

Tender Package - Addendum

Date: 2026-02-06
Project No.: 24013B
Project: GBGH Pharmacy Modernization

Consultant: Cumulus Architects Inc.
Owner: Georgian Bay General Hospital (GBGH)

Tender Addendum No:

03

This addendum forms part of the contract documents and is to be read, interpreted, and coordinated with all other parts. The cost of all contained herein is to be included in the contract sum. 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 and date on the Tender Form. Failure to do so may subject bidder to disqualification. Bidding and contract documents for the above captioned Project shall be amended as follows:

Description:

Architectural

A100 – LEVEL 1 - DEMOLITION PLAN

- Note added for the removal/disposal of existing wooden shelving system in the File Storage room as part of GC demolition scope.

A102 – LEVEL 1 - DEMOLITION PLAN (PHASE 1)

- Note added for the removal/disposal of existing wooden shelving system in the File Storage room as part of GC demolition scope.

A301 – LEVEL 1 - REFLECTED CEILING PLAN (PHASE 1)

- Revised GWB bulkhead in Dispensary area.

Specifications

Revised Section 02 41 16 - Demolition

Revised Section 08 11 13 - Steel Doors and Frames

Revised Section 08 12 16 - Interior Aluminum Screen and Door Frames

Revised Section 08 80 00 - Glass and Glazing

Revised Section 09 77 33 - Hygienic Panel Wall System

Hardware

Mechanical

Refer to Mechanical Addendum noted in Attachments.

Electrical

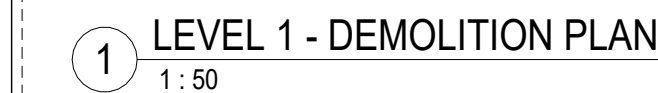
Refer to Electrical Addendum noted in Attachments.

Attachments:

1. Architectural drawings as noted above.

2. Updated Specifications sections as noted above.
3. Electrical Addendum #EA-01 dated February 4, 2026.
4. Mechanical Addendum M1 dated February 4, 2026.

End of Addendum No. 03



A100

NOTE: PHASE 1 AND PHASE 3 REQUIRE SEPARATE OCCUPANCIES TO MAINTAIN CONTINUOUS PHARMACY OPERATION.

LEGEND - DEMOLITION PLAN

- NOT IN CONTRACT / NOT IN SCOPE AREA
- EXISTING CONSTRUCTION TO REMAIN
- EXISTING CONSTRUCTION TO BE REMOVED
- LINE OF 1 HOUR FIRE SEPARATION
- LINE OF PROPOSED CONSTRUCTION HOARDING
- CONTRACTOR TO TAKE RESPONSIBILITY FOR TEMPORARY CONSTRUCTION AND EGRESS/ACCESS ROUTES DURING CONSTRUCTION

GENERAL NOTES:

- PRIOR TO DEMOLITION NOTIFY CONSULTANTS OF ANY DISCREPANCIES WITH THE DRAWINGS.
- PRIOR TO DEMOLITION COORDINATE WITH OWNER HOURS OF OPERATION, MATERIAL AND WASTE HANDLING REQUIREMENTS AND MATERIAL TO BE REUSED.
- PROTECT AREA OF WORK, EXISTING CONSTRUCTION TO REMAIN AND ADJACENT AREAS FROM DAMAGE.
- COORDINATE WITH OWNER AND OBTAIN APPROVAL FOR SPECIAL DEMOLITION ACTIVITIES CAUSING DISTURBANCE TO OTHER OCCUPANTS AND SPACES OUTSIDE DEMOLITION AREA.
- PROVIDE DUST BARRIER TO ALL AREAS AFFECTED BY THE DEMOLITION AND PROTECT AND MAINTAIN PUBLIC AND ADJACENT TENANT AREAS (CORRIDORS, LOBBIES, ETC) DURING DEMOLITION.

REFER TO OWNER'S DESIGNATED SUBSTANCES REPORT FOR PRE-EXISTING DESIGNATED SUBSTANCES OBSERVED. NOTIFY CONSULTANT AND OWNER OF ANY DESIGNATED SUBSTANCES DISCOVERED DURING DEMOLITION. OWNER TO ARRANGE FOR REMOVAL OF ALL EXISTING FURNITURE, FITTINGS AND EQUIPMENT FROM PHASED WORK AREAS PRIOR TO START OF CONSTRUCTION.

FLOORS

- MAINTAIN INTEGRITY OF EXISTING CORRIDOR AND EXITS. CORRIDOR SHALL BE FREE OF CONSTRUCTION MATERIAL AND/OR DEBRIS. EXISTING FLOORING TO REMAIN IN THIS AREA AS NOTED ON PLAN. PROVIDE LOCKING HARDWARE FOR ALL DOORS ENTERING INTO THE CONSTRUCTION AREA FROM EXISTING CORRIDOR. COORDINATE WITH OWNER TO PROVIDE CONSTRUCTION CORE LOCKSET FOR HOARDING ACCESS. PROVIDE DUST SEAL ON ALL DOORS BORDERING WORK AREA WHEN PERFORMING WORK IN CORRIDOR. ANY WORK PERFORMED OUTSIDE OF THE SCOPE AREA SHALL BE DONE AFTER HOURS AND IN COORDINATION WITH THE HOSPITAL. ALL WORK SHALL BE PERFORMED IN CONFORMANCE WITH INFECTION PREVENTION AND CONTROL GUIDELINES.

- NOT USED

- EXISTING FLOOR FINISH (SHEET VINYL, C/W FLASH COVE AND OTHER APPLIED BASES, ETC) TO BE REMOVED. SCRAPE AND PREPARE SUBSTRATE AS REQUIRED TO OBTAIN SMOOTH AND LEVEL SURFACE READY TO RECEIVE NEW FLOOR FINISHES AS AND WHERE SPECIFIED. CLEAN AND LEVEL EXISTING CONCRETE SUBSTRATE, INCLUDING ANY IRREGULARITIES AND PHYSICAL RESIDUE, AND FILL DEPRESSIONS AND CRACKS WITH FLOOR LEVELING COMPOUND. REMOVE ANY EXISTING MATERIAL, ADHESIVES, OIL OR DUST THAT MAY BE DETRIMENTAL TO THE BONDING OF THE NEW FLOORING. TELEGRAPHING OF SUBSTRATE THROUGH TO NEW FLOORING IS NOT PERMITTED. USE SELF-LEVELING MORTAR IN AREAS THAT NEED TO BE BUILT UP TO MATCH EXISTING FLOOR LEVELS. CONTRACTOR TO ENSURE FLOOR IS TRUE AND LEVEL TO MEET THE REQUIREMENTS OF THE NEW WORK. MAKE GOOD FLOOR SUBSTRATES WHERE EXISTING PARTITIONS HAVE BEEN DEMOLISHED (TYP.).

- EXISTING CARPET AND/OR APPLIED WALL BASES TO BE REMOVED, INCLUDING MASTICS, ADHESIVES OR OTHER SURFACE RESIDUES. MAKE GOOD FLOOR SUBSTRATES WHERE EXISTING PARTITIONS HAVE BEEN DEMOLISHED TYP.

- REDUNDANT FLOOR BOXES, RACEWAYS, SERVICES, DRAINS, SLEEVES/OPENINGS THROUGH EXISTING CONCRETE FLOOR SLAB SHALL BE FILLED WITH NEW CONCRETE TO OBTAIN A STRUCTURALLY SOUND, SMOOTH AND LEVEL SURFACE TO RECEIVE NEW FLOOR FINISH TYPICAL. MAKE REPAIRS AS REQUIRED MAINTAIN REQUIRED FIRE-RESISTANCE RATINGS OF FLOOR SLABS.

WALLS

- REMOVE AND DISPOSE OF EXISTING GYPSUM BOARD AND METAL STUD FRAMED PARTITIONS COMPLETE WITH ASSOCIATED WALL BASE, AND CORNER GUARDS, WHERE INDICATED BY DASHED LINES. REMOVE ALL REDUNDANT MECHANICAL AND ELECTRICAL SERVICES IN CONFORMANCE WITH GOVERNING CODES AND AUTHORITIES. REFER TO AND COORDINATE WITH MECHANICAL, ELECTRICAL AND ABATEMENT SCOPE OF WORK. MAKE GOOD ALL AFFECTED SURFACES AS REQUIRED TO MATCH EXISTING, OR TO LEAVE READY TO RECEIVE NEW FINISHES TYP.

- REMOVE AND DISPOSE OF EXISTING CMU WALL TO EXTENTS NOTED. PROVIDE TEMPORARY STRUCTURAL SUPPORT UNTIL NEW LINTELS CAN BE INSTALLED.

- REMOVE AND DISPOSE OF EXISTING INTERIOR WALL ACCESSORIES (I.E. CORNER GUARDS, WALL BUMPERS ETC.) AND MAKE GOOD (PATCH, PAINT) ALL AFFECTED SURFACES AS REQUIRED TO MATCH EXISTING, OR TO LEAVE READY TO RECEIVE NEW FINISHES TYP.

N.B.: REMOVE AND RETAIN EXISTING WALL-MOUNTED EQUIPMENT, FITMENTS AND DEVICES, INCLUDING ALL RELATED ATTACHMENTS, MOUNTINGS, ETC. COORDINATE WITH OWNER THE EXTENT OF ITEMS TO BE RETAINED.

WINDOWS

- REMOVE AND DISPOSE OF EXISTING INTERIOR WINDOWS AND FRAMES.

DOORS

- REMOVE AND DISPOSE OF EXISTING DOOR, FRAME AND HARDWARE WHERE INDICATED BY DASHED LINES. ELECTRICAL TRADE TO DISCONNECT POWER FOR DOORS WITH ELECTRIFIED CONTROLS/HARDWARE. REFER TO AND COORDINATE WITH MECHANICAL, ELECTRICAL AND ABATEMENT SCOPE OF WORK. MAKE GOOD ALL AFFECTED SURFACES AS REQUIRED TO MATCH EXISTING, OR TO LEAVE READY TO RECEIVE NEW FINISHES TYP. AT EXTERIOR DOORS THAT ARE TO BE REMOVED.

MILLWORK/CASEWORK

- REMOVE AND DISPOSE OF EXISTING MILLWORK COMPLETE WITH PLUMBING AND ELECTRICAL FIXTURES AND ALL RELATED FITMENTS WHERE INDICATED BY DASHED LINES. CAP OFF ALL SERVICES IN ACCORDANCE WITH MECHANICAL, ELECTRICAL AND ABATEMENT SCOPE OF WORK. PLUMBING SERVICES TO BE CAPPED AS FAR BACK TO THE MAIN AS POSSIBLE TO ELIMINATE DEAD LEGS. MAKE GOOD ALL AFFECTED SURFACES AS REQUIRED TO LEAVE READY FOR INSTALLATION OF NEW WORK. REFER TO AND COORDINATE WITH MECHANICAL, ELECTRICAL AND ABATEMENT SCOPE OF WORK.

CEILINGS

- CEILING WORK IN CORRIDORS/AREAS OUTSIDE THE CONSTRUCTION HOARDED AREAS TO TAKE PLACE AFTER HOURS IN COORDINATION WITH OWNER.

- REMOVE AND DISPOSE OF EXISTING CEILING TILES AND T-BAR SUSPENSION GRIDS WHERE INDICATED BY DIAGONAL HATCH PATTERN. COORDINATE WITH MECHANICAL AND ELECTRICAL FOR FULL SCOPE OF REMOVALS. REMOVE ALL REDUNDANT HANGERS AND FRAMING TO MAKE FOR A CLEAN AND UNOBSTRUCTED WORK AREA READY FOR NEW WORK UNDER THIS CONTRACT.

MECHANICAL & ELECTRICAL

- COORDINATE WITH MECHANICAL DIVISION AND REMOVE PLUMBING FIXTURES, FAUCETS AND CONTROLS, FLOOR DRAINS, VENTS AND CONTROLS, MEDICAL GASES, AND CONNECTORS WHERE INDICATED. COORDINATE WITH MECHANICAL DIVISION FOR SHUT-OFF, TERMINATION, REMOVAL AND CAPPING OFF OF EXISTING DUCTWORK, PLUMBING, FIXTURES AND ACCESSORIES AS REQUIRED TO ACCOMMODATE THE DEMOLITION AND NEW WORK. TERMINATE AND CAP OFF SERVICES IN CONFORMANCE WITH MECHANICAL SCOPE OF WORK AND IN CONFORMANCE WITH ALL GOVERNING CODES AND AUTHORITIES. COORDINATE WITH MECHANICAL DIVISION FOR FULL EXTENT OF MECHANICAL DEMOLITION WORK REQUIRED. FILL AND FIRESTOP REDUNDANT CORE/SLEEVE OPENINGS IN FIRE-RATED ASSEMBLIES TYP.

- COORDINATE WITH ELECTRICAL DIVISION FOR THE SHUT-OFF, TERMINATION, REMOVAL AND CAPPING OFF OF EXISTING ELECTRICAL CONTROLS, SWITCHES AND SERVICES AS REQUIRED TO ACCOMMODATE THE DEMOLITION AND NEW WORK. TERMINATE AND CAP OFF SERVICES IN CONFORMANCE WITH ELECTRICAL SCOPE OF WORK AND IN CONFORMANCE WITH ALL GOVERNING CODES AND AUTHORITIES. COORDINATE WITH ELECTRICAL DIVISION FOR FULL EXTENT OF ELECTRICAL DEMOLITION WORK REQUIRED. FILL AND FIRESTOP REDUNDANT CORE/SLEEVE OPENINGS IN FIRE-RATED ASSEMBLIES TYP.

CLIENT:



1112 St Andrews Dr.
Midland, ON
L4R 4P4

CONSULTANT:



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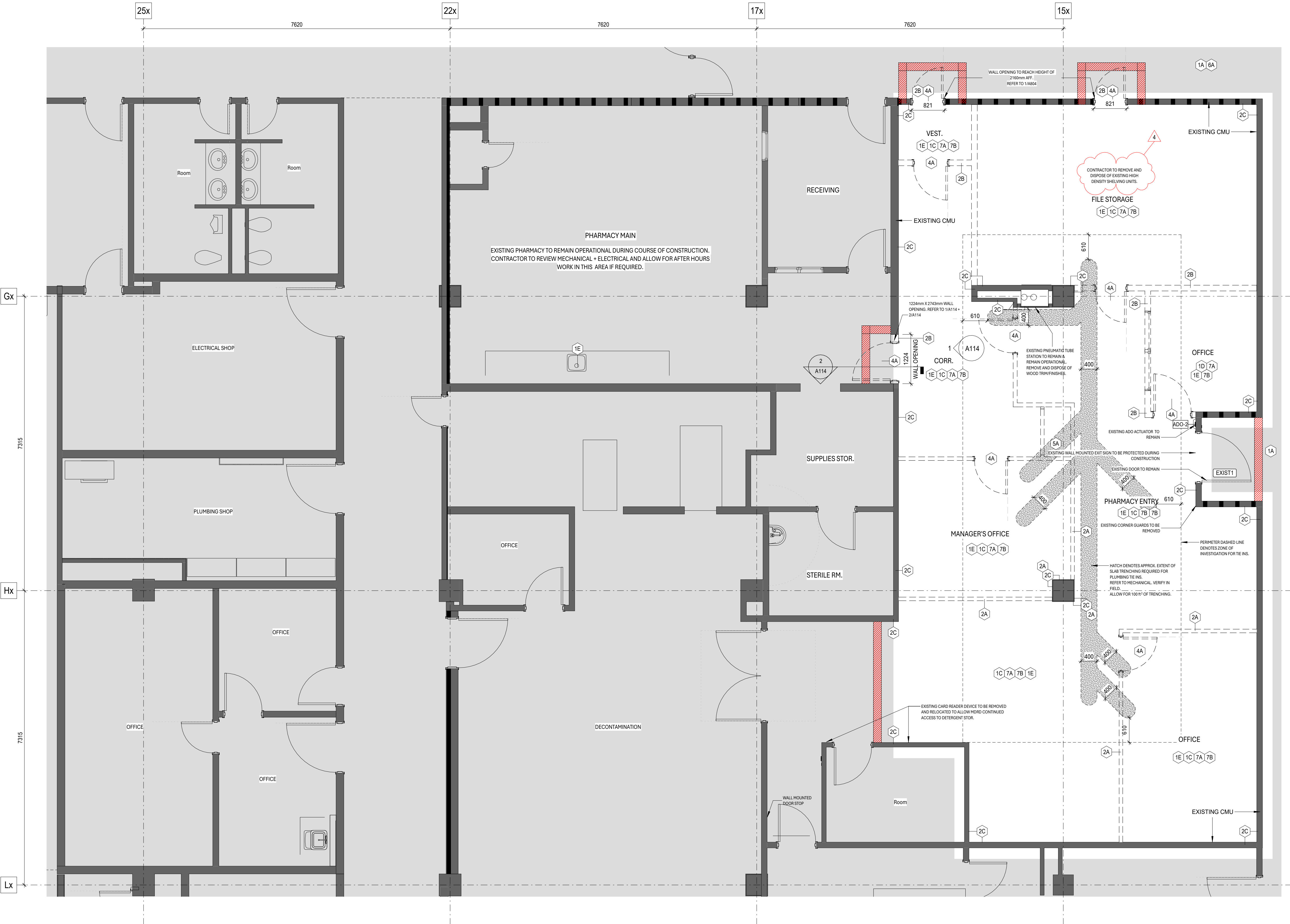
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1 LEVEL 1 - DEMOLITION PLAN (PHASE 1)

1 : 50

4	Issued for Addendum #3	2026-02-06
3	Issued for Permit/Tender	2025-12-17
2	Issued for 100% Design Development	2025-10-14
1	Issued for Schematic Design	2025-05-26
NO	DESCRIPTION	DATE

SHEET REVISION

PROJECT:

GBGH Minor Works - Pharmacy
1112 St Andrews Dr, Midland, ON L4R 4P4

TITLE:

LEVEL 1 - DEMOLITION PLAN
(PHASE 1)

PROJECT NO:

24013B

CHECKED:

Checker

DRAWING NO:

A102



LEGEND - RCP

- EXISTING CONSTRUCTION
- NEW CONSTRUCTION
- FUTURE WORK, NOT IN SCOPE/CONTRACT
- CEILING FINISH
[XXXX AFF]
- CEILING TYPE AND ELEVATION A.F.F.
- LAY-IN ACT1 ACOUSTIC TILES IN T-BAR GRID SYSTEM. REFER TO FINISH SCHEDULE.
- GYPSUM BOARD ON METAL FRAMING AS REQUIRED AND SUSPENDED FROM STRUCTURE.

CEILING FIXTURES/DEVICES LEGEND

NOTE: REFER TO M/E DRAWINGS AND SPECIFICATIONS FOR DEVICES.

- CEILING MOUNTED LIGHT FIXTURE.
- CEILING MOUNTED LIGHT FIXTURE - SQUARE RECESSED SPOT LIGHT.
- OCCUPANCY SENSOR
- FIRE ALARM SIGNAL SPEAKER.
- ACCESS PANEL.
- CEILING MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW AS INDICATED.
- SUPPLY AIR DIFFUSER.
- RETURN AIR GRILLE.
- SPRINKLER HEAD
- WALL-MOUNTED VANITY LIGHT
- SECURITY CAMERA
- SMOKE DETECTOR

GENERAL NOTES:

THE REFLECTED CEILING PLAN AND ASSOCIATED ENLARGED CEILING PLANS SHOW LOCATION FOR CRITICAL CEILING COMPONENTS AND DEVICES. NOT ALL CEILING ELEMENTS OF ALL TRADES ARE SHOWN. REFER TO ELECTRICAL, MECHANICAL, COMMUNICATION, A/V AND SECURITY DRAWINGS AS THEY APPLY FOR FULL SCOPE OF WORK AND QUANTITIES.

CONTRACTOR TO LAYOUT PIPING, DUCTWORK AND OTHER MAJOR ELEMENTS IN CEILING PLENUM SPACE AND COORDINATE FOR ADEQUATE CLEARANCES FOR RECESSED CEILING DEVICES TO MAINTAIN LAYOUT AS INDICATED IN THE REFLECTED CEILING PLANS. ADVISE CONSULTANTS OF DISCREPANCIES WITH THE DIMENSIONED PLANS OR CONFLICTS WITH OTHER PARTS OF THE WORK. ADJUST LOCATIONS AS REQUIRED BASED ON REVIEW.

FOR ALL ELECTRICAL ACCESSORIES AND COVERPLATES PROVIDE STANDARD WHITE COLOUR, UNLESS OTHERWISE NOTED. COORDINATE WITH ARCHITECT PRIOR TO PURCHASE AND INSTALLATION OF MATERIALS. NO BLANK PLATES ARE PERMITTED.

LOCATE UNDIMENSIONED SPRINKLER HEADS, SPEAKERS, LIGHT FIXTURES AND OTHER ITEMS IN THE CENTRE OF SUSPENDED ACOUSTIC CEILING TILES UNLESS OTHERWISE NOTED.

FINISH AND COLOUR OF ACCESS PANELS, HVAC DIFFUSERS/REGISTERS, LIGHT FIXTURES, CEILING TRIM, DRAPERY POCKETS, SPEAKER GRILLES AND OTHER CEILING MOUNTED DEVICES TO MATCH SCHEDULED CEILING COLOUR UNLESS OTHERWISE NOTED.

CUT EXISTING GWB CEILINGS AS REQUIRED TO FACILITATE INSTALLATION OF ELECTRICAL OR MECHANICAL SERVICES AND REPAIR CEILINGS TO PRE-EXISTING CONDITIONS. ALLOW FOR SUCH CEILING REPAIRS OF FLOOR LEVEL BELOW, IF REQUIRED. SCOPE OF SUCH WORK FOR REPAIRS SHALL BE ESTABLISHED AT TIME OF BID AND INCLUDED IN BASE AMOUNT.

VERIFY WITH CONSULTANT THE INSTALLATION HEIGHT OF ALL SUSPENDED OR WALL-MOUNTED LIGHTING FIXTURES PRIOR TO INSTALLATION. WHERE POSSIBLE PROVIDE 'SLACK' SUSPENSION SYSTEM TO ALLOW FOR HEIGHT ADJUSTMENT UPON CONSULTANT REVIEW IN THE FIELD.

- 1 PROVIDE CLEANROOM AIRTIGHTNESS. SEAL ALL PENETRATIONS. ALL ACCESS PANELS TO BE GASKETED.

CLIENT:



CONSULTANT:



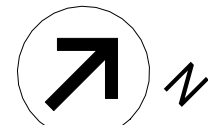
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PROJECT:
GBGH Minor Works - Pharmacy
1112 St Andrews Dr, Midland, ON L4R 4P4

TITLE:
LEVEL 1 - REFLECTED
CEILING PLAN (PHASE 1)

PROJECT NO:
24013B
CHECKED:
TP

DRAWING NO:

A301

Demolition

Section issued by Addendum

PART 1 - GENERAL

1.1 Summary

- .1 Section includes:
 - .1 Demolition and removal of selected non-structural portions of building.
 - .2 Removal of surplus materials from the *Place of the Work*.
 - .3 Related mechanical and electrical work and demolition requirements are covered under Divisions 21, 22, and 23 and Divisions 26, 27, and 28 respectively.
 - .4 Salvage:
 - .1 Salvaging of designated items for reuse by Owner.
 - .2 Salvage of designated items to be reused or recycled.
- .2 Section excludes:
 - .1 Demolition, removal, remediation, or abatement of designated substances or materials and toxic and hazardous substances.

1.2 Administrative Requirements

- .1 Pre-demolition meeting:
 - .1 Schedule a pre-demolition meeting following the procedures specified for pre-installation meetings in accordance with Section 01 31 19.
 - .2 Review existing conditions at the *Place of the Work* thoroughly to establish full extent of items to be removed and items to remain. Commencement of demolition work will be considered to be acceptance of existing conditions at the *Place of the Work* and removal of such items.
 - .3 Examine adjacent properties to determine extent of protection required.

1.3 Submittals

- .1 Submit required submittals in accordance with Section 01 33 00.
- .2 Special procedures submittals:
 - .1 Existing conditions documentation:
 - .1 Document existing conditions of adjoining construction and site improvements, including pre-existing damage to finish surfaces that might be misconstrued as damage caused by demolition operations.
 - .2 Comply with Section 01 32 00.
 - .3 Submit existing conditions documentation before demolition work begins.
 - .2 Inventory of items to be salvaged:
 - .1 Prepare typed inventory of units to be salvaged and cross-reference to drawing showing existing elevations.
 - .2 Submit inventory following procedures for submittal of shop drawings in accordance with Section 01 33 00.

Demolition

Section issued by Addendum

1.4 Quality Assurance

.1 Qualifications:

- .1 Execute the work of this section using workers skilled in the respective duties for which they are employed, and with minimum 3 years' experience in application of *Products*, systems, and assemblies specified.

PART 2 - PRODUCTS

Not applicable.

PART 3 - EXECUTION

3.1 Examination

- .1 Verify that utilities have been disconnected and capped.
- .2 Observe existing conditions and correlate with requirements indicated to determine extent of selective demolition required.
- .3 Inventory and record the condition of items to be removed and reinstalled and items to be removed and salvaged.
- ~~.3.4~~ When unanticipated mechanical, electrical, or structural elements that conflict with intended function or design are encountered, investigate and measure the nature and extent of conflict. Promptly submit a written report to *Consultant*.
- ~~.4.5~~ Survey of existing conditions: Record existing conditions by use of photographs in accordance with Section 01 32 00.

3.2 Utility Services and Mechanical / Electrical Systems

- .1 Refer to Divisions 21, 22, and 23 and Divisions 26, 27, and 28 respectively.

3.3 Selective Demolition, General

- .1 Demolish and remove existing construction only to the extent required by new construction, and as otherwise indicated. Use methods required to complete the work within limitations of governing regulations and as follows:
 - .1 Proceed with selective demolition systematically, from higher to lower level. Complete selective demolition operations above each floor or tier before disturbing supporting members on the next lower level.
 - .2 Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping, to minimize disturbance of adjacent surfaces. Temporarily cover openings to remain.
 - .3 Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
 - .4 Do not use cutting torches until work area is cleared of flammable materials. At concealed spaces, such as duct and pipe interiors, verify condition and contents of hidden space before starting flame-cutting operations. Maintain fire watch and portable fire-suppression devices during flame-cutting operations.

Demolition

Section issued by Addendum

- .5 Maintain adequate ventilation when using cutting torches.
- .6 Remove decayed, infested, or otherwise dangerous or unsuitable materials and promptly dispose of off-site.
- .7 Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.
- .8 Dispose of demolished items and materials promptly.
- .2 Dispose of demolished materials from *Project* site except where noted otherwise and in accordance with authorities having jurisdiction. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
- .3 Do not sell demolished material at the *Place of the Work*.
- .4 Clean existing surfaces specified to receive new applied finishes to assure proper adherence.

3.4 Selective Demolition Procedures for Specific Materials

- .1 Concrete: Demolish in sections. Cut concrete full depth at junctures with construction to remain and at regular intervals, using power-driven saw, then remove concrete between saw cuts.
- .2 Masonry: Demolish in small sections. Cut masonry at junctures with construction to remain, using power-driven saw, then remove masonry between saw cuts.

3.5 Salvage

- .1 Remove and store items indicated or directed for salvage. Remove, handle and transport such items to storage area designated in the *Contract Documents*, to an area within the *Place of the Work* designated by *Consultant*, or to an area away from the *Place of the Work* as directed by the *Consultant*. Perform such work to prevent damage to the items during removal and in storage.
- .2 The *Owner* shall review *Place of the Work* prior to commencement of demolition and instruct the *Contractor* of the items to be retained for re-use or be turned over to the *Owner*.
- .3 Remove and store indicated items for future use by *Owner*. Remove, handle and transport such items to storage area indicated in the *Contract Documents* or to an area within the *Place of the Work* designated by *Consultant*. Perform such work carefully and with diligence to prevent any damage to the items during removal and in storage.

3.5.6 Protection

- .1 Take precautions to support affected structures and, if safety of building being demolished or adjacent structures or services appears to be endangered, cease operations and notify demolition engineer, *Contractor* and *Consultant*.
- .2 Protect work to remain against damage. Repair or replace damaged work at no additional cost to the *Owner*.

END OF SECTION

Steel Doors and Frames

Section reissued by Addendum

PART 1 - GENERAL

1.1 Summary

- .1 Section includes:
 - .1 Hollow metal doors and panels (steel doors).
 - .2 Metal frames (steel frames, transom frames).
 - .3 Metal frames (steel frames for screens, sidelights, window assemblies).

1.2 Administrative Requirements

- .1 Coordination:
 - .1 Cooperate fully with finish hardware distributor's representative during preparation of shop drawings and execution of shop fabrication.
 - .2 Coordinate installation of doors and frames with installation of hardware specified in Section 08 71 00.
- .2 Conduct a pre-installation meeting in accordance with Section 01 31 19.

1.3 Submittals

- .1 Submit required submittals in accordance with Section 01 33 00.
- .2 Submit copy of NAAMM-HMMA 840-17 standard.
- .3 *Product* data sheets:
 - .1 Submit manufacturer's *Product* data sheets for *Products* proposed for use in the work of this section.
- .4 Shop drawings:
 - .1 Include details of each door and frame type, finish hardware types and locations, frame profiles, door and frame elevations, mitre details, fire protection rating, glazing preparation details and anchor details and locations.
 - .2 Include schedule identifying each unit, with door marks and numbers relating to numbering on drawings and in door schedule.
 - .3 Electrified hardware requirements and preparations shall be clearly indicated on shop drawings.

1.4 Quality Assurance

- .1 Qualifications:
 - .1 Manufacturers:
 - .1 Provide doors and frames manufactured by a firm specializing in the design and production of hollow metal steel doors and frames.
 - .2 Manufacturer shall be a member in good standing of the Canadian Steel Door Manufacturers Association (CSDMA).

Steel Doors and Frames

Section reissued by Addendum

1.5 Product Handling

- .1 Product handling shall be in accordance with Section 01 60 00 as supplemented by the requirements of this section.
- .2 Product handling shall be in accordance with CSDMA Guide Specification for Installation and Storage of Hollow Metal Doors and Frames.

1.6 Warranty

- .1 Warrant work of this section in accordance with Section 01 78 36.
- .2 Extended warranties:
 - .1 System:
 - .1 Labour, materials, and workmanship for work of this section.
 - .2 The warranty is a total system warranty, and includes hardware, sealants, hanging and fitting, and finishing.
 - .3 Duration: 2 years.
 - .2 Glass and glazing: in accordance with Section 08 80 00.

PART 2 - PRODUCTS

2.1 Manufacturers

- .1 All Steel Doors 2000 Ltd.
- .2 Apex Industries Inc.
- .3 Artek Door (1985) Ltd.
- .4 Baron Steel Doors & Frames.
- .5 Daybar Industries Ltd.
- .6 De La Fontaine.
- .7 Diamond Manufacturing.
- .8 Fleming- Door Products.
- .9 M.J. Daley Manufacturing Co. Ltd.
- .10 Trillium Steel Doors Limited.
- .11 Vision Hollow Metal Limited.

2.2 Performance/Design Requirements

- .1 Insulated metal doors shall be tested to meet an operable U-value of 2.56 W/m².K (0.450 Btu/hr.ft².°F).
- .2 Fire rating requirements:
 - .1 Fire rated labelled doors and frames: tested in accordance with CAN/ULC-S104-15 and listed by a nationally recognized agency having a factory inspection service and shall be constructed as detailed in Follow-Up Service Procedures/Factory Inspection Manuals issued by listing agency to individual manufacturers.

Steel Doors and Frames

Section reissued by Addendum

- .2 Install fire labelled steel door and frame products in accordance with NFPA 80-2013, except where indicated otherwise.
- .3 Doors and frames shall function as intended, including but not limited to:
 - .1 Be in true alignment.
 - .2 Operate and swing freely, smoothly, and easily.
 - .3 Remain stationary at any point.
 - .4 Close evenly and tightly against stops without binding.
 - .5 Latch positively when doors are closed with moderate force.

2.3 Materials

- .1 Steel:
 - .1 Fabricated from tensioned levelled steel in accordance with ASTM A924/A924M-22a, galvanized in accordance with ASTM A653/A653M-18, Commercial Steel CS, Type B.
 - .2 Steel shall be free of scale, pitting, coil breaks, surface blemishes, buckles, waves, and other defects.
 - .3 Minimum sheet thickness; uncoated steel sheet: in accordance with Appendix 1 of ANSI/NAAMM HMMA 861-14 "Guide Specifications for Commercial Hollow Metal Doors and Frames".
 - .4 Finish: Minimum Galvanneal coating designation ZF120 (A40).
- .2 Door core materials:
 - .1 Honeycomb: Structural small cell 25 mm (1") maximum kraft paper 'honeycomb'. Weight: 36.3 kg (80 lb) per ream (minimum). Density: 16.5 kg/m³ (1.03 pcf) minimum, sanded to required thickness.
- .3 Adhesives:
 - .1 Heat resistant, single component, polyurethane reactive (water) hot melt, thermoset adhesive.
 - .2 Lock seam doors: fire resistant, resin reinforced polychloroprene, high viscosity sealant-adhesive.
- .4 Primer: rust inhibitive for touch-up.
- .5 Finishing hardware: in accordance with Section 08 71 00.
- .6 Miscellaneous:
 - .1 Door silencers: single stud rubber or neoprene type.
 - .2 Vision frame light kits for doors:
 - .1 Accurately fitted, mitred at corners and fastened to frame opening with counter-sunk oval head sheet metal screws. Locate exposed fasteners to glazing face as directed by *Consultant*.
 - .2 Finish:
 - .1 Baked enamel finish.

Steel Doors and Frames

Section reissued by Addendum

.3 Acceptable *Product*:

.1 Air Louver 'VSLH Slimline' Metal Vision Frame.

.2 Substitutions: in accordance with Section 01 25 00.

.7 Acoustic batt insulation: in accordance with Section 09 29 00.

2.4 Fabrication - General

- .1 Fabricate steel doors, frames, transoms, sidelights and borrowed lights as applicable, to the design and dimensions indicated. Take field measurements where coordination with adjoining work is necessary.
- .2 Fabricate steel doors and frames to be rigid, neat in appearance and free from defects, warp, wave or buckle with all corners square unless otherwise indicated.
- .3 Operating clearances:
 - .1 Provide clearance at floor with allowance made for indicated finish flooring materials.
 - .2 Clearances for Fire-Rated Doors: As required by NFPA 80-2013.
 - .3 Clearances for Non-Fire-Rated Doors: Not more than 3 mm (1/8") at jambs and heads, except not more than 6 mm (1/4") between pairs of doors. Not more than 19 mm (3/4") at bottom.
- .4 Drill and tap or reinforce for mortised or surface mounted hardware in accordance with accepted hardware schedule, ANSI A115, NFPA 80-2013, or manufacturers recommendations.
- .5 Countersink exposed fasteners unless otherwise shown. Use flat or oval head screws.
- .6 Reinforce components to resist stresses imposed by hardware in use.
- .7 Allow for anticipated expansion and contraction of frames and supports.
- .8 Fit elements at intersections and joints accurately together, in true planes, and plumb and level.
- .9 Weld continuously at joints exposed to view or at joints through which air or water could penetrate from the exterior of building to the interior.
- .10 Perform welding in accordance with CSA W59-24.
- .11 Mortise, reinforce, drill and tap to receive hardware and security devices using templates provided by respective *Supplier*.
- .12 Touch up finish damaged during fabrication.
- .13 Prepare doors or frames to receive seals where seals are indicated.
- .14 Attach labels to suit required fire-protection ratings.

2.5 Fabrication - Steel Doors and Panels

- .1 Fabricate steel doors and panels to a thickness of 45 mm (1-3/4"), unless indicated otherwise.
- .2 Interior and non-insulated doors and panels:

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- .1 Face sheets fabricated from 1.06 mm (0.042") (18 gauge) steel.
- .2 Honeycomb core.
- .3 Longitudinal edges mechanically interlocked.
 - .1 Adhesive assisted with edge seams visible. Tack welded at top and bottom of door, 150 mm (6") on centre, and above and below each edge cutout, filled and ground smooth with no visible seams.
- .3 Fabricate of composite metal face construction with each face formed from flush sheet steel without visible seams, free of scale, pitting, coil brakes, buckles and waves.
- .4 Formed edges shall be true and straight with minimum radius for the thickness of steel used.
- .5 Lock and hinge edges shall be bevelled 3 mm in 50 mm (1/8" in 2") unless hardware or door swing dictates otherwise.
- .6 Top and bottom of doors shall be provided with inverted, recessed, 1.34 mm (0.053") (16 gauge) steel end channels, welded to each face sheet at 50 mm (2") on centre maximum.
- .7 Prior to shipment, mark each door with an identification number as shown on the approved submittal drawings.
- .8 Blank, reinforce, drill and tap doors for mortised, templated hardware. Locate hardware to manufacturer's standard unless indicated otherwise.
- .9 Holes 12.7 mm (1/2") and larger shall be factory prepared.
- .10 Glazing:
 - .1 For glazing use vision frame light kits as specified above.
 - .2 Glazing trim and stops shall be accurately fitted (within 0.39 mm (0.015") tolerance), butted at corners, with removable glazing stops located on the 'push' side of the door.

2.6 Fabrication - Steel Frames

- .1 General: Applicable to frames, transom panel frames, sidelights, and window assemblies.
- .2 Interior and non-thermally broken frames; welded:
 - .1 Fabricated from:
 - .1 1.34 mm (0.053") (16 gauge) steel.
 - .2 Supplied set-up and welded (SUW).
- .3 Factory assembled frame product shall be square, free of defects, warps or buckles.
- .4 Set-up and welded corner joints (SUW):
 - .1 Profile welded—punch mitred, continuously welded on inside of the profile faces, rabbets, returns and soffit intersections, with exposed faces filled and ground to a smooth, uniform seamless surface, as defined in the CSDMA - "Recommended Specifications for Commercial Steel Door and Frame Products".
- .5 Set-up and welded joints at mullions, sills and center rails:
 - .1 Coped accurately, butted and tightly fitted.

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- .2 At intersecting flush profile faces, securely weld, fill and grind to flush, smooth, uniform, seamless surface.
- .3 At intersecting recessed profile faces, securely weld to concealed reinforcements, with exposed hairline face seams.
- .4 At other intersecting profile elements make exposed face seams to hairline tolerance.
- .6 Where required due to site access, when required for co-ordination or installation, or shipping limitations, frame product shall be fabricated in sections for splicing in the field.
 - .1 Field spliced jambs, heads and sills shall be provided with 1.34 mm (0.053") (16 gauge) steel splice plates securely welded into one section, extending 100 mm (4") minimum each side of splice joint.
 - .2 Field splices at closed sections (mullions or center rails) shall be 1.34 mm (0.053") (16 gauge) steel splice angles securely welded to the abutting member. Face of splice angle shall extend 100 mm (4") minimum into closed sections when assembled.
 - .3 Field splice joints shall be welded, filled and ground to present a smooth uniform surface by the installation company responsible for installation after assembly.
- .7 On factory assembled frame product, provide 2 temporary steel shipping bars welded to the base of the jambs or mullions to maintain alignment during shipping and handling. Remove shipping bars prior to anchoring of frames to floor.
- .8 Each door opening shall be prepared for single stud door silencers. Silencers shall be shipped loose for installation by installer, after finish painting.
 - .1 Single interior doors: 3 at strike jamb.
 - .2 Sound, light, or smoke sealed doors: None required.
 - .3 Transom panels: 2 at each jamb.
- .9 Prior to shipment, mark each frame with an identification number as shown on the approved submittal drawings.
- .10 Provide mullions and transom bars of closed construction type. For fixed condition, attach members to frame with butt-welded joints. For removable condition, attach members with removable mullion anchors.
- .11 Conceal fastenings unless otherwise indicated.
- .12 Anchor frames to floor by 1.34 mm (0.053") (16 gauge) thick angle clips, welded to frame and provide with 2 holes for floor anchorage.
- .13 Grind welded corners to a flat plane, fill with metallic paste filler and sand to uniform smooth finish.
- .14 Protect strike and hinge reinforcements using guard boxes welded to frames at masonry construction.
- .15 Reinforce head of frames wider than 1220 mm (48").
- .16 Brace frame units to prevent distortion in shipment and protect finish.

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2.7 Hardware Reinforcements and Preparations

- .1 Door and frame product shall be blanked, reinforced, drilled and tapped at the factory for fully templated mortise hardware only, in accordance with the approved hardware schedule and templates provided by the hardware supplier.
- .2 Door and frame products shall be factory blanked and reinforced only for mortised hardware that is not fully templated.
- .3 Where surface mounted hardware, anchor hinges, thrust pivots, pivot reinforced hinges, or non-templated hardware are required frame product shall be reinforced only, with drilling and tapping done by field installation.
- .4 Templated holes 12.7 mm (1/2") diameter and larger shall be factory prepared, except mounting and through bolt holes, which shall be by installation on site. Templated holes less than 12.7 mm (1/2") diameter shall be factory prepared only when required for the function of the device (for knobs, levers, cylinders, thumb or turn pieces) or when these holes over-lap function holes.
- .5 Hinge reinforcements shall be 3.12 mm (0.123") (10 gauge) steel minimum, high frequency type shall be provided.
- .6 Frames shall be prepared for 114 mm (4.5") standard weight hinges minimum unless otherwise indicated.
- .7 Doors and frames in excess of 2450 mm (96") rabbet height shall be prepared for 114 mm (4.5") heavy weight 4.6 mm (0.180") hinges minimum.
- .8 Lock, strike and flush bolt reinforcements shall be 1.34 mm (0.053") (16 gauge) steel minimum, with extruded tapped holes that provide equivalent number of threads as 2.36 mm (0.093") (12 gauge).
- .9 Reinforcements for surface mounted hardware, concealed closers and holders and flush bolts shall be 1.06 mm (0.042") (18 gauge) steel minimum.
- .10 Reinforcements are not required for surface applied hardware supplied with thru-bolts and spacers or sex-bolts.
- .11 Provide hardware mortises on perimeter frame members to be grouted in masonry or concrete partitions with 0.66 mm (0.026") (22 gauge) steel grout guards.
- .12 Electrified hardware:
 - .1 Where electrically or electronically operated hardware is specified on the schedules or details or the final approved schedule and templates provided by the hardware supplier, hardware enclosures and/or junction boxes, where indicated on the templates, shall be provided and inter-connected with CSA approved 12.7 mm (1/2") diameter conduit and connectors.
 - .2 Refer to electrical documents for general electrical rough-in details. At door locations indicated in electrical documents as requiring rough-in only of electrical (ie. where no electrically or electronically operated hardware is specified in the hardware schedule), provide enclosures, boxes, and conduit to permit future installation of devices without removal of grout, demounting of frames, or installation of exposed conduits.
 - .3 Frames:

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- .1 Frames with electrified devices shall include electrical connection boxes sized to accommodate devices specified in Section 08 71 00. At time of frame manufacture, electrical connection boxes shall be supplied by Divisions 26, 27, and 28 for installation into frame by work of this section.
- .2 Frame electrical connection boxes shall be positioned flush to edge of frame face return. Clearance shall be maintained to allow wall material to be consistently applied for length of frame member. Frame connection boxes shall be welded in place and positioned to allow necessary clearance for electrical trade to install conduit and connection components, with conduit layout in a manner that takes conduit up to ceiling in an uninterrupted configuration and to accommodate wire installation.
- .4 Doors:
 - .1 Doors with electrified devices shall be manufactured to include wire raceway in door panel to accommodate electrified devices, such as electric hinge, power transfer units, electrified locks, electrified door closures and electrified exit devices. Construction of raceways shall provide a continuous conduit or channel between entry and exit points to accommodate wire installation after door manufacture.
 - .2 Doors with electrified locks may require extended space to accommodate plug-type connection components or wire collection space. Coordinate with work of Section 08 71 00 and obtain hardware templates for electrified hardware clearly indicated on reviewed shop drawings and prior to door manufacture.

2.8 Frame Anchorage

- .1 Frame products shall be provided with anchorage appropriate to floor, wall and frame construction.
- .2 Each wall anchor shall be located immediately above or below each hinge reinforcement on the hinge jamb and directly opposite on the strike jamb.
- .3 Frame products for installation in new masonry walls shall be provided with steel adjustable wall anchors of the T-strap, stirrup or wire, 1.34 mm (0.053") (16 gauge) minimum or 3.96 mm (0.156") diameter wire. Straps shall be not less than 50 mm (2") x 254 mm (10") in size, corrugated and/or perforated.
- .4 Frame products installed in steel stud and drywall partitions shall be provided with 0.81 mm (0.032") (20 gauge) steel snap-in or "Z" stud type anchors.
- .5 Jambs of frames in previously placed concrete, masonry or structural steel shall be punched and dimpled to accept machine bolt anchors, 6.4 mm (1/4") diameter, located not more than 150 mm (6") from the top and bottom of each jamb. Anchor preparations and guides shall also be located immediately above or below the intermediate hinge reinforcing and directly opposite on the strike jamb. Each preparation shall be provided with 1.34 mm (0.053") (16 gauge) anchor bolt guides.
- .6 Anchor bolts and expansion shell anchors for the above preparations shall be provided by the installation company.

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- .7 Where frame product is installed prior to construction of the adjacent wall, each jamb shall be provided with 1.34 mm (0.053") (16 gauge) steel floor anchors. Each anchor shall be provided with 2 holes for mounting to the floor and shall be securely welded to the inside of the jamb profile.
- .8 On sidelights or windows exceeding 3 m (9'-10") in width, installed in stud partitions, channel extensions shall be provided from the top of the frame assembly to the underside of the structure above. Extensions shall be fabricated from 2.36 mm (0.093") (12 gauge) steel formed channels, mounting angles and adjusting brackets, with mounting angles welded to the inside of frame head. Formed channels, adjusting brackets and fasteners shall be shipped loose. Channels shall be mechanically connected to mounting angles and adjusting brackets with supplied fasteners, on site, by contractor responsible for installation.

2.9 Sizes and Tolerances

- .1 Widths of door openings shall be measured from inside of frame jamb rabbet with a tolerance of ± 1.6 mm (± 0.063 ").
- .2 Heights of door openings shall be measured from the finished floor (exclusive of floor coverings) to the head rabbet of the frame with a tolerance of ± 1.2 mm (± 0.047 ").
- .3 Unless finishing hardware dictates otherwise, doors shall be sized so as to fit the above openings and allow a 3 mm (1/8") clearance at jambs and head. A clearance of 19 mm (3/4") between the bottom of the door and the finished floor (exclusive of floor coverings) shall be provided. Tolerances on door sizes shall be ± 1.2 mm (± 0.047 ").
- .4 Manufacturing tolerances on formed frame profiles shall be ± 0.8 mm (± 0.031 ") for faces, door stop heights and jamb depths. Tolerances for throat openings and door rabbets shall be ± 1.6 mm (± 0.063 ") and ± 0.4 mm (± 0.016 ") respectively. Hardware cut-out dimensions shall be as per template dimensions, ± 0.4 mm (± 0.015 ").

2.10 Hardware Locations

- .1 Hardware preparations in frame product shall be as noted below and locations on doors shall be adjusted for clearances specified under "Sizes and Tolerances" heading in Section 08 11 13.
- .2 Top of upper hinge preparation for 114.3 mm (4.5") hinges shall be located 180 mm (7.5") down from head, transom mullion or panel as appropriate. The top of the bottom hinge preparation for 114.3 mm (4.5") hinges shall be located 310 mm (12.625") from finished floor as defined under "Sizes and Tolerances" heading in Section 08 11 13. Intermediate hinge preparations shall be spaced equally between top and bottom cutouts.
- .3 Strike preparations for unit, integral, cylindrical and mortise locks and roller latches shall be centered 1033 mm (40-5/16") from finished floor. Strikes for deadlocks shall be centered at 1220 mm (48") from finished floor. Strikes for panic or fire exit hardware shall be located as per device manufacturer's templates.
- .4 Push and/or pulls on doors shall be centered 1070 mm (42") from finished floor.
- .5 Preparations not noted above shall be as per hardware manufacturer's templates.
- .6 Hardware preparation tolerances shall comply with the ANSI A115 standards.

Steel Doors and Frames

Section reissued by Addendum

PART 3 - EXECUTION

3.1 Examination

- .1 Provide necessary grounds, bracing and strapping for fitting and adequate for securing of the work.
- .2 Cooperate with work of other sections to ensure fastenings set by others are provided and located, their work is installed to their specifications and that those responsible for back priming are notified in sufficient time for them to schedule work.

3.2 Installation - Steel Doors and Frames

- .1 Set frame product plumb, square, aligned, without twist at correct elevation in accordance with NAAMM-HMMA 840-17, maintaining clearances and hardware locations specified in Section 08 11 13.
- .2 Fire labelled product shall be installed in accordance with NFPA 80-2013.
- .3 Frame product installation tolerances:
 - .1 Plumbness tolerance, measured through a line from the intersecting corner of vertical members and the head to the floor, shall be ± 1.6 mm ($\pm 1/16$ ").
 - .2 Squareness tolerance, measured through a line 90° from one jamb at the upper corner of the product, to the opposite jamb, shall be ± 1.6 mm ($\pm 1/16$ ").
 - .3 Alignment tolerance, measured on jambs, through a horizontal line parallel to the plane of the wall, shall be ± 1.6 mm ($\pm 1/16$ ").
 - .4 Twist tolerance, measured at face corners of jambs, on parallel lines perpendicular to the plane of the wall, shall be ± 1.6 mm ($\pm 1/16$ ").
- .4 Brace frame product rigidly in position while building-in. Remove temporary steel shipping jamb spreaders. Install temporary wood spreaders at mid-point of frame rabbet height to maintain frame widths. Remove wood spreaders after product has been built-in.
- .5 Provide vertical support at center of head for openings exceeding 1250 mm (48") in width.
- .6 Secure anchorages and connections to adjacent construction.
- .7 Adjust operable parts for correct clearances and function.
- .8 Steel surfaces shall be kept free of grout, tar or other bonding materials or sealers.
- .9 Remove grout or other bonding material from products immediately following installation.
- .10 Provide appropriate anchorage for floor and wall construction. Each wall anchor shall be located immediately above or below each hinge reinforcement on the hinge jamb and directly opposite the strike jamb. On each jamb, install 2 anchors for openings up to and including 1525 mm (60") high and install 1 anchor for each additional height of 760 mm (30") of height or fraction thereof, except as indicated below. Frames placed in previously placed concrete, masonry or structural steel shall be provided with anchors located not more than 150 mm (6") from top and bottom of each jamb, and intermediate anchors at 660 mm (26") on centre maximum.
- .11 Secure frames set in previously constructed concrete or masonry openings by countersunk expansion bolts at same centres as for adjustable Tee wall anchors. Reinforce frame at fastening location to prevent indentation of frame by fastening device.

Steel Doors and Frames

Section reissued by Addendum

- .12 Fill and grind smooth "punch and dimpled" frame installations.
- .13 Prior to site touch-up, exposed surfaces of galvanized steel to be finished shall be cleaned to remove foreign matter. Refer to paint manufacturers recommendations for additional information and requirements of Section 09 91 00.
- .14 Touch-up exposed field welds shall be finished to present a smooth uniform surface and with a rust inhibitive primer.
- .15 Touch-up exposed surfaces that have been scratched or otherwise marred during shipment, installation, and handling shall be with a rust inhibitive primer.
- .16 Finish paint in accordance with Section 09 91 00.
- .17 Install door silencers.
- .18 Properly fasten units and secure in place with concealed fixings wherever possible. Include grounds and furring where required.
- .19 Make allowance for deflection to ensure structural loads are not transmitted to frames.
- .20 Adjust operable parts for correct clearances and function.

3.3 Installation - Finishing Hardware

- .1 Install finishing hardware in accordance with ANSI A115.1G-1994, manufacturers' templates and instructions, and Section 08 71 00.

3.4 Adjusting and Cleaning

- .1 Adjust doors to swing freely, smoothly and easily, to remain stationary at any point, to close evenly and tightly against stops without binding, and to latch positively when doors are closed with moderate force.
- .2 Adjust hardware so that latches and locks operate smoothly and without binding, and closers act positively with the least possible resistance in use. Lubricate hardware if required by *Supplier's* requirements.
- .3 Adjust doors equipped with closers to close doors firmly against anticipated wind and building air pressure, and to enable doors to be readily opened as suitable for function, location, and traffic.
- .4 Clean hardware after installation in accordance with *Supplier's* requirements.

END OF SECTION

Interior Aluminum Screen Frames

Section reissued by Addendum

PART 1 - GENERAL

1.1 Summary

- .1 Section includes:
 - .1 Interior aluminum framing system.

1.2 Administrative Requirements

- .1 Conduct a pre-installation meeting in accordance with Section 01 31 19.

1.3 Submittals

- .1 Submit required submittals in accordance with Section 01 33 00.
- .2 *Product* data sheets:
 - .1 Submit manufacturer's *Product* data sheets for *Products* proposed for use in the work of this section.
- .3 Shop drawings:
 - .1 Clearly indicate fabrication details, plans, elevations, hardware, and installation details.
- .4 Samples:
 - .1 Partition sample to show basic construction, glazed sections, door frames, trim, and finishes.

1.4 Closeout Submittals

- .1 Submit closeout submittals in accordance with Section 01 78 00.
- .2 Operation and maintenance data:
 - .1 Submit operation and maintenance data for incorporation into maintenance manual.
- .3 Maintenance materials:
 - .1 Submit 3 extra surface applied mullion pieces and other components for each colour, pattern, and finish specified.

1.5 Quality Assurance

- .1 Qualifications:
 - .1 Execute the work of this section using workers skilled in the respective duties for which they are employed, and with minimum 3 years' experience in application of *Products*, systems, and assemblies specified.

PART 2 - PRODUCTS

2.1 Performance/Design Requirements

- .1 Design system to accommodate glass and glazing as specified or indicated.

Interior Aluminum Screen Frames

Section reissued by Addendum

2.2 Manufacturers/Products

- .1 Interior aluminum screen frames:
 - .1 Traditional profile: 102 mm (4").
 - .2 Surface applied mullions.
 - .3 Widths: as indicated.
 - .4 Acceptable *Product*:
 - .1 Partition Components Incorporated 'PC350 Elite Single Glass'.
 - .2 Substitutions in accordance with Section 01 25 00.
- .2 Glass and glazing: in accordance with Section 08 80 00.

2.3 Materials

- .1 Extruded aluminum: Controlled alloy billets of 6063 T5, to assure compliance with tight dimensional tolerances and maintain colour uniformity.

2.4 Finishes

- .1 Exposed aluminum surfaces:
 - .1 Colour anodized to AAMA 611-24, designation AA-M12C22A44.
 - .1 Black.

2.5 Fabrication

- .1 Pre-machine jambs and prepare for hardware, with concealed reinforcement plates, drilled and tapped as required and fastened within frame with concealed screws.
- .2 Fabricate components to allow secure installation without exposed fasteners.

PART 3 - EXECUTION

3.1 Installation

- .1 Provide manufacturer's information and templates required for installation of work of this section, and assist or supervise, or both, the setting of anchorage devices, and construction of other work incorporated with products specified in this section in order that they function as intended.
- .2 Install work in accordance with manufacturers' requirements and recommendations, true, tightly fitted, and level or flush to adjacent surfaces, as suitable for installation. Adjust components to allow for irregularities in adjacent construction and relate accurately to finished ceiling and floor coverings.
- .3 Install frames plumb and square, securely anchored to substrates with fasteners recommended by frame manufacturer.
- .4 Use concealed installation clips to assure that splices and connections are tightly butted and properly aligned.
- .5 Secure clips to main structural components and not to snap-in or trim members.

Interior Aluminum Screen Frames

Section reissued by Addendum

- .6 Do not use screws or other fasteners that will be exposed to view when installation is complete.
- .7 Fit joints and junction between components tightly and in true planes, conceal joints where possible.

3.2 Field Quality Control

- .1 Conduct quality control in accordance with Section 01 45 00.
- .2 Manufacturer's field review to be in accordance with Section 01 45 00.

3.3 Adjusting and Cleaning

- .1 Verify under work of this section that installed products function properly, and adjust them accordingly to ensure satisfactory operation.
- .2 Refinish damaged or defective *Work* so that no variation in surface appearance is discernible.

END OF SECTION

Glass and Glazing

Section reissued by Addendum

PART 1 - GENERAL

1.1 Summary

- .1 Section includes:
 - .1 Glass and glazing.

1.2 Administrative Requirements

- .1 Conduct a pre-installation meeting in accordance with Section 01 31 19.

1.3 Submittals

- .1 Submit required submittals in accordance with Section 01 33 00.
- .2 *Product* data sheets:
 - .1 Submit manufacturer's *Product* data sheets for *Products* proposed for use in the work of this section.
- .3 Shop drawings:
 - .1 Show details of each type of glazing system in conjunction with the framing system indicating type of glass, sizes, shapes, glazing material and quantity. Show details indicating glazing material, glazing thickness, bite on the glass and glass edge clearance.
- .4 Samples:
 - .1 Submit minimum 305 mm (12") square samples of each type of glass indicated or scheduled.
 - .1 Submit 3 control samples for each glass type showing maximum range of visible difference between units.
 - .2 Submit samples of glass showing each type of shape and finish of glass edge for exposed glass edges.
 - .2 Submit 305 mm (12") long samples for each type of sealant or gasket exposed to view and for each color required, except black.
- .5 Test and evaluation reports:
 - .1 Obtain compatibility and adhesion test reports from sealant manufacturer indicating that glazing materials were tested for compatibility and adhesion with glazing sealant as well as other glazing materials including insulating units.
- .6 Submit sample glazing warranty.

1.4 Closeout Submittals

- .1 Submit closeout submittals in accordance with Section 01 78 00.
- .2 Operation and maintenance data:
 - .1 Submit maintenance and cleaning instructions for glass and glazing for incorporation into the operating and maintenance manuals.

Glass and Glazing

Section reissued by Addendum

1.5 Quality Assurance

.1 Qualifications:

- .1 Execute the work of this section using workers skilled in the respective duties for which they are employed, and with minimum 5 years' experience in application of *Products*, systems, and assemblies specified.
- .2 Manufacturers: manufacturers shall have a minimum of 10 years of fabrication experience.

1.6 Warranty

.1 Warrant work of this section in accordance with Section 01 78 36.

.2 Extended warranty:

.1 General extended warranty:

- .1 Labour, materials, and workmanship for work of this section.
- .2 Duration: 2 years.

.2 Special product warranty for tempered glass products:

- .1 Warrant that tempered glass will not break spontaneously as a result of Nickel Sulfide (NiS) inclusions at a rate exceeding 0.8% (8/1000) for a period of five years from the date of manufacture. Warranty shall be manufacturer's standard form in which tempered-glass manufacturer agrees to replace tempered-glass units.
- .2 Duration: 5 years from date of manufacture for fully tempered glass.

PART 2 - PRODUCTS

2.1 Performance/Design Requirements

.1 General:

- .1 Publications: Comply with recommendations in the publications below, except where more stringent requirements are specified or indicated. Refer to these publications for glazing terms not otherwise defined in this section.
 - .1 NGA's GANA Glazing Manual.
 - .2 NGA Engineering Standards Manual.
 - .3 NGA Laminated Glazing Reference Manual.
 - .4 GANA Sealant Manual.

.2 Regulatory requirements:

.1 Fire rated glass:

- .1 Each lite shall bear permanent, non-removable label by accredited and recognized independent testing agency certifying it for use in tested and rated fire protective assemblies.

.3 Glass strength:

Glass and Glazing

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- .1 Design glass in conformance with the building code and under conditions indicated determined in accordance with ASTM E1300-16 and the following requirements:
 - .1 Minimum thickness of annealed or heat-treated glass products to be selected so the worst case probability of failure does not exceed the following:
 - .1 8 breaks per 1000 for glass installed vertically less than 15 degrees from the vertical plane and under wind action.
 - .2 Glass at guards, balustrades, and where glass is likely to be subjected to human impact shall comply with safety glass requirements of CAN/CGSB 12.20-M89 and CAN/CGSB 12.1-2017, DIN EN 14179-1:2005, where applicable, and building code.
 - .3 Provide annealed, heat strengthened, and tempered lights where required by the building code, and where required for the various solar exposures on the building.
 - .4 Glass thicknesses and glass types specified, indicated, or scheduled in the *Contract Documents* are minimums required. Modify glass thickness as required to satisfy design and building code requirements, and requirements of authorities having jurisdiction, and any such modifications shall be clearly indicated on shop drawings.
- .4 Provide glass *Products* of uniform appearance, reflectivity, hue, shade, visible light transmittance, and colour when viewed from distance of 3 m (10 ft) to 30 m (100 ft) perpendicular to the glass or from 45 degree angle to the glass.

2.2 Glass Manufacturers

- .1 Subject to compliance with the requirements of the *Contract Documents*, provide primary glass by one of the following float glass manufacturers:
 - .1 Cardinal Glass Industries.
 - .2 Guardian Industries, LLC.
 - .3 Pilkington North America.
 - .4 Vitro Architectural Glass.

2.3 Glass Materials

- .1 General:
 - .1 Single source responsibility:
 - .1 Coated glass and tinted glass; for each type and condition required:
 - .1 Provide primary glass obtained from a single source and plant.
 - .2 Provide coating obtained from single source.
 - .2 Provide each type of glazing accessory from a single manufacturer or fabricator and from a single production run.
- .2 Annealed (float) glass:
 - .1 Clear, annealed glass, 6 mm (1/4") thick minimum, in accordance with CAN/CGSB 12.3-M91, Glazing Quality.
- .3 Heat treated (tempered or heat strengthened) float glass; GL1 and GL2:

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- .1 In accordance with CAN/CGSB 12.1-2017.
- .2 Minimum thickness: 6 mm (1/4").
- .3 Fabrication process: By horizontal (roller-hearth) process with roller-wave distortion parallel to bottom edge of glass as installed unless otherwise indicated.
- .4 For uncoated glass, comply with requirements for Condition A in accordance with ASTM C1048-25.
- .5 For coated vision glass, comply with requirements for Condition C (other coated glass) in accordance with ASTM C1048-25.
- .6 Heat strengthened glass shall have surface compression of 24-52 MPa (3,500-7,500 psi).

2.4 Fire-Rated Glass

- .1 Fire-protective rated, impact safety resistant glass, non-wired; ~~GL2~~ GL3:
 - .1 In accordance with CAN/ULC-S104-15/CAN/ULC-S106-15, CPSC 16 CFR 1201 (Cat. I and II).
 - .2 Film faced and non-film faced glazing:
 - .1 Fire-protective-rated and impact safety-rated, transparent glazing material and listed for use in doors, sidelites, transoms, and borrowed lites in both interior and exterior applications, not functioning as a barrier.
 - .2 Surface finish:
 - .1 Premium Grade: transparent glass, polished for superior optical clarity.
 - .3 Acceptable *Product*:
 - .1 Safti First 'SuperLite II-XL'.
 - .2 Saint Gobain 'Keralite Select F'.
 - .3 Schott 'Pyran Platinum F'.
 - .4 Technical Glass Products 'FireLite NT'.

2.5 Glazing Materials (Non-Fire Rated)

- .1 Glazing materials; general: Select glazing sealants, tapes, gaskets and additional glazing materials of proven compatibility with other materials they will contact, including glass products, seals of insulating glass units and glazing channel substrates, under conditions of installation and service, as demonstrated by testing and field experience.
- .2 Glazing gaskets: Moulded or extruded gaskets of profile and hardness required to maintain watertight seal, made from one of the following:
 - .1 At silicone glazing: preformed silicone to ASTM C1115-17(2022).
- .3 Setting blocks: Moulded or extruded material with Shore, Type A Durometer hardness of 85, plus or minus 5, made from one of the following:
 - .1 At silicone glazing: preformed silicone to ASTM C1115-17(2022).

Glass and Glazing

Section reissued by Addendum

- .4 Spacers: Moulded or extruded blocks or continuous extrusions of hardness required by glass manufacturer to maintain glass lites in place for installation indicated made from one of the following:
 - .1 At silicone glazing: preformed silicone to ASTM C1115-17(2022).
- .5 Edge blocks: Moulded or extruded material of hardness needed to limit glass lateral movement (side walking) made from one of the following:
 - .1 At silicone glazing: preformed silicone to ASTM C1115-17(2022).
- .6 Cleaners, primers and sealers: Type recommended by sealant or gasket manufacturer.
- .7 Polyurethane foam glazing tape:
 - .1 High density, closed-cell, flexible, non-extruding tape, adhesive backed one side only; recommended by manufacturer for exterior applications with nominal pressure in glazing channel.
 - .2 Acceptable *Products*: As recommended by manufacturer suitable for conditions of application and use.
- .8 Butt joint glazing sealant:
 - .1 Medium-modulus, neutral-curing silicone sealant; complying with ASTM C920-18, Type S, Grade NS, Application G, Class 25.
 - .2 Colour: as selected by *Consultant* from full colour range.
 - .3 Acceptable *Products*:
 - .1 DOWSIL '999-A'.
 - .2 Momentive 'SCS1200'.
 - .3 Pecora '860'.
 - .4 Tremco 'Proglaze'.

2.6 Glazing Materials (Fire Rated)

- .1 Glazing tape; fire-rated glass (non-wired):
 - .1 Closed cell polyvinyl chloride (PVC) foam, coiled on release paper over adhesive on two sides, maximum water absorption by volume of 2 percent, designed for compression of 25 percent to effect an air and vapour seal.
- .2 Silicone sealant: One-part neutral curing silicone, medium modulus sealant, to ASTM C920-18, Type S; Grade NS; Class 25 with additional movement capability of 50 percent in both extension and compression (total 100 percent); Use (Exposure) NT; Uses (Substrates) G, A, and O as applicable.
 - .1 Acceptable *Products*:
 - .1 DOWSIL '795'.
 - .2 Momentive 'Silglaze-II 2800'.
 - .3 Tremco 'Spectrem 2'.

Glass and Glazing

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- .3 Setting blocks: Neoprene or other resilient blocks of 40 to 50 Shore A durometer hardness, adhesive-backed on one face only, tested for compatibility with specified glazing compound.
- .4 Cleaners, primers, and sealers: Type recommended by manufacturer of glass and gaskets.

2.7 Fabrication of Glazing Units

- .1 Fabricate glazing units in sizes required to fit openings, with edge and face clearances, edge and surface conditions, and bite complying with written instructions of product manufacturer and referenced glazing publications, to comply with system performance requirements.
 - .1 Allow for thermal movements from ambient and surface temperature changes acting on glass framing members and glazing components.
- .2 Clean-cut or flat-grind vertical edges of butt-glazed monolithic lites to produce square edges with slight chamfers at junctions of edges and faces.
- .3 Grind smooth and chamfer, and polish exposed glass edges and corners, unless otherwise indicated.

PART 3 - EXECUTION

3.1 Examination

- .1 Examine framing, glazing channels, and stops, with glazing installer present, for compliance with the following:
 - .1 Manufacturing and installation tolerances, including those for size, squareness, and offsets at corners.
 - .2 Inspect butt and mitre joints in framing. Seal joints found to be open with a compatible sealant prior to glazing.
 - .3 Glazing pockets and surfaces are free of dust, construction debris, and contaminants.
 - .4 Presence and functioning of weep systems.
 - .5 Minimum required face and edge clearances in accordance with FGIA and NGA/GANA standards.
 - .6 Effective sealing between joints of glass-framing members.
- .2 Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 Preparation

- .1 Clean glazing channels and other framing members receiving glass immediately before glazing. Remove coatings not firmly bonded to substrates.
- .2 Examine glazing units to locate exterior and interior surfaces. Label or mark units as needed so that exterior and interior surfaces are readily identifiable. Do not use materials that will leave visible marks in the completed work.

Glass and Glazing

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- .3 Clean contact surfaces with solvent and apply primers to surfaces to receive tapes and sealants in accordance with the manufacturer's requirements. Ensure surfaces are free of moisture and frost.

3.3 Glazing - General

- .1 Comply with combined written requirements of manufacturers of glass, sealants, gaskets, and other glazing materials, unless more stringent requirements are indicated, including those in referenced glazing publications.
- .2 Adjust glazing channel dimensions as required by conditions during installation to provide necessary bite on glass, minimum edge and face clearances, and adequate sealant thicknesses, with reasonable tolerances.
- .3 Protect glass edges from damage during handling and installation. Remove damaged glass from *Project* site and legally dispose of off *Project* site. Damaged glass is glass with edge damage or other imperfections that, when installed, could weaken glass and impair performance and appearance.
- .4 Clean glazing rebate surfaces of traces of dirt, dust, or other contaminants.
- .5 Apply primers to joint surfaces where required for adhesion of sealants, as determined by preconstruction testing.
- .6 Install setting blocks in sill rabbets, sized and located to comply with referenced glazing publications, unless otherwise required by glass manufacturer. Set blocks in thin course of compatible sealant suitable for heel bead.
- .7 Do not exceed edge pressures stipulated by glass manufacturers for installing glass lites.
- .8 Provide spacers for glass lites where length plus width is greater than 1270 mm (50").
 - .1 Locate spacers directly opposite each other on both inside and outside faces of glass. Install correct size and spacing to preserve required face clearances, unless gaskets and glazing tapes are used that have demonstrated ability to maintain required face clearances and to comply with system performance requirements.
 - .2 Provide 3.2 mm (1/8") minimum bite of spacers on glass and use thickness equal to sealant width.
- .9 Provide edge blocking where indicated or needed to prevent glass lites from moving sideways in glazing channel.
- .10 Set glass lites in each series with uniform pattern, draw, bow, and similar characteristics.
- .11 Set glass lites with proper orientation so that coatings face exterior or interior as specified.
- .12 Glaze hollow metal doors and frames specified under work of Section 08 11 13 using tape glazing installation.
- .13 Install fire rated glazing in accordance with fire rated glazing *Product* manufacturer's written requirements and with current fire-resistance listing for each *Product*. Field cutting or tampering is not permissible.

3.4 Tape Glazing

- .1 Position tapes on fixed stops so that, when compressed by glass, their exposed edges are flush with or protrude slightly above sightline of stops.

Glass and Glazing

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- .2 Install tapes continuously, but not necessarily in one continuous length. Do not stretch tapes to make them fit opening.
- .3 Cover vertical framing joints by applying tapes to heads and sills first and then to jambs. Cover horizontal framing joints by applying tapes to jambs and then to heads and sills.
- .4 Place joints in tapes at corners of opening with adjoining lengths butted together, not lapped. Seal joints in tapes with compatible sealant approved by tape manufacturer.
- .5 Do not remove release paper from tape until right before each glazing unit is installed.
- .6 Centre glass lites in openings on setting blocks and press firmly against tape by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centres of openings.

3.5 Gasket Glazing (Dry)

- .1 Allow gaskets to relax and cut compression gaskets to lengths recommended by gasket manufacturer to fit openings to suit frame dimensions.
- .2 Insert soft compression gasket between glass and frame or fixed stop so it is securely in place with joints miter cut and bonded together at corners.
- .3 Installation with drive-in wedge gaskets: Centre glass lites in openings on setting blocks and press firmly against soft compression gasket by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centres of openings. Compress gaskets to produce a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended by gasket manufacturer.
- .4 Installation with Pressure-Glazing Stops: Centre glass lites in openings on setting blocks and press firmly against soft compression gasket. Install dense compression gaskets and pressure-glazing stops, applying pressure uniformly to compression gaskets. Compress gaskets to produce a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended by gasket manufacturer.
- .5 Install gaskets so they protrude past face of glazing stops.

3.6 Sealant Glazing (Wet)

- .1 Install continuous spacers, or spacers combined with cylindrical sealant backing, between glass lites and glazing stops to maintain glass face clearances and to prevent sealant from extruding into glass channel and blocking weep systems until sealants cure. Secure spacers or spacers and backings in place and in position to control depth of installed sealant relative to edge clearance for optimum sealant performance.
- .2 Force sealants into glazing channels to eliminate voids and to ensure complete wetting or bond of sealant to glass and channel surfaces.

3.7 Adjusting and Cleaning

- .1 Immediately remove sealant and compound droppings from finished surfaces. Remove labels after work is completed.
- .2 Final cleaning of glass in accordance with Section 01 78 00.

Glass and Glazing

Section reissued by Addendum

END OF SECTION

Hygienic Wall Panel System

Section revised by Addendum

PART 1 - GENERAL

1.1 Summary

- .1 Section includes:
 - .1 Hygienic wall panel system (sheet wall protection; WP).

1.2 Administrative Requirements

- .1 Coordination:
 - .1 Coordination of work: coordinate layout, penetrations and installation of work of this section with work of other sections.
- .2 Conduct a pre-installation meeting in accordance with Section 01 31 19.

1.3 Submittals

- .1 Submit required submittals in accordance with Section 01 33 00.
- .2 *Product* data:
 - .1 Submit *Product* data sheets for *Products* proposed for use in the work of this section.
- .3 Shop drawings:
 - .1 Submit shop drawings to show layout, treatment at walls, and other objects. Indicated details of proposed treatment where materials meet other materials.
- .4 Samples:
 - .1 Submit sample panels in triplicate on 305 mm x 305 mm (12"x 12") showing each finish and colour.
 - .2 Submit samples of each accessory type product specified.
 - .3 Identify each sample as to project, finish, colour name, number.

1.4 Closeout Submittals

- .1 Submit closeout submittals in accordance with Section 01 78 00.
- .2 Operation and maintenance data:
 - .1 Submit manufacturer's operation and maintenance instructions for inclusion in the operation and maintenance manuals.

1.5 Quality Assurance

- .1 Qualifications:
 - .1 Execute the work of this section using workers skilled in the respective duties for which they are employed, and with minimum 3 years' experience in application of *Products*, systems, and assemblies specified.
- .2 Mock-ups:

Hygienic Wall Panel System

Section revised by Addendum

- .1 Provide full size panel system mock-up of each panel system, for review and acceptance by *Consultant*. Locate at the *Place of the Work* where directed by the *Consultant*.

1.6 Site Conditions

- .1 Maintain surface and air temperatures between 18°C and 26°C for twenty four (24) hours preceding installation, during installation, and for forty eight (48) hours thereafter.

1.7 Warranty

- .1 Warrant work of this section in accordance with Section 01 78 36.

PART 2 - PRODUCTS

2.1 Performance/Design Requirements

- .1 Flame spread:
 - .1 Maximum values in accordance with CAN/ULC-S102-10:
 - .1 Flame Spread Value (FSV): 15.
 - .2 Smoke Developed Value (SDV): 200.

2.2 Hygienic Panel Wall System

- .1 WP; Description:
 - .1 Hygienic, impact resistant, water-resistant, low VOC, antimicrobial, PVC wall system.
 - .2 Surface: smooth.
 - .3 Antimicrobial: HACCP certified.
 - .4 Impact resistance: in accordance with ASTM D5420-21, exceeds 160 inch lbs.
 - .5 Fungi resistance: zero, in accordance with ASTM G21-15(2021)e1.
 - .6 Mold resistance: 10, in accordance with ASTM D3273-21.
 - .7 Colour: In accordance with Materials Finishes Schedule.
 - .8 Heights:
 - .1 WP1: as indicated.
 - ~~.2 WP2: as indicated.~~
 - ~~.2 WP3: as indicated.~~
 - ~~.3 WP4: as indicated.~~
 - ~~.4 WP5: as indicated.~~
 - .9 Acceptable *Products*:
 - .1 In accordance with Materials Finishes Schedule.
- .2 Installation method: adhesive in accordance with manufacturer's instructions.
- .3 Trims, corners, seams: in accordance with Materials Finishes Schedule.

Hygienic Wall Panel System

Section revised by Addendum

- .4 Welding rod: as recommended by panel manufacturer.
- .5 Sealant: as recommended by panel manufacturer.
- .6 Panel cleaning materials: as recommended by panel manufacturer.

PART 3 - EXECUTION

3.1 Examination

- .1 Verify that specified site conditions exist before commencing the work of this section.
- .2 Examine surfaces to receive wall panel system. Report unsatisfactory conditions immediately to *Consultant*. The work of this section shall not proceed until unsatisfactory conditions have been corrected.
- .3 Substrate surface shall be straight to tolerance of ± 3 mm (± 0.12 ") over 3000 mm (118").
- .4 Ensure that environmental conditions have been provided as requested and specified.
- .5 Defective *Work* resulting from application to unsatisfactory surfaces will be considered the responsibility of those performing the *Work* of this section.

3.2 Preparation

- .1 Store materials for a minimum of 8 hours before installation on a solid flat surface and preconditioned for approximating the operating environment of the finished room.

3.3 Installation - Adhesive Method Application

- .1 Cut and fit sheet as required. Clean back of panel using safe solvent cleaner. Avoid the use of ketones, acetones or any solvents that may cause damage to panel.
- .2 Apply double sided adhesive tape to top and bottom of sheet.
- .3 Apply adhesive tape to window and door openings where sheet has a tendency to pull away from substrate prior to adhesive cure.
- .4 Prime wall on area directly corresponding to tape position using a non-flammable contact adhesive.
- .5 Apply adhesive to back of sheet using trowel as recommended by panel manufacturer.
- .6 Apply sheet to wall and line up any reference marks before pressing into place.
- .7 Use a white rubber mallet for initial contact with adhesive tape.
- .8 Ensure adequate adhesive transfer by thoroughly rolling entire panel surface using a wall roller.
- .9 Allow 3 mm (1/8") gap at ceiling, door and window frames, pipes, and projections to accommodate panel expansion. Seal gaps with sealant.
- .10 Seal transition strip to flash-coved sheet vinyl with silicone sealant. Allow required gap between top of flash-coved flooring and panels to accommodate expansion.
- .11 Maintain at least 100% coverage of direct transfer of adhesive between panels and wall substrate.

Hygienic Wall Panel System

Section revised by Addendum

3.4 Sheet to Sheet Jointing

- .1 Heat welding:
 - .1 Apply double-sided adhesive tape flush to panel edges.
 - .2 Remove burrs from panel edges.
 - .3 Place each successive panel allowing for a 1.5 mm (1/16") gap between each panel.
 - .4 Clean both the seam area and the weld rod with safe solvent cleaner - one that will not attach the vinyl or leave a film.
 - .5 Test weld on a scrap piece of panelling before proceeding.
 - .6 Proceed only when temperature and speed have been satisfied.
 - .7 The weld may be trimmed flush when semi-cooled using the round part of the trimming spatula.

3.5 Jointing Sheet to Coved Vinyl Flooring

- .1 High impact transition strip:
 - .1 The vertical joint strip should finish 9 mm (3/8") short of the bottom sheet.
 - .2 The back of the joint strip must be cut away.
 - .3 The transition strip should then be installed when all the panels have been installed.
 - .4 A bead of clear silicone sealant should then be applied between the flooring material and the bottom edge of the transition strip.
 - .5 Notch the transition strip for the thermoformed internal and external corners.
- .2 Overlapping:
 - .1 Extend the panel down a minimum of 25 mm (1") past the top of the flooring material.
 - .2 Use extra adhesive to fill the gap.
 - .3 Apply a bead of recommended sealant along the bottom edge of the panel.

3.6 Field Quality Control

- .1 Manufacturer's field review to be in accordance with Section 01 45 00.

3.7 Adjusting and Cleaning

- .1 Remove the protective film from the panels, clean panels with an anti-static solution.
- .2 Wash with water or a diluted neutral soap/detergent solution. Do not use materials containing abrasives or solvents.

3.8 Protection

- .1 After materials have set, and until completion, co-ordinate *Work* to ensure that panels are not damaged by traffic or adjacent work.

Hygienic Wall Panel System

Section revised by Addendum

- .2 At completion of panel installation, install protection in areas where finishing *Work*, repairs and installation of equipment will occur.

END OF SECTION

Project Name:	Georgian Bay General Hospital – Minor Works - Pharmacy	Date Issued:	February 4, 2026
Quasar Project #:	HC-24-104		
Client Project #:	24013B		

Distribution		
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Addendum #:	EA-01
Revision #:	0

This Addendum forms part of the Contract Specifications and Drawings, and modifies the Bidding Documents, with Amendments and Additions noted below. This Addendum shall be added to the front of the specifications as issued. Bidders shall acknowledge receipt of this Addendum in the space provided in the Bid Form and include in bid amount.

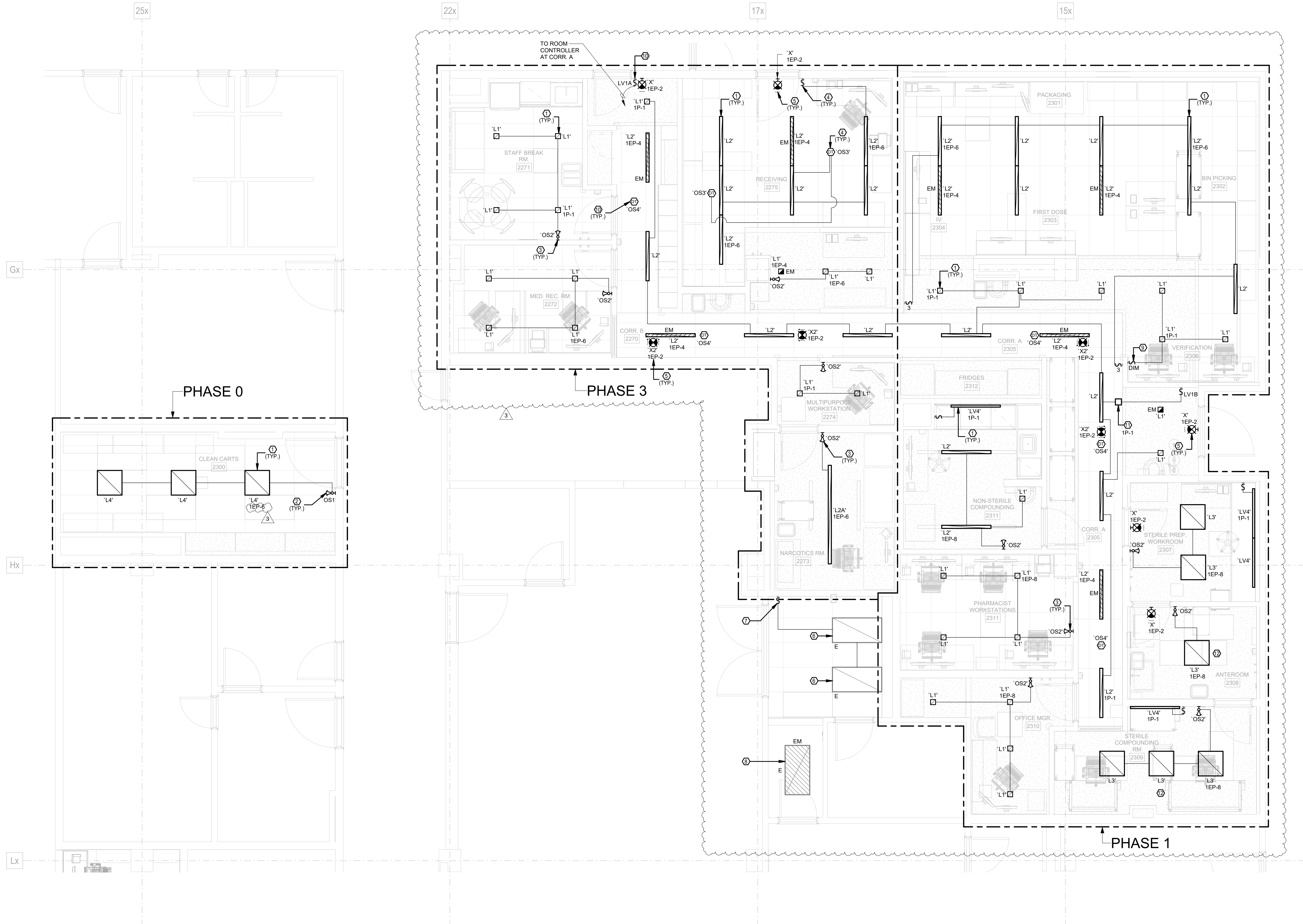
This addendum includes modifications to the drawings as summarized below. Unless otherwise noted, all drawings listed below are attached herewith.

Changes to Drawings:

1. **Drawing E-300: Level 1 – Electrical Lighting Layout – New Work Phase 0, 1 and 3 (Drawing Re-issued)**
 - 1.1. Relabel type 'L5' valance light to type 'LV4'
 - 1.2. Revise exit sign layout.
 - 1.3. Revise Lighting Control requirement.
 - 1.4. Add circuits for lighting fixtures and control.
 - 1.5. Add note 9, 10, 11 and 12.
2. **Drawing E-500: Electrical Details and Schedules (Drawing Re-issued)**
 - 2.1. Revise Luminaire Schedule as shown.
3. **Drawing E-502: Electrical Details (Drawing Re-issued)**
 - 3.1. Lighting Control Schedule, add dimmer switch specification.
 - 3.2. Update Lighting Control wiring diagram #4.
 - 3.3. Add Lighting Control Wiring Diagram #5.

Quasar Consulting Group

Co Tran, P. Eng



- ### DRAWING KEY NOTES
- 1 PROVIDE NEW LIGHT FIXTURE AS PER LUMINAIRE SCHEDULE ON DRAWING E-500.
 - 2 REFER TO LIGHTING CONTROL DETAIL #1 ON DRAWING E-502.
 - 3 REFER TO LIGHTING CONTROL DETAIL #2 ON DRAWING E-502.
 - 4 REFER TO LIGHTING CONTROL DETAIL #3 ON DRAWING E-502.
 - 5 PROVIDE NEW EXIT SIGN C/W ASSOCIATED CONDUIT, WIRING AND CONNECT TO NEAREST EXIT SIGN CIRCUIT.
 - 6 EXISTING 2'x4' LIGHT FIXTURE TO REMAIN. ADJUST CONDUIT, WIRING TO SUIT REVISED LIGHTING LAYOUT AND CONNECT TO NEW LIGHT SWITCH.
 - 7 PROVIDE NEW LIGHT SWITCH AND CONNECT TO EXISTING LIGHT FIXTURES.
 - 8 REWIRE EXISTING LIGHT FIXTURE TO NEAREST EXISTING EMERGENCY LIGHTING CIRCUIT (247).
 - 9 REFER TO LIGHTING CONTROL DETAIL #5 ON DRAWING E-502.
 - 10 REFER TO LIGHTING CONTROL DETAIL #4 ON DRAWING E-502. CONNECT DEVICE TO ROOM CONTROLLER FOR LIGHTING CONTROL OF TYPE L1 AND L2 LIGHT FIXTURES IN CORRIDOR A AND B.
 - 11 DLM DIMMING ROOM CONTROLLER IN ACCESSIBLE CEILING SPACE. REFER TO LIGHTING COTNROL DETAIL #4 ON DRAWING E-502.
 - 12 ALL LIGHTING FIXTURES AND DEVICES INSTALLED IN THIS ROOM SHALL BE GASKETTED AND SEALED TO ACHIEVE AIR-TIGHT ENVIRONMENT.

CLIENT:

GEORGIAN BAY
General Hospital

1112 St Andrews Dr,
Midland, ON
L4R 4P4

CONSULTANT:

QUASAR
CONSULTING GROUP

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Woodbridge, ON L4L 5J7
905-507-0800
www.quasargroup.com

HC-24-104

SEAL:

THE SPECIFICATIONS ARE TO BE CONSIDERED AS AN INTEGRAL PART OF THESE DRAWINGS AND NEITHER THE DRAWINGS NOR THE SPECIFICATIONS SHALL BE USED ALONE. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. DO NOT SCALE.

NO	DESCRIPTION	DATE
3	ELECTRICAL ADDENDUM EA-01	2026-02-04
2	ISSUED FOR PERMIT/TENDER	2025-12-17
1	ISSUED FOR 100% DD	2025-10-14

SHEET REVISION

PROJECT:
PHARMACY
1112 St. Andrews Dr, Midland, ON L4R 4P4

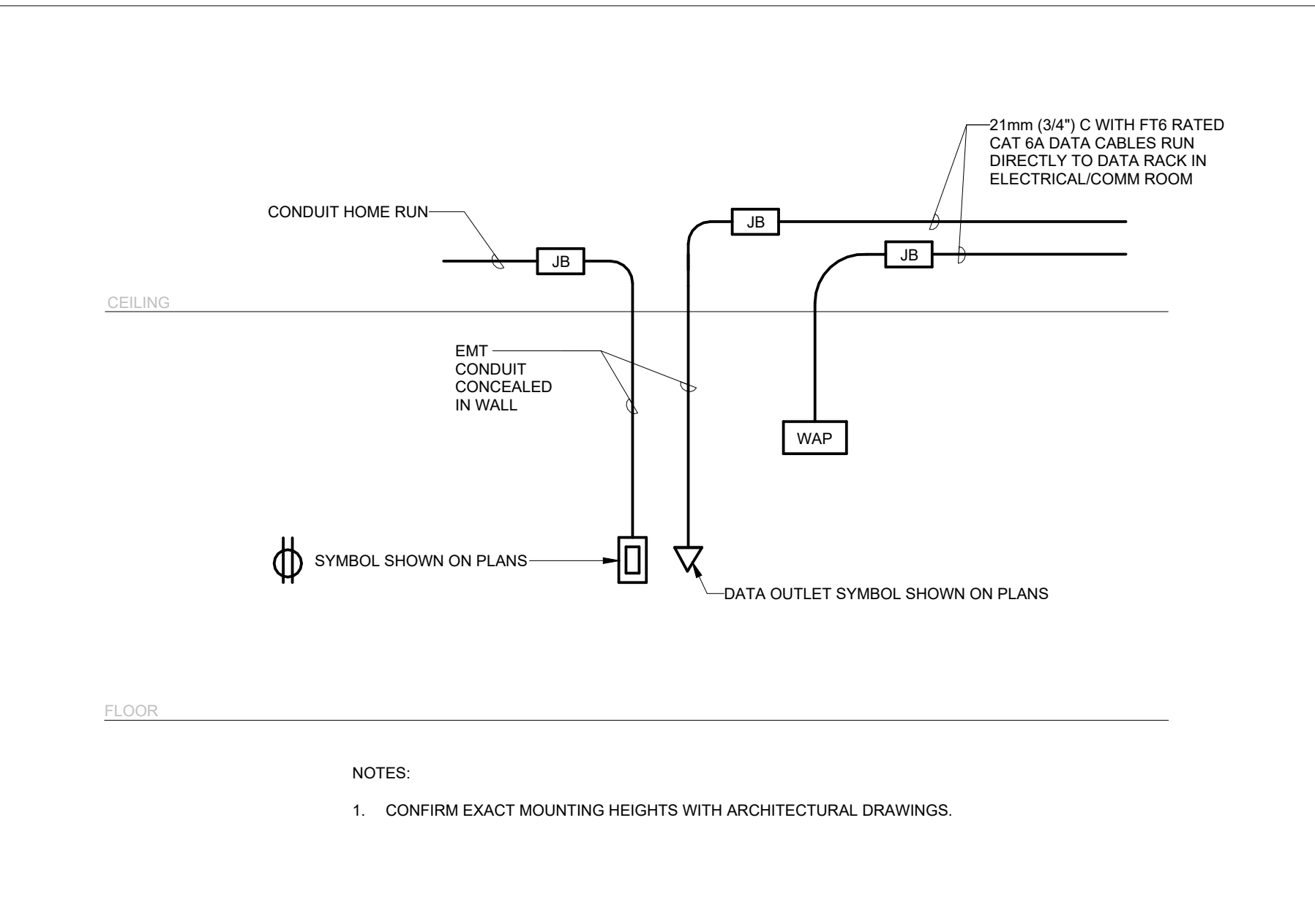
TITLE:
LEVEL 1 - ELECTRICAL LIGHTING LAYOUT
- NEW WORK (PHASE 0, 1 AND 3)

PROJECT NO:
23001A

CHECKED:
C.T.P.Y.

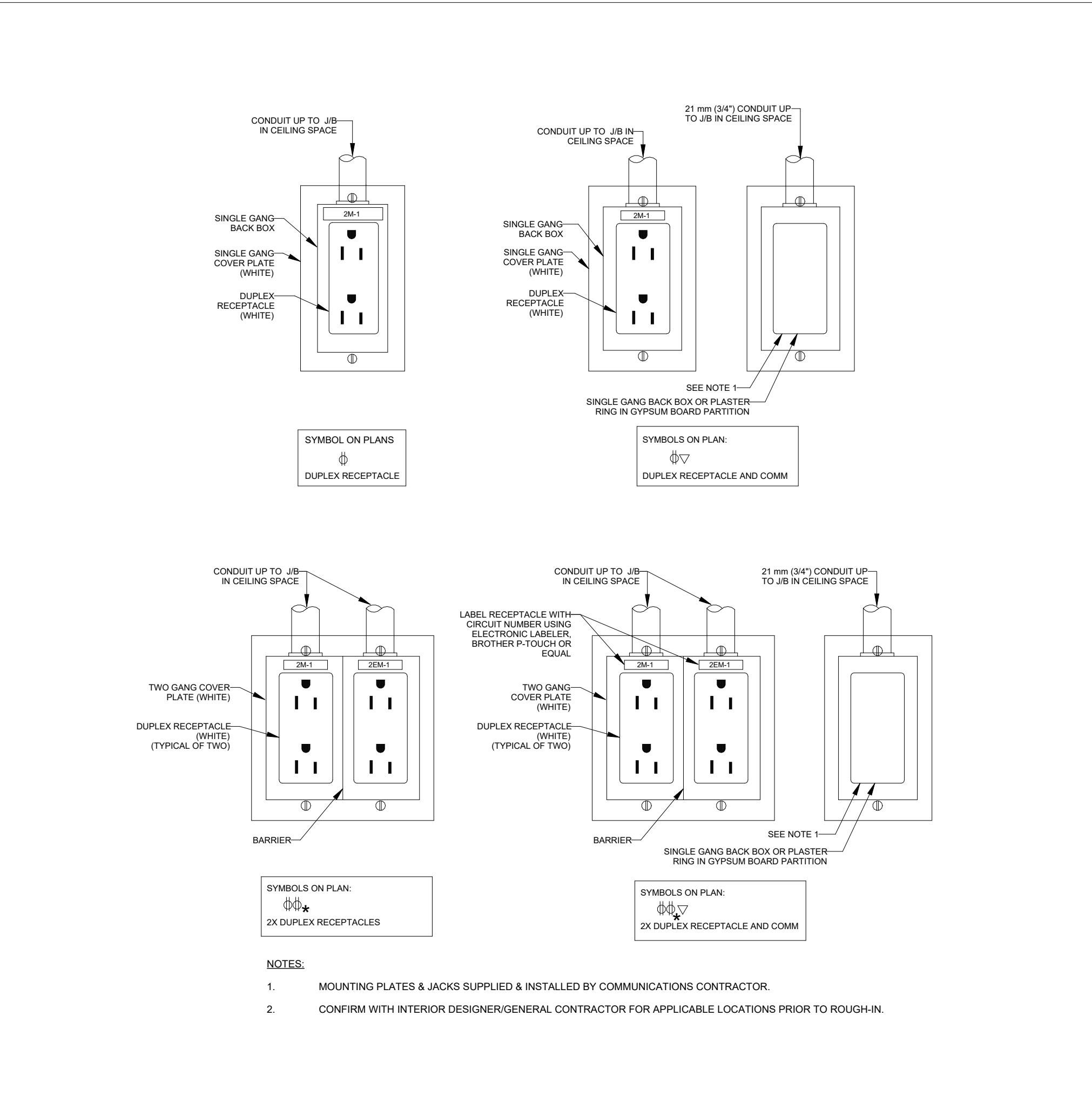
DRAWING NO:
E-300

1 LEVEL 1 - ELECTRICAL LIGHTING LAYOUT - NEW WORK (PHASE 0, 1 AND 3)
SCALE: 1 : 50



TYPICAL WIRING DETAILS

SCALE: N.T.S.



DECORATOR STYLE POWER OUTLETS AND COMM BOXES

SCALE: N.T.S.

LUMINAIRE SCHEDULE			
TYPE	LAMP TYPE	DESCRIPTION	IMAGE
'L1'	20 WATT LED 3500K 90CRI 2000 LUMEN	4" SQUARE LED DOWNLIGHT LUMINAIRE RECESSED IN T-BAR GYPSUM BOARD CEILING WITH NEW CONSTRUCTION HOUSING, COMFORT CLEAR REFLECTOR, WHITE FLANGE TRIM, INTEGRAL 120 VOLT DIMMABLE 0-10V LED DRIVER (1% DIMMING LEVEL) AND MEDIUM BEAM DISTRIBUTION OPTIC. FRAME: LIGHTOLIER #4SN ENGINE/TRIM: LIGHTOLIER #P4S-DL-20-835-M-CC-Z10-U	
'L2'	35.3 WATT LED 3500K 90CRI 1100 LUMEN/FT	4'-0" LONG LINEAR LED LUMINAIRE RECESSED IN T-BAR CEILING WITH FLUSH SHIELDING LENS, WHITE FINISH, 120 VOLT DIMMABLE 0-10V LED DRIVER (1% DIMMING LEVEL) AND SINGLE CIRCUIT. T-BAR TYPE TO BE CONFIRMED DURING SHOP DRAWING APPROVAL. AXIS LIGHTING # BMRLED-1000-90-35-FL-4-W-120-DP-1-TB9	
'L2A'	70 WATT LED 3500K 90CRI 1100 LUMEN/FT	SAME AS TYPE 'L2' EXCEPT 8FT LONG AND C/W DRYWALL FLANGE ADAPTER FOR MOUNTING IN GYPSUM BOARD CEILING. AXIS LIGHTING # BMRLED-1000-90-35-FL-8-W-120-DP-1-DF	
'L3'	50 WATT LED 3500K 90 CRI 5500 LUMEN	2'X2' LED RECESSED PLENUM ACCESS CLEANROOM LUMINAIRE WITH OVERLAPPING DOOR FRAME, 18 GAUGE COLD ROLLED STEEL HOUSING, GASKETTED/SEALED DOOR FRAME AND ACCESS DOOR WITH HINGED CABLES TO HOUSING, 0.125" THICK DIFFUSE SYMMETRIC ACRYLIC LENS, WHITE FINISH, INTEGRAL 120 VOLT DIMMABLE 0-10V LED DRIVER (1% DIMMING LEVEL), GLOSS WHITE ANTIMICROBIAL PAINT, WHITE STAINLESS STEEL DOOR SCREWS, SUITABLE BIOSAFETY BSL1-3 AND CLEANROOM ISO3-8 CERTIFICATION. CONTRACTOR TO PROVIDE FRAME OPENING IN GYPSUM BOARD CEILING FOR MOUNTING OF LUMINAIRE AS PER LIGHTING MANUFACTURE REQUIREMENT. CERTOLUX # CRU0-2X2-A-L-LED-9-35K-55L-UNV-DSA-C21-F47-C77	
'L4'	19/25/31 3CCT (3500K) 80 CRI 2500/3300/4000 LUMENS	2X2 LED SELECTABLE BACKLIT PANEL LUMINAIRE RECESSED IN T-BAR CEILING WITH WHITE STEEL HOUSING AND EXTRUDED ALUMINUM FRAME POST, FLAT OPAL LENS, INTEGRAL 120 VOLT DIMMABLE 0-10V LED DRIVER (5% DIMMING LEVEL), LUMEN SELECT SWITCH, CCT SELECT SWITCH CFI #2SBP2440LB CSP-2-UN3-DIM	
'LV4'	18 W LED 50CCT (3500K) 80 CRI 1500 LUMENS	46" LONG UNDER CABINET/MILLWORK LED STRIP LIGHT C/W EXTRUDED ALUMINUM HOUSING, FROSTED LENS, WHITE FINISH, COLOR TEMPERATURE SELECTALBE, INTEGRAL 120 VOLT DRIVER, MOUNTING CLIPS, 12" FLEXIBLE CONNECTOR, HARDWIRE BOX (HARDWIRED CONNECTION). LITELINE #LED BAR-46 CLIPS #LED BAR-CLIPS-80 FLEXIBLE CONNECTOR #FBT6100-WH-3 HARDWIRE BOX #ALFT6300-WH	
'X'	3 WATT LED	CEILING OR WALL MOUNT SELF POWERED SINGLE FACE LED EDGE-LIT PICTOGRAM EXIT SIGN, ALUMINUM FRAME AND POLYCARBONATE PANELS, UNIVERSAL SIDE, WALL AND CEILING MOUNT, 120 VOLT INPUT. LUMACELL #CM-EDGE-AC/DC-L	
'X2'	3 WATT LED	SAME AS TYPE 'X' EXCEPT C/W DOUBLE FACE.	

- NOTES:
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION, QUANTITY, MOUNTING HEIGHT AND SPECIFIC REQUIREMENT.
 - ALL LUMINAIRE SHALL BE PROVIDED AS SPECIFIED. NO ALTERNATE/SUBSTITUTION IS ALLOWED. THIS CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS FOR REVIEW TO CONSULTANT WITHIN ONE WEEK OF AWARDDING THE PROJECT.

LUMINAIRE SCHEDULE

SCALE: N.T.S.

CLIENT:

GEORGIAN BAY
General Hospital 1112 St Andrews Dr,
Midland, ON
L4R 4P4

CONSULTANT:

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CONSULTING GROUP 250 Rowntree Dairy Rd.
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HC-24-104

SEAL:

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3	ELECTRICAL ADDENDUM EA-01	2026-02-04
2	ISSUED FOR PERMIT/TENDER	2025-12-17
1	ISSUED FOR 100% DD	2025-10-14
NO	DESCRIPTION	DATE

SHEET REVISION

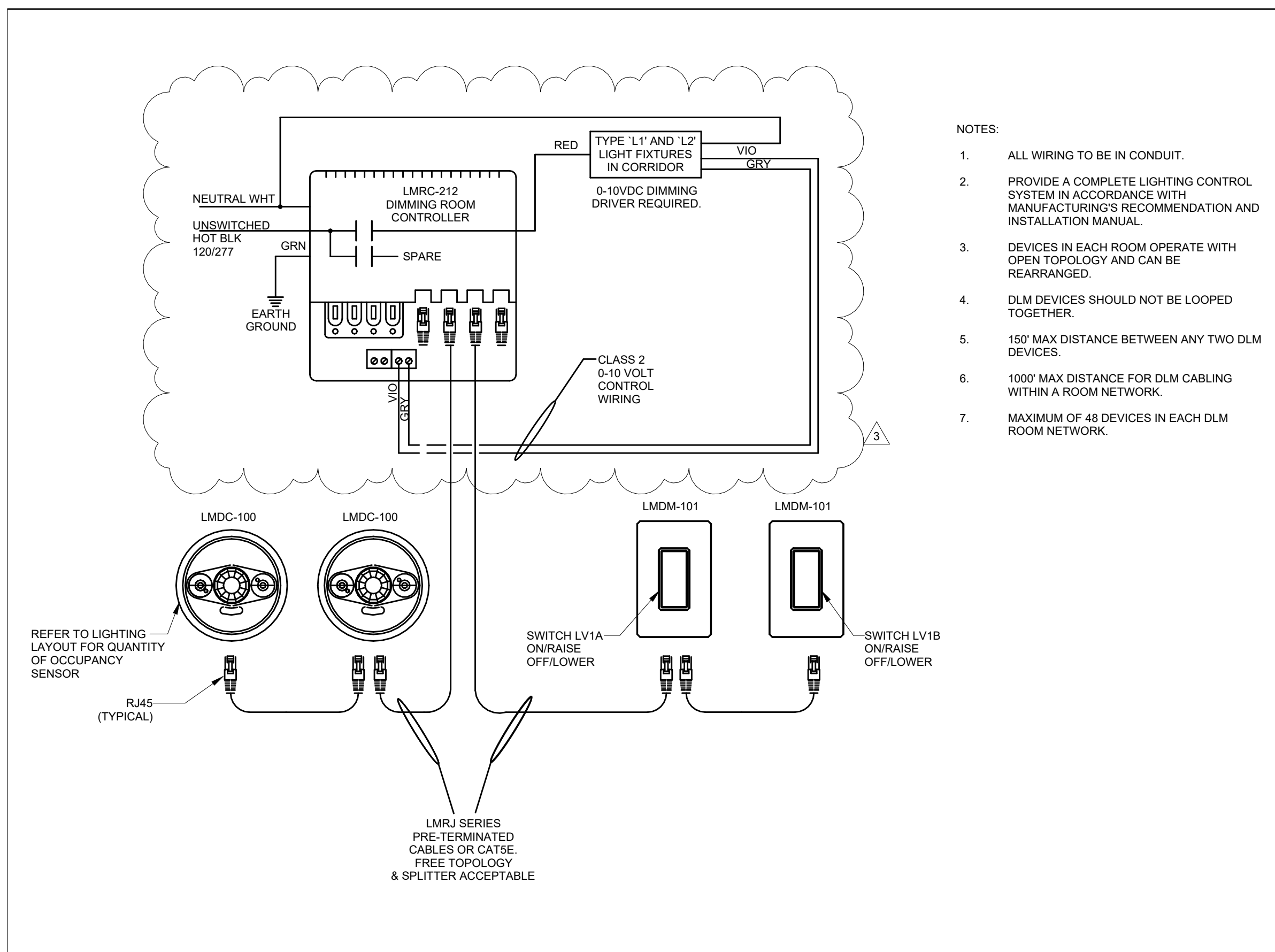
PROJECT:
PHARMACY
1112 St. Andrews Dr, Midland, ON L4R 4P4







TITLE:
ELECTRICAL DETAILS AND SCHEDULES

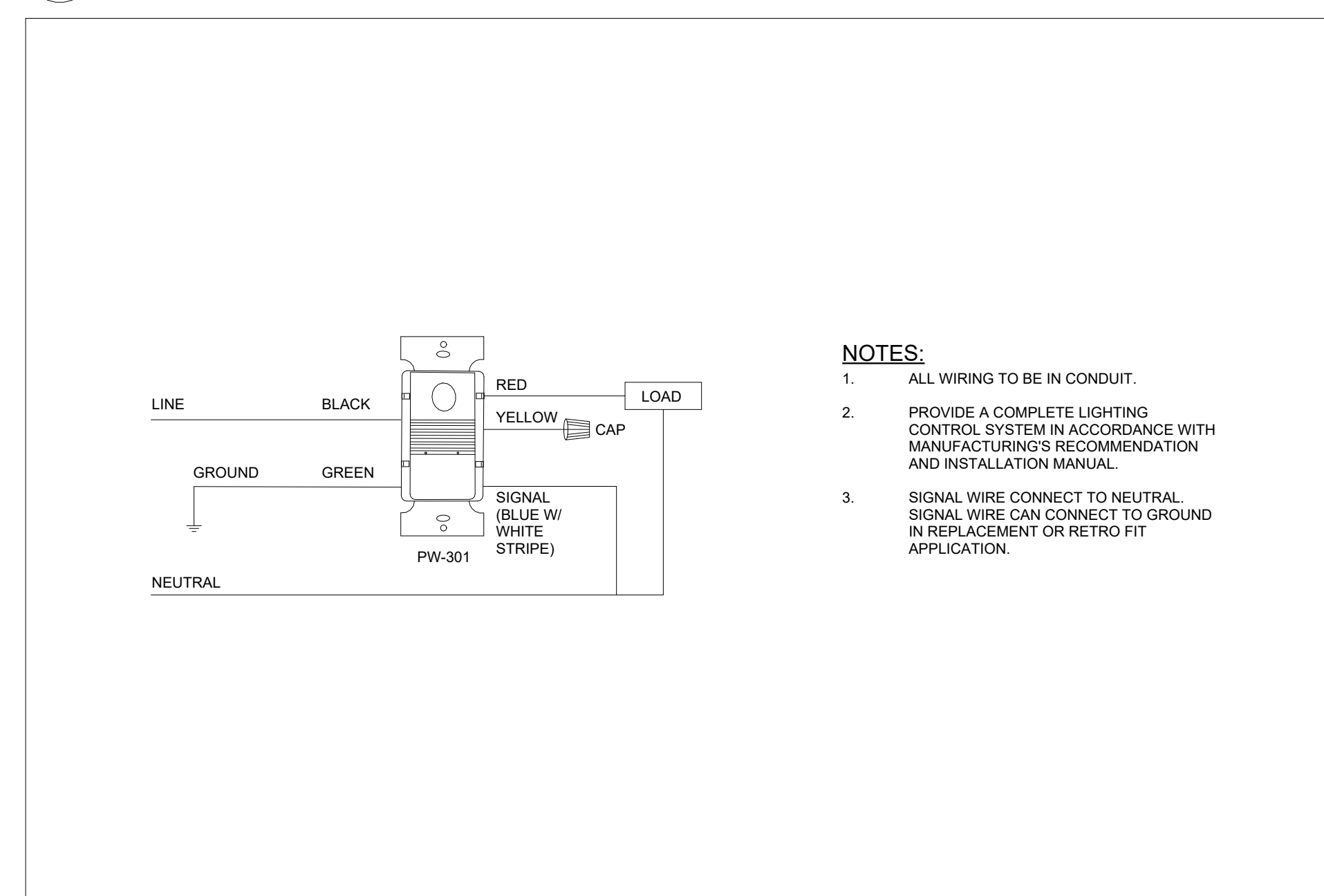
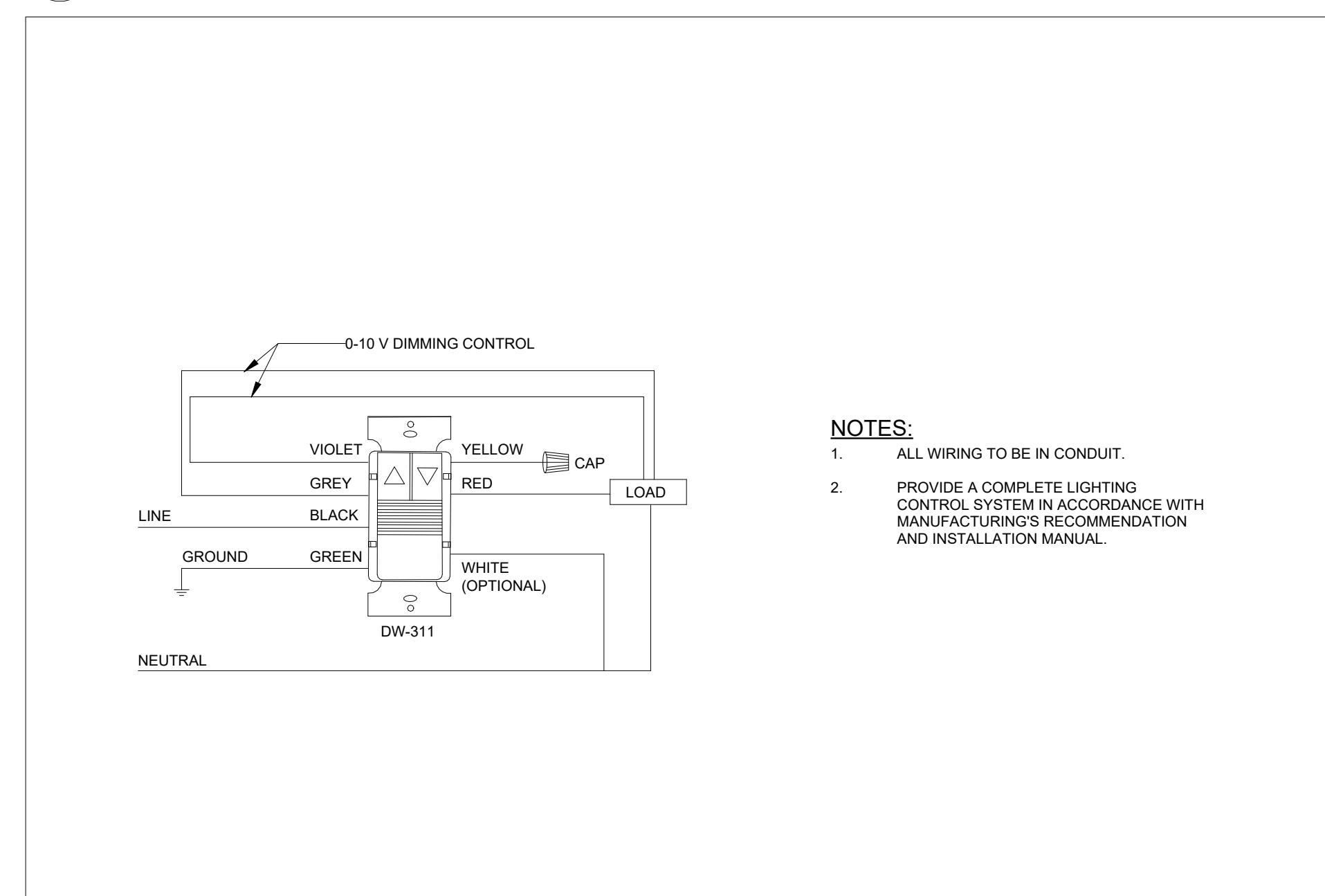
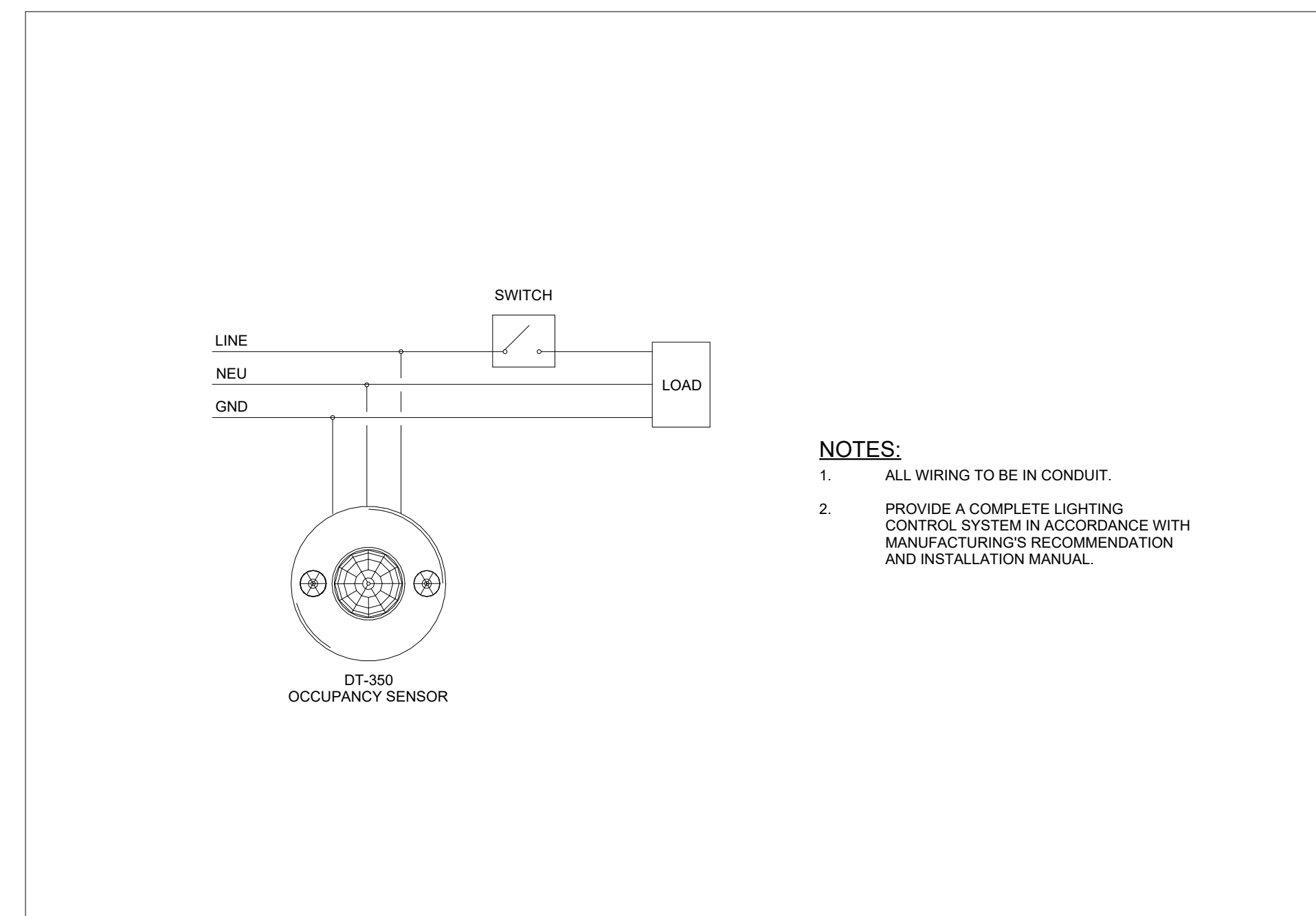
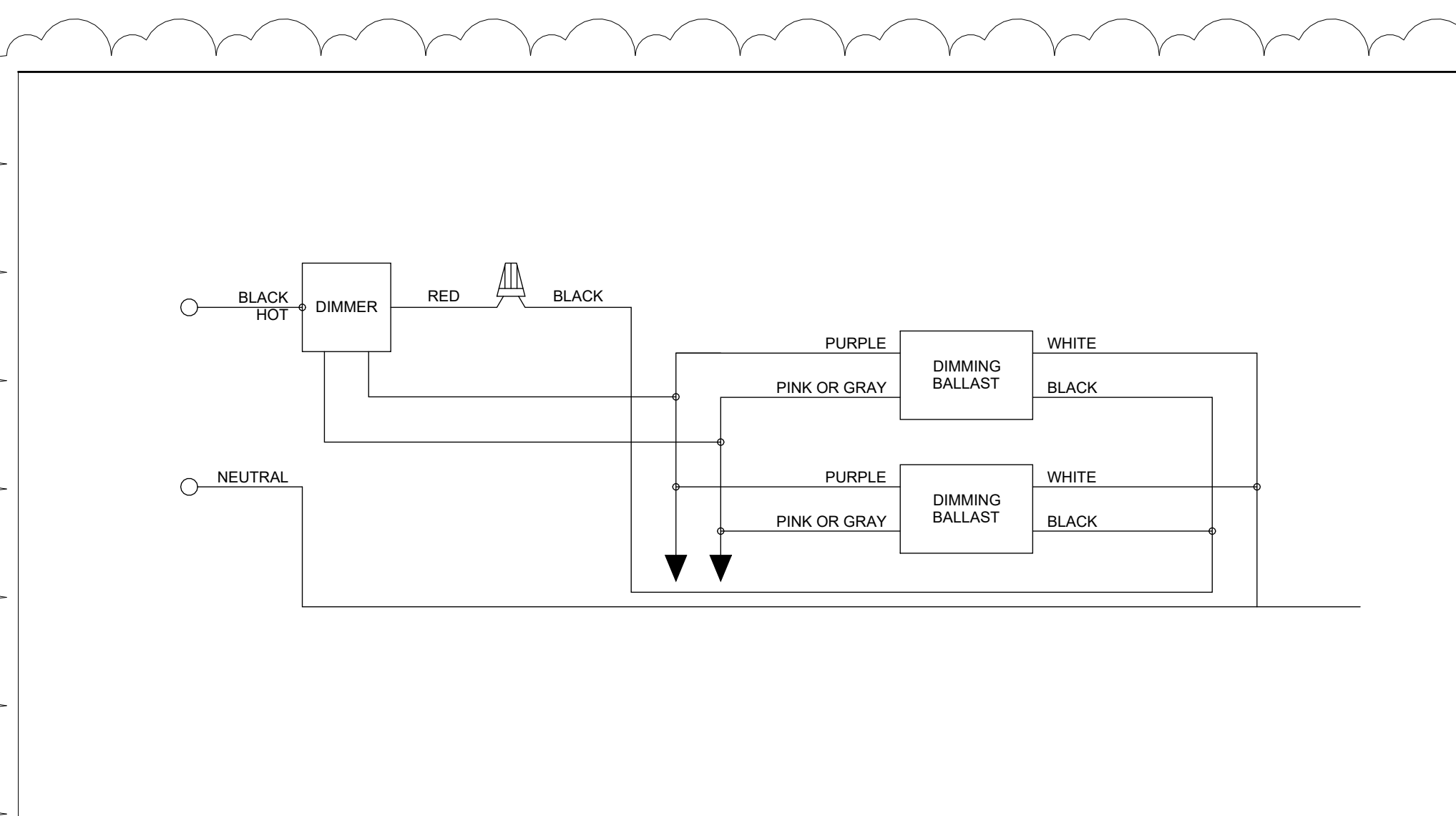
PROJECT NO:
23001A
CHECKED:
C.T.P.Y.

DRAWING NO:

E-500



LIGHTING CONTROL SCHEDULE		
TYPE	DESCRIPTION	IMAGE
OS1	WALL MOUNT LINE VOLTAGE PASSIVE INFRARED OCCUPANCY SENSOR, 120 VAC, WHITE COLOR FINISH. WATTSTOPPER #PW-301-W REFER TO LIGHTING CONTROL WIRING DIAGRAM #1	
OS2	WALL MOUNT LINE VOLTAGE DUAL TECHNOLOGY OCCUPANCY SENSOR, 120VAC, 0-10 VOLT DIMMING, WHITE COLOR FINISH. WATTSTOPPER #DW-311-W REFER TO LIGHTING CONTROL WIRING DIAGRAM #2	
OS3	CEILING MOUNT LINE VOLTAGE DUAL TECHNOLOGY, 120VAC, WHITE COLOR FINISH. WATTSTOPPER #DT-355 REFER TO LIGHTING CONTROL WIRING DIAGRAM #3	
OS4	CEILING MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR, 24VDC INPUT FROM DLM LOCAL NETWORK, WHITE COLOR FINISH. WATTSTOPPER #LMDC-100-W REFER TO LIGHTING CONTROL WIRING DIAGRAM #4	
LV SWX	WALL MOUNT 1 BUTTON WITH LED STATUS INDICATOR, ON/RAISE AND OFF/LOWER FOR EACH LIGHTING ZONE BUTTON, 24VDC INPUT FROM DLM LOCAL NETWORK, WHITE COLOR FINISH. WATTSTOPPER #LMDM-101-W REFER TO LIGHTING CONTROL WIRING DIAGRAM #4	
DIM	WALL MOUNT 0-10V LED DIMMER, WHITE COLOR FINISH. WATTSTOPPER #RH4FBL3PW REFER TO LIGHTING CONTROL WIRING DIAGRAM #5	
NOTES: <ol style="list-style-type: none"> REFER TO LIGHTING PLANS FOR QUANTITY AND LOCATION OF DEVICES. LIGHTING CONTROL SYSTEM SHALL BE INSTALLED IN ACCORDANCE TO MANUFACTURER INSTALLATION MANUALS/INSTRUCTIONS. THIS CONTRACTOR SHALL PROVIDE A COMPLETE LIGHTING CONTROL SYSTEM INCLUDING ALL LIGHTING CONTROL EQUIPMENT/DEVICES, CONDUIT, WIRING, OUTLET/JUNCTION BOXES. ALL POWER AND CONTROL WIRING SHALL BE INSTALLED IN CONDUIT. INCLUDE IN CONTRACT TO RETAIN SERVICE OF WATTSTOPPER REP TO PROVIDE PROGRAMMING, TESTING AND COMMISSIONING OF LIGHTING CONTROL SYSTEMS AND TRAINING OF OWNER'S STAFF FOR OPERATION AND PROGRAMMING OF LIGHTING CONTROL SYSTEM. ALL PROGRAMMING PARAMETERS TO BE CONFIRMED WITH CONSULTANT/OWNER ON SITE. ALL LIGHTING CONTROL EQUIPMENT/DEVICES SHALL BE PROVIDED AS SPECIFIED, NO ALTERNATE/SUBSTITUTION IS ALLOWED. THIS CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS FOR REVIEW TO CONSULTANT WITHIN ONE WEEK OF AWARDING THE PROJECT. 		



3	ELECTRICAL ADDENDUM EA-01	2026-02-04
2	ISSUED FOR PERMIT/TENDER	2025-12-17
1	ISSUED FOR 100% DD	2025-10-14
NO	DESCRIPTION	DATE
SHEET REVISION		

Project Name:	GBGH Pharmacy	Date Issued:	February 4, 2026
Quasar Project #:	HC-24-104		
Client Project #:			

Distribution

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Addendum #: M1**Revision #: 00**

This Addendum forms part of the Contract Specifications and Drawings, and modifies the Bidding Documents, with Amendments and Additions noted below. This Addendum shall be added to the front of the specifications as issued. Bidders shall acknowledge receipt of this Addendum in the space provided in the Bid Form and include in bid amount.

This addendum includes modifications to the [drawings and specifications] as summarized below. Unless otherwise noted, all drawings listed below are attached herewith.

Changes to Drawings:**1. M-251 PLUMBING NEW WORK – LEVEL 1**

1. Revise existing vent stack location as shown.

End of Addendum M1



M-251