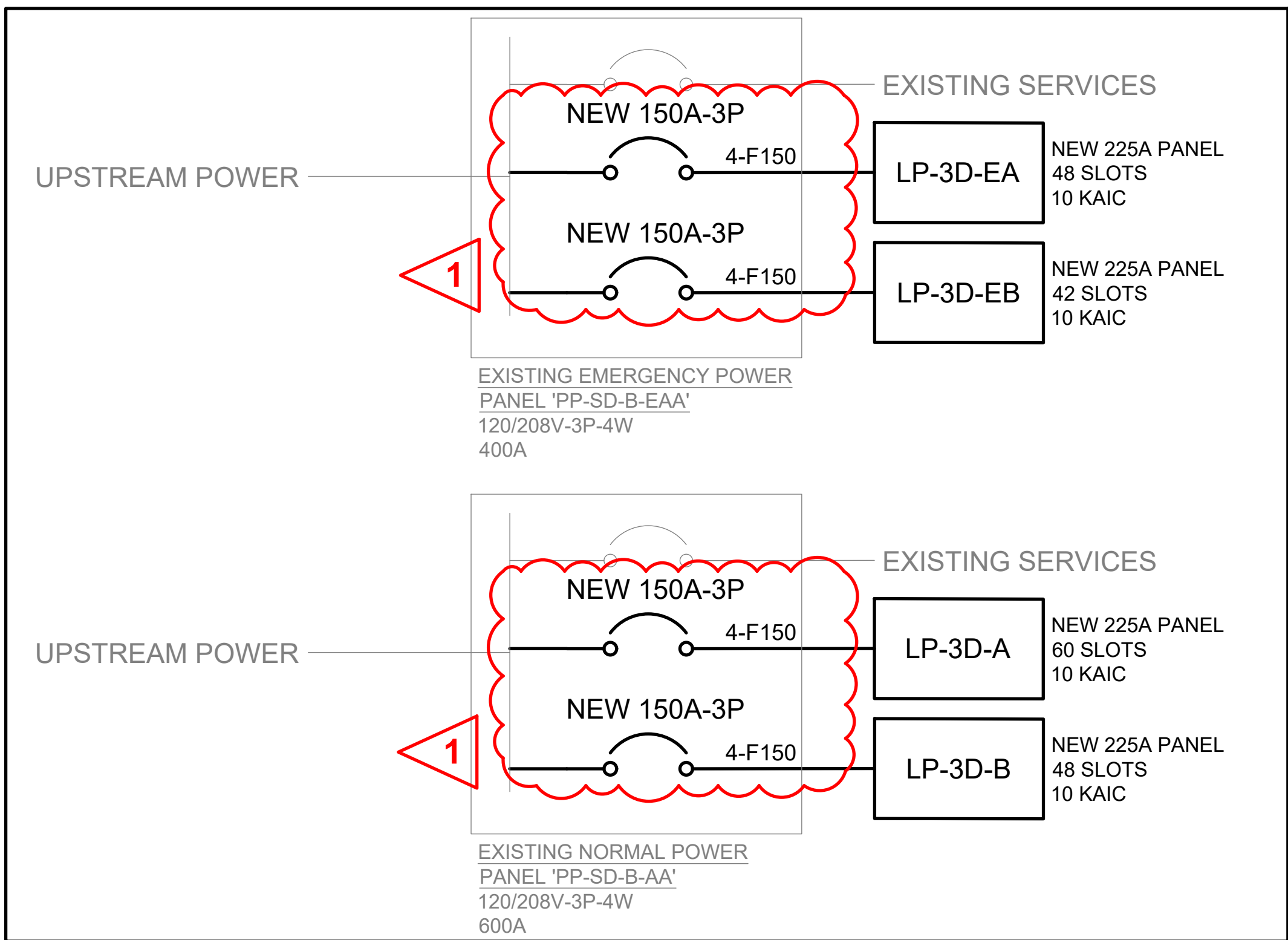
TYPE	DESCRIPTION	BALLAST / DRIVER				CRI	MANUFACTURER CAT. NO. (BASE)	ALTERNATE MANUFACTURERS	IMAGE (REFERENCE ONLY)	COMMENTS / USE (SEE DRAWINGS)		
		WATTS	LUMENS	TYPE	Color Temp						VOLTS	TYPE
F1	The MBH1 series by Ceratus is a recessed luminaire with plenum access that provides access above the ceiling, through the fixture. The fixture is igneous resistant and resists intentional abuse. It comes standard with tamper-resistant hardware and durable polycarbonate lensing. The architectural diffuser provides a durable yet non-critical appearance. The one-piece heat sink seeks directly to the housing. The mounting is for targeted installations (dwell) or security ceilings. Most models are listed in the Guide and accepted for use in high-risk areas, but for use with 1" x 1" grid ceilings.	73W	8030	LED	TURNABLE FROM 2700K- 6500K	120-277	LED	90+	LEWITON MBH1248P/LED/2050K/14590/- UNV-C84G-P08-V114(B01)-F37	APPROVED EQUIVALENT		PATIENT ROOM
F2	The VRVB-3551 is a specification-grade, vandal-resistant wall-mounted luminaire designed for high-security and behavioral health environments. Built with a heavy-duty cast-aluminum design, it features a single-piece precision-deformed housing with TIG-welded corners to ensure a sealed and secure joint.	47W	5200	LED	3500K	120-277	LED	80+	LEWITON VRVB-3551-134-BBS- LED/8030S/LUM/P08/P08-C12C- V09	APPROVED EQUIVALENT		PATIENT ROOM
F3a	The VRIF-4104 is a high-performance, recessed T-bar ceiling light engineered specifically for the demanding environments of a mental health hospital. It provides a seamless balance between a safe, therapeutic atmosphere for patients and a high-visibility workspace for medical staff.	36W	3900	LED	3500K	120-277	LED	80+	LEWITON VRIF-4104-2X4-BBS- LED/8030S/LUM/P08-V09-X8	APPROVED EQUIVALENT		CORRIDOR LOUNGES, DINING AREAS
F3b	The VRIF-4104 is a high-performance, recessed T-bar ceiling light engineered specifically for the demanding environments of a mental health hospital. It provides a seamless balance between a safe, therapeutic atmosphere for patients and a high-visibility workspace for medical staff.	36W	3900	LED	4000K	120-277	LED	80+	LEWITON VRIF-4104-2X4-BBS- LED/8040S/LUM/P08-F37-P08-X8	APPROVED EQUIVALENT		STAFF OFFICE AREAS
F4	Output and color selectable commercial-grade LED strip luminaires. Ideal for many applications requiring a low-profile, small-profile, lighting solution.	19 - 34W	MATCHING THE EXISTING LIGHTING FIXTURE IN STAR 1A	LED	MATCHING THE EXISTING LIGHTING FIXTURE IN STAR 1A	120-277	LED	80+	LEWITON LCO04H/LED-3500K/5-UNV-08	APPROVED EQUIVALENT OR MATCHING THE EXISTING LIGHTING FIXTURE IN STAR 1A		STAR 1A
F5	The newest technology in flexible LED tape is the COB (Chip On Board). Tightly spaced diodes are encapsulated into a single phosphor strip that provides a seamless linear light display with no LED isolation.	3W/FT	285FT	LED	4000K	120	LED	95+	OM LIGHTINGS: Standard Channel (White Finish): LED CHL2-4-WH END CAPS: LED-CHL2-4COW LED TAPE LIGHT: LTR-S-COB	APPROVED EQUIVALENT		UNDERCABINET LIGHT (COLOR TO BE CONFIRMED)
D1	The Ceratus BDL downlights provide acute behavioral health centers with the protections they need, combined with a comfortable residential appeal. Our sealed, specification-grade downlights are engineered to withstand high abuse and tampering, using a rigid, vandal-resistant construction and lensing choices without looking clinical nor institutional. These highly capable downlights are tested to IK10, the highest IK impact level. They are also certified for cleanability to NSF2, carry a certified IP65 seal, and feature antimicrobial finishes. Designed with ligature-resistant construction to minimize the risk of self-harm, these downlights ensure a safe environment for all.	41.3W	2867	LED	3500K	120-277	LED	90+	LEWITON BDL-FSS-WD-MKR/60K/UM-F37- V40	APPROVED EQUIVALENT		SHOWER & WASH ROOM
E1	INTERNALLY ILLUMINATED EDGE LIT EXIT SIGN, ALUMINUM HOUSING, HIGH CLARITY ACRYLIC FACELATE, CSA APPROVED, UNIVERSAL MOUNT, SINGLE OR DOUBLE FACE, GREEN RUNNING MAN PICTOGRAM AND DIRECTIONAL INDICATOR TO SUIT APPLICATION, ARCHITECT TO CONFIRM FINISH	2W	N/A	LED	N/A	120	LED	N/A	LITHONIA LIGHTING EDFORM RUNNING MAN LED SIGN	APPROVED EQUIVALENT		INDOORS

1 LIGHTING FIXTURE SCHEDULE
SCALE: N.T.S.

- NOTE:**
- IF EXISTING EQUIPMENT IN THIS ROOM CURRENTLY CONNECTED TO PANELS L3-3D-A, L3-3D-B, L3-3D-EA, OR L3-3D-EB SHALL BE RECONNECTED TO THE NEW PANELBOARDS TO MAINTAIN CONTINUITY OF SERVICE. CONTRACTOR TO FIELD VERIFY EXISTING CIRCUITING PRIOR TO DEMOLITION/CONSTRUCTION.
 - PROVIDE 120V POWER FOR RTLS MONITORS, EXACT LOCATION TO BE CONFIRMED ON SITE.
 - PROVIDE 120V POWER FOR ALTRONIX, EXACT LOCATION TO BE CONFIRMED ON SITE.
 - HONEYWELL TO PROVIDE AND INSTALL CENTRAK POE WEB RELAY QUAD OUTPUT MODULE. CONNECT TO THE NEAREST POE SWITCH VIA CAT6 CABLE FOR POWER AND DATA. PROVIDE LOW-VOLTAGE CONTROL WIRING FROM THE RELAY OUTPUTS TO THE CONTROLLED STROBES. COORDINATE THE EXACT LOCATION AND SYSTEM INTEGRATION WITH I.T. AND SECURITY CONTRACTORS.



3 ELECTRICAL/IT ROOM LAYOUT
SCALE: 1:20



4 SINGLE LINE DIAGRAM
SCALE: N.T.S.

2 LIGHTING CONTROL ZONES
SCALE: N.T.S.

LIGHTING CONTROL ZONES													
ROOM NAME	ROOM NO.	LIGHTING CONTROL ZONE	LEVEL	LIGHTING CONTROL SYSTEM	MANUAL (S)	RESTRICTED TO MANUAL ON (S)	RESTRICTED TO PARTIAL AUTOMATIC ON (OS)	BI-LEVEL (D)	AUTOMATIC PARTIAL OFF (OS)	AUTOMATIC FULL OFF (OS)	SCHEDULED SHUT-OFF (TC)	PHOTOCELL	SEQUENCE
STAFF LOUNGE	3156			-	Y	-	Y	Y	-	Y	-	-	LOCAL CONTROLS. ALL LIGHT TYPES WITHIN STAFF LOUNGE TO BE DIMMABLE. OCCUPANT MUST MANUALLY TURN ON LIGHTS TO 100%. LIGHTS SHALL AUTOMATICALLY TURN OFF FULLY AFTER 20 MINUTE VACANCY. LIGHTS SHALL BE ON AT 50% UPON VACANCY.
PANTRY				-	Y	-	-	-	-	Y	-	-	LOCAL CONTROLS. LIGHTS, AUTO-ON TO 100% UPON OCCUPANCY. AUTOMATIC FULL OFF AFTER 20 MINUTES OF VACANCY.
STORAGE 1&2	3140 & 3141			-	Y	-	-	-	-	Y	-	-	LOCAL CONTROLS. LIGHTS SHALL AUTOMATICALLY TURN ON TO 100% UPON ENTRY. LIGHTS SHALL AUTOMATICALLY TURN OFF AFTER 20 MINUTES OF VACANCY.
PATIENT LOUNGE (V-PT) PATIENT LOUNGE (PCU 2) PATIENT DINING LOUNGE (PCU 1) PATIENT DINING (V-PT) PATIENT DINING (PCU 2)				-	Y	-	Y	Y	-	Y	-	-	LOCAL CONTROLS. ALL LIGHT TYPES WITHIN VULNERABLE PATIENT LOUNGE TO BE INDIVIDUALLY DIMMABLE. OCCUPANT MUST MANUALLY TURN ON LIGHTS TO 100%. LIGHTS SHALL AUTOMATICALLY TURN OFF FULLY AFTER 20 MINUTE VACANCY. LIGHTS SHALL BE ON AT 50% UPON VACANCY.
SOILED UTILITY	3142			-	Y	Y	-	-	-	Y	-	-	LOCAL CONTROLS. OCCUPANT MUST MANUALLY TURN ON LIGHTS UPON ENTERING. LIGHTS SHALL AUTOMATICALLY TURN OFF FULLY AFTER 20 MINUTE VACANCY.
CLEAN UTILITY	3141			-	Y	Y	-	-	-	Y	-	-	LOCAL CONTROLS. OCCUPANT MUST MANUALLY TURN ON LIGHTS UPON ENTERING. LIGHTS SHALL AUTOMATICALLY TURN OFF FULLY AFTER 20 MINUTE VACANCY.
SHOWER (V-PT & PCU)				-	Y	-	-	-	-	-	-	-	MANUAL ON/OFF BY STAFF VIA SWITCH LOCATED IN STAFF MONITORED CORRIDOR.
PATIENT LOCKERS	3132			-	Y	-	-	-	-	Y	-	-	LOCAL CONTROLS. LIGHTS SHALL AUTOMATICALLY TURN ON TO 100% UPON ENTRY. LIGHTS SHALL AUTOMATICALLY TURN OFF AFTER 20 MINUTES OF VACANCY.
MED ROOM	3144			-	Y	Y	-	-	-	Y	-	-	LOCAL CONTROLS. OCCUPANT MUST MANUALLY TURN ON LIGHTS UPON ENTERING. LIGHTS SHALL AUTOMATICALLY TURN OFF FULLY AFTER 20 MINUTE VACANCY.
PCU UNIT 1 & 2 TEAM STATION	3152 & 3139			-	Y	-	-	Y	-	Y	-	-	LOCAL CONTROLS. ALL LIGHT TYPES WITHIN PCU UNIT TEAM STATION TO BE INDIVIDUALLY DIMMABLE. LIGHTS SHALL AUTOMATICALLY TURN OFF FULLY AFTER 20 MINUTE VACANCY.
CENTRAL STN/TEAM STN	3146			-	Y	-	-	Y	-	Y	-	-	LOCAL CONTROLS. ALL LIGHT TYPES WITHIN PCU UNIT TEAM STATION TO BE INDIVIDUALLY DIMMABLE. LIGHTS SHALL AUTOMATICALLY TURN OFF FULLY AFTER 20 MINUTE VACANCY.
CONSULTATION ROOM	3134			-	Y	Y	-	Y	-	Y	-	-	LOCAL CONTROLS. ALL LIGHT TYPES WITHIN CONSULTATION ROOM TO BE INDIVIDUALLY DIMMABLE. OCCUPANT MUST MANUALLY TURN ON LIGHTS UPON ENTERING. LIGHTS SHALL AUTOMATICALLY TURN OFF FULLY AFTER 20 MINUTE VACANCY.
CORRIDOR, SALLYPORT				-	-	-	Y	-	Y	-	-	-	LIGHTS SHALL BE ON AT 50% UPON VACANCY AND ACTIVATE TO 100% UPON OCCUPANCY. LIGHTS SHALL DECREASE DOWN TO 50% AFTER 20 MINUTES OF VACANCY.
STAFF WASHROOM	3147			-	Y	-	-	-	-	Y	-	-	LOCAL CONTROLS. OCCUPANT MUST MANUALLY TURN ON LIGHTS UPON ENTERING. LIGHTS SHALL AUTOMATICALLY TURN OFF FULLY AFTER 20 MINUTE VACANCY.
PATIENT ROOM				Y	Y	-	-	Y	-	-	Y	-	LOCAL ON/OFF SWITCH COMPLETE WITH DIMMER. ALL LIGHTS WITHIN PATIENT ROOM TO BE CONTROLLED VIA TIMECLOCK AND OVERRIDE AT THE NURSE STATION.
WASHROOM IN PATIENT ROOM				-	Y	-	-	-	-	-	-	-	LOCAL MANUAL ON/OFF CONTROLS.
S - MANUAL TOGGLE SWITCH OS - DUAL TECHNOLOGY OCCUPANCY SENSOR D - MANUAL TIMER TC - TIME CLOCK *MEASURED ON THE FLOOR AS AVERAGE.													

PREFIX = NO. OF CONDUCTORS	MAX BREAKER SIZE	REF	WIRE SIZE	AMP @75°C	CORRECTED AMP. (B) @90°C	CONDUIT SIZE			BONDING CONDUCTOR
						4C	3C	2C	
15	F15	#12	21 (3/4")	25	24	21 (3/4")	21 (3/4")	21 (3/4")	#12
20	F20	#12	21 (3/4")	25	24	21 (3/4")	21 (3/4")	21 (3/4")	#12
30	F30	#10	27 (1")	35	32	27 (1")	21 (3/4")	21 (3/4")	#10
50	F50	#8	27 (1")	50	44	27 (1")	21 (3/4")	21 (3/4")	#10
60	F60	#6	35 (1 1/4")	65	60	35 (1 1/4")	35 (1 1/4")	27 (1")	#8
80	F80	#4	41 (1 1/2")	85	76	41 (1 1/2")	35 (1 1/4")	35 (1 1/4")	#6
100	F100	#3	41 (1 1/2")	100	92	41 (1 1/2")	35 (1 1/4")	35 (1 1/4")	#6
125	F125	#1	53 (2")	130	116	53 (2")	53 (2")	-	#6
150	F150	#1/0	53 (2")	150	136	53 (2")	53 (2")	-	#6
200	F200	#3/0	63 (2 1/2")	200	180	78 (3")	63 (2 1/2")	-	#4
225	F225	#4/0	78 (3")	230	208	78 (3")	63 (2 1/2")	-	#4
250	F250	250MCM	78 (3")	255	232	78 (3")	78 (3")	-	#4
300	F300	350MCM	103 (4")	310	280	103 (4")	91 (3 1/2")	-	#3
350	F350	500MCM	103 (4")	380	344	103 (4")	103 (4")	-	#2
400	F400	600MCM	103 (4")	420	380	103 (4")	103 (4")	-	#2

- NOTE:**
- ALL CABLE SHALL BE 90°C TYPE WITH 75°C AMPACITY TO SUIT BREAKER TERMINATION CHARACTERISTIC.
 - ALL FEEDER SHALL BE PROVIDED WITH BONDING CONDUCTOR AS SHOWN & PER CODE.
 - FOR PARALLEL RUNS, BONDING CONDUCTOR IS REQUIRED IN EACH PARALLEL RUN.
 - RUN PARALLEL FEEDERS FOR RATING OVER 400A.
 - MIN. CABLE SIZE FOR PARALLEL RUN TO BE #1/0.
 - NOT USED
 - USE THIS COLUMN FOR CIRCUIT WITH CURRENT CARRYING NEUTRAL/S. APPLY 0.8 CORRECTION FACTOR FROM TABLE 5C FOR THE 90°C AMPACITY.
 - BOTH 75°C AND THE CORRECTED 90°C (IF APPLY) CABLE AMPACITY MUST BE GREATER THAN THE BREAKER SIZE. UP-SIZE CABLE AS REQUIRED.

5 CABLE & CONDUIT SCHEDULE - COPPER
SCALE: N.T.S.

CONDUIT TRADE SIZE	5mm (0.2")	6mm (0.24")	7mm (0.28")	8mm (0.31")
	CAT 5E	CAT 6	REDUCED OD CAT 6A	CAT 6A
3/4"	3	3	1	1
1"	6	5	3	3
1-1/4"	10	8	6	5
1-1/2"	12	10	8	7
2	20	20	14	10
2-1/2"	30	30	20	15
3"	50	45	30	25
3-1/2"	65	60	40	35
4	85	80	50	45

6 CABLE FILL SCHEDULE
SCALE: N.T.S.

SHEET ISSUANCE		
8	.	.
7	.	.
6	.	.
5	.	.
4	.	.
3	.	.
2	.	.
1	ISSUED FOR ADDENDUM ADD E-01	23.06.26
NO		

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This drawing shall not be used for construction purposes unless properly signed and sealed by the Architect.

7		
6		
5		
4	ISSUED FOR TENDER AND PERMIT	04.06.26
3	ISSUED FOR CLIENT REVIEW	29.05.26
2	ISSUED FOR REVIEW	25.07.25
1	ISSUED FOR REVIEW	15.05.25
NO	ACTION	DATE

Client:
**SCARBOROUGH
HEALTH NETWORK**
3030 BIRCHMOUNT ROAD
SCARBOROUGH, ON

Project Title:
**SHN MENTAL HEALTH
INPATIENT CONSOLIDATION
POD 3A**

Sheet Title:
ELECTRICAL DETAILS

Project North	Stamp
Date: APR 2025	Project No.: 24002-02
Scale: N.T.S.	Drawn: P.T./K.O.
Drawing Number:	Checked: M.C.

E2-01

Branch Panel: LP-3D-A												Volts: 120/208		A.I.C. Rating: 10K	
Location: CORRIDOR 3143												Phase: 3			
Supply From: PP-SD-B-AA												Wires: 4		Mains Rating: 225A	
Mounting: RECESSED															
Enclosure: LOCKABLE															
Note * Lockable breaker															
Shaded Breakers denote existing															
CKT	Load Name	# REC	Trip (A)	Poles	A (VA)	B (VA)	C (VA)	Poles	Trip (A)	# REC	Load Name	CKT			
1	LTG (AREA 3156, 3158, 3159)		15	1	135 264				1	15	LTG (AREA 3130, 3155, 3157)	2			
3	LTG (PATIENT ROOM 3122-3124)		15	1		306 665			1	15	LTG (AREA 3125, 3126, 3127)	4			
5	LTG (PATIENT ROOM 3101-3104)		15	1			353 483		1	15	LTG (PATIENT ROOM 3105-3109)	6			
7	LTG (AREA 3153-3154)		15	1	108 216				1	15	LTG (AREA 3146, 3152)	8			
9	LTG (AREA 3131)		15	1		108 83			1	15	LTG (AREA 3150, 3151)	10			
11	HK RECEPTACLES		20	1			1440 70		1	15	LTG (AREA 3144, 3147-3149)	12			
13	HK RECEPTACLES		20	1	1680 240				1	20	COUNTERTOP RECEPTACLES (AREA 3159)	14			
15	TV & PHONE CHARGING STATION (AREA 3156)		15	1		480 1000			1	15	FRIDGE (AREA 3159)	16			
17	ICE-WATER DISPENSING MACHINE (AREA 3156)		20	1			1200 1000		1	15	FRIDGE (AREA 3156)	18			
19	MICROWAVE (AREA 3156)		20	1	1000 1000				1	20	COFFEE MACHINE (AREA 3156)	20			
21	MICROWAVE (AREA 3156)		20	1		1000 1000			1	20	ELECTRIC KETTLE (AREA 3156)	22			
23	ICE-WATER DISPENSING MACHINE (AREA 3154)		20	1			1200 240		1	20	COUNTERTOP RECEPTACLES (AREA 3154)	24			
25	HK RECEPTACLES		20	1	960 240				1	15	TV (AREA 3153)	26			
27	EPIC ROVER (AREA 3146)		15	1		480 960			1	15	PHONE CHARING STATIONS (AREA 3146)	28			
29	WORK STATION RECEPTACLES (AREA 3146)		15	1			1440 1440		1	15	WORK STATION RECEPTACLES (AREA 3146)	30			
31	WORK STATION RECEPTACLES (AREA 3146)		15	1	960 240				1	15	MONITOR TV (AREA 3146)	32			
33	PRINTER (AREA 3152)		20	1		240 480			1	15	WORK STATION RECEPTACLES (AREA 3152)	34			
35	VITAL SIGN MONITOR (AREA 3152)		20	1			240 240		1	15	HAND HYGIENE SINK (AREA 3152)	36			
37	PRINTER (AREA 3146)		20	1	1000 240				1	15	HAND HYGIENE SINK (AREA 3146)	38			
39	GENERAL RECEPTACLES (AREA 3146)		20	1		480 240			1	15	COUNTERTOP RECEPTACLES (AREA 3147)	40			
41	HK RECEPTACLES (PATIENT ROOM 3122-3124)		20	1			720 200		1	15	FAUCET & FLUSH (PATIENT ROOM 3122-3124)	42			
43	WR RECEPTACLES (PATIENT ROOM 3123-3124)		15	1	480 200				1	15	FAUCET & FLUSH (PATIENT ROOM 3101-3104)	44			
45	WR RECEPTACLES (PATIENT ROOM 3122)		15	1		480 240			1	15	FAUCET & FLUSH (PATIENT ROOM 3105-3109)	46			
47	HK RECEPTACLES (PATIENT ROOM 3123-3124)		20	1			720 200		1	15	FAUCET & FLUSH (AREA 3150, 3151, 3147)	48			
49	HK RECEPTACLES (PATIENT ROOM 3122)		20	1	240 0							50			
51	VITAL SIGN MONITOR (AREA 3146)		20	1		0 0						52			
53					0 0		0 0					54			
55												56			
57						0 0						58			
59							0 0					60			
Total Load:					8283	7522	10266								
Total Amps					69	63	86								

Branch Panel: LP-3D-EA												Location: CORRIDOR 3143				Volts: 120/208				A.I.C. Rating: 10K			
Supply From: PP-SD-B-EAA												Phase: 3				Wires: 4				Mains Rating: 225A			
Mounting: RECESSED																							
Enclosure: LOCKABLE																							
Note * Lockable breaker																							
Shaded Breakers denote existing																							
CKT	Load Name		# REC	Trip (A)	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip (A)	# REC	Load Name		CKT						
1	EXIT SIGN			15	1	30	72					1	15		LTG (AREA 3158,3156)		2						
3	LTG (CORRIDORS)			15	1			288	252			1	15		LTG (AREA 3153,3146,3152,3131,3144)		4						
5	LTG (AREA 3150-3151)			15	1					83	213	1	15		LTG (PATIENT RM 3122-3124)		6						
7	LTG (PATIENT RM 3101-3109)			15	1	639	500					1	20		CFSD		8						
9	CFSD			20	1			700	600			1	20		CFSD		10						
11	RECEPTACLES (PATIENT ROOM 3101)			20	1					480	480	1	20		RECEPTACLES (PATIENT ROOM 3105)		12						
13	RECEPTACLES (PATIENT ROOM 3102)			20	1	480	480					1	20		RECEPTACLES (PATIENT ROOM 3106)		14						
15	RECEPTACLES (PATIENT ROOM 3103)			20	1			480	480			1	20		RECEPTACLES (PATIENT ROOM 3107)		16						
17	RECEPTACLES (PATIENT ROOM 3104)			20	1					480	480	1	20		RECEPTACLES (PATIENT ROOM 3108)		18						
19	WORK STATION (AREA 3146)			15	1	960	480					1	20		RECEPTACLES (PATIENT ROOM 3109)		20						
21	WORK STATION (AREA 3146)			15	1			960	240			1	20		PYXIS - MedFlex (MED) (AREA 3152)		22						
23	WORK STATION (AREA 3152)			15	1					960	480	1	20		WORK STATION ON WHEEL (AREA 3146)		24						
25	WORK STATION (AREA 3152)			15	1	960	200					1	20		MEDICAL GAS ZONE ALARM (AREA 3146)		26						
27	VALVE CONTROL PANEL (AREA 3146)			20	1			500	500			1	20		LIGHTING CONTROL PANEL (AREA 3146)		28						
29	CRASH CART (AREA 3146)			20	1					240	600	1	20		CFSD		30						
31	SOLENOID VALVES (PATIENT ROOM 3101-3104)			20	1	500	600					1	20		SOLENOID VALVES (PATIENT ROOM 3105-3109)		32						
33	SOLENOID VALVES (PATIENT ROOM 3109, WR 3151,3150)			20	1			300	400			1	20		POWER FOR DOOR HARDWARE		34						
35	POWER FOR DOOR HARDWARE			20	1					500	500	1	20		POWER FOR DOOR HARDWARE		36						
37	POWER FOR DOOR HARDWARE			20	1	500	500					1	20		POWER FOR DOOR HARDWARE		38						
39	POWER FOR DOOR HARDWARE			20	1			500	500			1	20		POWER FOR DOOR HARDWARE		40						
41	RECEPTACLES (PATIENT ROOM 3123-3124)			20	1					960	480	1	20		RECEPTACLES (PATIENT ROOM 3122)		42						
43						0	0										44						
45								0	0								46						
47										0	0						48						
Total Load:						6901		6700		6936													
Total Amps						58		56		58													

Branch Panel: LP-3D-B												
Location: CORRIDOR 3143						Volts: 120/208			A.I.C. Rating: 10K			
Supply From: PP-SD-B-AA						Phase: 3			Mains Rating: 225A			
Mounting: RECESSED						Wires: 4						
Enclosure: LOCKABLE												
Note * Lockable breaker												
Shaded Breakers denote existing												
CKT	Load Name	# REC	Trip (A)	Poles	A (VA)	B (VA)	C (VA)	Poles	Trip (A)	# REC	Load Name	CKT
1	LTG (CORRIDORS 3130, 3129)		15	1	144 519				1	15	LTG (PATIENT ROOM 3118-3121)	2
3	LTG (CORRIDORS 3128, 3127)		15	1		312 607			1	15	LTG (PATIENT ROOM 3113-3117)	4
5	LTG (CORRIDORS 3143)		15	1			72 265		1	15	LTG (PATIENT ROOM 3110-3112)	6
7	LTG (AREA 3134, 3132, 3139-3142, 3136-3138)		15	1	468 83				1	15	LTG (SHOWER 3133)	8
9	HK RECEPTACLES (PATIENT ROOM 3121)		20	1		240 240			1	15	WR RECEPTACLES (PATIENT ROOM 3121)	10
11	HK RECEPTACLES (PATIENT ROOM 3119-3120)		20	1			480 480		1	15	WR RECEPTACLES (PATIENT ROOM 3119-3120)	12
13	HK RECEPTACLES (PATIENT ROOM 3117-3118)		20	1	480 480				1	15	WR RECEPTACLES (PATIENT ROOM 3117-3118)	14
15	HK RECEPTACLES (PATIENT ROOM 3115-3116)		20	1		480 480			1	15	WR RECEPTACLES (PATIENT ROOM 3115-3116)	16
17	FAUCET & FLUSH (PATIENT ROOM 3118-3121)		15	1			400 400		1	15	FAUCET & FLUSH (PATIENT ROOM 3110-3122)	18
19	FAUCET & FLUSH (PATIENT ROOM 3113-3117)		15	1	500 720				1	20	HK RECEPTACLES	20
21	HK RECEPTACLES		20	1		1200 960			1	20	HK RECEPTACLES	22
23	HK RECEPTACLES (AREA 3142)		20	1			240 960		1	20	HK RECEPTACLES	24
25	SINK (AREA 3142)		20	1	400 240				1	20	TV RECEPTACLE (AREA 3131)	26
27	FAUCET & FLUSH (AREA 3133)		15	1		200 480			1	20	GENERAL RECEPTACLE (AREA 3141)	28
29	TV RECEPTACLE (AREA 3134)		15	1			240 480		1	20	GENERAL RECEPTACLE (AREA 3134)	30
31	HAND HYGIENE SINK (AREA 3139)		15	1	200 480				1	20	GENERAL RECEPTACLE (AREA 3140)	32
33	VITAL SIGN MONITOR ON STAND (AREA 3139)		20	1		240 480			1	20	GENERAL RECEPTACLE (AREA 3140)	34
35	COUNTERTOP RECEPTACLE (AREA 3136)		20	1			240 1000		1	15	FRIDGE (AREA 3136)	36
37	TV RECEPTACLE (AREA 3138)		15	1	240 200				1	15	HAND HYGIENE SINK (AREA 3144)	38
39	BLANKET WARMER (AREA 3141)		20	1		240 240			1	20	WARMER, BATHING WIPES (AREA 3141)	40
41							0 0					42
43					0 0							44
45						0 0						46
47							0 0					48
Total Load:					5154	6399	5257					
Total Amps					43	53	44					

Branch Panel: LP-3D-EB												
Location: CORRIDOR 3143												
Supply From: PP-SD-B-EAA												
Mounting: RECESSED												
Enclosure: LOCKABLE												
Volts: 120/208												
Phase: 3												
Wires: 4												
A.I.C. Rating: 10K												
Mains Rating: 225A												
Note * Lockable breaker												
Shaded Breakers denote existing												
CKT	Load Name	# REC	Trip (A)	Poles	A (VA)	B (VA)	C (VA)	Poles	Trip (A)	# REC	Load Name	CKT
1	EXIT SIGN		15	1	27 657				1	15	LTG (PATIENT ROOM 3113-3121)	2
3	LTG (CORRIDORS)		15	1		252 219			1	15	LTG (PATIENT ROOM 3113-3121)	4
5	LTG (AREA 3142, 3141, 3134, 3133, 3139)		15	1			300 400		1	20	CFSD	6
7	RECEPTACLES (PATIENT ROOM 3121)		20	1	480 500				1	20	CFSD	8
9	RECEPTACLES (PATIENT ROOM 3119-3120)		20	1		960 300			1	20	CFSD	10
11	RECEPTACLES (PATIENT ROOM 3117-3118)		20	1			960 200		1	20	SOLENOID VALVES (PATIENT ROOM 3113-3114)	12
13	RECEPTACLES (PATIENT ROOM 3115-3116)		20	1	960 300				1	20	SOLENOID VALVES (PATIENT ROOM 3110-3112)	14
15	RECEPTACLES (PATIENT ROOM 3114)		20	1		480 400			1	20	POWER FOR DOOR HARDWARE	16
17	RECEPTACLES (PATIENT ROOM 3113)		20	1			480 400		1	20	POWER FOR DOOR HARDWARE	18
19	RECEPTACLES (PATIENT ROOM 3112)		20	1	480 200				1	20	POWER FOR DOOR HARDWARE	20
21	RECEPTACLES (PATIENT ROOM 3111)		20	1		480 400			1	20	POWER FOR DOOR HARDWARE	22
23	RECEPTACLES (PATIENT ROOM 3110)		20	1			480 400		1	20	POWER FOR DOOR HARDWARE	24
25	MED FRIDGE (AREA 3144)		15	1	240 720				1	20	WORK STATION (AREA 3144)	26
27	MEDICATION DISPENSING UNIT (AREA 3144)		15	1		240 240			1	15	PYXIS RETURN BINS & PYXIS - MEDFLEX (MED) (AREA 3139)	28
29	MEDICATION DISPENSING UNIT (AREA 3144)		15	1			2240 960		1	15	WORK STATION (AREA 3139)	30
31	MEDICATION DISPENSING UNIT (AREA 3144)		15	1	240 960				1	15	WORK STATION (AREA 3139)	32
33	POWER FOR RTLS MONITORS (ELEC/TEL. ROOM)		20	1		1200 500			1	15	POWER FOR ALTRONIX (ELEC/TEL. ROOM)	34
35					0 0		0 0					36
37					0 0							38
39						0 0						40
41							0 0					42
Total Load:					5764	5671	6820					
Total Amps:					48	47	57					