Stantec

Addendum

100-401 Wellington Street West
Toronto ON M5V 1E7

EMHAS Relocation and ED Expansion
Guelph General Hospital
Guelph, Ontario

Addendum No:	3
Date:	July 5, 2024

This addendum is to be read with and constitutes part of the tender document.

Instructions:

1. Amend your copy of the tender/quotation/proposal in accordance with the details below
2. Retain one copy for your file; sign and return a second copy and attach to your submission as confirmation that the Addendum was taken into account in your bid submission.
3. Failure to sign and return this form may result in a non-compliant bid.

Details of the Addendum:

A- CCDC 2-2020 - Supplementary Conditions

B- Specification:
- a. 00 21 13 - Instructions to Bidders [ADD3]
- b. 00 31 00 - Information Available for Review [ADD3]
- c. 07 21 29 - Sprayed-Applied Foamed-in-Place Insulation[ADD3]
- d. 08 71 00 Finish Hardware, Door Hardware
- e. 08 44 00 - Aluminum Framed Glazing Systems [ADD3]
- f. 09 51 23 - Acoustical Tile Ceilings [ADD3]
- g. 10 26 13 - Corner Guards and Wall Protection [ADD3]
- h. 055216 - Modular Workplace Guardrail System [ADD3]
- i. 311214_removal_of_existing_asphalt_pavement [ADD3]
- j. 312324_roadway_excavation_embankment&compaction [ADD3]
- k. 321216_asphalt_paving [ADD3]
- l. 321615_concrete_sidewalks_curbs_and_gutters [ADD3]
- m. 321724 - Painted Pavement Markings [ADD3]
- n. 333113_site_sanitary_sewer_piping [ADD3]
- o. 334400 - Storm Sewers [ADD3]

C- Architectural drawings
- a. Sheet # A001
  - i. Add soffit type SF2
  - ii. Revise soffit type SF1
- b. Sheet # A101
  - i. Remove storage alcove room # 1150 from scope of work
- c. Sheet # A103
  - i. Show the Extent of fire-rated above exiting overhang slab
- d. Sheet AD011
  - i. Remove detail 3/AD011 alcove storage
- e. Sheet AD012
  - i. Graphics, revise scope of work line

f. Sheet AD013
    i. Graphics, revise scope of work line
g. Sheet # PH100
    i. Revise staging area
h. Sheet # PH101
    i. Revise staging area
i. Sheet # PH102
    i. Revise staging area
j. Sheet # A201
    i. Remove storage alcove room # 1150 from scope of work
k. Sheet # A301.2
    i. Delete detail 2/301.2
l. Sheet # A303.1
    i. New wall section 6/A563
    ii. Add sidewalk expansion joint
    iii. Show reference to detail 7/A611
    iv. Film for exterior window for room 3324
m. Sheet # A304.1
    i. New detail reference
n. Sheet # A373
    i. Revise BR3 to SS/BR
o. Sheet A401.1
    i. Adjust fixture locations
p. Sheet A401.2
    i. Delete detail 2/A401.2
q. Sheet # A502
    i. Revise glazing type for SNT entrance
r. Sheet # A561
    i. Revise detail 3/A561
s. Sheet # A652
    i. Add detail 8/652
t. Sheet # A563
    i. New wall section, 6/A563
u. Sheet # A605
    i. Revise detail 1/A605
    ii. Revise detail 2/A605
    iii. Revise detail 3/A605
    iv. Revise detail 5/A605
    v. Revise detail 6/A605
    vi. Revise detail 7/A605
    vii. Revise detail 10/A605
v. Sheet # A610
    i. Revise detail 10/A610
w. Sheet # A612
    i. New detail 5/A612
x. Sheet # A621
    i. Revise detail 1/A621
y. Sheet # A622
    i. Revise detail, 1/A623
    ii. Revise detail, 2/A623

iii. New detail, 3/A623
iv. Revise detail, 5/A623
v. New detail, 6/A622
vi. New detail, 7/A622
vii. New detail 10/A622

z. Sheet #A623
i. Revise detail 4/A623

aa. Sheet # A801
i. Revise robe hooks in patient washrooms

bb. Sheet # A807
i. Delete detail 6/A807
ii. Revise detail 12/A807

cc. Sheet # A2000
i. Delete door 1150
ii. Revise door thickness
iii. Correct missing door on addendum No.1

dd. Sheet # A2001
i. Revise window types

D- Provide revisions to the site and civil scope of work in accordance with the attached site and civil addendum No.3.

E- Provide revisions to the mechanical and electrical scope of work in accordance with the attached mechanical and electrical addendum No.3.

F- RFIs questions and responses

End of addendum No.3

GENERAL REFERENCE

The following Supplementary Conditions shall be read in conjunction with the Canadian Standard Construction Document, CCDC 2-2020. These Supplementary Conditions and Amendments shall modify, delete and/or add to the Agreement between the *Owner* and the *Contractor*, Definitions and General Conditions of the Stipulated Price Contract CCDC 2-2020. Section and paragraph references below are to the corresponding sections and paragraphs of the Agreement between *Owner* and *Contractor*, Definitions and General Conditions of the Stipulated Price Contract all forming part of Standard Construction Document, CCDC 2-2020, Stipulated Price Contract.

Where any article, paragraph or subparagraph in the Agreement, Definitions or General Conditions is supplemented by one of the following, the provisions of such article, paragraph or subparagraph shall remain in effect and the supplemental provisions shall be considered as added thereto. Where any article, paragraph or subparagraph in the Agreement, Definitions or General Conditions is amended, deleted, voided, or superseded by any of the following, the provisions of such article, paragraph or subparagraph not so amended, voided, deleted, or superseded, shall remain in effect, and the numbering of the deleted item will be retained, unused.

The Stipulated Price Contract, CCDC 2-2020, is amended as follows:

AGREEMENT BETWEEN OWNER AND CONTRACTOR

ARTICLE A-1 THE WORK

Delete paragraph 1.3 and replace with the following:

> "1.3 commence the *Work* by no later than thirty (30) calendar days after execution of the *Contract* and, subject to an adjustment in the *Contract Time* as provided for in the *Contract Documents,* attain *Ready-for-Takeover* by the *Scheduled Ready-to-Takeover Date*, and attain *Total Completion of the Work* by the *Scheduled Total Completion Date*."

ARTICLE A-5 PAYMENT

Amend paragraph 5.1 by deleting "in accordance with legislation and statutory regulations respecting holdback percentages" and replacing with "a statutory holdback of ten percent (10%) as per the *Payment Legislation*".

Delete paragraph 5.1.2 and replace with the following:

> "5.1.2 upon *Substantial Performance of the Work*, as certified by the *Consultant*, and the conditions of GC 5.4.5 have been satisfied, and subject to GC 5.5 and any notice of non-payment of holdback, pay to the *Contractor* the unpaid balance of the holdback amount when due together with such *Value Added Taxes* as may be applicable to such, and"

Amend paragraph 5.2.1(1) by deleting the words "for the first 60 days".

Delete paragraph 5.2.1(2) in its entirety and replace with "Intentionally deleted".

ARTICLE A-7 LANGUAGE OF CONTRACT

Delete paragraph 7.1 in its entirety and replace with "Intentionally deleted".

ARTICLE A-8 SUCCESSION

Amend paragraph 8.1 by inserting the word "permitted" before "assigns".

ARTICLE A-9 GENERAL

Add new Article A-9 GENERAL as follows:

"9.1 *Contractor* and *Owner* acknowledge and agree that one of the reasons why the *Contractor* was selected for the *Work* is the *Contractor's* representation and warranty that it will attain *Ready-for-Takeover* and the *Total Completion of the Work* by the dates set out in Article A-1, paragraph 1.3, and the *Contractor* acknowledges that it has been advised by the *Owner* that it is critical to the *Owner* that *Ready-for-Takeover* be achieved by the prescribed date and that time is of the essence of this *Contract*.

9.2 Time is of essence of the *Contract*.

9.3 *Contractor* is an independent contractor in performing its obligations under the *Contract*. The *Contract* does not create any agency, partnership, joint venture, fiduciary or other relationship of the *Contractor* with the *Owner* other than the relationship of independent contractor. Nothing contained in the *Contract* shall create any employment or contractual relationship between *Owner* (or anyone acting on its behalf) and any *Contractor* personnel.

9.4 No approval or consent of, or certification, inspection, review, comment, verification, confirmation, acknowledgement, or audit by, any governmental authority, *Owner*, or the *Consultant*, or anyone on their behalf, shall relieve *Contractor* from performing or fulfilling any of its obligations under the *Contract*. Without limitation, whenever any drawings, plans, procedures, programs, or other work product of *Contractor* requires any review, inspection, comment or approval by any governmental authority, *Owner*, or the *Consultant*, or anyone on their behalf, any such review, inspection, comment, or approval shall not, in any way, reduce or modify any of *Contractor*'s obligations under the *Contract*.

9.5 If any part of the *Contract* or the application of such part to any party, person or circumstance shall, to any extent, be invalid or unenforceable, the remainder of the *Contract*, or the application of such part to any other party, person, or circumstance, shall not be affected thereby and each provision of the *Contract* shall be valid and enforceable to the fullest extent permitted by law.

9.6 This Agreement, including the *Contract Documents* described herein and the attachments, documents, and other agreements to be furnished or executed in connection herewith, supersede all prior negotiations, representations, or agreements, either written or oral, with respect to the subject matter hereof. No modification to the *Contract* shall be effective unless made in writing signed by both *Owner* and *Contractor*, unless otherwise provided for herein.

9.7 This *Contract* may be executed in any number of counterparts, and all such counterparts shall together constitute one instrument binding on the parties hereto, provided each party hereto has executed at least one counterpart, including any counterpart executed by a party hereto and transmitted to the other party hereto by facsimile transmission or by electronic mail with PDF attachment, and each shall be deemed to be an original, notwithstanding that all parties are not signatory to the same counterpart."

DEFINITIONS

Add the following new definitions:

"**Commissioning**
Commissioning means the process of putting the *Work* or any part thereof into operation and includes Start-Up, Verification and Performance Testing as described in the *Contract Documents*.

Completion of Commissioning
Completion of Commissioning means the point in time at which the *Owner* and the *Consultant* are satisfied that the *Contractor* has successfully completed *Commissioning*.

Deficiency List
Deficiency List means the deficiency list prepared by the *Consultant* and/or *Owner*, acting reasonably, listing itemized deficiencies in the *Work.*

Governmental Authorities
Governmental Authorities means any government, legislature, municipality, regulatory authority, agency, commission, department, board, or other law regulation or rule making entity (including, without limitation, a minister of the Crown).

Hospital
Hospital means Guelph General Hospital.

OHSA
OHSA means the *Occupational Health and Safety Act*, R.S.O. 1990, c. O.1 as amended and any and all Regulations thereto".

Proper Invoice
Proper Invoice means a written bill or other request for payment for services and/or materials comprising the *Work* performed under this *Contract* issued by the *Contractor*, provided such bill or request, contains the information set out in Section 6.1 of the *Construction Act*, which for certainty includes the following:

1. the *Contractor's* name and address;

2. the *Contractor's* HST registration number;

3. the date of the *Proper Invoice* and the period during which the services or materials were supplied to the *Owner*;

4. information identifying the authority, whether in this *Contract* or otherwise, under which the services or materials were supplied;

5. a description of the *Work*, or the portion thereof, including quantity where appropriate, of the services or materials that were supplied;

6. Name and address of the *Owner*, and *Owner's* unique *Project* number, if any;

7. Name and address of the *Project*;

8. the amount the *Contractor* is requesting to be paid by the *Owner*, separating out any reimbursable expenses, statutory or other holdbacks, set-offs, and HST;

9. the amount payable for the services or materials that were supplied, and the payment terms;

10. the name, title, telephone number and mailing address of the person at the *Contractor* to whom payment is to be sent; and

Any other information that may be prescribed by the *Construction Act.*

Submittals
Submittals are documents or other forms of information which the *Contractor* is required to submit to the *Owner* or the *Consultant* and include, without limitation, *Shop Drawings*, samples, models, record drawings, test reports, certificates, diagrams, and manuals.

Scheduled Ready-for-Takeover Date
Scheduled Ready-for-Takeover Date means December 18th, 2025.

Scheduled Total Completion Date
Scheduled Total Completion Date means thirty (30) days following *Ready-for-Takeover*. The *Scheduled Total Completion Date* shall only be amended in writing by the Owner.

Total Completion of the Work
Total Completion of the Work means the point in time when the *Work* is totally performed in accordance with the *Contract Documents,* including the rectification of all items on the *Deficiency List* and certified as such by the *Consultant.*

Warranty Punch List
Warranty Punch List has the meaning set forth in GC 12.3.8.

GENERAL CONDITIONS

GC 1.1 CONTRACT DOCUMENTS

Delete paragraph 1.1.3 in its entirety and replace with the following:

"1.1.3 The *Contractor* shall review the *Contract Documents* for the purpose of facilitating, co-ordinating and executing the *Work.* The *Contractor* shall report promptly to the *Consultant* any ambiguities, design issues, or other matters requiring clarification made known to the *Contractor* or that the *Contractor* may discover from such a review. Such review by the *Contractor* shall comply with the standard of care described in paragraph 1.5.1.5 of the *Contract*.

Amend paragraph 1.1.4 by deleting "The" at the beginning of the paragraph and replacing with the following: "Except for the obligation to review the *Contract Documents* and report the result pursuant to paragraph 1.1.3, the".

Amend paragraph 1.1.5.1 by moving "Supplementary Conditions" to the top of the order of priority.

Delete paragraph 1.1.10 in its entirety and substitute new paragraph 1.1.10 as follows:

"1.1.10 The design information furnished to the *Contractor* as part of the *Contract Documents*, including the *Drawings* and *Specifications*, are the property of the *Owner* and/or the *Consultant*, and are to be used by the *Contractor* only for the purposes of performing the *Work*. The *Contractor* shall not copy, alter, or utilize the aforesaid design information for any purpose unrelated to the *Work* without the prior written authorization from the *Owner* and/or the *Consultant*, as applicable.

Add new paragraphs 1.1.12 to 1.1.14 as follows:

"1.1.12 Where used in the *Contract Documents*, (a) the word "including" or "includes" or any variation thereof means including, without limitation, and (b) the word "person" includes a natural person and any other entity.

1.1.13 The *Drawings* are a diagrammatic view of the *Work* required but do not limit the extent of the *Work* required to totally complete the details of *Work* intended. It is the *Contractor's* responsibility to apply their expertise to execute the *Work* by the *Contract Documents*. The *Contractor* shall coordinate all *Drawings* with the sizes and dimensions of services, fixtures, and equipment locations shown on the plans or as job conditions permit. Any changes required to facilitate and complete the installation of such services, fixtures or equipment shall be made at no additional cost to the *Owner,* unless a *Change Order* has been issued or there has been a negligent error or omission by the *Consultant*.

1.1.14 The *Contractor* shall keep one copy of the current *Contract Documents, Submittals*, reports and records of meetings at the *Place of the Work*, in good order and available to the *Owner* and *Consultant*."

GC 1.4 ASSIGNMENT

Delete paragraph 1.4.1 in its entirety and insert the following:

"1.4.1 *Contractor* shall not assign the *Contract* or any portion thereof without the prior written consent of *Owner*, which consent shall not be unreasonably withheld. If *Owner* assigns this *Contract* or any party thereof, *Owner* shall provide written notice to the *Contractor* of such assignment."

GC 1.5 PROJECT REQUIREMENTS

Add new "GC 1.5 Project Requirements" as follows:

"**GC 1.5 PROJECT REQUIREMENTS**

1.5.1 The *Contractor* represents, covenants, and warrants to *Owner* that:

.1 it has the necessary high degree of experience and expertise required to perform the *Work* and it will in the performance of the Work exercise a standard of care, skill and diligence that would normally be provided by an experienced and prudent *Contractor* providing similar services, materials, and work for projects of a similar nature;

.2 the personnel it assigns to the *Project* are experienced and it has a sufficient staff of qualified and competent personnel to replace its designated *Contract* personnel referred to in GC 3.6, subject to the *Owner's* approval, in the event of death, incapacity, termination, or resignation;

.3 there are no pending, threatened or anticipated claims or litigation involving the *Contractor* that would have a material adverse effect on the financial ability of the *Contractor* to perform the *Work*;

.4 it will achieve *Substantial Performance of the Work* and the *Total Completion Date* by the date set out in Article A-1, paragraph 1.3; and

.5 in performing its services and obligations under the *Contract*, the *Contractor* shall exercise a standard of care, skill and diligence that would normally be provided by an experienced and prudent contractor supplying similar services for similar projects. The *Contractor* acknowledges and agrees that throughout the *Contract* and *Project*, the *Contractor's* obligations, duties, and responsibilities shall be interpreted in accordance with this standard. The *Contractor* shall exercise the same standard of due care and diligence in respect of any *Products*, personnel, and/or procedures which it may recommend to the *Owner*."

GC 1.6 CONFIDENTIALITY

Add new "GC 1.6 Confidentiality" as follows:

"GC 1.6 CONFIDENTIALITY

1.6.1 *Contractor* shall not, except as is required to carry out its obligations, duties, responsibilities, or liabilities under the *Contract*, divulge any confidential information communicated to or acquired by it in the course of carrying out its obligations, duties, responsibilities or liabilities under the *Contract*. No confidential information shall be used by the *Contractor* on any other project without the prior written consent and approval of the *Owner* (which approval may be arbitrarily withheld). The *Contractor* shall not have any proprietary rights to or interest in the confidential information, nor shall the *Contractor* have any right to license such information to any *Subcontractor, Supplier* or other third party. The term "confidential information" as used herein shall mean all information which the *Contractor* receives, either directly or indirectly, from the *Owner* or from the *Consultant*, except:

.1 information which the *Contractor* can demonstrate is, at the time of disclosure, already known to the *Contractor;*

.2 information which, at the time of disclosure, is or thereafter becomes a part of the public domain through no act or omission on the part of the *Contractor;* and

.3 information which is disclosed to the *Contractor* by a third party without a covenant of confidentiality**.**

1.6.2 The *Contractor* may disclose the confidential information to those *Contractor* personnel, *Subcontractors* and *Suppliers* to whom disclosure is required for the performance of their respective responsibilities, duties, obligations, and liabilities under the *Contract*. The *Contractor* shall require such *Contractor* personnel, *Subcontractors* and *Suppliers* to treat such information as confidential and not to disclose such information to any person other than in accordance with the terms of the *Contract*.

1.6.3 The *Contractor* covenants and agrees that the confidentiality covenant contained herein shall survive the termination or discharge of date of such termination or discharge."

GC 1.7 EXAMINATION OF DOCUMENTS, SITE AND TIME

Add new GC 1.7 EXAMINATION OF DOCUMENTS, WORK SITE AND TIME as follows:

"**GC 1.7 EXAMINATION OF DOCUMENTS, WORK SITE AND TIME**

"1.7.1 The *Contractor* represents and warrants that in tendering for the *Work*, and in entering into the *Contract* with the *Owner* for the performance of the *Work*, it has investigated for itself the character of the *Work* to be done and all local conditions existing at the *Place of the Work* and the surrounding area and it has satisfied itself as to the scope and character of the *Work*, all conditions and information affecting the *Work*, including the nature and location of the *Work*, access to the site and weather conditions."

GC 2.2 ROLE OF THE CONSULTANT

Amend paragraph 2.2.3 by adding the following sentence to the end:

"The presence of such project representatives at the *Place of the Work* shall not relieve *Contractor* from any responsibility to perform the *Work* as required by the *Contract Documents*."

Amend paragraph 2.2.5 by: (a) adding the words "to *Contractor*" after the words "The *Consultant* will not be responsible" in the first sentence of the paragraph; (b) adding the word "schedules" after the word "techniques"; (c) adding the following to the end of the second sentence "or to adhere to the construction schedule"; and (d) adding the following to the end of the paragraph:

"The *Consultant* will not have control over, charge of, or be responsible for, the acts or omissions of the *Contractor, Subcontractors, Suppliers*, or their agents, employees, or any other person performing any portion of the *Work*."

Amend paragraph 2.2.6 by deleting "Except with respect to GC 5.1 – FINANCING INFORMATION REQUIRED OF THE OWNER, the" and replacing with "The".

Delete paragraph 2.2.12 and replace with the following:

> "The *Contractor* shall be responsible for requesting any additional instructions or clarifications that may be required from the *Consultant* which are needed for the performance of the *Work*, and shall request such instructions or clarifications in time to avoid any delay or additional cost of the *Work*."

Amend paragraph 2.2.13 by deleting the word "submittals" and replacing with "*Submittals*".

Amend paragraph 2.2.18 by (a) deleting the word "immediately" and replacing with ", as soon as reasonably practicable," and (b) deleting the words "against whom the *Contractor* makes no reasonable objection".

Add new paragraph 2.2.19 as follows: "Verbal instructions and amendments, regardless of their source, shall not be binding."

GC 2.3 REVIEW AND INSPECTION OF THE WORK

Amend paragraph 2.3.2 by inserting in line 1 ", *Commissioning*" after "inspections,". Insert in line 3 "and *Commissioning*" after "inspection".

Amend paragraph 2.3.3 by inserting in line 1 ", *Commissioning*" after "certificates.

Amend paragraph 2.3.4 by inserting in line 2 "*Commissioning*" after "inspections,". Insert in line 3 "or *Commissioning*" after "tests".

Amend paragraph 2.3.5 by inserting "Subject to paragraph 2.3.4" at the beginning of the third sentence.

Amend paragraphs 2.3.6 and 2.3.7 by inserting "or *Commissioning*" after "inspection" in all instances.

Add new paragraph 2.3.8 as follows:

> "The *Consultant, Owner,* and their representatives shall at all times have access to the *Project* and be permitted to examine the *Work* and materials used or to be used for the *Work*, and *the Contractor* agrees to provide reasonable facilities for such inspection."

GC 2.4 DEFECTIVE WORK

Amend paragraph 2.4.1 by (a) adding the words "or the *Owner*" after the word "*Consultant*" in the first line, and (b) adding the following to the end of the paragraph:

> "The *Contractor* shall rectify in a manner acceptable to the *Owner* all other defective work and like deficiencies throughout the Work whether or not they are specifically identified by the *Consultant*."

Amend paragraph 2.4.3 by deleting the words "… the difference in value between the *Work* as performed and that called for by the *Contract Documents"* and insert the words "… the value of such *Work* as is necessary to correct any non-compliance with the *Contract Documents*."

Add new paragraphs 2.4.4, 2.4.5 and 2.4.6 as follows:

"2.4.4 The *Contractor* shall prioritize the correction of any defective work which, in the sole discretion of the *Owner*, adversely affects the day-to-day operations of the *Owner*.

2.4.5 Upon notification of a defect in the *Work*, the *Contractor* shall, within five working days, promptly provide a written statement outlining the proposed remedial measures and a schedule for implementation. Once approved by the *Consultant*, the *Contractor* shall proceed with the remedial measures without adversely affecting the construction schedule.

2.4.6 Notwithstanding any rejection of the *Work* by the *Consultant* or *Owner*, or the deduction of an amount otherwise due to the *Contractor* by the *Owner* as a result of defective work, the *Contractor* is required to continue the *Work* in accordance with the *Contract Documents*."

GC 3.1 CONTROL OF THE WORK

Amend paragraph 3.1.1 by inserting "schedule, coordinate," after the word "effectively".

Amend paragraph 3.1.2 by (a) adding the word "schedules" after the word "techniques", (b) deleting the word "under" and replacing with "in accordance with", and (c) adding the following to the end of the sentence "and shall coordinate the *Work* so as not to interfere with, interrupt, obstruct, delay, or otherwise affect, the work of others".

Add new paragraphs 3.1.3 and 3.1.4 as follows:

"3.1.3 The *Contractor* shall verify, at the *Place of the Work*, all relevant measurements, and levels necessary for proper and complete fabrication, assembly and installation of the *Work* and shall further carefully compare such field measurements and conditions with the requirements of the *Contract Documents*. Where dimensions are not included or exact locations are not apparent, the *Contractor* shall immediately notify the *Consultant*, in writing, and obtain written instructions from the *Consultant* before proceeding with any part of the affected work.

3.1.4 *Contractor* shall perform the *Work* in a good and workmanlike manner, using new materials, in accordance with all applicable laws and current best practices and standards in the construction industry at the *Place of the Work*. *Contractor* acknowledges that both time and quality are of the essence and *Contractor* will perform the *Work* or cause the *Subcontractors* and *Suppliers* to perform the *Work* in accordance with the construction schedule."

GC 3.2 CONSTRUCTION BY OWNER OR OTHER CONTRACTORS

Delete paragraphs 3.2.2.1 and 3.2.2.3 in their entirety and replace with "Intentionally deleted".

Add new subparagraph 3.2.3.5 as follows:

"3.2.3.5 Subject to **GC 9.4 CONSTRUCTION SAFETY**, for the *Owner's* own forces and for *Other Contractors*, assume overall responsibility for compliance with all aspects of the applicable health and safety legislation in the *Place of the Work*, including all of the responsibilities of the "constructor" or "prime contractor" under the applicable

legislation. *Owner's* own forces and *Other Contractors* will be required to comply with the directions and instructions from the *Contractor.*

Delete the last sentence of paragraph 3.2.5 in its entirety.

Delete paragraph 3.2.6 and replace with the following:

"3.2.6 Entry by the *Owner's* forces and by other contractors does not indicate acceptance of the *Work* and does not relieve the *Contractor* of any responsibility under the *Contract* including the responsibility to complete the *Work* in accordance with the *Contract Documents*."

Add new paragraph 3.2.7 as follows:

"3.2.7 Placing, installing, applying, and connecting of work by the *Owner's* own forces or by *Other Contractors*, on and to the *Work* will not relieve the *Contractor's* responsibility to provide and maintain the specified warranties unless a defect has been created by the *Owner's* own forces or *Other Contractors*."

GC 3.3 TEMPORARY WORK

Add new paragraph 3.3.4 as follows:

"3.3.4 Temporary or trial usage of any mechanical device, machinery, apparatus, equipment or materials shall not be construed as evidence of acceptance of the same and no claim for damage shall be made by the Contractor for injury to or breaking of any part of such work which may be used."

GC 3.4 CONSTRUCTION SCHEDULE

Delete paragraph 3.4.1 in its entirety and replace with the following:

"3.4.1 The *Contractor* shall:

.1 prior to site mobilization and first application for payment, prepare and submit to the *Owner* and the *Consultant* for their review and acceptance a construction schedule indicating critical milestone dates for the Project, including, without limitation, the timing of the major activities of the *Work,* lead times for the ordering of any equipment or materials required to be purchased by the *Owner*, if any, and provides sufficient detail of the critical events and their interrelationship using a scheduling program which is the most current version, to demonstrate that the *Work* will be performed in conformity with the *Contract Time*;

.2 provide the expertise and resources, including manpower and equipment, as are necessary to maintain progress under the construction schedule or any successor or revised schedule approved by the *Owner*;

.3 monitor the progression of the *Work* relative to the construction schedule, or any successor or revised schedule approved by the *Owner*, update the schedule on a monthly basis, and advise the *Owner* and *Consultant* in writing of any slippage in the construction schedule or any other schedule; and

.4 if after applying the expertise and resources required under paragraph 3.4.1.2, the *Contractor* forms the opinion that the slippage in the construction schedule or any other schedule cannot be recovered by the *Contractor*, the *Contractor* shall, in the same notice provided under paragraph 3.4.1.3, indicate to the *Owner* and *Consultant* if the *Contractor* intends to apply for an extension of *Contract Time*, including, the basis on which such application may form."

Add new paragraphs 3.4.2 to 3.4.4 as follows:

"3.4.2 In addition to the construction schedule, at each site construction meeting, the *Contractor*, shall provide to the *Owner* and *Consultant* a two (2) week look-ahead schedule indicating the major activities to be undertaken or constructed in the following two (2) week period.

3.4.3 If at any time it should appear to the *Owner* or the *Consultant* that the actual progress of the *Work* is behind schedule or is likely to become behind schedule, or if the *Contractor* has given notice to that effect to the *Owner* or the *Consultant,* the *Contractor* shall take appropriate steps to cause the actual progress of the *Work* to conform to the schedule and shall produce and present to the *Owner* and the *Consultant* a recovery plan demonstrating how the *Contractor* will achieve the recovery of the schedule. For delay to the schedule caused by the *Contractor* or anyone employed or engaged by the *Contractor* directly or indirectly, the *Owner* may instruct the *Contractor*, at the *Contractor's* expense, to employ additional labour and equipment or work overtime or employ any other reasonable procedures, at no expense to the *Owner*, to bring the *Work* back to conform with the schedule.

3.4.4 Without limiting the other obligations of the *Contractor* under paragraph 3.4.1, the *Contractor* shall not amend the construction schedule without the prior written consent of the *Owner*."

GC 3.5 SUPERVISION

Add new paragraph 3.5.3 as follows:

"3.5.3 The *Contractor's* site superintendent for the *Contract* shall devote their full time to the *Project* during working hours and remain at the *Place of the Work* until (a) a final certificate of payment has been issued by the *Consultant*, and (b) all deficiencies in the *Work* have been rectified to the satisfaction of the *Owner*. The full-time site superintendent for the *Contract* shall not be removed or replaced during the progression of the *Work* without the prior written consent of the *Owner*, which approval shall not be unreasonably withheld."

GC 3.6 SUBCONTRACTORS AND SUPPLIERS

Amend paragraph 3.6.2 by inserting the following at the end of the paragraph:

"The *Contractor* agrees not to change *Subcontractors* without prior written approval of the *Owner*. Where the *Contractor* wishes to change identified *Subcontractors* or *Suppliers*, it shall set out in writing to the *Owner* sufficient reasons for the desired change. If the *Owner* is not satisfied with the *Contractor's* reason for wanting to change an identified *Subcontractor* or

Supplier, it shall have the *Consultant* notify the *Contractor* that its request is not acceptable to the *Owner* and that the *Contractor* is required to proceed with the identified *Subcontractor* or *Supplier*."

Amend paragraph 3.6.4 by inserting the following at the end of the paragraph: ", unless the request to change a proposed *Subcontractor* or *Supplier* is a result of issues with the ability of the *Subcontractor* or *Supplier* to complete the *Work* in a proper or timely manner, in which case the *Contractor* will not be entitled to any change in *Contract Price* or *Contract Time*".

Add new paragraph 3.6.7 as follows:

"3.6.7 The *Contractor* and its *Subcontractors* shall pay all of their respective *Subcontractors*, *Suppliers*, and workers that they employ such sums as are due to them. The *Contractor* shall take all necessary steps to ensure that the *Subcontractors* and *Suppliers* do likewise. All payments shall be made promptly when due and in accordance with applicable laws."

GC 3.7 LABOUR AND PRODUCTS

Amend paragraph 3.7.1 by adding the following second sentence:

"The *Contractor* represents and warrants that it has sufficient skilled employees to replace, subject to the *Owner's* approval, acting reasonably, its designated supervisor and project manager in the event of death, incapacity, removal or resignation."

Add new paragraph 3.7.4 as follows:

"3.7.4 The *Contractor* is responsible for the safe on-site storage of *Products* and their protection (including *Products* supplied by the *Owner* and other contractors to be installed under the *Contract*) in such ways as to avoid dangerous conditions or contamination to the *Products* or other persons or property and in locations at the *Place of the Work* to the satisfaction of the *Owner* and the *Consultant*. The *Owner* shall provide all relevant information on the *Products* to be supplied by the *Owner*."

GC 3.8 SHOP DRAWINGS

Add the words "**AND OTHER SUBMITTALS**" to the Title after **SHOP DRAWINGS**.

Add "and *Submittals*" after the words "*Shop Drawings*" in paragraphs 3.8.1, 3.8.2, 3.8.3, 3.8.5, 3.8.6, and 3.8.7.

Delete paragraph 3.8.3.1 in its entirety and substitute new subparagraph 3.8.3.1 as follows:

".1 the *Contractor* has determined, verified and correlated all field measurements with the *Shop Drawings* and any *Submittals* and field construction conditions, *Product* requirements, catalogue numbers and similar data, or will do so if not possible at that time, and"

Delete paragraph 3.8.7 and replace with the following:

"3.8.7 The *Consultant* will review and return *Shop Drawings* and *Submittals* in accordance with the schedule agreed upon, or, in the absence of such schedule, within fifteen (15)

Working Days. If, for any reason, the *Consultant* cannot process them within the agreed-upon schedule or within fifteen (15) *Working Days*, the *Consultant* shall notify the *Contractor* and they shall meet to review and arrive at an acceptable revised schedule for processing. The *Contractor* shall update the *Shop Drawings* and *Submittals* schedule to correspond to changes in the construction schedule."

Add new paragraphs 3.8.8 to 3.8.10 as follows:

"3.8.8 The *Contractor* shall provide *Shop Drawings* and *Submittals* in the form specified in the *Contract Documents*, or if not specified, as directed by the *Consultant*.

3.8.9 *Shop Drawings* and *Submittals* provided by the *Contractor* to the *Consultant* shall indicate by stamp, date, and signature of the person responsible for the review that the *Contractor* has reviewed each one of them.

3.8.10 The *Contractor* shall provide revised *Shop Drawings* and *Submittals* to correct those which the *Consultant* rejects as inconsistent with the *Contract Documents*, unless otherwise directed by the *Consultant*. The *Contractor* shall notify the *Consultant* in writing of any revisions to the *Shop Drawings* or other *Submittals* other than those requested by the *Consultant*."

GC 3.9 CLEAN UP

Add new GC 3.9 CLEAN UP as follows:

"**GC 3.9 CLEAN UP**

3.9.1 The *Contractor* shall, on a daily basis, maintain the *Work* in a safe and tidy condition and free from the accumulation of waste products and debris, other than that caused by the *Owner*, *Other Contractors* or their employees.

3.9.2 Before applying for *Substantial Performance of the Work* as provided in GC 5.4 – SUBSTANTIAL PERFORMANCE OF THE WORK AND PAYMENT OF HOLDBACK, the *Contractor* shall remove waste products and debris, other than that resulting from the work of the *Owner, Other Contractors,* or their employees, and shall leave the *Place of the Work* clean and suitable for use or occupancy by the *Owner*. The *Contractor* shall remove products, tools, *Construction Equipment*, and *Temporary Work* not required for the performance of the remaining work.

3.9.3 Prior to application for the final payment, the *Contractor* shall remove any remaining products, tools, *Construction Equipment, Temporary Work*, and waste products and debris, other than those resulting from the work of the *Owner, Other Contractors*, or their employees."

GC 3.10 USE OF THE WORK

Add new GC 3.10 – USE OF THE WORK as follows:

"**GC 3.10 USE OF THE WORK**

3.10.1 The *Contractor* shall confine *Construction Equipment, Temporary Work*, storage of *Products,* waste products and debris, and operations of employees and *Subcontractors* to limits indicated by laws, ordinances, permits, or the *Contract Documents* and shall not unreasonably encumber the *Place of the Work*.

3.10.2 The *Contractor* shall not load or permit to be loaded any part of the *Work* with a weight or force that will endanger the safety of the *Work.*

3.10.3 Except for those normally used during the performance of the *Work*, such as elevator, mechanical, electrical, hydro, the *Contractor* shall not use any service plant or equipment installed as part of the *Work* without prior written consent from the *Owner*. On receipt of such consent, the *Contractor* shall be subject to any conditions set out as part of such consent and shall be responsible for all costs, damage and compensation for wear and tear.

3.10.4 If storage or other areas are required for the *Work* in addition to the *Work Site*, *Contractor* shall be responsible for making arrangements to obtain the additional areas and obtaining any necessary permits, permission or authorization and, if required, for making permit, rental or other payments that may be required for such purpose."

GC 3.11 DOCUMENTS AT THE SITE

Add new GC 3.10 – DOCUMENTS AT THE SITE as follows:

"**GC 3.11 DOCUMENTS AT THE SITE**

3.11.1 The *Contractor* shall keep one copy of the current *Contract Documents*, *Supplemental Instructions*, *Change Orders*, *Change Directives*, reviewed *Shop Drawings*, *Submittals*, reports and records of meetings at the *Place of the Work*, in good order and available to the *Owner* and *Consultant*."

GC 3.12 RIGHT OF ENTRY

Add new GC 3.12 RIGHT OF ENTRY as follows:

"**GC 3.12 RIGHT OF ENTRY**

3.12.1 The *Owner* shall have the right to enter or occupy the *Work* in whole or in part for the purpose of placing fittings and equipment or for other uses before *Substantial Performance of the Work*, if, in the opinion of the *Consultant* and *Owner*, such entry or occupation does not prevent or substantially interfere with the *Contractor* in completion of the *Contract* within the *Contract Time*. Such entry or occupation shall not be considered as acceptance of the *Work* or in any way relieve the *Contractor* from responsibility to complete the *Contract* or its obligations under the *Contract*.

3.12.2 The use or occupancy of the *Work* or any part thereof by the *Owner* shall not be taken in any manner as an acceptance by the *Owner* of any work or any other part or parts of the *Work* or *Products* not in accordance with the *Contract Documents* or to relieve the *Contractor* or his surety from liability in respect of the observance or performance of

the *Contract* save to the extent that loss or damage is caused during such use or occupancy by the *Owner* or by persons for whom the *Owner* is responsible. In particular, without limiting the generality of the foregoing, the use or occupancy of the *Work* or any part thereof by the *Owner* shall not release the *Contract*or from liability, or waive or impair any rights of the *Owner*."

GC 3.13 DOCUMENT REVIEW

Add new GC 3.13 DOCUMENT REVIEW as follows:

"**GC 3.13 DOCUMENT REVIEW**

3.13.1 The *Contractor* shall review the *Contract Documents* and shall report promptly to the *Consultant* any error, inconsistency, or omission the *Contractor* may discover. Such review by the *Contractor* shall comply with the standard of case described in paragraph 1.5.1 of the *Contract.* Except for its obligation to make such review and report the result, the *Contactor* does not assume any responsibility to the *Owner* or to the *Consultant* for the accuracy of the *Contract Documents.* The *Contractor* shall not be liable for damage or costs resulting from such errors, inconsistencies, or omissions in the *Contact Documents*, which the *Contactor* could not reasonably have discovered. If the *Contractor* does discover any error, inconsistency or omission in the *Contract Documents,* the *Contactor* shall not proceed with the work affected until the *Contractor* has received corrected or missing information for the *Consultant".*

3.13.2 Neither the *Owner* nor the *Consultant* will be responsible for verbal instructions."

GC 4.1 CASH ALLOWANCES

Delete paragraph 4.1.4 in its entirety and replace with the following:

"4.1.4 Where the actual cost of the *Work* under any cash allowance exceeds the amount of the allowance, any unexpended amounts from other cash allowances shall be reallocated, at the *Owner's* direction, to cover the shortfall, and, in that case, there shall be no additional amount added to the *Contract Price* for overhead and profit. Only where the actual cost of the *Work* under all cash allowances exceeds the total amount of all cash allowances shall the *Contractor* be compensated for the excess incurred and substantiated, plus an amount for overhead and profit on the excess only, as set out in GC 6.1 – OWNER'S RIGHT TO MAKE CHANGE."

Delete paragraph 4.1.7 in its entirety and substitute new paragraph 4.1.7:

"4.1.7 The *Contractor* shall provide a schedule prior to the first application for progress payment that shows when the *Owner* must authorize ordering of items called for under cash allowances to avoid delaying the progress of the Work."

Add new paragraph 4.1.8 as follows:

"4.1.8 The *Owner* reserves the right to call, or to have the *Contractor* call, competitive bids for portions of the *Work*, to be paid for from cash allowances. If the *Owner* determines

to proceed with competitive bids, the *Contractor* shall comply with the directions of the *Owner*."

GC 5.1 FINANCING INFORMATION REQUIRED OF THE OWNER

Amend the heading, **"GC 5.1 FINANCING INFORMATION REQUIRED OF THE OWNER"** to read, **"GC 5.1 FINANCING INFORMATION REQUIRED"**.

Delete paragraph 5.1.1 in its entirety and replace with "Intentionally deleted".

Delete paragraph 5.1.2 in its entirety and replace with the following:

"During the performance of the *Contract*, the *Contractor* shall give *Owner Notice in Writing* of any material change in the *Contractor's* financial arrangements that may impact the *Contractor's* ability to perform its obligations under the *Contract*."

GC 5.2 APPLICATIONS FOR PAYMENT

Delete paragraphs 5.2.1 to 5.4.8 and replace with the following:

"5.4.1 At least five (5) *Working Days* prior to the submission of a *Proper Invoice*, the *Contractor* shall submit a draft application for payment to the *Consultant*, with a copy to the *Owner*. The *Consultant* and *Contractor* shall attend a payment meeting to discuss the draft application for payment, which meeting shall take place at least two (2) *Working Days* prior to the submission of the *Proper Invoice*. The *Owner* shall be given notice of the meeting and be entitled, but not required, to attend the meeting. The draft application for payment will be submitted in a format mutually agreed upon by the *Owner, Consultant,* and *Contractor*.

5.4.2 Applications for payment on account as provided in Article A-5 of the Agreement – PAYMENT shall be made pursuant to the delivery of *Proper Invoices* which shall be given to the *Owner* and the *Consultant* on a monthly basis as the *Work* progresses.

5.4.3 On or before the last calendar day of each month, the *Contractor* shall submit to the *Owner* and *Consultant* on a *Working Day*, a *Proper Invoice* for payment for the *Work*. The amount claimed shall be for the value, proportionate to the amount of the *Contract*, of *Work* performed and *Products* delivered to the *Place of the Work* as of the last day of the payment period.

5.4.4 The *Contractor* shall submit to the *Owner* and *Consultant*, at least fifteen (15) calendar days before the first application for payment, a schedule of values of parts of the *Work*, aggregating the total amount of the *Contract Price*, so as to facilitate evaluation of applications for payment. *Proper Invoices* shall be based on the schedule of values, once the schedule of values has been accepted by the *Owner* and *Consultant*, and shall comply with the provisions of this *Contract* and the *Payment Legislation*.

5.4.5 The *Contractor* shall submit, with each *Proper Invoice* after the first, a Statutory Declaration, on an original form of CCDC Document 9A-2001, declaring that payments in connection with the *Work*, as noted in the Statutory Declaration, have

been made to the end of the period immediately preceding that covered by the current application.

5.4.6 The *Contractor* shall submit, with each *Proper Invoice*, evidence of compliance with workers' compensation/workplace safety and insurance board legislation at the *Place of the Work*, including payments due thereunder, with each application for progress payment.

5.4.7 The *Contractor* shall cause payment to be made to all *Subcontractors*, trade contractors, workers and *Suppliers* promptly when due and payable in accordance with the *Construction Act*.

5.4.8 After receipt by the *Owner* and the *Consultant* of a *Proper Invoice* submitted by the *Contractor* in accordance with GC 5.4 – APPLICATIONS FOR PROGRESS PAYMENTS PURSUANT TO THE SUBMISSION OF PROPER INVOICES:

.1 the *Consultant* will issue to the *Owner*, no later than ten (10) *Working Days* after the *Consultant's* receipt of the *Proper Invoice*, a certificate for payment in the amount applied for, or in such other amount as the *Consultant* determines to be properly due following its review of such *Proper Invoice*. The issuance by the *Consultant* to the *Owner* of such certificate for payment is solely for the *Owner's* internal purposes and the *Owner's* receipt or approval of such certificate shall not be a condition of, or obligation to, make payment of the *Proper Invoice* in respect of which such certificate has been issued;

.2 after the *Owner* has reviewed the *Proper Invoice* and the *Consultant's* review of the same, the *Contractor* may amend it if the *Owner* agrees in advance to the revision. For clarity, the form and date of the *Proper Invoice* cannot change despite such a revision; and

.3 the *Owner* shall make payments to the *Contractor* in accordance with GC 5.4.2."

GC 5.3 PAYMENT

Delete paragraph 5.3.1 in its entirety and replace with the following:

"After receipt by the *Consultant* and *Owner* of a *Proper Invoice* submitted by the *Contractor* in accordance with GC 5.2 – APPLICATIONS FOR PAYMENT, then subject to the provisions of the *Contract* and the *Payment Legislation*, including the issuance of a notice of non-payment, payment shall be made by *Owner* to *Contractor* of the amount outlined in the *Proper Invoice* within twenty-eight (28) calendar days of the *Owner's* receipt of the *Proper Invoice*. If a notice of non-payment is issued by the *Owner*, the *Owner* shall pay the *Contractor* the undisputed portion of the *Proper Invoice*, if any, within twenty-eight (28) calendar days after receiving the *Proper Invoice*."

GC 5.4 SUBSTANTIAL PERFORMANCE OF THE WORK AND PAYMENT OF HOLDBACK

Amend paragraph 5.4.1 by (a) deleting the words "20 calendar days" and substituting the words "fifteen (15) *Working Days*", and (b) adding the following to the beginning of the paragraph:

"When the *Contractor* considers that the *Work* is substantially performed, or if permitted by the lien legislation applicable to the *Place of the Work* a designated portion thereof which the *Owner* agrees to accept separately is substantially performed, the *Contractor* shall deliver to the *Consultant* and *Owner* a request for *Substantial Performance of the Work*, including a list of incomplete and defective or deficient work to be rectified, for review by the *Consultant* to establish *Substantial Performance of the Work* or substantial performance of the designated portion of *Work*."

Delete paragraph 5.4.2 in its entirety and replace with "Intentionally deleted".

Delete paragraph 5.4.3 in its entirety and replace with the following:

"Subject to terms and conditions of the *Contract,* the requirements of any *Payment Legislation*, and any notice of non-payment of holdback, the holdback amount authorized by the certificate for payment of the holdback shall be due and payable no later than ten (10) *Working Days* following the expiration of the holdback period stipulated in the *Payment Legislation* applicable to the *Place of the Work.* The *Owner* may retain out of the holdback amount any sums required by law to satisfy any liens against the *Work* or, if permitted by the lien legislation applicable to the *Place of the Work*, other third-party monetary claims against the *Contractor* which are enforceable against the *Owner."*

Amend paragraph 5.4.4 by deleting the word "The" at the beginning of the paragraph and replacing with: "Upon receipt of the certificate issued by the *Consultant* for *Substantial Performance of the Work* in accordance with GC 5.4.1.2, the".

Amend paragraph 5.4.5 by adding deleting "hereby agrees to release, and shall release," and replace with "may release".

Add new paragraphs 5.4.7 and 5.4.8 as follows:

"5.4.7 Immediately following the issuance of the certificate of *Substantial Performance of the Work*, the *Contractor*, in consultation with the *Consultant* and *Owner*, shall create a *Deficiency List* and establish reasonable dates for finishing the *Work,* and correcting any deficient *Work*, including those items included on the *Deficiency List*, which in any event shall be consistent with the *Scheduled Total Completion Date*."

5.4.8 For the purposes of *Substantial Performance of the Work,* the *Contractor* acknowledges that the improvement required by this *Contract*, cannot be considered "ready for use" until all items listed in paragraphs (a) through (d) below have been completed and/or provided in full to the *Owner*. The *Contractor* agrees that its failure to submit all of the listed materials and documentation in conformance with the *Contract Documents* shall constitute proper grounds for the *Consultant* to reject the *Contractor's* application for *Substantial Performance of the Work*.

(a) Submission of Warranties, Data Manuals and As-Built Drawings and Specifications in acceptable manner,

(b) Instruction of *Owner* in the operation of systems,

(c) Approval to occupy completed work, from authorities having jurisdiction,

(d) All systems and equipment started up and tested including final balancing required by the *Contract Documents,*

(e) All life safety systems verified by *Contractor* and *Consultant* as complying with the requirements of the *Contract Documents,* and

(f) All spare parts and maintenance materials,

and any other materials or documentation required to be submitted under the *Contract*, together with written proof acceptable to the *Owner* and the *Consultant* that the *Work* is substantially performed in accordance with the requirements of the *Contract Documents* and the municipal government, utilities and other authorities having jurisdiction."

GC 5.5 FINAL PAYMENT

Delete paragraph 5.5.1 in its entirety and replace with the following:

"5.5.1 When the *Contractor* considers that the *Work* is completed and satisfies the requirements of *Total Completion of the Work* and *Completion of Commissioning*, the *Contractor* shall submit an application for final payment. The *Contractor's* application for final payment shall be accompanied by any documents or materials not yet delivered as agreed to in writing by the Owner pursuant to paragraph 5.4.8 together with fully complete as-built *Drawings*. Should the *Contractor* fail to deliver any of the said documents, or other documents required to be delivered pursuant to the *Contract Documents*, the *Owner* shall be at liberty to withhold from amounts otherwise payable to the *Contractor*, an amount, in the discretion of the *Owner*, up to the full amount otherwise payable to the *Contractor* as security for the obligation of the *Contractor* to deliver the undelivered documents."

Delete from the first line of paragraph 5.5.2 the words, "calendar days" and substitute the words "*Working Days*".

Amend paragraph 5.5.3 by adding the following second sentence to the end of the paragraph: "The *Contractor* shall revise and resubmit the application after the *Contractor* has addressed the reasons given for the rejection."

Delete paragraph 5.5.4 in its entirety and replace with the following:

"Subject to the *Consultant's* certification of the application for final payment provided for in paragraphs 5.5.2 and 5.5.3, any notice of non-payment, the provision of paragraph 10.4.1 of GC 10.4 – WORKERS' COMPENSATION, and any legislation applicable to the *Place of the Work*, the *Owner* shall, no later than twenty-eight calendar days after the submission of the *Contractor's* application for final payment, pay the *Contractor* as provided in Article A-5 of the Agreement – PAYMENT, and in any event in compliance with *Payment Legislation*."

GC 5.8 WITHHOLDING OF PAYMENT

Add new GC 5.8 WITHHOLDING OF PAYMENT as follows:

"**GC 5.8 WITHHOLDING OF PAYMENT**

5.8.1 Notwithstanding the provisions of GC 5.3 PAYMENT, GC 5.4 SUBSTANTIAL PERFORMANCE OF THE WORK AND PAYMENT OF HOLDBACK, and GC 5.5 FINAL PAYMENT, the *Owner* may withhold payment of any amounts otherwise due under the *Contract* on account of any costs or damages the *Owner* has incurred or, is likely to incur, by reason of:

.1 defective or incomplete portions of the *Work* or damage to the work of other contractors not rectified in accordance with the *Contract* for which the C*ontractor* is responsible;

.2 failure of the *Contractor* to indemnify the *Owner* in accordance with the terms of the *Contract*;

.3 failure of the *Contractor* to fulfil its obligations in respect of construction liens in accordance with GC 13.2; and

.4 evidence of the *Contractor's* failure to make payments to *Subcontractors* or Suppliers.

5.8.2 Where the *Owner* has withheld payment of any portion of the *Contract Price* pursuant to the provision of paragraphs 5.6.1 or 5.8.1, the *Owner* shall be entitled to apply such withheld portion towards any costs or damages suffered by the *Owner*."

GC 6.1 OWNER'S RIGHT TO MAKE CHANGES

Add new paragraphs 6.1.3 to 6.1.10 as follows:

"6.1.3 The *Owner*, through the *Consultant*, reserves the right to authorize payment for a change in the *Work* by means of *Cash Allowance*. For greater certainty, the *Contractor* is not entitled to any mark-up for overhead and profit on such amounts.

6.1.4 In the event that any change to the *Work* results in a reduction in the *Contract Price*, the *Contractor* shall not be entitled to claim for any lost revenue, lost profit or loss of anticipated profit related thereto.

6.1.5 *Contractor* shall not be entitled to receive any compensation or extension of *Contract Time*, and *Owner* shall have no obligation or liability to pay compensation to *Contractor*, unless a *Change Order* or *Change Directive* has been issued to *Contractor*, in writing, and before *Contractor* commences with any work in respect of such *Change Order* or *Change Directive*.

6.1.6 There shall be no adjustments to the *Contract Time* or *Contract Price* or compensation or payment of any kind whatsoever including potential or contingent costs for matters such as loss of profit, loss of productivity, loss of opportunity or any other such losses based on the quantity, scope or cumulative value or number of changes in the *Work*

whether resulting from one or more *Change Orders* or *Change Directives,* unless agreed in writing by the parties in a *Change Order.*

6.1.7 Any *Change Order* or *Change Directive* shall clearly set out what, if any, extension of the *Contract Time* is anticipated as a result thereof and failing the inclusion of the same, *Contractor* shall be barred in making a claim for extension of the *Contract Time* in respect thereof.

6.1.8 When both additions and deletions covering related work or substitutions are involved in a change to the *Work*, payment, including overhead and profit, shall be calculated on the basis of the net difference, if any, with respect to that change in the *Work*.

6.1.9 Where a change in the *Work* involves additions, deletions, or other revisions to the Work, the Contract Price shall be increased or decreased, as applicable, only by the net actual value of the change in the *Work* plus the following:

.1 *Contractor* mark-up for overhead and profit on its own work shall not exceed ten percent (10%);
.2 *Contractor* mark-up for overhead and profit on *Subcontractor* work shall not exceed five percent (5%);
.3 *Subcontractor* mark-up for overhead and profit on its own work shall not exceed ten percent (10%); and
.4 If a *Subcontractor* retains another *Subcontractor* (sub-subcontractor), no additional mark-up shall be charged to the *Owner* for the sub-subcontract work.

6.1.10 Overhead and profit may not be charged on changes in the *Work* where there is a net decrease to the *Contract Price*.

GC 6.2 CHANGE ORDER

Add new paragraph 6.2.3 as follows:

"6.2.3 Upon the *Owner* and *Contractor* signing a *Change Order*, the *Change Order* shall constitute full and final settlement of all matters addressed in the *Change Order*, including, without limitation, any increases or decreases of the *Contract Price* and/or changes to the *Contract Time* related to the subject matter of the *Change Order*."

GC 6.3 CHANGE DIRECTIVE

Delete paragraphs 6.3.7.5, 6.3.7.11, 6.3.7.15, 6.3.7.17 and 6.3.7.18 and replace with "Intentionally deleted".

GC 6.4 CONCEALED OR UNKNOWN CONDITIONS

Delete paragraph 6.4.1 and replace with the following:

"6.4.1 The *Contractor* shall immediately, and in no event, later than five (5) *Working Days* after first observance, notify the *Consultant* and the *Owner* in writing, if in *Contractor's* opinion, the subsurface or otherwise concealed physical conditions at the *Place of the Work* which existed before the commencement of the *Work* and which differ materially

from those indicated in the *Contract Documents*. ~~or a reasonable assumption of probable conditions based thereon.~~"

Add new paragraphs 6.4.5 and 6.4.6 as follows:

"6.4.5 The *Contractor* confirms that, prior to entering into this *Contract*, applying the standard of care described in paragraph 1.5.1, *Contractor* carefully investigated the *Place of the Work*, the character of the *Work*, the *Contract Documents,* and all local conditions that might affect or impact its obligations to carry out the *Work* by way of visual inspection or reasonable enquiry, and has satisfied itself as to the nature and extent of the *Work* required under the *Contract Documents*. Notwithstanding any other provision in the Contract, the *Contractor* is not entitled to compensation or to an extension of the *Contract Time* for conditions which could reasonably have been ascertained by the *Contractor* by such investigation undertaken prior to the submission of the bid.

6.4.6 *Contractor* shall not be entitled to claim, and waives its rights to make a claim, for any additional compensation or any increase to the *Contract Time* or *Contract Price,* if the *Contractor* fails to provide notice to the *Owner* as required in GC 6.4.1."

GC 6.5 DELAYS

Add the following to the end of paragraphs 6.5.1 and 6.5.2 "but excluding any special, indirect or consequential losses or damages, including but not limited to, loss of use, loss of productivity, loss of revenue, overhead and/or profit".

Amend paragraph 6.5.3.4 by (a) moving lines 2 to 6 under the ".4" so that it applies to the entirety of GC 6.5.3, and (b) adding to the end of paragraph 6.5.3 (the end of line 6) the following: "provided that such costs are reasonable (and, in any event, shall exclude any special, indirect or consequential losses or damages, including but not limited to, loss of use, loss of productivity, loss of revenue, overhead and/or profit)."

~~Delete~~ Amend paragraph 6.5.3.3 by adding ~~and replace with~~ "epidemics and pandemics" after the word "conditions".

Add new paragraphs 6.5.6 and 6.5.7 as follows:

"6.5.6 If the *Contractor* is delayed in the performance of the *Work* by an act or omission of the *Contractor* or anyone employed or engaged by the *Contractor* directly or indirectly, or by any cause within the *Contractor's* control, then the *Contractor* shall take appropriate steps to recover any lost time, and the costs of such recovery efforts shall be to the *Contractor's* account. To the extent that the *Contractor* caused delay results in the *Owner* incurring additional costs and expenses and/or a change in the *Contract Time*, the *Contractor* shall be liable to the *Owner* for the *Owner's* cost and damages arising therefrom, including but not limited to, all services required by the *Owner* from the *Consultant* as a result of such delay by the *Contractor* and, in particular, the cost of the *Consultant*'s services during the period between the date of *Substantial Performance of the Work* stated in Article A-1 herein as the same may be extended through the provision of these General Conditions and any later, actual date of *Substantial Performance of the Work* achieved by the *Contractor*.

6.5.7 The *Contactor* shall be responsible for the care, maintenance, and protection of the *Work*, in the event of a suspension or delay in the performance of the *Work*, regardless of the reason."

GC 6.6 CLAIMS FOR A CHANGE IN CONTRACT PRICE

Amend paragraph 6.6.5 by deleting the word "claim" in the second line and replacing with "necessary claim information".

Add new paragraph 6.6.7 as follows:

"6.6.7 The *Owner* may make claims arising out of the costs incurred for additional services provided by the *Consultant* resulting from the *Contractor's* failure to perform the *Work* in accordance with the terms and conditions of the *Contract*. Before the Owner makes a claim arising out of issuance of requests for information. The *Consultant* will notify the *Owner* and *Contractor* where it has been determined that additional services will be required or have been provided in order not to cause a delay. The *Owner* shall make claims against the Contractor based on the *Consultant's* invoices."

GC 7.1 OWNER'S RIGHT TO PERFORM THE WORK, TERMINATE THE CONTRACTOR'S RIGHT TO CONTINUE WITH THE WORK OR TERMINATE THE CONTRACT

Amend paragraph 7.1.2 by (a) delete the words "and if the *Consultant* has given a written statement to the *Owner* and *Contractor* which provides the detail of such neglect to perform the *Work* properly or such failure to comply with the requirements of the *Contractor* to a substantial degree", and (b) deleting the words "including references to applicable provisions of the *Contract*".

Delete paragraph 7.1.3.2 and replace with the following: "provides the *Owner* with a schedule acceptable to the *Owner*, acting reasonably, for such correction".

Delete paragraph 7.1.5.2 and replace with the following:

"7.1.5.2 withhold further payment to the *Contractor* until the *Owner* has completed all *Work* required by the *Contract Documents* and satisfied any of its costs or damages resulting from the *Contractor's* default; and"

Amend paragraph 7.1.5.3 by deleting the words "as certified by the *Consultant*" in the first line.

Add new paragraph 7.1.7 as follows:

"7.1.7 *Owner* may terminate the *Contract* at any time and for any reason upon providing the *Contractor* with at least thirty (30) calendar days prior written notice. In such event, *Owner* shall pay for the *Work* performed up to the effective date of termination and for any additional, verifiable, direct costs related directly to such termination which are an ordinary and reasonable consequence of the termination. *Owner* shall not be liable to *Contractor* for any other costs or damages whatsoever arising from such early termination of the *Contract*, including, without limitation, any indirect, consequential, or special damages, including, without limitation, loss of profits, loss of revenue, or loss of opportunity."

GC 7.2 CONTRACTOR'S RIGHT TO SUSPEND THE WORK OR TERMINATE THE CONTRACT

Delete paragraph 7.2.2 and replace with the following:

> "If the entirety of the *Work* is stopped or otherwise suspended for a period of sixty (60) calendar days or more under an order of a court or other *Governmental Authority* as the result of an act or default of the *Owner* or anyone employed or engaged by the *Owner*, the *Contractor* may, without prejudice to any other right or remedy that the *Contractor* may have, by giving the *Owner Notice in Writing*, terminate the *Contract*. This provision shall not apply, and the *Contractor* shall have no right to terminate this *Contract* pursuant to this GC 7.2.2, if the stoppage or suspension has ceased prior to the giving of the *Notice in Writing*."

Delete paragraph 7.2.3.1 in its entirety and replace with "Intentionally deleted".

Delete from subparagraph 7.2.3.4, the words, "except for GC 5.1 – FINANCING INFORMATION REQUIRED OF THE OWNER".

Amend paragraph 7.2.4 by deleting "5" and substitute "15".

Amend paragraph 7.2.5 by (a) deleting the words "reasonable profit" in line 2, (b) deleting the word "damages" in line 3 and substituting the words "direct damages", and (c) deleting the period at the end of the paragraph and replacing it with a comma and adding the following words: "but excluding any special, indirect or consequential losses or damages, including but not limited to, loss of use, loss of productivity, loss of revenue, overhead and/or profit".

Add new paragraph 7.2.6 as follows:

> "7.2.6 The *Owner's* withholding of progress payments, holdback payment and/or final payments pursuant to GC 5.8 shall not constitute a default under GC 7.2.3 permitting the *Contractor* to stop the *Work* or terminate the *Contract*."

GC 8.3 NEGOTIATION, MEDIATION AND ARBITRATION

Delete paragraph 8.3.6 in its entirety and replace with the following:

> "8.3.6 If mediated negotiations are terminated, pursuant to the provisions in GC 8.2.5, either party may refer an unresolved dispute to the courts having jurisdiction over the dispute. Alternatively, if both parties consent, a dispute may be submitted to arbitration in accordance with rules and terms to be agreed upon by the *Owner* and *Contractor.*"

Delete paragraph 8.3.7 in its entirety and replace with "Intentionally deleted".

GC 8.4 RETENTION OF RIGHTS

Add new paragraph 8.4.3 as follows:

> "8.4.3 If the *Owner* elects to have a dispute resolved by arbitration, the *Contractor* agrees that this paragraph 8.4.3 shall be construed as a formal consent to the stay of any lien proceedings until an award is rendered in the arbitration or such dispute is otherwise resolved between the parties; provided, however, that in no event shall the *Contractor*

be deprived of its right to enforce its lien against the *Project* should the *Owner* fail to satisfy any arbitral award. For greater certainty, nothing in this paragraph 8.4.3 shall prevent the *Contractor* from taking the steps required by the *Construction Act* to preserve and/or perfect a lien to which it may be entitled."

GC 9.1 PROTECTION OF WORK AND PROPERTY

Delete paragraph 9.1.1.1 in its entirety and replace with the following:

"9.1.1.1 errors or omissions in the *Contract Documents* which the *Contractor* could not have discovered applying the standard of care described in paragraph 1.5.1;"

Delete paragraph 9.1.2 in its entirety and replace with the following:

"9.1.2 Before commencing any *Work*, the *Contractor* shall determine the locations of all underground utilities and structures indicated in or reasonably determinable from the *Contract Documents* or that are discoverable by applying to an inspection of the *Place of the Work* the degree of care and skill described in paragraph 1.5.1."

Add new paragraph 9.1.5 as follows:

"9.1.5 The *Contractor* shall neither undertake to repair and/or replace any damage whatsoever to the *Work* of other contractors, or to adjoining property, nor acknowledge the same was caused or occasioned by the *Contractor*, without first consulting the *Owner* and receiving written instructions as to the course of action to be followed from either the *Owner* or the *Consultant*. However, where there is danger to life or public safety, the *Contractor* shall take such emergency action as it deems necessary to remove the danger."

GC 9.2 TOXIC AND HAZARDOUS SUBSTANCES

Amend paragraph 9.2.6 by adding the following after the word "responsible":

"or whether any toxic or *Hazardous Substances* or materials already at the *Place of the Work* (and which were then harmless or stored, contained or otherwise dealt with in accordance with legal and regulatory requirements) were dealt with by the *Contractor* or anyone for whom the *Contractor* is responsible in a manner which does not comply with legal and regulatory requirements, or which threatens human health and safety or the environment, or material damage to the property of the *Owner* or others,"

Amend paragraph 9.2.7 by adding the following after "is responsible":

"or that any toxic or *Hazardous Substances* or materials already at the *Place of the Work* prior to the Contractor commencing the Work (and which were then harmless or stored, contained or otherwise dealt with in accordance with legal and regulatory requirements) were dealt with by the *Contractor* or anyone for whom the *Contractor* is responsible in a manner which does comply with legal and regulatory requirements,".

Amend paragraph 9.2.8 by adding the following after the word "responsible":

"or that any toxic or *Hazardous Substances* or materials already at the *Place of the Work* prior to the Contractor commencing the *Work* (and which were then harmless or stored, contained or otherwise dealt with in accordance with legal and regulatory requirements) were dealt with by the *Contractor* or anyone for whom the *Contractor* is responsible in a manner which does not comply with legal and regulatory requirements, or which threatens human health and safety or the environment, or material damage to the property of the *Owner* or others,"

Amend paragraph 9.2.8.3 by adding ", including cost incurred" after the word "incurred".

Amend paragraph 9.2.8.4 by adding the words "and the *Consultant*" after the word *"Owner"*.

Add new paragraph 9.2.10 as follows:

"9.2.10 *Contractor* shall indemnify and hold harmless *Owner*, *Owner's* other contractors and suppliers, and their agents and employees, from and against claims and demands, losses, costs, damage, actions, suits, or proceedings arising out of or resulting from exposure to, or the presence of, toxic or hazardous substances or materials which were brought onto or made at the *Place of the Work* by *Contractor*, its *Subcontractors, Suppliers*, employees, agents or representatives after *Contractor* commenced the *Work*. This obligation shall not be construed to negate, abridge, or reduce other rights or obligations of indemnity set out in GC 13.1 INDEMNIFICATION or which otherwise exist respecting a person or party described in this paragraph."

GC 9.4 CONSTRUCTION SAFETY

Delete paragraphs 9.4.1 to 9.4.7 in their entirety and replace with the following:

"9.4.1 The *Contractor* shall be solely responsible for construction safety at the *Place of the Work* and for compliance by it and its *Subcontractors* and *Suppliers* with the applicable construction health and safety legislation. The *Contractor* shall be responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the performance of the *Work*. The *Contractor* hereby accepts the designation of "constructor" or "prime contractor" as defined in the health and safety legislation applicable to the *Place of the Work*, and responsibility for the obligations and liabilities associated therewith."

9.4.2 Prior to the commencement of the *Work*, the *Contractor* shall submit to the *Owne*r:

.1 a workplace safety and insurance certificate applicable to the *Place of the Work*;

.2 copies of the *Contractor's* insurance policies having application to the *Project* or certificates of insurance, at the option of the *Owner*; and

.3 documentation of the *Contractor's* in-house safety-related programs.

9.4.3 The *Contractor* hereby represents and warrants to the *Owner* that appropriate health and safety instruction and training has been provided, and/or will be provided, to the *Contractor's* employees and *Subcontractors*, *Suppliers* and any one for whom the

Contractor is responsible, before the *Work* is commenced and agrees to provide to the *Owner*, if requested, proof of such instruction and training.

9.4.4 The *Contractor* shall ensure all of the *Work* is performed in a safe manner. Without limiting the generality of the foregoing, the *Contractor* shall ensure that all of its employees and *Subcontractor*s are fully acquainted and comply with the *Contractor's* health and safety requirements, policies and procedures, and all the applicable laws, statutes and regulations. In addition, the *Contractor* shall ensure that all its employees and *Subcontractors* are, and remain, in full compliance with the applicable safety requirements prior to the commencement of the work and at all times during which the *Work* is performed.

9.4.5 The *Contractor* shall indemnify and save harmless the *Owner*, the *Consultant* and their respective agents, officers, directors, employees, consultants, successors and assigns from and against the consequences of any and all safety infractions committed by the *Contractor* or those for whom the *Contractor* is responsible, including the payment of legal fees and disbursements on a solicitor and client basis.

9.4.6 In the event that the *Owner* engages other contractors at the *Place of the Work* or performs work with its own forces, the *Owner* shall require such other contractors and is own forces to comply with directions and instructions of the *Contractor* in respect to health and safety and related matters at the *Place of the Work*."

GC 9.5 MOULD

Amend paragraph 9.5.2.3 by adding the following words "and any other costs and expenses reasonably incurred by the *Owner* in respect of the presence of such mould," after the words "paragraph 9.5.1.3,"

Amend paragraph 9.5.2.4 by adding the words "and the *Consultant*" after the word "*Owner*".

Delete paragraph 9.5.3.3 in its entirety and replace with the following:

"9.5.3.3 extend the *Contract Time* for such reasonable time as the *Consultant* may recommend in consultation with the *Contractor*. If, in the opinion of the *Consultant*, the *Contractor* has been delayed in performing the *Work* and/or has incurred additional costs under paragraph 9.5.1.2, the *Owner* shall reimburse the *Contractor* for its reasonable costs incurred as a result of the delay as certified by the *Consultant*, and"

GC 10.1 TAXES AND DUTIES

Add new paragraph 10.1.3 as follows:

"10.1.3 The *Owner* shall be entitled to all available refunds or rebates of all taxes and custom duties applicable to the *Contract,* and the *Contractor* shall cooperate with the *Owner* in ascertaining the amount of such tax and custom duties and, if necessary, claim on

its own behalf and transfer to the *Owner* or facilitate a direct claim by the *Owner* for any such available refund or rebate."

GC 10.2 LAWS, NOTICES, PERMITS, AND FEES

Amend paragraph 10.2.3 by adding the following to the end of paragraph: "The *Contactor* shall be responsible for the procurement and payment of construction deposits levied by the municipality in connection with the issuance of a building permit".

GC 11.1 INSURANCE

Delete paragraph 11.1.3 in its entirety and substitute the following: "The *Contractor* shall be solely responsible for any deductible amounts under the required policies of insurance."

GC 11.2 CONTRACT SECURITY

Add new GC 11.2 CONTRACT SECURITY as follows:

"**GC 11.2 CONTRACT SECURITY**

11.2.1 If required by the *Contract Documents*, the *Contractor* shall deliver to the *Owner* prior to the commencement of the *Work* a performance bond and a labour and material payment bond each in the amount of fifty percent (50%) of the *Contract Price*. The form of such bonds shall be in accordance with the latest edition of the CCDC approved bond forms.

11.2.2 Such bonds shall be issued by a duly licensed surety company authorized to transact business of suretyship in the province or territory in the *Place of the Work* and shall be maintained in good standing until the fulfillment of the *Contract*."

GC 12.1 READY-FOR-TAKEOVER

Amend paragraph 12.1.2 by deleting "paragraphs 12.1.1.3 to" and replacing with "paragraph".

Amend paragraph 12.1.4 by (a) deleting the words "and will" in the first line, and (b) deleting "10 calendar days" and replacing with "fifteen (15) *Working Days*, or such longer period as may be reasonably required in the circumstances".

GC 12.2 EARLY OCCUPANCY BY THE OWNER

Delete paragraphs 12.2.1 to 12.2.4 in their entirety and replace with the following:

"12.2.1 The *Owner* shall have the right to enter or occupy the *Work* in whole or in part for the purpose of placing fittings and equipment or for other uses before *Substantial Performance of the Work*, if, in the opinion of the *Consultant* and *Owner*, such entry or occupation does not prevent or substantially interfere with the *Contractor* in completion of the *Contract* within the *Contract Time*. Such entry or occupation shall not be considered as acceptance of the *Work* or in any way relieve the *Contractor* from responsibility to complete the *Contract* or its obligations under the *Contract*.

12.2.2 The use or occupancy of the *Work* or any part thereof by the *Owner* shall not be taken

in any manner as an acceptance by the *Owner* of any work or any other part or parts of the *Work* or *Products* not in accordance with the *Contract Documents* or to relieve the *Contractor* or its surety from liability in respect of the observance or performance of the *Contract* save to the extent that loss or damage is caused during such use or occupancy by the *Owner* or by persons for whom the *Owner* is responsible. In particular, without limiting the generality of the foregoing, the use or occupancy of the *Work* or any part thereof by the *Owner* shall not release the *Contract*or from liability, or waive or impair any rights of the *Owner*."

GC 12.3 WARRANTY

Amend paragraph 12.3.6 by adding ", unless otherwise required by the *Contract Documents*" to the end of the third sentence.

Add new paragraphs 12.3.7 to 12.3.9 as follows:

"12.3.7 Within thirty (30) calendar days prior to the expiry of the warranty period, the Owner, with the involvement and participation of the Contractor shall carry out a detailed and exhaustive inspection of the Work for the purpose of establishing a final deficiency list (the "Warranty Punch List"). The Contractor shall promptly correct, at the Contractor's expense, any and all defects and deficiencies in the Work noted in the Warranty Punch List.

12.3.8 The *Contractor* shall, upon receiving notice of any defect or deficiency in the *Work*, commence the correction of such defect or deficiency within five (5) *Working Days* (or as otherwise agreed with the *Owner*) at such times that are convenient to the *Owner* except that, if any such defect or deficiency is of a nature which prevents or hinders, or is likely to prevent or hinder, resident or patient care, comfort or safety, or any life safety, security or other material building system, such correction shall be carried out immediately. The correction of all defects and deficiencies shall be carried out in a manner to minimize any interference or disruption to resident or patient care, comfort and safety. If the correction of any defect or deficiency is likely to disrupt or interfere with the tenant's comfort, safety or any life safety, security or other material building system, the *Owner* shall be entitled to affect any temporary corrective action as the *Owner* shall deem appropriate and charge the cost thereof to the *Contractor*.

12.3.9 Prior to the application for final payment under GC 5.7.1, the *Contractor* shall assign to the *Owner* the benefit of all guarantees and warranties for all *Products* and services used or incorporated in the *Work, as required by the Contract Documents,* and shall ensure that such an assignment is also affected by all *Subcontractors* and/or *Suppliers* from whom the same have been obtained."

GC 13.1 INDEMNIFICATION

Delete paragraph 13.1.1 in its entirety and substitute the following:

"13.1.1 The *Contractor* shall indemnify and hold harmless the *Owner*~~, the *Consultant*~~ and its~~their respective~~officers, directors, agents and employees (the "*Owner Parties*") from and against claims, demands, losses, costs, damages, actions, suits, or proceedings

whether in respect to losses suffered by them or in respect of claims by third parties that arise out of, or are attributable to, the *Contractor's* performance of the *Work* or anyone for whose acts the *Contractor* may be liable including *Subcontractor* and Suppliers. The *Contractor's* obligation to indemnify under this GC 13.1.1 shall be limited as follows:

(a) in respect of losses suffered by the *Owner Parties* for which insurance is to be provided by the *Contractor* under this Contract, the obligation to indemnify shall be limited to the amounts of such insurance,

(b) in respect of losses suffered by the *Owner Parties* for which insurance is not required or is insufficient, the obligation to indemnify shall be limited to the *Contract Price*, as may be amended, and

(c) in respect of indemnification respecting claims by third parties, the obligation shall have no limit.

Delete paragraph 13.1.2 in its entirety and substitute the following:

"13.1.2 The *Owner* shall indemnify and hold harmless the *Contractor*, the *Contractor*'s agents and employees from and against claims, demands, losses, costs, damages, actions, suits, or proceedings arising out of the *Contractor*'s performance of the *Contract* which are attributable to a lack of or defect in title or an alleged lack of or defect in title to the *Place of the Work*."

Delete paragraph 13.1.5 in its entirety and replace with "Intentionally deleted".

Add new paragraph 13.1.7 as follows:

"13.1.7 *Owner* shall not be liable in any circumstance for loss of profit, loss of productivity, loss of profit, or business shutdown or indirect, consequential or punitive damages, whether such liability arises in contract, tort, indemnity or on any other basis whatsoever."

GC 13.2 WAIVER OF CLAIMS

Delete paragraphs 13.2.3, 13.2.4, 13.2.5 and 13.2.10 and replace with "Intentionally deleted."

PART 14 OTHER PROVISIONS

Add new PART 14 - OTHER PROVISIONS as follows:

"**PART 14 – OTHER PROVISIONS**

GC 14.1 OWNERSHIP OF MATERIALS

14.1.1 Unless otherwise specified, all materials existing at the *Place of the Work* at the time of execution of the *Contract* shall remain the property of the *Owner*. All *Work* and *Products* delivered to the *Place of the Work* by the *Contractor* shall be the property of the *Owner*. The *Contractor* shall remove all surplus or rejected materials as its property when notified in writing to do so by the *Consultant*.

GC 14.2 CONSTRUCTION LIENS

14.2.1 *Contractor* shall ensure that *Owner's* title to the *Place of the Work* and *Project* are kept free and clear of all construction liens and certificates of action claimed by any person providing services and/or materials to *Contractor* for the *Project*. For greater certainty, this GC 14.2 shall not apply to construction liens or certificates of action that arise as a direct result of the failure by *Owner* to pay *Contractor* amounts properly due in accordance with the terms of this *Contract*.

14.2.2 If a claim for lien or certificate of action arising from the performance of the *Work* is registered against the *Project* or the *Place of the Work*, or given to the *Owner*, the *Contractor* shall, within ten (10) *Working Days* of becoming aware of such claim for lien or certificate of action, at *Contractor's* expense, vacate, discharge, or remove the claim for lien and/or certificate of action from title to the *Place of the Work*.

14.2.3 If a written notice of a lien arising from the performance of the *Work* is given to the *Owner*, the *Contractor* shall, within ten (10) *Working Days* of becoming aware of such lien, at its expense, vacate or arrange for the withdrawal of the written notice of a lien.

14.2.4 If the *Contractor* fails or refuses to vacate or discharge a claim for lien or certificate of action or fails or refuses to vacate or arrange for the withdrawal of a written notice of a lien, within the time prescribed in paragraphs 14.2.2 and 14.2.3 (as applicable), the *Owner* shall, at its option, be entitled to take all steps necessary to vacate, discharge, and/or have withdrawn, the claim for lien, certificate of action, and/or written notice of a lien and all costs and expenses incurred by the *Owner* in doing so (including, without limitation, all legal fees on a full indemnity basis and any payment which may ultimately be made out of or pursuant to security posted to vacate the claim for lien, certificate of action, or written notice of a lien) shall be for the account of the *Contractor*, and the *Owner* may deduct such amounts from the amounts otherwise due or owing to the *Contractor* and/or claim as damages.

GC 14.3 DAILY REPORTS/DAILY LOGS

14.3.1 The *Contractor* shall cause its supervisor, or such competent person as it may delegate, to prepare a daily log or diary reporting on weather conditions, work force of the *Contractor*, *Subcontractors*, *Suppliers,* and any other forces on site and also record the general nature of *Project* activities (the "**Daily Log**"). The *Daily Log* shall also include any extraordinary or emergency events which may occur and also the identities of any persons who visit the site who are not part of the day-to-day work force.

14.3.2 The *Contractor* shall also maintain records, either at its head office or at the job site, recording manpower and material resourcing on the *Project*, including records which document the activities of the *Contractor* in connection with GC 3.4, and comparing that resourcing to the resourcing anticipated when the most recent version of the schedule was prepared pursuant to GC 3.4. *Contractor* shall make these records available to *Owner*, upon request of *Owner*.

14.3.3 The *Contractor* shall submit a copy of the Daily Log to the *Owner* at the end of each calendar week and/or at other times upon the request of the *Owner*.

GC 14.4 INTERRUPTION OF UTILITIES

14.4.1 With respect to any interruption of existing utilities that provide services to the *Owner*:

.1 The *Contractor* will give a minimum of ten (10) calendar days (or such longer period as the *Owner* shall reasonably require) advance written notice to the *Owner* and obtain written authorization from the *Owner's Project* representative prior to any interruption of existing services including, but not limited to, water, sewer, gas, medical gas systems, sprinklers, HVAC, power and electric, fire alarms, communication and security systems. The *Owner* may order the *Contractor* to stop the *Work* at any time due to emergency conditions and require required services to restart. The *Owner* may also order the *Contractor* to stop the *Work* at any time if any aspect of the *Work* affects or threatens to affect the continuous operation of the *Owner's* facilities and operations.

.2 The *Owner* will cooperate with the *Contractor*, at no cost to the *Contractor*, in the shut down of services as is necessary to allow the *Contractor* to modify existing services and to perform the *Work*. If, however, as a result of defective materials or workmanship it is necessary for any shutdowns to be repeated, any additional costs incurred by the *Owner*, including the cost of labour provided by the *Owner*, to repeat the shutdown and then re-connect the service, will be paid by the *Contractor*.

.3 The *Contractor* shall take measures to avoid triggering false alarms, including fire or security alarms, and will pay for any municipal costs charged to the *Owner* as a result of false alarms.

.4 The *Contractor* shall provide the necessary coverage as required by applicable *Governmental Authorities* in the event of the loss of or lack of coverage of life safety systems.

.5 The *Contractor* shall make service connections or modifications outside of normal working hours, or will provide temporary service connections, if such connections or modifications cannot be undertaken safely during normal working hours, or if such work would cause interruptions and interference with the *Owner's* normal business operations that are unacceptable to the *Owner*.

.6 The *Contractor* will carry out all final connections to existing operational systems under the direct supervision and as directed by the *Owner's* operational staff or authorized agent.

GC 14.5 HOSPITAL RELATED PROVISIONS

14.5.1 The *Contractor* acknowledges that the security and safety of the patients, employees and other occupants of the existing *Hospital* is paramount. If any of the employees of the *Contractor* or the *Subcontractor*s is determined by the *Owner* to be a concern for the security or safety of such patients, employees or occupants, the *Owner* may require that the *Contractor* replace such employee.

14.5.2 Notwithstanding any other provision in the *Contract*, paramountcy of access must be given to emergency and police vehicles and no claim may be made by the *Contractor*

for any delay in the performance of the *Work* as a result of any temporary lack of access to the *Place of the Work* resulting from this paramountcy of access by emergency and police vehicles, provided that the *Owner* will use commercially reasonable efforts to avoid and to limit the duration of any temporary lack of access for this reason.

14.5.3 The *Owner* has the authority, but without the obligation, to stop the *Work* in any circumstance affecting the safety of life or property or which otherwise may cause an unsafe condition for the operation of the existing *Hospital*. The *Contractor* shall abide by the *Owner*'s instructions to stop the *Work* without any extension in the *Contract Time* if such circumstance was caused by the *Contractor*, *Subcontractors* or *Suppliers*."

Section revised by Addendum No.3

PART 1 - GENERAL

1.1 General

.1 Name of *Owner*: Guelph General Hospital.

.2 *Bidder*: is defined as the company submitting a bid to the *Owner* in response to the *Owner's* invitation to bid.

1.2 The *Bid Documents*

.1 The *Bid Documents* shall be defined as comprising the following documents:

.1 Section 00 21 13 Instructions to *Bidders*.

.2 Section 00 31 00 Information Available for Review.

.3 Section 00 41 13 Stipulated Price Bid Form.

.4 Addenda issued prior to *Bid Closing Time*.

.5 Agreement between *Owner* and *Contractor* in the form of CCDC 2 - 2020.

.6 Definitions given in CCDC 2 - 2020.

.7 General Conditions of CCDC 2 - 2020.

.8 Supplementary Conditions to CCDC 2 - 2020.

.9 Specifications as listed in Section 00 01 10 of the project manual for this project.

.10 Schedules as listed in Section 00 01 10 of the project manual and as listed in the list of drawings.

.11 Drawings as listed in the list of drawings given on Drawings Title Page.

1.3 The *Contract Documents*

.1 The *Contract Documents* shall be defined as comprising the following documents:

.1 Addenda.

.2 Agreement between *Owner* and *Contractor* in the form of CCDC 2 - 2020.

.3 Definitions given in CCDC 2 - 2020.

.4 General Conditions of CCDC 2 - 2020.

.5 Supplementary Conditions to CCDC 2 - 2020.

.6 Specifications as listed in Section 00 01 10 of the project manual for this project.

.7 Schedules as listed in Section 00 01 10 of the project manual and as listed in the list of drawings.

.8 Drawings as listed in the list of drawings given on Drawings Title Page.

Section revised by Addendum No.3

1.4 Electronic Bid Submission

.1 Electronic Submission Protocol:

.1 Submit one (1) electronic copy of Bid via Bonfire.

.2 Bids sent by any other electronic or physical means shall not be considered.

.3 Directions for electronic Bid Submission are included with the invitation to Bid; follow instructions on the Portal.

.2 *Bid Closing Time*:

.1 The *Bid Closing Time* is defined as the time and date before which bids shall be received by the *Owner*, namely:

.1 Before 2:00 pm local time, as determined by the clock located in location for receiving bids on July ~~11~~16, 2024. [Revised by Addendum No.3]

.2 Any bid received at 2:00 pm local time on July ~~11~~16, 2024 will be declared a bid received after the *Bid Closing Time*. [Revised by Addendum No.3]

.3 Any bid received after 2:00 pm local time on July ~~11~~16, 2024 will be declared a bid received after the *Bid Closing Time*. [Revised by Addendum No.3]

.3 It is Bidders responsibility to ensure that the *Owner* received their electronically transmitted Bid before *Bid Closing Time*.

1.5 Bid Opening Meeting

.1 A bid opening meeting will be held following the stage 1 evaluation.

.2 Bid opening meeting will be virtual. Bidders must provide email address to send bid opening meeting invite. Meeting invite will be sent to email address provided in bid form.

.3 Virtual bid opening meeting invite will only be sent to bidders who have met the mandatory requirements and met or exceeded the minimum prescribed technical score.

.4 The names of the *Bidders*, the bid prices and confirmation of receipt of required bid securities will be announced. Bid opening information will be recorded and distributed to *Bidders* not in attendance.

1.6 Bid Submission Requirements

.1 Bids must be received by the *Owner* before the *Bid Closing Time*.

.2 Bids must be submitted on Section 00 41 13. Fill-in blanks on such documents and forms.

.3 The *Bidder* shall present the bid price in figures.

.1 The stipulated bid price shall include the cost of all *Products*, materials, labour, equipment, delivery, storage, handling, statutory charges, overhead and profit, other related charges, and inclusive of all duties and taxes applicable, except *Value Added Taxes*, and all other charges on account of such work, measured complete in place for all parts of the *Work*.

.4 Documents and forms submitted must be legible, written in ink or typewritten, and all items must be bid. Any form of erasure, strikeout, or overwriting must be initialled by the *Bidder's* authorized signing officer.

.5 Bids submitted must be signed and sealed. Incorporated companies shall affix their corporate seal and have bid signed by their duly authorized officers.

.6 Bids must not be restricted by a covering letter, a statement added, or by alterations not called for.

.7 Each bid shall include a completed Section 00 41 13, as required, a bid bond, and an agreement to bond, as required herein, together with any bid form supplements that *Bidder* is instructed elsewhere herein, or in any addendum hereto, to submit with its bid.

.8 In no event will the *Owner* be responsible for any costs incurred by anyone in the preparation and/or submission of a bid.

.9 By submitting a bid, a *Bidder* agrees to each and every of the terms, provisions and conditions set out in the *Bid Documents*.

1.7 Notification of Intent Not to Submit a Bid

.1 Prospective Bidders who have received Bid Document, but do not intend to submit a Bid, are requested to notify *Consultant*, no later than 24 hours prior to *Bid Closing Time*.

1.8 Withdrawal of Bids Prior to *Bid Closing Time*

.1 A *Bidder* who has submitted a bid may request that its bid be withdrawn.

.1 The withdrawal shall be allowed if request is made before the *Bid Closing Time*. Withdrawal requests must be directed to the *Bid* Coordinator by email, to the attention of:

.1 Lucy Wojcik at lwojcik@gghorg.ca.

.2 Authenticity of the withdrawal request must be confirmed by a responsible official of the *Bidder* who will be contacted at the time of bid withdrawal by the *Owner*.

.3 Where a bid withdrawal request is received and confirmed for a bid that has already been received by the *Owner*, the bid so withdrawn will be returned unopened to the *Bidder* after the bid opening, together with copies of the withdrawal request and confirmation. At the bid opening, such bids shall be announced as withdrawn and shall not be opened.

1.9 *Bidder* Inquiries and Issuance of Addenda

.1 *Bidder* Inquiries are to be submitted via Bonfire.

.2 The *Owner* and *Consultant* will be responsible for clarifications of *Bid Documents* only as incorporated into addenda as issued to holders of *Bid Documents* on record at the offices of the *Owner*.

.3 Questions received later than 5:00 pm, local time, on July ~~2~~8, 2024 may not be answered by addenda. [Revised by Addendum No.3]

.4 Addenda will be issued no later than 5:00 pm, local time, on July ~~4~~10, 2024. [Revised by Addendum No.3]

.5 *Bidders* shall notify *Consultant*, in writing prior to *Bid Closing Time*, of the following:

.1 Discrepancies or omissions found in the *Bid Documents*.

.2 Clarifications required regarding the meaning of requirements contained in the *Bid Documents*.

.6 The *Consultant* may issue written addenda to registered holders of the *Bid Documents*.

.7 Where apparent discrepancies are identified by *Bidders* among the various parts of the *Bid Documents*, and in the absence of addenda addressing such apparent discrepancies, *Bidders* shall allow for the greater amount of labour required and/or materials referred to, including increased bonding and insurance requirements, as applicable, when preparing their bid.

1.10 Bonding Requirements

.1 Bonds shall be issued by a bonding company acceptable to *Owner* and licensed to issue such instruments in the Province of Ontario.

.2 Bid Bond:

.1 Each *Bidder* shall submit with its bid a bid bond, in the form of CCDC 220 in an amount equal to not less than 10% of the bid price, and naming the *Owner* as the Obligee.

.2 The bid bond shall be valid for *Bid Acceptance Period*.

.3 The bid bonds, with the exception of those of the *Bidders* submitting the two most appropriate bids, in the *Owner's* absolute discretion, will be returned within 10 *Working Days* after the *Bid Closing Time*.

.4 The bid bonds of the *Bidders* submitting, in the *Owner's* sole and absolute discretion, the two most appropriate bids will be returned when the *Bidder* to whom the *Owner* has issued the notification of conditional award of the *Contract* described later in this section, has fully complied with the conditions pertaining to *Contract* award described in the *Bid Documents* and the notification of conditional award of the *Contract*. If the *Bidder* so notified refuses or neglects to comply with the said conditions, the *Owner* may, at its sole discretion, claim against the bid bond, and the bid bond shall be subject to forfeiture, not as penalty, but as liquidated damages sustained. The *Owner* shall then have the right to award the *Contract* to the *Bidder* submitting, in the *Owner's* sole and absolute discretion, the next most appropriate bid, or to re-offer the invitation to submit bids.

.3 Agreement to Bond:

.1 Each *Bidder* shall submit with its bid an agreement to bond issued by a bonding company acceptable to *Owner* and licensed to issue such instruments in the Province of Ontario, obliging bonding company to issue a performance bond and a labour and material payment bond, each naming the *Owner* as the Obligee, in the amounts and in the forms as follows:

.1 Performance bond:

.1 Amount: 50% of the bid price.

.2 Form: CCDC 221 Performance Bond.

.2 Labour and material payment bond:

.1 Amount: 50% of the bid price.

.2 Form: CCDC 222 Labour and Material Payment Bond.

.2 The agreement to bond shall be valid for *Bid Acceptance Period*.

.4 Costs for bonds are included in the stipulated price bid.

1.11 The *Bid Acceptance Period*

.1 The *Bid Acceptance Period* is defined as a period of up to, and including, 90 days, commencing at the *Bid Closing Time*, during which bids shall be irrevocable and open to acceptance by *Owner*.

1.12 Mandatory Pre-Bid Meeting

.1 *Bidders* are required to attend a meeting for holders of *Bid Documents* on record at 12 pm on June 18, 2024, at the *Place of the Work*. *Bidder* attendance at this meeting is mandatory.

.2 *Bidder's* representatives attending the pre-bid meeting shall include the *Bidder's* project manager and estimator. *Bidder's* may also invite their mechanical and electrical subcontractors.

.3 Bids submitted by *Bidders* not attending this mandatory meeting may be declared non-compliant and rejected.

1.13 *Bid Documents* Availability

.1 *Bidders* (*Contractor*) will be supplied with an electronic copy of *Bid Documents*, at no charge. *Bid Documents* will be available online through Bonfire.

.2 *Bid Documents* have also been placed on display for benefit of *Suppliers* and *Subcontractors* at the following offices:

.1 Grand Valley Construction Association.

.2 Hamilton-Halton Construction Association.

.3 London & District Construction Association.

.4 Niagara Construction Association.

.5 Toronto Construction Association.

1.14 Completion Time

.1 *Bidders* shall state the completion time in the space provided in Section 00 41 13. The completion time shall be stated as the number of weeks within which the *Bidder* proposes to complete the *Work* from notification of conditional award of the *Contract* to the *Bidder* by the *Owner*. The completion time stated by the *Bidder* shall form the basis of the *Contract Time*.

.1 The time stated by the *Bidder* will not be considered by the *Owner* in determining the most appropriate *Bidder*.

1.15 Examination of the *Bid Documents* and the *Place of the Work*

.1 It is the responsibility of the *Bidder* to examine the *Bid Documents* carefully and immediately upon receipt to verify that the set of *Bid Documents* that has been received by the *Bidder* is complete in all respects. Any omissions shall be brought to the attention of the *Consultant* following the procedures prescribed in this section (above) for *Bidder* inquiries.

.1 No payments for extra work will be allowed where such extra work is the result of the *Bidder* using an incomplete set of *Bid Documents* in the preparation of their *Bid*.

.2 *Bidders* shall examine the complete *Bid Documents* and shall also visit the *Place of the Work* and carefully examine conditions affecting the *Place of the Work* and work to be done thereon.

.3 It is the responsibility of the *Bidder* to make an estimate of the difficulties to be encountered in performing the *Work*. If investigative work is carried out at the *Place of the Work* by *Bidders*, *Bidders* undertaking such investigative work shall make good the *Place of the Work* to the condition that it was in before the investigation was made. The *Bidder* shall be responsible for damage and claims resulting from that investigation.

.4 The levels and other information provided in the *Bid Documents* are furnished in good faith for the use and guidance of the *Bidder* in the preparation of their bid, but shall in no way relieve the *Bidder* of the responsibility of ascertaining to their own satisfaction the nature of conditions existing at the *Place of the Work*.

.5 No payments for extra work will be allowed for conditions known, knowable, or reasonably inferable from a thorough examination of the *Bid Documents* or the *Place of the Work* prior to the *Bid Closing Time*.

1.16 Availability of *Products*

.1 *Products* that are specified by their proprietary names or by part or catalogue number form the basis of the *Contract*. No substitutes for such *Products* may be used without *Consultant's* prior acceptance in writing.

.2 Prior to submitting bid, *Bidders* shall review *Product* delivery requirements and anticipate foreseeable supply delays for any items. If delays in supply of *Products* are likely or possible, notify *Consultant* of such, in order that substitutions or other remedial action may be contemplated.

.3 In the event of failure to notify the *Consultant* prior to submitting bid of potential delays in supply of *Products*, and should it subsequently appear that the *Work* may be delayed for such reason, the *Consultant* reserves the right to substitute more readily available *Products* of similar character, at the *Contractor's* cost and at no additional cost to the *Owner*

1.17 *Bidder*'s Proposed Alternatives

.1 Submit bids for work only as indicated in the *Bid Documents*. Unsolicited alternatives may be proposed by *Bidder* during bid period. Submit *Bidder* proposed alternatives at least 10 *Working Days* prior to the *Bid Closing Time* to allow for review, and for incorporation into an addendum, if accepted.

.2 *Bidder* proposed alternatives submission requirements:

.1 Description of *Bidder* proposed alternatives, including detailed comparative specification of *Bidder* proposed alternatives with the specified *Product*.

.2 Manufacturer's *Product* data sheets for proposed *Products*.

.3 The *Owner* is under no obligation either to review or to accept *Bidder* proposed alternatives.

1.18 *Contractor's* Qualification Statement – CCDC 11

.1 As part of the *Bid* submission, submit proof, in the form of CCDC 11 - Contractor's Qualification Statement, of qualifications of *Contractor* to verify *Contractor's* qualifications and experience meet or exceed the requirements of the *Contract Documents*.

1.19 Award of *Contract*

.1 Bid evaluation:

.1 The evaluation process will be conducted by the Evaluation Team, which may obtain the assistance of consultants and advisors as it may deem appropriate. However, and notwithstanding anything else contained in the *Bid Documents*, the award of the *Contract*, if any, may be subject to the approval of the *Owner* in its sole and unfettered discretion.

.2 Bidders shall have no claims whatsoever against the *Owner* or any member of the Evaluation Team or the *Consultant* arising out of the *Owner's* exercise of its authority, and/or in the event the *Owner*, in its sole and unfettered discretion, and for any or no reason, decides not to award the *Contract*.

.3 Without limiting any of the other provisions of the *Bid Documents*, Bids will be evaluated and the successful Bidder will be selected based on a 3 stage evaluation:

Section revised by Addendum No.3

.1 STAGE 0: Bids will first be evaluated based on the Mandatory Requirements;

.2 STAGE 1: Bids will then be evaluated using the point-based evaluation method described below under Evaluation Criteria (STAGE 1). Only Bids which comply with all of the Mandatory Requirements will be evaluated using the points rated evaluation criteria and considered for an award of the *Contract*;

.3 STAGE 2: In the second instance, the Evaluation Team will select a subset of Bidders with the highest ranking Evaluation Scores under Evaluation Criteria (STAGE 1) for an assessment of their proposed Bid Prices.

.4 Subject to the other provisions of the *Bid Documents*, the successful Bidder will be the Bidder which submits the Bid with the best combination of Evaluation Score and Bid Price as determined by the Evaluation Team.

.4 Mandatory Requirements:

.1 Only Bidders which submit Bids which the Evaluation Team determines meet all of the mandatory requirements set out below on a “pass/fail” basis will be eligible to be considered for an award of the *Contract*. Mandatory requirements are as follows:

.1 The Bid includes the Base Bid Form, and any Supplementary Bid Forms.

.2 The Bid was submitted before bid closing time.

.3 Submit contact information including company name, address, phone number, and email address.

.4 The Bid includes a filled CCDC 11, 2019 form bearing the Bidder’s original signature as well as the appropriate CCDC seals.

.5 The Bid includes the Bidder’s most recent CAD 7 Calculations or Merit Adjustment Plan statements (whichever applies) issued by WSIB.

.6 The Bid includes the Bidder’s most recent certification in infection prevention and control as provided by CSA in the following courses: “Fundamentals of Infection Control During Construction, Renovation and Maintenance of Healthcare Facilities” AND “Effective Implementation and Practical Applications of Infection Control During Construction, Renovation and Maintenance of Health Care Facilities”

.7 The Bid includes a preliminary schedule outlining the Bidders proposed timeframe and strategy for performing the work.

.8 Where a mandatory site meeting was scheduled and held, the Bidder attended the mandatory site meeting, as verified by the Site Meeting Log.

.9 The Bid includes the Bid Performance and Security.

.10 The Bid does not contain any exceptions, revisions, conditions or other qualifications.

.11 The Bid substantially complies with the other requirements of the Bid Documents.

.12 The sub-contractor list for Civil, Mechanical, and Electrical has been provided.

.5 Evaluation Criteria (STAGE 1):

.1 Only Bids which meet all of the above mandatory requirements will be evaluated by the Evaluation Team and awarded points based on criteria set out below:

CRITERIA	POINTS AVILABLE
Profile and experience of bidder and evaluation from the CCDC 11, Appendices and Supplementary documentation.	40
Bidder Personnel proposed for the Work including subcontractors list in the Stipulated Price Bid Form. .	30
Financial capacity of Bidders as evaluated from the CCDC 11 form and appendix.	20
References	10
Maximum points available	**100**

.2 As few as zero (0) points will be awarded for each evaluation category; the maximum points available for each evaluation category are set out above.

.3 The total points awarded to a Bidder will be that Bidder's "Evaluation Score".

.6 Evaluation Criteria (STAGE 2):

.1 Bid form and Bid form supplements will be opened during bid opening upon completion of stage 1 requirements. Bids must contain the Base Bid Form, and any Supplementary Bid Forms, bearing the Bidder's original signature.

.2 Only Bids which have been selected under the STAGE 1 evaluation will be evaluated in STAGE 2 by the Evaluation Team and awarded points based on criteria set out below:

CRITERIA	POINTS AVILABLE
Bid price offered/Bid price as adjusted by the amount of any itemized, alternative prices(s) which the Owner, in its discretion, decides to accept.	90
Building Ontario Business Initiative (BOBI) evaluation.	10
Maximum points available	**100**

.3 Building Ontario Business Initiative (BOBI) will be considered when evaluating Bidders.

.7 The *Owner*, in its discretion, may:

.1 Only Bids which meet all of the above mandatory requirements will be evaluated by the Evaluation Team and awarded points based on criteria set out below:

.2 evaluate one or more of the Bids using the points-based evaluation criteria set out in herein above without regard to the Mandatory Requirements, and may award a *Contract* for the whole or any part of The *Work* to the Bidder which submitted the Bid with the highest Evaluation Score; and/or

.3 negotiate a *Contract* for the whole or any part of The *Work* with any Bidder; and/or

.4 take any action in accordance with *Owner's* Rights as noted herein.

.5 Evaluation Method:

.1 The lowest compliant Bid with minimum 70 points on the technical submission and meeting mandatory requirements shall be selected.

.2 *Contract* Award:

.1 Delivery by registered mail or common carrier, to the address given by the *Bidder* in its bid on Section 00 41 13, of notification of conditional award of the *Contract* to the *Bidder* by the *Owner* shall constitute acceptance of said bid and notice of award of the *Contract* by the *Owner* to the *Bidder* to the extent described by the notice of conditional award.

.2 It is intended that a *Contract* will be awarded within the *Bid Acceptance Period*. *Contract Documents* will be prepared by *Contractor* including the *Owner's* Supplement Requirements immediately following *Contract* award and are to be signed within 4 weeks of *Contract* award. *Contractor's* organization and mobilization at the *Place of the Work* may be permitted prior to signing of *Contract*.

.3 If *Bidder* has not been so notified within the *Bid Acceptance Period*, the *Bidder* may, unless *Bidder* has otherwise agreed or offered and except as otherwise provided herein, withdraw its bid without penalty, forfeiture, or obligation to the *Owner* or any kind.

.4 The *Bidder* accepts and agrees that, upon receipt of the notice of conditional award of *Contract*, the *Bidder* will comply with the conditions stipulated by the notice of conditional award of *Contract*.

.5 The *Bidder* accepts and agrees that, upon fulfillment to the satisfaction of the *Owner* of the above noted requirements, and any other conditions described by the notice of conditional award, the *Owner* will provide written authorization to the *Bidder* to commence the *Work* and that, upon receipt of such authorization, the *Bidder* will, within 10 *Working Days*, commence the *Work* actively at the *Place of the Work*.

.6 The form of *Contract* shall be CCDC 2 - 2020, as amended by Supplementary Conditions to CCDC 2 - 2020.

Section revised by Addendum No.3

1.20 Bonds and Insurance

.1 The *Bidder* shall submit to the *Owner*, within 7 days from the date of receipt of notice of conditional award of *Contract*, the performance and labour and material payment bonds, each in amounts and in the forms described above.

.2 The *Bidder* shall submit to the *Owner*, within 7 days from the date of receipt of notice of conditional award of *Contract*, proof that it has in place the various types of insurance as required by the *Contract*.

.3 Submission of the performance and labour and material payment bonds and proofs of insurance shall be a condition of the award of the *Contract* to the extent described in the notice of conditional award of *Contract* referenced above.

END OF SECTION

Information Available for Review

Section revised by Addendum No.3

1.1 Information Available for Review

.1 The following documents are made available for review:

.1 Asbestos abatement report:

.1 "Guelph General Hospital 2023 Asbestos Audit Report", dated October 27, 2023, prepared by MTE Consultants.

.2 Geotechnical investigation report:

.1 "Geotechnical Investigation and Limited Chemical Testing Program Guelph General Hospital, Emergency Entrance Addition 73 Delhi Street Guelph, Ontario", dated January 24, 2024, prepared by Peto MacCallum Ltd.

.3 *Owner*'s guidelines and policies:

.1 "Hospital-Wide Manual, Combine Policy and Procedure: Infection Prevention and Control during Construction, Renovation, and Maintenance", dated June 2017.

.2 <u>"Hospital-Wide Manual, Combine Policy and Procedure: Covid 19 Vaccination", dated September 2023. [Added by Addendum No.3]</u>

.4 *Owner*'s furniture fixtures & equipment list.

.2 The accuracy of the information contained in the above listed documents has not been independently verified by the *Consultant*.

END OF SECTION

Section revised by Addendum No.3

PART 1 - GENERAL

1.1 Summary

.1 Section includes:

.1 Sprayed foam insulation.

.2 Sprayed protective thermal barrier.

1.2 Administrative Requirements

.1 Coordination:

.1 Coordinate the work of this section with sections referencing this section.

.2 Coordinate with related work to allow for installation of required materials prior to spray insulation.

.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 sheets:

.1 Submit manufacturer's *Product* data sheets for *Products* proposed for use in the work of this section.

.3 Samples:

.1 Submit samples of all materials proposed for use in the work of this section.

.2 Submit duplicate 305 mm x 350 mm (12" x 12") samples of sheet membrane material.

.4 Applicator's certificate:

.1 Sprayed polyurethane foam (SPF) installer certificate: Submit name of SPF installer with copy of certification card verifying that the SPF installer is licensed by the source manufacturer.

.2 Submit sprayed foam applicator's certificate (produced by CUFCA or manufacturer) 2 weeks prior to commencing the work of this section.

1.4 Quality Assurance

.1 Qualifications:

.1 Applicators certificates and training:

.1 Application of insulation/air barrier system only by applicators certified by CUFCA/NECA (Canadian Urethane Foam Contractors Association/National Energy Conservation Association) or certified by the manufacturer of the system being installed for the installation of their system and have third party independent certification in accordance with the training requirements outlined in CAN/ULC S705.2-05.

Section revised by Addendum No.3

.2 Transition air barrier membrane shall be applied by applicator trained and approved by manufacturer for application of its products.

.3 Sprayed-applied foamed-in-place air barrier applicators shall have a minimum 5 years proven experience.

.2 Material manufacturer/distributor shall have an on-site quality assurance program. Submit three copies of quality assurance program upon request.

.2 Daily work sheets:

.1 Complete Daily Work Sheet as required by CAN/ULC S705.2-05. Submit a copy of completed Daily Work Sheets to *Consultant*. Submit copy of completed Daily Work Sheets to *Consultant* if requested.

1.5 On-Site Documentation

.1 Maintain a copy of the manufacturer's technical manual on site during application of polyurethane foam.

.2 Compile Daily Work Records chronologically and maintain on site during application.

1.6 Occupancy Requirements

.1 Occupancy: In accordance with CAN/ULC-S774, occupancy is only permitted following delivery of minimum 0.3 air changes per hour for 24 hours following installation.

PART 2 - PRODUCTS

2.1 Performance/Design Requirements

.1 Long Term Thermal Resistance LTTR: Tested by an independent laboratory in accordance with CAN/ULC S770-15(R2020) and achieving the required values at a minimum core density of 28.34 kg/m^3 (1.77lb/ft^3).

.2 Aged thermal resistance values based on test methods other than LTTR or at densities lower than specified will not be accepted.

.3 LTTR-values shall be based on density not less than minimum insitu density.

.4 Core density shall be confirmed by field testing.

.5 Products of this section shall be:

.1 Listed with Canadian Construction Materials Centre (CCMC) certifying product for use as insulation in accordance with the building code.

2.2 Materials

.1 Sprayed foam insulation:

.1 Sprayed polyurethane foam: To CAN/ULC S705.1-15, HFO-based closed cell, spray-applied rigid cellular polyurethane foam, medium density.

.2 Sustainable Requirements:

.1 Low GWP (Global Warming Potential): Utilizing HFO blowing agent, GWP <1.

Section revised by Addendum No.3

.2 Eco-efficiency analysis, life cycle assessment approved by an independent third party.

.3 Modify spray foam to suit temperature application in accordance with insulation manufacturer's recommendations.

.4 Burning characteristics; maximum values in accordance with CAN/ULC-S102-10:

.1 Flame spread: 500.

.2 Smoke developed: 500.

.5 Water vapour permeance; with outer skins to simulate actual in-situ conditions:

.1 Maximum 60 ng/Pa.m^2 .s. (1 perm) when tested to ASTM E96/E96M-13.

.6 Acceptable *Products*:

.1 BASF Building Systems ‘Walltite v.5’.

.2 Carlisle Spray Foam Insulation ‘SealTite One’.

.3 Elastochem Specialty Chemicals Inc. ‘Insulthane Extreme’.

.4 Huntsman Building Solutions ‘Heatlok Soya HFO/Polarfoam SOYA HFO’.

.5 Soprema ‘Sopra SPF 200’.

.6 Genyk ‘Boreal Elite’.[Added by Addendum No.3]

~~.6~~.7 Substitutions: in accordance with Section 01 25 00.

.2 Sprayed protective thermal barrier and bonding agent:

.1 Thermal barrier that, when tested in conformance with CAN/ULC-S101, “Fire Endurance Tests of Building Construction and Materials”, will not develop an average temperature rise more than 140°C or a maximum temperature rise more than 180°C at any point on its unexposed face within 10 min. .

.3 Accessories:

.1 Concealed sheet metal flashing (cavity firestop where noted):

.1 Prefinished sheet steel: Commercial quality to ASTM A653/A653M-13 with Z275 designation zinc coating.

.2 Minimum thickness: 0.45 mm (0.0179”) (26 gauge).

.3 Finish: Factory prefinished with polyester powder coat or enamel finish.

.2 Fasteners: Galvanized steel screws with anticorrosive coating system and EPDM washers.

2.3 Compatibility

.1 Ensure that materials used are compatible. Obtain confirmation from sprayed foam insulation manufacturer.

.2 Provide written proof of compatibility.

Section revised by Addendum No.3

PART 3 - EXECUTION

3.1 Examination

.1 Verify that surfaces and conditions are ready to accept the work of this section. Application of work of this section shall be deemed acceptance of existing work and existing conditions. Report in writing defects in substrate which may adversely affect the performance of the sprayed-applied foamed-in-place insulation.

.2 Before commencing work, ensure that environmental and site conditions are suitable for installation of materials.

.3 Commencement of work shall imply acceptance of surfaces and conditions.

3.2 Preparation

.1 Surfaces to receive sprayed-applied foamed-in-place insulation shall be free of frost, loose or foreign matter which might impair adhesion of materials.

.2 Prepare surface by brushing, scrubbing, scraping, or grinding to remove loose mortar, dust, oil, grease, oxidation, millscale and other contaminants which will affect adhesion and integrity of the foam insulation/air barrier system. Wipe down metal surfaces to remove release agents or other non-compatible coatings, using clean sponges or rags soaked in a solvent compatible with the foam insulation. Ensure surfaces are dry before proceeding.

.3 Prepare joints to receive foam air barrier sealant by brushing, scrubbing, wiping, scraping or grinding to remove loose mortar, dust, oil grease, solvents, oxidation, mill scale and other contaminants which will affect adhesion and integrity of foam sealant.

.4 Do not allow sprayed-applied foamed-in-place insulation to cover or mark adjacent surfaces. Use masking materials if necessary.

3.3 Installation

.1 Apply materials in accordance with material manufacturer's written requirements.

.2 Apply sprayed-applied foamed-in-place insulation in accordance with CAN/ULC S705.2-05.

.3 Overlap joints of transition air barrier membrane a minimum 100 mm (4"). Seal laps and termination joints with edge of transition air barrier membrane sealer. Transition air barrier membrane shall be installed prior to application of the urethane foam. Transition air barrier membrane shall be installed prior to application of the urethane foam.

.4 Fill joints with sprayed-applied foamed-in-place insulation making allowances for post expansion of foam.

.5 Finish joints shall be free from air pockets and imbedded foreign materials. Cut back excess foam sealant after cutting flush with surrounding surfaces unless otherwise directed or detailed.

.6 Apply sprayed-applied foamed-in-place insulation within +6.4 mm (1/4") and -0 mm (0") of indicated thicknesses.

Section revised by Addendum No.3

.7 Maximum pass thickness shall be 50 mm (2") per application pass. After spraying a pass, cooling time shall be allowed for the dissipation of heat. Allow a period of at least 10 minutes before applying a second pass. For overall installation thicknesses of greater than 100 mm (4") comply with manufacturer's installation requirements.

.8 Finished sprayed-applied foamed-in-place insulation shall be free of voids and embedded foreign materials.

.9 Concealed sheet metal flashing:

.1 Install continuous formed sheet metal with fasteners at maximum vertical spacing of 450 mm (18") on centre.

3.4 Installation - Sprayed Protective Thermal Barrier

.1 Apply bonding adhesive or primer to substrate in accordance with manufacturer's written installation requirements.

.2 Apply sprayed protective thermal barrier to correspond with tested assemblies, or acceptable calculation procedures to provide following fire resistance ratings for protection of sprayed foam insulation.

.3 Apply sprayed protective thermal barrier over substrate, building up to required thickness to cover substrate with monolithic blanket of uniform density and texture.

3.5 Adjusting and Cleaning

.1 Remove over-spray and masking material immediately after foam has cured to hard surface film.

.2 Clean and make good surfaces soiled or damaged by work of this section. Consult with section of work soiled before cleaning to ensure methods used will not damage their work.

.3 Do not permit adjacent work to damage work of this section. Damage to work of this section caused by other sections shall be made good by this section at the expense of the section which caused the damage.

3.6 Field Quality Control - General

.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.

END OF SECTION

Aluminum Framed Glazing Systems

Section revised by Addendum No.3

PART 1 - GENERAL

1.1 Summary

.1 Section includes:

.1 Fixed aluminum windows.

.2 Aluminum entrances and storefronts.

.3 Glass and glazing in accordance with Section 08 80 00.

.4 Seal joints within the work of this section in accordance with Sections 07 27 00 and 07 92 00, except where specified otherwise and at abutting joints between this section and the work of other sections.

.5 Air barrier transitions and connections between air barriers of adjacent wall and roofing systems.

.6 Prefinished aluminum panel fabrications, including closures, sills, cap flashings at interface with roofing flashing.

1.2 Administrative Requirements

.1 Conduct a pre-installation meeting in accordance with Section 01 31 19 and the following requirements:

.1 Review methods and procedures related to glazing systems including the following:

.1 Review flashings, special interface details and scheduling with adjacent material assemblies, penetrations, and conditions of other construction that will affect glazing systems.

1.3 Submittals

.1 Submit required submittals in accordance with Section 01 33 00.

.2 Submit warranty specimen prior to commencement of shop drawings.

.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 Submit engineered shop drawings, including seismic design, connections and restraint.

.2 Indicate with plans, sections, elevations and sufficient full size details, components and methods of assembly, materials and their characteristics relative to their purpose, and other fabrication information including relationships to adjacent systems.

Section revised by Addendum No.3

.3 Identify and describe material types being supplied, wall thicknesses of extrusions, and shapes including connections and grades, dimensions and tolerances (minimum and maximum), attachments, reinforcing, anchorage and locations of fastenings, air barrier transitions to various adjacent building envelope air barrier materials, and provisions for thermal and structural movement between components of this section and adjacent materials.

.4 Include description of materials, metal finishing specifications, and other pertinent information.

.5 Design loads, typical reactions and support movement allowances, both vertical and horizontal, shall be placed on the shop drawings.

.6 Shop drawings shall clearly indicate the specification of materials and, where applicable, indicate installation methods and coordination with other sections.

.7 Shop drawings shall clearly indicate paths and methods of moisture egress (should this occur) and ventilation of framing and spandrel conditions.

.5 Design calculations:

.1 Submit under seal, calculations prepared by the professional engineer responsible for the preparation of the shop drawings that clearly indicate the following:

.1 Design assumptions regarding loadings and seismic design, related to the building code.

.2 Codes and standards to which calculations are based upon.

.3 Materials proposed and their allowable shear and bending stresses.

.4 Maximum and minimum tolerances for proposed materials including anchors, holes and spacings.

.5 Testing data to confirm compliance with performance requirements for the work of this section.

.6 Analysis for dead, wind, snow and guard loads as required and movements caused by temperature changes, support deflections and building sway.

.7 Analysis to include anchors, glazing members, structural joints, sealants, glass. Show section property computations for framing members and submit full sized drawings.

.8 Analysis to include thermal performance.

.6 Samples:

.1 Submit 450 mm (18") x 450 mm (18") size samples of types of glass and aluminum framing assemblies with specified finishes. Submit 450 mm (18") x 450 mm (18") size samples of types of spandrel assemblies. Submit 200 mm (8") long samples of typical component sections (head, jamb, sill, meeting rail, and the like), fully assembled, indicating glazing and weatherproof methods.

.2 Control samples:

Section revised by Addendum No.3

.1 Submit two 305 mm (12") square samples of aluminum having specified finish of the required colours. Submit samples as many times as required to obtain approval of the range.

.2 Mark direction of metal grain and rolling and aluminum finish application on back of control samples.

.7 Test and evaluation reports:

.1 Submit valid independent laboratory test reports of full-scale mock-up for the specific glazing systems required under the work of this section, including framing members, glazing units, anchorage, slab edge covers, and transitions to adjoining assemblies and materials to demonstrate compliance respecting specified air and water infiltration and environmental separation performance and specified performance requirements specified in this section.

.1 Test reports shall be recent and produced within the past 5 years.

.2 Work shall not be fabricated until laboratory test reports demonstrate compliance with requirements of the *Contract Documents*. Where independent laboratory test reports do not demonstrate compliance with the *Contract Documents* include the cost of necessary testing in the *Contract Price*.

1.4 Closeout Submittals

.1 Submit closeout submittals in accordance with Section 01 77 00.

.2 Operation and maintenance data:

.1 Provide training to the *Owner* in the operation, maintenance, and cleaning of the aluminum framed glazing systems. Submit printed copies of maintenance instructions given to the *Owner*.

.2 Submit maintenance data for cleaning and maintenance for windows, curtain walls for incorporation into the operation and maintenance manuals.

1.5 Quality Assurance - General

.1 Installers / applicators / erectors:

.1 The work of this section shall be performed by a *Subcontractor* who is regularly engaged in the engineering, manufacture, fabrication, assembly, glazing and installation of curtain wall glazing systems. *Subcontractor* shall demonstrate to the acceptance of the *Consultant*, that they have successfully performed on comparable projects over the previous 10 years.

1.6 Delivery, Storage, and Handling

.1 Comply with AAMA CW-10-15 – Care and Handling of Architectural Aluminum from Shop to Site.

.2 Store parts in a dry place and permit natural ventilation over their finished surfaces.

.3 Store materials in locations protected from damage by other trades.

Section revised by Addendum No.3

.4 Under conditions of high humidity or cold temperatures, supply heating or forced air ventilation to prevent accumulation of surface moisture.

.5 Mark components to show location on building and on drawings.

.6 Protect finishes with strippable coating that will not mar, nor deface finish on removal, or a similar method designed to afford an equivalent amount of protection. Leave protected coating intact until damage risk is past or immediately prior to final cleaning.

.7 Stacking should be done to prevent bending pressure or abrasion of finished surfaces.

1.7 Field Conditions

.1 Comply with requirements of *Product* manufacturers.

PART 2 - PRODUCTS

2.1 Manufacturer

.1 Manufacturers shall develop materials and *Products* of this and related sections to achieve design intent as indicated and specified.

.2 Subject to compliance with requirements, provide products by one of the following manufacturers:

.1 Alumicor Limited.

.2 Kawneer Company Canada Limited.

.3 Oldcastle Building Envelope.

.4 Schüco.

.5 CRL U.S. Aluminum.

2.2 Glazing System Design - Specific Component Requirements

.1 Glass design:

.1 Design glass in accordance with CAN/CGSB 12.20-M89 and Section 08 80 00.

.2 Insulating glass units in accordance with Section 08 80 00.

.2 Aluminum windows:

.1 Fixed windows; acceptable *Product*:

.1 Alumicor ‘RainBlade 1990’.

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

.2 Description:

.1 Thermally broken assemblies.

.2 Fasteners: concealed.

.3 Glazing pockets shall be vented, pressure equalized and drained to the exterior.

Section revised by Addendum No.3

.4 Elastomeric air seal gasket shall be installed around the full perimeter of glass and sealed at corners with silicone sealant. Air seal gasket must provide adhesion with silicone sealant.

.3 Aluminum entrances and framing:

.1 Acceptable entrance framing products:

.1 Interior entrance framing; acceptable *Products*:

.1 Alumicor 'FlushGlaze 800'.

.2 CRL US Aluminum '450 Series'.

.3 Kawneer 'TRIFAB 450'.

.2 Exterior entrance framing; acceptable *Products*:

.1 Alumicor 'FlushGlaze BF 3400'.

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

.2 Description:

.1 Fasteners: concealed.

.2 Door framing connections: Reinforce mechanically-joined corners of doors by welding, spigotting, welding and spigotting or by one piece cast aluminum angle to produce sturdy door unit.

.3 Weather-stripping: Dense, bulb polymeric material, resilient and retains weathering ability under temperature extremes.

.4 Door hardware; hinges, closers, thresholds, push/pulls, locks, exit hardware, and as indicated: supplied by Section 08 71 00 for installation by this section.

2.3 Performance/Design Requirements - General

.1 Unless specified otherwise, glazing systems shall be designed to the following standards and references:

.1 American Architectural Manufacturers Association (AAMA).

.2 GANA 'Glazing Manual'.

.3 GANA 'Sealant Manual'.

.4 IGMA 'North American Glazing Guidelines for Sealed Insulating Glass Units for Commercial and Residential Use'.

.2 Removal and replacement of broken lites of glass shall be possible without cutting metal or moving the main frame in relation to the anchors.

.3 Design glazing system and framing to prevent thermal shock and edge pressure fracture damage to the glass.

.4 Metal faces of flashings, caps, framing and sheet cladding shall be visually flat.

.5 Accurately shape mullion and cover caps at intersecting joints to obtain hairline joints, just wide enough to permit thermal movements.

.6 Anchor design:

.1 Design anchors of the framing members to the building support to accommodate movements specified herein and to allow for construction tolerances.

.7 Noise:

.1 Design the *Work* so that movements specified herein are accommodated without any audible noise being generated. In general, noise is produced by metal to metal contacts, and/or stresses being built up by movements and suddenly being relieved when friction forces are overcome.

.8 Conceal fasteners connecting and fixing the framing members.

.9 Framing cavity shall be compartmentalized every 6000 mm (236") horizontally and at corners to prevent the movement of air, in accordance with standard rain screen design.

.10 Framing cavity shall be compartmentalized at demarcation of interior and exterior building envelope spaces to prevent the movement of air, in accordance with rain screen design.

.11 Presence of any of the following shall constitute failures including, but are not limited to:

.1 Structural failures including, but not limited to, excessive deflection.

.2 Noise or vibration created by wind and thermal and structural movements.

.3 Deterioration of metals, metal finishes, and other materials beyond normal weathering.

.4 Water penetration through fixed glazing and framing areas.

.5 Failure of operating components.

.6 Failed glass units.

2.4 Performance/Design Requirements - Structural

.1 Design components to the relevant sections of the building code, using limit states design methods.

.2 Design glass in accordance with CAN/CGSB 12.20-M89, except where greater requirements are specified. For the purposes of glass design, cladding design, seismic and wind loads shall be taken to have a minimum duration of 60 seconds.

.3 Design of framing systems shall include necessary adjustments to wall thickness of mullions, mullion reinforcing or other necessary structural design to comply with the specified design requirements. Such design measures shall not relieve the *Contractor* of achieving other requirements.

.4 Movement criteria: the *Work* shall be designed and constructed so as to allow for movements of the *Work* and/or supporting structure as follows:

.1 Expansion and contraction of component materials of the *Work* produced by an exterior surface temperature range of -35°C to +60°C.

.2 Structural and thermal movements of the reinforced concrete and structural steel as prepared by the *Consultant's* structural engineers.

Section revised by Addendum No.3

.3 The above movements to be accommodated without overstressing components in the *Work*, and without buckling, failure of weather seals, undue stress on glass, glass breakage, undue stress on structural elements, or other detrimental effects.

.5 Design aluminum framing members in accordance with CAN/CSA-S157-05/S157.1-05.

.6 Deflection limits:

.1 The deflection of framing member in direction normal to plane of glass when subjected to uniform load deflection test in accordance with ASTM E330/E330M-14(2021), under specified design loads, shall not exceed 1/175 of clear span clear spans up to 4110 mm (13’-6”) and to 1/240 of clear span plus 6.4 mm (1/4") for spans greater than 4110 mm (13’-6”) or an amount that restricts edge deflection of individual glazing lites to 19 mm (3/4"), whichever is less.

.2 In the plane of the wall, deflection of framing members shall not reduce the glass or panel bite below 75% of the design dimension and shall not reduce the glass or panel edge clearance below 25% of the design dimension or 3 mm (1/8") whichever is greater. Restrict dimensions further if required for assembly, fit of components or to accommodate movements specified herein.

.3 Deflection limits for sheet metal air/vapour barriers including backpans shall be L/240 or maximum 6.4 mm (1/4") whichever is less, under specified design loads.

.4 For the work of this section, air barrier components, including sealants and membranes shall not fail under design conditions. Failure shall include loss of adhesion, excessive deflection, movement or displacement beyond product limitations, materials placed under stress beyond manufacturers recommended range.

.7 Glazing that extends to a dimension of less than 1070 mm (42") above the adjacent finished floor level which is greater than 600 mm (24") above the ground on the exterior or interior of the building, shall have the glass, mullions and connections be designed as a guard to the following:

.1 The building code requirements for guards.

.2 The building code requirements for glazing subject to human impact.

.8 Design structural steel structural components and fasteners in accordance with CSA-S16-14.

.9 The design of the structural action of glazing systems shall be "simply supported" and shall not induce bending moment or thrust reactions into the building.

.10 Seismic design: Comply with requirements of the building code and authorities having jurisdiction.

.11 Design systems to withstand own dead load, snow, ice and wind loads and combination thereof, as calculated in accordance with the building code, to maximum allowable deflection without permanent deformation.

Section revised by Addendum No.3

.12 Design systems to have a method of attachment to the structure that will take into account peculiarities at the *Place of the Work* so that there shall be no possibility of site and air vibrations or normal temperature movements of the building to loosen, weaken, or fracture the connection between building envelope assembly components and the structure or between the components themselves.

.13 Assembly shall be secured in a manner that will keep stresses on sealant within the sealant manufacturer's recommended working range.

.14 Uniform load: No principal member shall display undue effects or permanent set in the framing members in excess of 0.2% of their clear spans after being subjected to structural load test equal to 1.5 times the specified design load, when tested in accordance with ASTM E330/E330M-14(2021).

2.5 Performance/Design Requirements - Air Filtration and Water Resistance

.1 Air infiltration/exfiltration rate:

.1 Fixed glazing: Maximum 0.1 L/s/m^2 (0.02 cfm/ft^2) of glazing area when tested in accordance with ASTM E283-04 at test pressure of 300 Pa (6.27 psf).

.2 Water resistance:

.1 Static; fixed and operable glazing: No water penetration shall occur when the work is tested in accordance with ASTM E331-00, amended to prohibit water from passing through interior glazing seals or frame joints, at a test pressure equal to 20% of positive design wind pressure and but not less than 300 Pa (6.27 psf).

.3 Design glazing systems using rain screen principle with the following characteristics:

.1 Interior (room-side) air seal at component interfaces.

.2 Exterior (weather-side) deterrent seal formed by continuous gaskets or flush silicone seal as applicable.

.3 Glazing pockets vented and drained to the exterior.

.4 Extrusions with integral gutters of sufficient depth to carry intruded rainwater and snow-melt to the exterior.

.5 System of baffles to prevent water entering the glazing cavity due to gravity, capillary action or rain momentum.

.6 Metal to metal joints within the glazing cavity shall be designed and installed to be sealed prior to assembly and fixing and so as to provide continuous drainage of water to points of egress from assembly. Where location of drainage must drain more than one lite and/or spandrel, the number of drainage holes shall be increased according to rain screen design principle.

.4 Cap and seal exposed ends of mullions and caps, while not compromising drainage qualities.

2.6 Performance/Design Requirements - Thermal

.1 No condensation or frost shall form on the interior of glazing or framing members when tested under the following conditions:

Section revised by Addendum No.3

.1 Interior air: 22°C, 35% R.H.

.2 Exterior air: -20°C, 24 km/h (15 mph) wind speed.

.2 In addition to the above requirements the framing system shall be designed such that condensation or frost will not form on the interior surface of the aluminum members before appearing on the adjacent insulating glass units. To achieve this requirement, any metal on the exterior of the *Work* will require a thermal break between metal on the interior.

.3 Brackets and attachment shall not cause thermal bridging resulting in interior condensation forming at design conditions.

2.7 Materials

.1 Glass: in accordance with Sections 08 80 00.

.2 Aluminum extrusions: Accurately formed, extruded aluminum alloy in accordance with ASTM B221-21: AA-6063-T5/T6, free from defects impairing appearance, strength and durability.

.1 Minimum thickness of 3 mm (0.125”) for framing members, and 1.27 mm (0.050”) for glazing stops, snap caps and similar components unless indicated otherwise.

.3 Aluminum flashing:

.1 Minimum wall thickness: 0.812 mm (0.0320")(20 B&S gauge), unless otherwise indicated.

.2 Aluminum alloy:

.1 For painted finish, where indicated:

.1 In accordance with ASTM B209-14: AA3003-H14 Painting Quality.

.2 In accordance with ASTM B209-14: AA5052-H32 Painting Quality.

.4 Shims: Utility grade aluminum sheet when not in contact with concrete; stainless steel when in contact with concrete or cementitious substances of thickness required, or galvanized steel.

.5 Air barrier materials; transition from glazing system air barrier and tying into building envelope air barrier systems:

.1 Silicone sheet air barrier membrane and manufacturer’s recommended sealants and accessories:

.1 Air barrier transition system to resist specified design loads when subjected to uniform load deflection test in accordance with ASTM E330/E330M-14(2021).

.2 Air barrier transition system to allow no water penetration in accordance with ASTM E331-00 to a design pressure not less than 720 Pa (15 psf).

.3 Acceptable *Products*:

.1 Tremco ‘Proglaze ETA Engineered Transition Assembly’.

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

.6 Fasteners:

Section revised by Addendum No.3

.1 Non-magnetic (austenitic) 300 series alloy stainless steel unless otherwise indicated.

.2 Use self-locking devices where fasteners are subject to loosening or turning out from thermal and structural movements, wind loads, or vibration.

.3 Provide nuts or washers of design having means to prevent disengagement; deforming of fastener threads is not acceptable.

.4 Provide concealed fasteners unless indicated otherwise.

.5 For exposed locations, provide countersunk flathead fasteners with finish matching item fastened.

.7 Anchors: Three-way adjustable anchors with minimum adjustment that accommodate fabrication and installation tolerances in material and finish compatible with adjoining materials and recommended by manufacturer.

.1 Inserts and surface mounted supports: Hot-dip galvanized cast-iron, malleable-iron, or steel complying with ASTM A123/A123M-13 or ASTM A153/A153M-09 requirements.

.8 Sheet metal backpans and air barriers: 0.91 mm (0.036") (20 gauge) thickness, galvanized sheet steel in accordance with ASTM A653/A653M-13, Designation G90/Z275.

.1 Fasteners: Corrosion resistant, zinc plated, covered and sealed to sheet metal with silicone sealant.

.9 Dielectric separator: Non-staining alkali resistant, rubber isolation pads or 10 mil vinyl membrane type, electrolytic isolation factor of 1.0.

.10 Internal sealant and air barrier sealant: One-part, neutral cure, high performance silicone sealant complying with ASTM C920-14, Type S, Grade NS, Class 25, capable of sustaining dynamic movements, SWRI sealant validated.

.11 Insulation at spandrels, closures and flashings: in accordance with ASTM C612-14, Type IVA or IVB, non-combustible in accordance with CAN/ULC-S114-05.

.1 Acceptable *Products*:

.1 Johns Manville ‘MinWool Curtainwall’.

.2 Rockwool 'CurtainRock'.

.12 Insulation attachment:

.1 Galvanized stick-pins, welded to sheet metal backpans, located at maximum spacing of 300 mm (12") o/c and within 150 mm (6") from edge of insulation boards. Seal welds with 1 coat zinc-rich coating.

.13 Zinc-rich coating: Touch-up paint for welded galvanized areas; 2 coats of zinc-rich paint in accordance with CAN/CGSB 1.171-98, VOC <340 g/L.

.14 Thermal barrier component:

.1 Rigid polyvinyl chloride or neoprene or polyurethane providing full separation of interior and exterior components. Thickness shall be as required to meet design.

Section revised by Addendum No.3

.2 Glass fibre reinforced polyamide porthole extrusion providing full separation of interior and exterior components. Thickness shall be as required to meet design.

.15 Miscellaneous steel: in accordance with CSA G40.21-13, Grade 300W.

.1 Finishes:

.1 Behind air/vapour barrier: CISC/CPMA 2-75 primer.

.2 Exterior to air/vapour barrier, and where condensation could occur: hot dip galvanized after fabrication or Type 300 series stainless steel.

.16 Spacers for glazing sections receiving metal flashed, panels; behind pressure plate: High density polyethylene (HDPE) or PVC.

.17 Foamed-in-place insulation: Refer to Section 07 21 00.

2.8 Finishes

.1 Exposed aluminum surfaces: 70% Kynar 500 or Hylar 5000 fluoropolymer resin systems, ceramic pigments and other select inorganic pigments in accordance with AAMA 2605-20.

.1 Acceptable *Products*:

.1 PPG 'Duranar'.

.2 Colour: to match existing for WIN05, and dark grey unless otherwise noted.[Revised by Addendum No.3]

.2 Finish exposed metal fasteners: baked-on finish to match related aluminum surfaces.

.3 Finish steel clips and reinforcing steel with 610 g/m^2 zinc coating in accordance with ASTM A123/A123M-09.

2.9 Fabrication - General

.1 Insofar as practical, execute fitting and assembly in the shop with the various parts or assemblies ready for erection at the *Place of the Work*.

.2 Take field measurements and levels required to verify or supplement those shown for the proper layout and installation of the *Work*. Coordinate dimensional tolerances in adjacent building elements and confirm prior to the commencement of the work of this section. Commencement of installation floor by floor shall be construed as acceptance of building conditions. Glazing systems shall not deviate from tolerances specified.

.3 Verify measurements at the *Place of the Work* and fabricate systems to suit dimensions at the *Place of the Work*.

.4 Fabricate glazed framing to provide uniform rough opening dimension:

.1 Maximum tolerance will be +/- 3 mm (1/8") for rough opening joint width.

.5 Conceal nuts, bolts, screws, clips and other means of fastening in finished *Work*, except where shown or specified otherwise.

.6 Maintain dimensional tolerances from vertical and horizontal planes with the closest possible accuracy for the various parts as previously designated.

Section revised by Addendum No.3

.7 Means of anchoring systems shall have sufficient adjustment to permit correct and accurate alignment. After adjustment, positively lock anchorage devices in manner to preclude movement, once alignment is achieved.

.8 Isolate aluminum bearing contact with dissimilar materials other than air/vapour seal. Method of isolation shall be to *Consultant*'s acceptance.

.9 Make allowances for deflection of structure above when making connection thereto, and ensure that no structural load is transmitted to glazing systems.

.10 Fixing screws shall be countersunk and concealed. Screws shall be oval head, set flush with adjacent surfaces.

.11 Assume full responsibility for the design of assemblies. Reinforcing, furring and anchoring shall suit each specific condition complying with the parameters previously specified, required and as shown.

.12 Form accurate extrusions with clean, straight, sharply defined profiles free from any defects.

.13 Form flashing bends with clean, straight, sharply defined profiles without damage and discolouration to finish.

.14 Extrusion thickness shall be adequate to satisfy loading and deflection, as required and indicated.

.15 Weld aluminum where required with inert metal arc equipment by methods recommended by the Aluminum Co. of Canada. Welders shall qualify according to CSA W47.2-11(R2020). Make exposed welds continuous and flush with adjacent surface. Do not mar surface finishes with welds in back of exposed aluminum. Do not deform the exposed metal and finish in any way by welding.

.16 Weld steel, where required, in accordance with CSA W59-18. Welded joints shall be of adequate strength and durability with jointing tight and flush. Welder shall be fully approved by the Canadian Welding Bureau and shall comply with CSA W47.1-19, Division 3. Where it is necessary to weld components already galvanized, remove galvanizing for 50 mm (2") around weld and paint over welds where galvanizing is removed as specified hereinafter.

.17 Insert concealed prime painted steel reinforcement into cavities of frame members to the interior side of integral air seal web, sized to adequately withstand wind pressure requirements specified.

.18 Include aluminum cover plates, trim components, bent plates, closure trim, extruded glazing corner posts, drips, flashings and other components required to complete the installation and as indicated whether specifically labelled/dimensioned or only notionally indicated.

.19 Trim glazing spline at continuous embedded sill flashing locations (to ensure full upturn of flashing) behind pressure plate.

.20 Include thermal barriers, and miscellaneous neoprene pads, shims and washers.

.21 *Provide* weepholes in the glazing recess to drain condensate and water to exterior wall cavity. *Provide* drainage tubes as necessary to conduct water safely through isolated insulated areas to direct exterior discharge. Seal around tubes.

Section revised by Addendum No.3

.22 Metal-to-metal joints which require sealing to maintain weathertightness shall be designed and assembled with a ribbon of sealant that shall be compressed by approximately 50% of its original thickness when the joints are secured.

.23 Fabricate frame systems complete with mullions, head and sill frames, spigots, and plugs for horizontals, spline gaskets, thermal break pressure plates, filler pieces, snap-on caps, and other necessary components.

.24 Sill flashing: extruded aluminum with vertical concealed legs for support, finished to match aluminum frames, clipped to full length continuous bent aluminum clip with vertical leg at back, 25 mm (1") projection beyond wall cladding surface unless otherwise indicated. *Provide* preformed drip deflectors for sill ends at jambs. *Provide* preformed butt joint and corner sill splice connectors and sealant to prevent water penetration. Locate splice connectors (joint covers) at centre line of mullions when required.

2.10 Fabrication - Hot Rolled Steel Framing

.1 Fabricate necessary hot-rolled, framing and support members and non-corrosive anchorage members required to support the glazing systems, concealed from view.

.2 Framing members shall be welded construction, designed for welding to weld plates supplied for casting into concrete for welding to steel structure.

.3 Framing finishes:

.1 Exterior to air barrier exposure: Hot-dipped galvanized.

.2 Interior to air barrier exposure: Prime painted CISC/CPMA 2-75.

2.11 Fabrication Tolerances

.1 Comply with the following maximum tolerances:

.1 Plumb: 3.2 mm in 3 m (1/8” in 10’-0”); 6.35 mm in 12.2 m (1/4” in 40’-0”).

.2 Level: 3.2 mm in 3 m (1/8” in 10’-0”); 6.35 mm in 12.2 m (1/4” in 40’-0”).

.3 Alignment:

.1 Where surfaces abut in line or are separated by reveal or protruding element up to 12.7 mm (1/2") wide, limit offset from true alignment to 1.6 mm (1/16").

.2 Where surfaces are separated by reveal or protruding element from 12.7 to 25.4 mm (1/2” to 1”) wide, limit offset from true alignment to 3.2 mm (1/8").

.3 Where surfaces are separated by reveal or protruding element of 25.4 mm (1") wide or more, limit offset from true alignment to 6.4 mm (1/4").

.4 Variation from plane: 3.2 mm in 3.6 m (1/8” in 12’-0”); 12.7 mm (1/2") over total length.

.5 Square or rectangular: Maximum 3.2 mm (1/8") difference between diagonal measurements.

.6 Variation from indicated position: plus/minus 3 mm (1/8").

.2 Tolerances shall not be cumulative.

Section revised by Addendum No.3

PART 3 - EXECUTION

3.1 Installation - General

.1 Verify dimensions of supporting structure by measurement at the *Place of the Work* so that aluminum framed glazing systems will be accurately designed, fabricated and fitted to the structure.

.2 Coordinate with the work of other sections and hand-over items to be placed during the installation of other work at the proper time to avoid delays in the *Work*.

.3 Erect frames complete with necessary reinforcing and incidental components.

.4 Include anchors and fastenings shown, specified, or necessary to anchor work together or to work of separate sections. Supply items and inserts required to be built into other work. Submit instructions for proper location, and verify proper positioning. Survey location of imbeds after initial pour to verify tolerances.

.5 Use anchors that will permit sufficient adjustment for accurate alignment.

.6 Accurately fit and rigidly frame together units where required. Match components carefully to produce continuity of line and design. *Provide* flush hairline joints and weathertight connections.

.7 Ensure adequate clearance and shim space at perimeter of openings.

.8 After welding galvanized steelwork, touch-up weld areas with 2 coats of primer, zinc-rich at galvanized locations.

3.2 Installation Tolerances

.1 Comply with the following maximum tolerances:

.1 Plumb: 3.2 mm in 3 m (1/8” in 10’-0”); 6.35 mm in 12.2 m (1/4” in 40’-0”).

.2 Level: 3.2 mm in 3 m (1/8” in 10’-0”); 6.35 mm in 12.2 m (1/4” in 40’-0”).

.3 Alignment:

.1 Where surfaces abut in line or are separated by reveal or protruding element up to 12.7 mm (1/2") wide, limit offset from true alignment to 1.6 mm (1/16").

.2 Where surfaces are separated by reveal or protruding element from 12.7 to 25.4 mm (1/2” to 1”) wide, limit offset from true alignment to 3.2 mm (1/8").

.3 Where surfaces are separated by reveal or protruding element of 25.4 mm (1") wide or more, limit offset from true alignment to 6.4 mm (1/4").

.4 Variation from plane: 3.2 mm in 3.6 m (1/8” in 12’-0”); 12.7 mm (1/2") over total length.

.5 Square or rectangular: Maximum 3.2 mm (1/8") difference between diagonal measurements.

.6 Variation from indicated position: plus/minus 3 mm (1/8").

.2 Tolerances shall not be cumulative.

Section revised by Addendum No.3

3.3 Foamed-in-Place Insulation

.1 Install between aluminum framing and rough openings at exterior walls and where indicated, in accordance with Section 07 21 00.

3.4 Isolation

.1 Backpaint aluminum surfaces in contact with cement, concrete, masonry, plaster or dissimilar metals with heavy coat of bituminous paint.

3.5 Air Barrier Continuity with Building Envelope

.1 *Provide* continuous air barrier transition between work of this section where work interfaces with building envelope air barrier materials. *Provide* EPDM or PVC glazing pocket filler or joint plug to seal glazing rebate where applicable; sealed airtight with silicone sealant.

.2 Install in accordance with manufacturer's installation instructions. Seal lap joints and seal perimeter to adjacent building envelope air barrier material with silicone sealant.

.3 Coordinate with adjacent materials for continuity and compatibility.

3.6 Glass and Glazing

.1 Furnish glass for work of this section to requirements herein and in accordance with Section 08 80 00, and assume total responsibility for sizing, design and other aspects of glass work and accessories.

3.7 Sealant - Installation

.1 *Provide* sealants associated with this section, following the requirements of Section 07 92 00. Make entire installation watertight.

3.8 Field Quality Control – *Subcontractor*

.1 The *Subcontractor* is responsible for quality control of the work of this section including quality control of sub-*Subcontractors* and material suppliers for work of this section.

.2 The *Subcontractor* shall develop a quality control manual for the factory and the field installation. The form of the manual shall be reviewed and accepted by the *Consultant*. This manual will document quality control practices of the *Subcontractor*, sub-*Subcontractors* and major material suppliers. The manual will include, but not be limited to, specific criteria related to:

.1 Surface preparation.

.2 Sealant mixing, tack time, set time, butterfly tests.

.3 Paint adhesion testing.

.4 Sealant adhesion testing.

.5 Material compatibility testing.

.6 Sealant staining of porous substrate testing.

.7 On line fabrication quality control practices.

.8 Shipping.

.9 Field installation.

.3 The *Subcontractor* is to maintain a logbook (copies to be provided to the *Consultant* at completion of fabrication) documenting date, time, results, and significance of in plant testing carried out linked to daily panel production. The form of this logbook shall be reviewed and accepted by the *Consultant*.

3.9 Field Quality Control – Field Review

.1 The *Owner* will engage the services of an independent inspection and testing company to carry out inspection and testing of work of this section.

.1 The cost of such inspection will be paid in accordance with Section 01 45 00.

.2 Field review programme to include:

.1 Verification of proper insulation, vapour retarder, and air barrier installation.

.2 Checks of interface and termination seals against other elements.

.3 Review of panel to panel air seals, review of roof/wall interface.

.4 Review of panel fastening, exterior sealants etc.

.5 Checks of air and vapour seals/barriers for continuity, penetrations and correct orientation.

.6 Checks for continuity of insulation plane.

.7 Verification of flashing placement and continuity.

.8 Special review of interfaces between different elements such as wall/roof, curtain wall/masonry, to verify continuity of envelope performance.

.9 Review of exterior applied sealants and flashings.

.10 Confirmation of fastener size, type, and material.

.11 Review of drainage paths to confirm clear.

.12 Verification of glass type and position.

3.10 Adjusting and Cleaning

.1 Adjust operating hardware and accessories for a tight fit at contact points and weather stripping for smooth operation and weathertight closure. Lubricate hardware and moving parts.

.2 Remove as the work of this section progresses, corrosive and foreign materials which may set or become difficult to remove at time of final cleaning or which may damage members. Inspect as often as required to ensure cleanliness.

.3 Remove non-permanent labels.

.4 Remove dirt and residue from surfaces.

Section revised by Addendum No.3

.5 Remove *Products* or materials that have been broken, chipped, cracked, discoloured, abraded, or damaged during construction period and *Provide* undamaged *Products* or materials meeting the requirements of the *Contract Documents*.

.6 Wash exposed surfaces with a cleaning solution approved by *Product* manufacturers.

3.11 Protection

.1 At completion of the *Work*, remove protective coatings, clean glass and aluminum and remove surplus compounds and sealant materials. Replace or make good defective, scratched or damaged work.

END OF SECTION

DOOR HARDWARE
08 71 00

PROJECT:

Guelph General Hospital – Emergency Mental Health & Addiction Services Relocation and Emergency Department Expansion.
115 Delhi Street,
Guelph, Ontario, Canada

ARCHITECT:

Stantec Architecture Ltd.
100-401 Wellington Street West
Toronto, Ontario, Canada

Prepared By: Alex Bekmansourov
Date: December 12, 2023
Revised: February 29, 2024
Revised: April 16, 2024
Revised: July 3, 2024

Architectural Hardware Finishes

Steel	Stainless Steel	Brass/Bronze	Aluminum	Painted/Powder Coat	US/CAN#
Clear Anodized / Painted Aluminum					
			628	689	US28
Satin Nickel					
646		619	670		US15
Polished Nickel					
645		618	669		US14
Satin Stainless Steel					
	630				US32D
Polished Stainless Steel					
	629				US32
Satin Chrome					
652		626	702		US26D
Polished Chrome					
651		625	672		US26
Satin Brass					
633		606	667	678	US4
Polished Brass					
632		605	666	677	US5
Satin Bronze					
639		612	668	680	US10
Oil Rubbed Bronze					
640		613	703	695	US10B
Flat Black / Anodized Black					

Door Handing's

Abbreviations

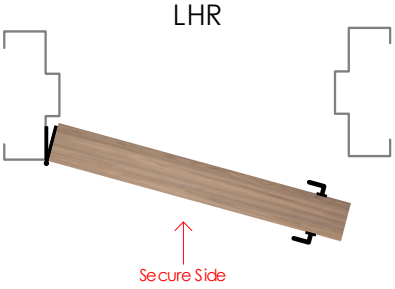
RH = Right Hand	RHA = Right Hand Active	SS = Single Slider
LH = Left Hand	LHA = Left Hand Active	BP = Bi-Parting Slider
RHR = Right Hand Reverse	RHA/LHA = Right & Left Hands Active	BF = Bi-Folding Slider
LHR = Left Hand Reverse	RHRA/LHRA = Right & Left Hand Reverse Active	TS = Telescopic Slider
RHRA = Right Hand Reverse Active	DA = Double Acting	PKT = Pocket Slider
LHRA = Left Hand Reverse Active	DE = Double Egress	

NOTE: The handing of a swing door is determined by placing yourself on the secured or keyed side of the door.

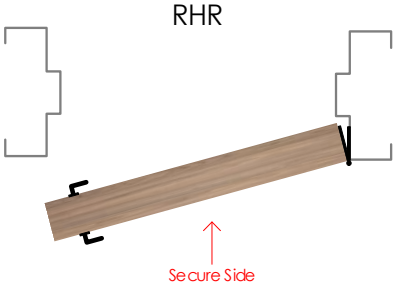
LH

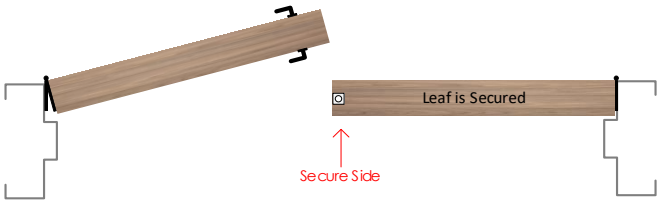
RH

LHR

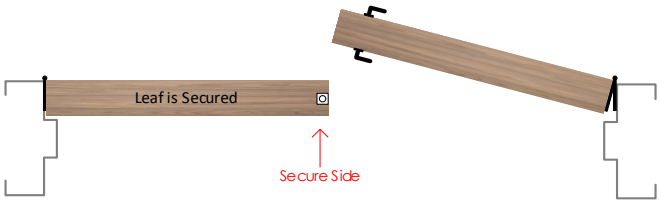


RHR



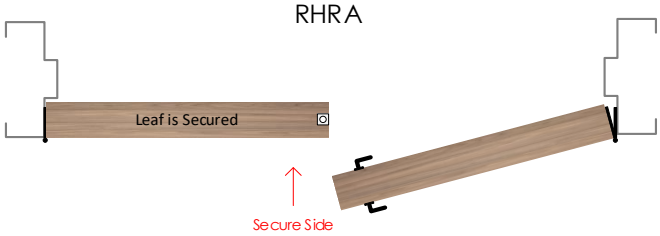


LHA

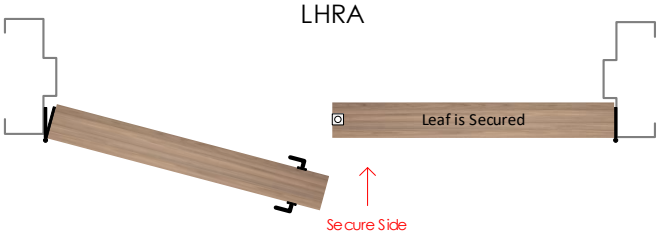


RHA

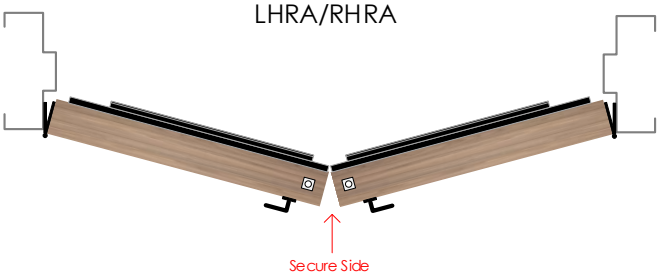
RHRA

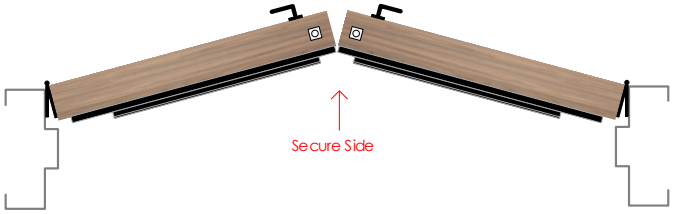


LHRA



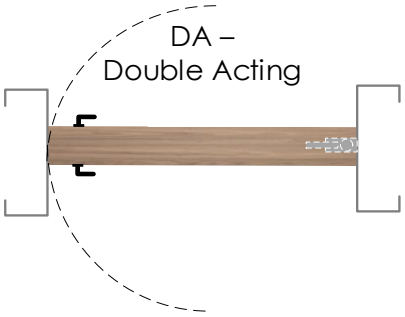
LHRA/RHRA



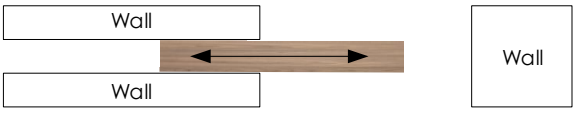


LHA/RHA

DA –
Double Acting



DE- Double Egress



PKT- Pocket Door

SS- Single Sliding Door

BP- Bi Parting Sliding Door

BPS- Bi Passing Sliding Door

Products & Alternatives

NOTE: Only those products / brands listed here are acceptable and should be used to form a bid price. No unsolicited products will be considered. If acceptable alternates are listed here those too can be used to form a bid price provided, they are exactly the same as the specified item. If using an alternate product to form a price it is the bidder's responsibility to ensure that product is identical in every way to the specified item. If no alternates are listed, no alternate products are acceptable.

Product Type	Product#	Manufacturer	Alternate Manufacturer 1	Alternate Manufacturer 2
Continuous Hinge	SL14HD HT	Select	Ives	Pemko
Anti Ligature Continuous Hinges	CH 993	Gallery	Lawrence	Markar
Mortise Locks	L9000 Series	Schlage	N/A	N/A
Anti Ligature Locks	CH9000SEC	Accurate		
Exit Devices	98 Series	Von Duprin	Sargent	
Electric Strike	1500C	HES	N/A	N/A
Concealed Overhead Stop	100S	Glynn Johnson	Rixson	N/A
Auto Operator	Mitec	Mitec		
Push Button Actuator	CM330 Series	Camden	BEA	N/A
Kick Plate	GSH 80A	Gallery	CBH	Gallery
Armour Plates	GSH 90F	Gallery	CBH	Gallery
Flush Bolts/Co-Ordinators	FB458/F51P/COR	Ives	Pemko	Standard Metal
Gasketing	W-66	KN Crowder	Pemko	Zero
Auto Door Bottom	CT-54	KN Crowder	Pemko	Zero

Symbols

- Door has a fire rating and all associated hardware must have a fire label to suit. Must comply with local requirements.

- Door is automatic and is equipped with an auto operator. Door must meet local barrier free codes

- Door has an electrical requirement and requires power to be brought to the appropriate location above the door or to the latch, for either security or barrier free applications. Refer to security & electrical drawings for further information.

- Door requires security card access. Refer to security / electrical drawings for further information.

Abbreviations

Door:

HMD = Hollow Metal Door
IHMD = Insulated Hollow Metal Door
ALD = Aluminum Door
IC-ALD = Insulated Clad Aluminum Door
SCWD = Solid Core Wood Door
HCWD = Hollow Core Wood Door
FGD = Frameless Glass Door
FRP = Fiberglass Reinforced Plastic Door

Frame:

HMF = Hollow Metal Frame
ALF = Aluminum Frame
Cased Open HMF = Cased Open Hollow Metal Frame
WDF = Wood Frame
Cased Open WDF = Cased Open Wood Frame
Cased Open Drywall = Cased Open Drywall

Fire Ratings:

0 HR – Zero Hour Fire Rating / Smoke Barrier
20 MIN – 20 Minute Fire Rating
¾ HR – 45 Minute Fire rating
1 ½ HR – 90 Minute Fire Rating
2 HR – 120 Minute Fire Rating
3 HR – 180 Minute Fire Rating

Disclaimer

Weblinks:
Weblinks do change from time to time as manufacturers move around their websites, please inform us if you have a none functioning weblink.

HARDWARE SCHEDULE

Heading# 1

Opening Information					
Opening Type:	Pair	**Opening Size:**	1 x 965 x 2150 x 45 – 1 x 535 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

5	Total Openings								Web Link	Site Verified
1	**Door#**	1088.5	**Location:**	Corridor 1081	To	Office/Treat 1088.5	**Handing:**	DE		
1	**Door#**	1088.4	**Location:**	Corridor 1081	To	Office/Treat 1088.4	**Handing:**	DE		
1	**Door#**	1088.3	**Location:**	Corridor 1081	To	Office/Treat 1088.3	**Handing:**	DE		
1	**Door#**	1088.2	**Location:**	Corridor 1081	To	Office/Treat 1088.2	**Handing:**	DE		
1	**Door#**	1088.1	**Location:**	Corridor 1081	To	Office/Treat 1088.1	**Handing:**	DE		

By Hardware Supplier						
5	Continuous Hinge	SL14HD x HT x 2150	628 / US28 / Clear Anodized	Select		☐
5	Continuous Hinge	SL14HD x HT x EPT x 2150	628 / US28 / Clear Anodized	Select		☐
5	Power Transfer	EPT-10	689 / US28 / Painted Aluminum	Von Duprin		☐
5	Elec.Mortise Storeroom Lockset	RX-LX-L9092EU-T x 06B x 630 x 24V (Const. Keying)	630 / US32D / Satin Stainless Steel	Schlage		☐
5	Cyl. Operated Flush Bolt	1870HM x 610mm x Torx 628 (Mount at Header)	630 / US32D / Satin Stainless Steel	Adams Rite		☐
5	Mortise Cylinder	20-062-ICX x B520-253 –Const. Keying	626 / US26D / Satin Chrome	Schlage		☐
5	Cylinder Collar	COL6 x C26D	626 / US26D / Satin Chrome	Canropa		☐
5	Overhead Stop	104S-SOC	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
5	Overhead Stop	101S-SOC	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
10	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
10	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
5	Ligature resistant Seals	188S-BK-ZAG x 6500	Black	Zero		☐
5	Auto Door Bottom	CT-54 x 965	628 / US28 / Clear Anodized	KN Crowder		☐
5	Auto Door Bottom	CT-54 x 535	628 / US28 / Clear Anodized	KN Crowder		☐

By Security Supplier						
5	Card Reader	To suit building system, by security provider				☐
5	REX Sensor	Built into lockset security to wire				☐
5	Latch Monitoring	Built into lockset security to wire				☐
10	Door Contact	To suit building system, by security provider				☐
5	Access Controller	To suit building system, by security provider				☐
5	Power Supply	To suit building system, by security provider				☐
By Pinders Security						
10	Permanent Core	Permanent FSIC by GC via Pinders	652 / US26D / Satin Chrome			☐

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider

End of Heading

Heading# 2

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 965 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	0 HR

1	**Total Openings**							
1	**Door#**	1087	**Location:**	Corridor 1081	To	HSKG 1087	**Handing:**	LH

					Web Link	Site Verified
By Hardware Supplier						
1	Continuous Hinge	SL14HD x HT x EPT x 2150	628 / US28 / Clear Anodized	Select		☐
1	Power Transfer	EPT-10	689 / US28 / Painted Aluminum	Von Duprin		☐
1	Elec.Mortise Storeroom Lockset	RX-LX-L9092EU-T x 06B x 630 x 24V (Const. Keying)	630 / US32D / Satin Stainless Steel	Schlage		☐
1	Door Closer	4011 x REG x (LCN/ST 1544)	689 / US28 / Painted Aluminum	LCN		☐
1	Drop Plate	4020-18	689 / US28 / Painted Aluminum	LCN		☐
1	Overhead Stop	104S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
2	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Smoke/Sound Seal	W-66 x 5400	Black	KN Crowder		☐
1	Auto Door Bottom	CT-54 x 965	628 / US28 / Clear Anodized	KN Crowder		☐
By Security Supplier						
1	Card Reader	To suit building system, by security provider				☐
1	REX Sensor	Built into lockset security to wire				☐
1	Latch Monitoring	Built into lockset security to wire				☐
1	Door Contact	To suit building system, by security provider				☐
1	Access Controller	To suit building system, by security provider				☐
1	Power Supply	To suit building system, by security provider				☐
By Pinders Security						

1	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider

End of Heading

Heading# 3

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 965 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

3	Total Openings							
1	**Door#**	1086	**Location:**	Corridor 1081	To	Soiled Utility 1086	**Handing:**	RH
1	**Door#**	1085	**Location:**	Corridor 1081	To	Soiled Utility 1086	**Handing:**	LH
1	**Door#**	1092.2	**Location:**	Care Team STN 1071.1	To	Medication 1092.2	**Handing:**	RH

					Web Link	Site Verified
By Hardware Supplier						
3	Continuous Hinge	SL14HD x HT x EPT x 2150	628 / US28 / Clear Anodized	Select		☐
3	Power Transfer	EPT-10	689 / US28 / Painted Aluminum	Von Duprin		☐
3	Elec.Mortise Storeroom Lockset	RX-LX-L9092EU-T x 06B x 630 x 24V (Const. Keying)	630 / US32D / Satin Stainless Steel	Schlage		☐
3	Door Closer	4011 x REG x (LCN/ST 1544)	689 / US28 / Painted Aluminum	LCN		☐
3	Drop Plate	4020-18	689 / US28 / Painted Aluminum	LCN		☐
3	Overhead Stop	104S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
3	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
3	Smoke/Sound Seal	W-66 x 5400	Black	KN Crowder		☐
3	Auto Door Bottom	CT-54 x 965	628 / US28 / Clear Anodized	KN Crowder		☐
By Security Supplier						
3	Card Reader	To suit building system, by security provider				☐
3	REX Sensor	Built into lockset security to wire				☐
3	Latch Monitoring	Built into lockset security to wire				☐
3	Door Contact	To suit building system, by security provider				☐
3	Access Controller	To suit building system, by security provider				☐
3	Power Supply	To suit building system, by security provider				☐

By Pinders Security					
3	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome		

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider

End of Heading

Heading# 4

Opening Information					
Opening Type:	Pair	**Opening Size:**	2 x 750 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

1	**Total Openings**							
1	**Door#**	1080	**Location:**	Corridor 1081	From	IT Closet 1080	**Handing:**	RHRA

By Hardware Supplier					
2	Continuous Hinge	SL14HD x HT x 2150	628 / US28 / Clear Anodized	Select	
1	Storeroom Lockset	L9080T x 06B x 630 (Const. Keying)	630 / US32D / Satin Stainless Steel	Schlage	
2	Flush Bolts	FB458UL x C26D	626 / US26D / Satin Chrome	Adams Rite	
1	Dust Proof Strike	DP-2	630 / US32D / Satin Stainless Steel	Ives	
1	Door Closer	4111 x PA x 689 (LCN/ST 2779) – Active Leaf	689 / US28 / Painted Aluminum	LCN	
2	Overhead Stop	103F (With Friction Hold Open)	630 / US32D / Satin Stainless Steel	Glynn Johnson	
4	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX (Rounded Corners)	630 / US32D / Satin Stainless Steel	Gallery	
1	Smoke/Sound Seal	W-66 x 6500	Black	KN Crowder	
1	Z-Astragal	By HM Door Provider			
By Pinders Security					
1	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome		

Web Link | Site Verified

End of Heading

Heading# 5

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 965 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

1	**Total Openings**							
1	**Door#**	1083	**Location:**	Corridor 1081	To	WR (S) 1083	**Handing:**	RH

					Web Link	Site Verified
By Hardware Supplier						
1	Continuous Hinge	SL14HD x HT x EPT x 2150	628 / US28 / Clear Anodized	Select		☐
1	Power Transfer	EPT-10	689 / US28 / Painted Aluminum	Von Duprin		☐
1	Elec.Mortise Storeroom Lockset	RX-LX-L9092EU-T x 06B x 630 x 24V (Const. Keying)	630 / US32D / Satin Stainless Steel	Schlage		☐
1	Mortise Cylinder	20-062-ICX x B520-253 –Const. Keying	626 / US26D / Satin Chrome	Schlage		☐
1	Door Closer	4011 x REG x (LCN/ST 1544)	689 / US28 / Painted Aluminum	LCN		☐
1	Drop Plate	4020-18	689 / US28 / Painted Aluminum	LCN		☐
1	Overhead Stop	104S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
2	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Smoke/Sound Seal	W-66 x 5400	Black	KN Crowder		☐
1	Auto Door Bottom	CT-54 x 965	628 / US28 / Clear Anodized	KN Crowder		☐
By Security Supplier						
1	Card Reader	To suit building system, by security provider				☐
1	REX Sensor	Built into lockset security to wire				☐
1	Latch Monitoring	Built into lockset security to wire				☐
1	Door Contact	To suit building system, by security provider				☐
1	Access Controller	To suit building system, by security provider				☐

1	Power Supply	To suit building system, by security provider				☐
1	Push to Lock Button	To suit building system, by security provider – to Disable C/R While Washroom is in Use. Use LX or Door Contact to Reset after Exit.				
1	Occupancy Indicator Light	To suit building system, by security provider – to Light Up While Washroom is in Use via Push to Lock Button. Use LX or Door Contact to Reset after Exit.				
By Pinders Security						
1	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider

End of Heading

Heading# 6

Opening Information					
Opening Type:	Pair	**Opening Size:**	2 x 750 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

1	Total Openings							
1	**Door#**	1084	**Location:**	Corridor 1081	From	ALC. Storage 1084	**Handing:**	RHRA

By Hardware Supplier						
1	Continuous Hinge	SL14HD x HT x 2150	628 / US28 / Clear Anodized	Select		☐
1	Continuous Hinge	SL14HD x HT x EPT x 2150	628 / US28 / Clear Anodized	Select		☐
1	Power Transfer	EPT-10	689 / US28 / Painted Aluminum	Von Duprin		☐
1	Elec.Mortise Storeroom Lockset	RX-LX-L9092EU-T x 06B x 630 x 24V (Const. Keying)	630 / US32D / Satin Stainless Steel	Schlage		☐
2	Flush Bolts	FB458UL x C26D	626 / US26D / Satin Chrome	Adams Rite		☐
1	Dust Proof Strike	DP-2	630 / US32D / Satin Stainless Steel	Ives		☐
1	Door Closer	4111 x PA x 689 (LCN/ST 2779) – Active Leaf	689 / US28 / Painted Aluminum	LCN		☐
2	Overhead Stop	103F (With Friction Hold Open)	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
2	Flush Bolts	FB458UL x C26D	626 / US26D / Satin Chrome	Adams Rite		☐
4	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX (Rounded Corners)	630 / US32D / Satin Stainless Steel	Gallery		☐

Web Link | Site Verified

1	Smoke/Sound Seal	W-66 x 6500	Black	KN Crowder		☐
1	Z-Astragal	By HM Door Provider				
By Security Supplier						
1	Card Reader	To suit building system, by security provider				☐
1	REX Sensor	Built into lockset security to wire				☐
1	Latch Monitoring	Built into lockset security to wire				☐
2	Door Contact	To suit building system, by security provider				☐
1	Access Controller	To suit building system, by security provider				☐
1	Power Supply	To suit building system, by security provider				☐
By Pinders Security						
1	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider

End of Heading

Heading# 7

Opening Information					
Opening Type:	Pair	**Opening Size:**	1 x 965 x 2150 x 45 – 1 x 610 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

3	Total Openings							
1	**Door#**	1066.A	**Location:**	Corridor 1081	To	Group RM 1066	**Handing:**	LHA
1	**Door#**	1066	**Location:**	Corridor 1065	To	Group RM 1066	**Handing:**	RHA
1	**Door#**	1090.1	**Location:**	Corridor 1065	To	Injection 1090.1	**Handing:**	RHA

By Hardware Supplier					Web Link	Site Verified
3	Continuous Hinge	SL14HD x HT x 2150	628 / US28 / Clear Anodized	Select		☐
3	Continuous Hinge	SL14HD x HT x EPT x 2150	628 / US28 / Clear Anodized	Select		☐
3	Power Transfer	EPT-10	689 / US28 / Painted Aluminum	Von Duprin		☐
3	Elec.Mortise Storeroom Lockset	RX-LX-L9092EU-T x 06B x 630 x 24V (Const. Keying)	630 / US32D / Satin Stainless Steel	Schlage		☐
3	Semi-Auto Flush Bolts	FB51P	630 / US32D / Satin Stainless Steel	Ives		☐
3	Dust Proof Strike	DP-2	630 / US32D / Satin Stainless Steel	Ives		☐
3	Coordinator	COR42 x FL20	628 / US28 / Clear Anodized	Ives		☐
3	Mounting Bracket	MB2	628 / US28 / Clear Anodized	Ives		☐
6	Door Closer	4011 x REG x (LCN/ST 1544)	689 / US28 / Painted Aluminum	LCN		☐
6	Drop Plate	4020-18	689 / US28 / Painted Aluminum	LCN		☐
3	Overhead Stop	104S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
3	Overhead Stop	102S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
6	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX (Rounded Corners)	630 / US32D / Satin Stainless Steel	Gallery		☐
6	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX (Rounded Corners)	630 / US32D / Satin Stainless Steel	Gallery		☐
3	Ligature resistant Seals	188S-BK-ZAG x 6700	Black	Zero		☐
3	Door Sweep	W-24S-SS x 965 x TORX (Mount on Pull Side)	630 / US32D / Satin Stainless Steel	KN Crowder		☐

3	Door Sweep	W-24S-SS x 610 x TORX (Mount on Pull Side)	630 / US32D / Satin Stainless Steel	KN Crowder		☐
By Security Supplier						
3	Card Reader	To suit building system, by security provider				☐
3	REX Sensor	Built into lockset security to wire				☐
3	Latch Monitoring	Built into lockset security to wire				☐
6	Door Contact	To suit building system, by security provider				☐
3	Access Controller	To suit building system, by security provider				☐
3	Power Supply	To suit building system, by security provider				☐
By Pinders Security						
3	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider

End of Heading

Heading# 8

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 965 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

1	**Total Openings**								
1	**Door#**	1092.2A	**Location:**	Injection 1090.1	to/from	Medication 1092.2	**Handing:**	LH	

					Web Link	Site Verified
By Hardware Supplier						
1	Continuous Hinge	SL14HD x HT x EPT x 2150	628 / US28 / Clear Anodized	Select		☐
1	Power Transfer	EPT-10	689 / US28 / Painted Aluminum	Von Duprin		☐
1	Elec.Mortise Institutional Lockset	RX-LX-L9095EU-T x 06B x 630 x 24V (Const. Keying)	630 / US32D / Satin Stainless Steel	Schlage		☐
1	Door Closer	4011 x REG x (LCN/ST 1544)	689 / US28 / Painted Aluminum	LCN		☐
1	Drop Plate	4020-18	689 / US28 / Painted Aluminum	LCN		☐
1	Overhead Stop	104S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
2	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Smoke/Sound Seal	W-66 x 5400	Black	KN Crowder		☐
1	Auto Door Bottom	CT-54 x 965	628 / US28 / Clear Anodized	KN Crowder		☐
By Security Supplier						
2	Card Reader	To suit building system, by security provider				☐
1	REX Sensor	Built into lockset security to wire				☐
1	Latch Monitoring	Built into lockset security to wire				☐
1	Door Contact	To suit building system, by security provider				☐
1	Access Controller	To suit building system, by security provider				☐
1	Power Supply	To suit building system, by security provider				☐
By Pinders Security						
2	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider

End of Heading

Heading# 9

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 965 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

1	**Total Openings**							
1	**Door#**	1092.2B	**Location:**	Corridor 1081	From	Medication 1092.2	**Handing:**	RHR

					Web Link	Site Verified
By Hardware Supplier						
1	Continuous Hinge	SL14HD x HT x EPT x 2150	628 / US28 / Clear Anodized	Select		☐
1	Power Transfer	EPT-10	689 / US28 / Painted Aluminum	Von Duprin		☐
1	Elec.Mortise Storeroom Lockset	RX-LX-L9080T x 06B x 630(Const. Keying)	630 / US32D / Satin Stainless Steel	Schlage		☐
1	Electric Strike	1500C	630 / US32D / Satin Stainless Steel	HES		☐
1	Electric Strike Protector	150 x C32D	630 / US32D / Satin Stainless Steel	HES		☐
1	Overhead Stop	104S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
2	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Smoke/Sound Seal	W-66 x 5400	Black	KN Crowder		☐
1	Auto Door Bottom	CT-54 x 965	628 / US28 / Clear Anodized	KN Crowder		☐
By Automatics Supplier						
1	Auto Operator	Micom Smart Swing 3 – Single Door – Push Mount.	628 / US28 / Clear Anodized	MICOM		☐
2	Wave Button	CM-331/S/W/42/SGLR	630 / US32D / Satin Stainless Steel	Camden		☐
1	Logic Relay	CX-33		Camden		☐
By Security Supplier						
1	Card Reader	To suit building system, by security provider				☐
1	REX Sensor	Built into lockset & tied into non-secure side Wave Button - security to wire				☐

1	Latch Monitoring	Built into lockset security to wire				☐
1	Door Contact	To suit building system, by security provider				☐
1	Access Controller	To suit building system, by security provider				☐
1	Power Supply	To suit building system, by security provider				☐
By Pinders Security						
1	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider
- 120VAC is required at the head of the door for all handicap door operators, 15A dedicated circuit. Wall/Frame must be reinforced for automatic operator mounting, all conduit and back boxes with pull cords are to be provided by the electrical contractor.
- Electrician to confirm wire locations with auto door operator supplier prior to pulling wires.

End of Heading

Heading# 10

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 965 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

1	**Total Openings**							
1	**Door#**	1071.2	**Location:**	Care Team STN 1071.1	to	ALC LKRS 1071.2	**Handing:**	RH

By Hardware Supplier					Web Link	Site Verified
1	Continuous Hinge	SL14HD x HT x 2150	628 / US28 / Clear Anodized	Select		☐
1	Passage Latchset	L9010 x 06B x 630	630 / US32D / Satin Stainless Steel	Schlage		☐
1	Door Closer	4011 x REG x (LCN/ST 1544)	689 / US28 / Painted Aluminum	LCN		☐
1	Drop Plate	4020-18	689 / US28 / Painted Aluminum	LCN		☐
1	Overhead Stop	104S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
2	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Smoke/Sound Seal	W-66 x 5400	Black	KN Crowder		☐
1	Auto Door Bottom	CT-54 x 965	628 / US28 / Clear Anodized	KN Crowder		☐

End of Heading

Heading# 11A

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 965 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

1	**Total Openings**								
1	**Door#**	1077	**Location:**	Corridor	To	Storage 1077	**Handing:**	RH	

					Web Link	Site Verified
By Hardware Supplier						
1	Continuous Hinge	SL14HD x HT x EPT x 2150	628 / US28 / Clear Anodized	Select		☐
1	Power Transfer	EPT-10	689 / US28 / Painted Aluminum	Von Duprin		☐
1	Elec.Mortise Storeroom Lockset	RX-LX-L9092EU-T x 06B x 630 x 24V (Const. Keying)	630 / US32D / Satin Stainless Steel	Schlage		☐
1	Door Closer	4011 x REG x (LCN/ST 1544)	689 / US28 / Painted Aluminum	LCN		☐
1	Drop Plate	4020-18	689 / US28 / Painted Aluminum	LCN		☐
1	Overhead Stop	104S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
2	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Smoke / Sound Seal	W-66 x 5400	Black	KN Crowder		☐
1	Auto Door Bottom	CT-54 x 695	628 / US28 / Clear Anodized	KN Crowder		☐
By Security Supplier						
1	Card Reader	To suit building system, by security provider				☐
1	Door Contact	To suit building system, by security provider				☐
1	REX Sensor	Built into lockset security to wire				☐
1	Latch Monitoring	Built into lockset security to wire				☐
1	Access Controller	To suit building system, by security provider				☐
1	Power Supply	To suit building system, by security provider				☐
By Pinders Security						
1	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider.

End of Heading

Heading# 11B

Opening Information					
Opening Type:	Single	**Opening Size:**	1070 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

1	Total Openings							
1	**Door#**	1072	**Location:**	Corridor 1070	To	WR (3PC) ACC 1072	**Handing:**	DA

					Web Link	Site Verified
By Hardware Supplier						
1	Double Acting hinge	DSH1000 x 2150	630 / US32D / Satin Stainless Steel	Markar		☐
1	Emergency Release stop	ERS-84-C-HT-LH-NOTCH	628 / US28 / Clear Anodized	Pemko		☐
1	Storeroom Lockset	CH 9159SEC-234-US32D-LH-134-LRCC.562-SP	630 / US32D / Satin Stainless Steel	Accurate		☐
1	Mortise Cylinder	30-008 x B520-253 – Const. Keying	626 / US26D / Satin Chrome	Schlage		☐
1	Electric Strike	1500C-TORX	630 / US32D / Satin Stainless Steel	HES		☐
1	Overhead Stop	105S-SOC	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
2	Armour Plates	GSH 90F – 864 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Ligature resistant Seals	188S-BK-ZAG x 5400	Black	Zero		☐
By Automatics Supplier						
1	Auto Operator	Micom Smart Swing 3 – Single Door -Security Screws (Break Away Arm) – Corridor Side Mount	628 / US28 / Clear Anodized	MICOM		☐
1	Wave to lock kit	CX-WC16 - Security Screws	630 / US32D / Satin Stainless Steel	Camden		☐
By Pinders Security						
1	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider
- 120VAC is required at the head of the door for all handicap door operators, 15A dedicated circuit. Wall/Frame must be reinforced for automatic operator mounting, all conduit and back boxes with pull cords are to be provided by the electrical contractor.
- Electrician to confirm wire locations with auto door operator supplier prior to pulling wires.

End of Heading

Heading# 12

Opening Information					
Opening Type:	Single	**Opening Size:**	1070 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

1	**Total Openings**							
1	**Door#**	1075	**Location:**	Corridor 1074	To	WR (P ACC) 1075	**Handing:**	DA

					Web Link	Site Verified
By Hardware Supplier						
1	Double Acting hinge	DSH1000 x 2150	630 / US32D / Satin Stainless Steel	Markar		☐
1	Emergency Release stop	ERS-84-C-HT-RH-NOTCH	628 / US28 / Clear Anodized	Pemko		☐
1	Storeroom Lockset	CH 9159SEC-234-US32D-RH-134-LRCC.562-SP	630 / US32D / Satin Stainless Steel	Accurate		☐
1	Mortise Cylinder	30-008 x B520-253 – Const. Keying	626 / US26D / Satin Chrome	Schlage		☐
1	Electric Strike	1500C-TORX	630 / US32D / Satin Stainless Steel	HES		☐
1	Overhead Stop	105S-SOC	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
2	Armour Plates	GSH 90F – 864 x To Suit Door Width x TORX(Rounded Corners)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Ligature resistant Seals	188S-BK-ZAG x 5400	Black	Zero		☐
By Automatics Supplier						
1	Auto Operator	Micom Smart Swing 3 – Single Door -Security Screws (Break Away Arm) – Corridor Side Mount	628 / US28 / Clear Anodized	MICOM		☐
1	Wave to lock kit	CX-WC16 - Security Screws	630 / US32D / Satin Stainless Steel	Camden		☐
By Pinders Security						
1	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider
- 120VAC is required at the head of the door for all handicap door operators, 15A dedicated circuit. Wall/Frame must be reinforced for automatic operator mounting, all conduit and back boxes with pull cords are to be provided by the electrical contractor.
- Electrician to confirm wire locations with auto door operator supplier prior to pulling wires.

End of Heading

Heading# 13

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 965 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

1	**Total Openings**									
1	**Door#**	1074	**Location:**	Corridor 1081	to/from	Corridor 1074	**Handing:**	RH	Web Link	Site Verified

By Hardware Supplier						
1	Continuous Hinge	SL14HD x HT x EPT x 2150	628 / US28 / Clear Anodized	Select	🌐	☐
1	Power Transfer	EPT-10	689 / US28 / Painted Aluminum	Von Duprin	🌐	☐
1	Elec. Exit Device	RX-LX-QEL-98EO-NL-F x 110NL-MD x 4'0	630 / US32D / Satin Stainless Steel	Von Duprin	🌐	☐
1	Rim Cylinder	20-057 – Const. Keying	626 / US26D / Satin Chrome	Schlage	🌐	☐
1	Off-Set Door Pull	GSH 1180-3 x #2 MTG x 630	630 / US32D / Satin Stainless Steel	Gallery	🌐	☐
1	Vandal Resistant Closer	4511-ST/2443-TBTRX	689 / US28 / Painted Aluminum	LCN	🌐	☐
1	Drop Plate	4020-18	689 / US28 / Painted Aluminum	LCN	🌐	☐
1	Overhead Stop	104S	630 / US32D / Satin Stainless Steel	Glynn Johnson	🌐	☐
2	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery	🌐	☐
1	Smoke/Sound Seal	W-66 x 5400	Black	KN Crowder	🌐	☐
1	Auto Door Bottom	CT-54 x 965	628 / US28 / Clear Anodized	KN Crowder	🌐	☐
By Security Supplier						
2	Card Reader	To suit building system, by security provider				☐
1	Magnetic Lock	M680E-BD x Security Screws	630 / US32D / Satin Stainless Steel	Securitron	🌐	☐
1	Door Contact	To suit building system, by security provider				☐
1	Access Controller	To suit building system, by security provider				☐
1	Power Supply	To suit building system, by security provider				☐
1	Fire Pull Station	As required by local jurisdiction				☐
1	FA Disconnect	As required by local jurisdiction				

By Pinders Security					
1	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome		

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider.
- Magnetic Locks need to be tied in to fire control panel for disconnect in the event of fire.

End of Heading

Heading# 14

Opening Information					
Opening Type:	Single	**Opening Size:**	1070 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

1	Total Openings							
1	**Door#**	1076	**Location:**	Corridor 1074	To	WR (3PC) 1076	**Handing:**	DA

By Hardware Supplier						
1	Double Acting hinge	DSH1000 x 2150	630 / US32D / Satin Stainless Steel	Markar		
1	Emergency Release stop	ERS-84-C-HT-RH-NOTCH	628 / US28 / Clear Anodized	Pemko		
1	Storeroom Lockset	CH 9159SEC-234-US32D-RH-134-LRCC.562-SP	630 / US32D / Satin Stainless Steel	Accurate		
1	Mortise Cylinder	30-008 x B520-253 – Const. Keying	626 / US26D / Satin Chrome	Schlage		
1	Electric Strike	1500C-TORX	630 / US32D / Satin Stainless Steel	HES		
1	Overhead Stop	105S-SOC	630 / US32D / Satin Stainless Steel	Glynn Johnson		
2	Armour Plates	GSH 90F – 864 x To Suit Door Width x TORX(Rounded Corners)	630 / US32D / Satin Stainless Steel	Gallery		
1	Ligature resistant Seals	188S-BK-ZAG x 5400	Black	Zero		
By Automatics Supplier						
1	Auto Operator	Micom Smart Swing 3 – Single Door -Security Screws (Break Away Arm) – Corridor Side Mount	628 / US28 / Clear Anodized	MICOM		
1	Wave to lock kit	CX-WC16 - Security Screws	630 / US32D / Satin Stainless Steel	Camden		
By Pinders Security						
1	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			

Web Link | Site Verified

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider

- 120VAC is required at the head of the door for all handicap door operators, 15A dedicated circuit. Wall/Frame must be reinforced for automatic operator mounting, all conduit and back boxes with pull cords are to be provided by the electrical contractor.
- Electrician to confirm wire locations with auto door operator supplier prior to pulling wires.

End of Heading

Heading# 15

Opening Information					
Opening Type:	Single	**Opening Size:**	1220 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	3/4 HR

8	Total Openings							
1	**Door#**	1070.8	**Location:**	Corridor 1074	To	Patient RM 1070.8	**Handing:**	RH
1	**Door#**	1070.7	**Location:**	Corridor 1074	To	Patient RM 1070.7	**Handing:**	RH
1	**Door#**	1070.1	**Location:**	Corridor 1070	To	Patient RM 1070.1	**Handing:**	LH
1	**Door#**	1070.2	**Location:**	Corridor 1070	To	Patient RM 1070.2	**Handing:**	LH
1	**Door#**	1070.3	**Location:**	Corridor 1070	To	Patient RM 1070.3	**Handing:**	LH
1	**Door#**	1070.4	**Location:**	Corridor 1070	To	Patient RM 1070.4	**Handing:**	LH
1	**Door#**	1070.5	**Location:**	Corridor 1070	To	Patient RM 1070.5	**Handing:**	LH
1	**Door#**	1070.6	**Location:**	Corridor 1070	To	Patient RM 1070.6	**Handing:**	LH

Web Link | Site Verified

By Hardware Supplier						
8	Continuous Hinge	EL-CH-953 HT x 2125 – 8WIRE - TORX	628 / US28 / Clear Anodized	Gallery		☐
8	Elec. Institution Anti-Ligature Mortise Lock	CH-M9158E-SEC-LM-DPS-234-US32D-RH-134-LRCC.562-SP	630 / US32D / Satin Stainless Steel	Accurate		☐
8	Elec. Institution Anti-Ligature Mortise Lock	CH-M9158E-SEC-LM-DPS-234-US32D-LH-134-LRCC.562-SP	630 / US32D / Satin Stainless Steel	Accurate		☐
16	Mortise Cylinder	30-008 x B520-253 – Const. Keying	626 / US26D / Satin Chrome	Schlage		☐
8	Vandal Resistant Closer	4211-TBTRX	689 / US28 / Painted Aluminum	LCN		☐
8	Overhead Stop	106S-SOC	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
16	Armour Plates	GSH 90F – 864 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
8	Ligature resistant Seals	188S-BK-ZAG x 6000	Black	Zero		☐
8	Auto Door Bottom	CT-54 x 1220	628 / US28 / Clear Anodized	KN Crowder		☐
By Security Supplier						
16	Concealed Card Reader	To suit building system, by security provider – see elevation				☐
8	Door Contact / Latch Monitoring	Built into lockset security to wire				☐

8	Door Controller	To suit building system, by security provider				☐
8	Power Supply	To suit building system, by security provider				☐
By Pinders Security						
16	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

End of Heading

Heading# 16

Opening Information					
Opening Type:	Single	**Opening Size:**	610 x 2150 x 45	**STC Rating**	None
Door Material:	SCWD	**Frame Material:**	HMF	**Fire Rating**	3/4 HR

8	**Total Openings**							
1	**Door#**	1070.8A	**Location:**	Corridor 1074	From	Patient RM 1070.8	**Handing:**	LHR
1	**Door#**	1070.7A	**Location:**	Corridor 1074	From	Patient RM 1070.7	**Handing:**	LHR
1	**Door#**	1070.1A	**Location:**	Corridor 1070	From	Patient RM 1070.1	**Handing:**	RHR
1	**Door#**	1070.2A	**Location:**	Corridor 1070	From	Patient RM 1070.2	**Handing:**	RHR
1	**Door#**	1070.3A	**Location:**	Corridor 1070	From	Patient RM 1070.3	**Handing:**	RHR
1	**Door#**	1070.4A	**Location:**	Corridor 1070	From	Patient RM 1070.4	**Handing:**	RHR
1	**Door#**	1070.5A	**Location:**	Corridor 1070	From	Patient RM 1070.5	**Handing:**	RHR
1	**Door#**	1070.6A	**Location:**	Corridor 1070	From	Patient RM 1070.6	**Handing:**	RHR

Web Link Site Verified

By Hardware Supplier						
8	Continuous Hinge	CH-953 HT x 2125 - TORX	628 / US28 / Clear Anodized	Gallery		☐
8	Institutional Mortise Lockset	L9482T x LESS TRIM x LESS 1 CYL – (Const. Keying)	630 / US32D / Satin Stainless Steel	Schlage		☐
8	Mortise Cylinder Pull	GSH 980	630 / US32D / Satin Stainless Steel	Gallery		☐
8	Vandal Resistant Closer	4511-ST/2443-TBTRX	689 / US28 / Painted Aluminum	LCN		☐
8	Drop Plate	4020-18``	689 / US28 / Painted Aluminum	LCN		☐
8	Overhead Stop	102S-SOC	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
8	Armour Plates	GSH 90F – 864 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
8	Ligature resistant Seals	188S-BK-ZAG x 5400	Black	Zero		☐
8	Auto Door Bottom	CT-54 x 610	628 / US28 / Clear Anodized	KN Crowder		☐
By Pinders Security						
8	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

End of Heading

Heading# 17

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 1070 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

1	**Total Openings**								
1	**Door#**	1070.1	**Location:**	Corridor 1070	to/from	Care Team STN 1070.1	**Handing:**	LH	

					Web Link	Site Verified
By Hardware Supplier						
1	Continuous Hinge	SL14HD x HT x EPT x 2150	628 / US28 / Clear Anodized	Select		☐
1	Power Transfer	EPT-10	689 / US28 / Painted Aluminum	Von Duprin		☐
1	Elec.Mortise Storeroom Lockset	RX-LX-LV9092EU-T x 06B x 630 x 24V (Const. Keying)	630 / US32D / Satin Stainless Steel	Schlage		☐
1	Vandal Resistant Closer	4511-ST/2443-TBTRX	689 / US28 / Painted Aluminum	LCN		☐
1	Drop Plate	4020-18	689 / US28 / Painted Aluminum	LCN		☐
1	Overhead Stop	105S-SOC	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
2	Armour Plates	GSH 90F – 864 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Ligature resistant Seals	188S-BK-ZAG x 5400	Black	Zero		☐
1	Auto Door Bottom	CT-54 x 1070	628 / US28 / Clear Anodized	KN Crowder		☐
By Security Supplier						
2	Card Reader	To suit building system, by security provider				☐
1	Magnetic Lock	M680E-BD x Security Screws	630 / US32D / Satin Stainless Steel	Securitron		☐
1	Door Contact	To suit building system, by security provider				☐
1	Access Controller	To suit building system, by security provider				☐
1	Power Supply	To suit building system, by security provider				☐
1	Fire Pull Station	As required by local jurisdiction				☐
1	FA Disconnect	As required by local jurisdiction				
By Pinders Security						
1	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider.
- Magnetic Locks need to be tied in to fire control panel for disconnect in the event of fire.

End of Heading

Heading# 18

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 965 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

1	Total Openings								
1	**Door#**	1071.A	**Location:**	Corridor 1074	to/from	Care Team STN 1071	**Handing:**	RH	

					Web Link	Site Verified
By Hardware Supplier						
1	Continuous Hinge	SL14HD x HT x EPT x 2150	628 / US28 / Clear Anodized	Select		☐
1	Power Transfer	EPT-10	689 / US28 / Painted Aluminum	Von Duprin		☐
1	Elec.Mortise Storeroom Lockset	RX-LX-LV9092EU-T x 06B x 630 x 24V (Const. Keying)	630 / US32D / Satin Stainless Steel	Schlage		☐
1	Vandal Resistant Closer	4511-ST/2443-TBTRX	689 / US28 / Painted Aluminum	LCN		☐
1	Drop Plate	4020-18	689 / US28 / Painted Aluminum	LCN		☐
1	Overhead Stop	104S-SOC	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
2	Armour Plates	GSH 90F – 864 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Ligature resistant Seals	188S-BK-ZAG x 5400	Black	Zero		☐
1	Auto Door Bottom	CT-54 x 965	628 / US28 / Clear Anodized	KN Crowder		☐
By Security Supplier						
2	Card Reader	To suit building system, by security provider				☐
1	Magnetic Lock	M680E-BD x Security Screws	630 / US32D / Satin Stainless Steel	Securitron		☐
1	Door Contact	To suit building system, by security provider				☐
1	Access Controller	To suit building system, by security provider				☐
1	Power Supply	To suit building system, by security provider				☐
1	Fire Pull Station	As required by local jurisdiction				☐
1	FA Disconnect	As required by local jurisdiction				☐

By Pinders Security					
1	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome		

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider.

End of Heading

Heading# 19

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 1220 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

1	**Total Openings**								
1	**Door#**	1070	**Location:**	Corridor 1065	to/from	Corridor 1070	**Handing:**	RH	

					Web Link	Site Verified
By Hardware Supplier						
1	Continuous Hinge	SL14HD x HT x EPT x 2150	628 / US28 / Clear Anodized	Select		☐
1	Power Transfer	EPT-10	689 / US28 / Painted Aluminum	Von Duprin		☐
1	Elec. Exit Device	RX-LX-QEL-98EO-NL-F x 110NL-MD x 4'0	630 / US32D / Satin Stainless Steel	Von Duprin		☐
1	Rim Cylinder	20-057 – Const. Keying	626 / US26D / Satin Chrome	Schlage		☐
1	Off-Set Door Pull	GSH 1180-3 x #2 MTG x 630	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Vandal Resistant Closer	4511-ST/2443-TBTRX	689 / US28 / Painted Aluminum	LCN		☐
1	Drop Plate	4020-18	689 / US28 / Painted Aluminum	LCN		☐
1	Overhead Stop	106S - SOC	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
2	Armour Plates	GSH 90F – 864 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Smoke/Sound Seal	W-66 x 6000	Black	KN Crowder		☐
1	Auto Door Bottom	CT-54 x 1220	628 / US28 / Clear Anodized	KN Crowder		☐
By Security Supplier						
2	Card Reader	To suit building system, by security provider				☐
1	Magnetic Lock	M680E-BD x Security Screws	630 / US32D / Satin Stainless Steel	Securitron		☐
1	Door Contact	To suit building system, by security provider				☐
1	Access Controller	To suit building system, by security provider				☐
1	Power Supply	To suit building system, by security provider				☐
1	Fire Pull Station	As required by local jurisdiction				☐
1	FA Disconnect	As required by local jurisdiction				
By Pinders Security						

1	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider.

End of Heading

Heading# 20

Opening Information					
Opening Type:	Pair	**Opening Size:**	2-915 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	3/4 HR

1	**Total Openings**							
1	**Door#**	1092	**Location:**	Corridor 1092	From	Corridor 1063	**Handing:**	LHRA/RHRA

					Web Link	Site Verified
By Hardware Supplier						
2	Continuous Hinge	SL14HD x HT x 2150	628 / US28 / Clear Anodized	Select		☐
2	Exit Device w/ Lever Classroom Trim	9847L-F x 996L x 06 Lever x LBR x 3'0	630 / US32D / Satin Stainless Steel	Von Duprin		☐
2	Rim Cylinder	20-057 – Const. Keying	626 / US26D / Satin Chrome	Schlage		☐
2	Door Closer	4111 x PA x 689 (LCN/ST 2779)	689 / US28 / Painted Aluminum	LCN		☐
2	Overhead Stop	104S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
4	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Smoke / Sound Seal	W-66 x 6330	Black	KN Crowder		☐
1	Astragal Set	W-25 x 2150	628 / US28 / Clear Anodized	KN Crowder		☐
2	Auto Door Bottom	CT-54 x 915	628 / US28 / Clear Anodized	KN Crowder		☐
By Security Supplier						
1	Card Reader	To suit building system, by security provider				☐
2	Magnetic Lock	M680E-BD-X (PIR) - Security Screws	630 / US32D / Satin Stainless Steel	Securitron		☐
2	REX Sensor	C/W Maglock				☐
2	Door Contact	To suit building system, by security provider				☐
1	Access Controller	To suit building system, by security provider				☐
1	Power Supply	To suit building system, by security provider				☐
1	Fire Pull Station	As required by local jurisdiction				☐

1	FA Disconnect	As required by local jurisdiction			☐
By Pinders Security					
2	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome		☐

Notes:

- 120VAC is required at the head of the door for all handicap door operators, 15A dedicated circuit. Wall/Frame must be reinforced for automatic operator mounting, all conduit and back boxes with pull cords are to be provided by the electrical contractor.
- Magnetic Locks need to be tied in to fire control panel for disconnect in the event of fire.
- Electrical contractor to confirm the quantity of wires needed for wave buttons with the automatics provider prior to pulling wires.
- Exit Device Lever Trims May Be Optionally Locked If Required.

End of Heading

Heading# 21

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 1070 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

1	**Total Openings**								
1	**Door#**	1092.A	**Location:**	Waiting 1091	to/from	Corridor 1081	**Handing:**	LHR	

					Web Link	Site Verified
By Hardware Supplier						
1	Continuous Hinge	SL14HD x HT x 2150	628 / US28 / Clear Anodized	Select		☐
1	Exit Device w/ Lever Classroom Trim	98L-F x 996L x 06 x 4'0	630 / US32D / Satin Stainless Steel	Von Duprin		☐
1	Rim Cylinder	20-057 – Const. Keying	626 / US26D / Satin Chrome	Schlage		☐
1	Door Closer	4111 x PA x 689 (LCN/ST 2779)	689 / US28 / Painted Aluminum	LCN		☐
1	Overhead Stop	105S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
2	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Smoke/Sound Seal	W-66 x 6000	Black	KN Crowder		☐
1	Auto Door Bottom	CT-54 x 1070	628 / US28 / Clear Anodized	KN Crowder		☐
By Security Supplier						
2	Card Reader	To suit building system, by security provider				☐
1	Magnetic Lock	M680E-BD x Security Screws	630 / US32D / Satin Stainless Steel	Securitron		☐
1	Door Contact	To suit building system, by security provider				☐
1	Access Controller	To suit building system, by security provider				☐
1	Power Supply	To suit building system, by security provider				☐
1	Fire Pull Station	As required by local jurisdiction				☐
1	FA Disconnect	As required by local jurisdiction				
By Pinders Security						
1	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider.
- Magnetic Locks need to be tied in to fire control panel for disconnect in the event of fire.

- Exit Device Lever Trims May Be Optionally Locked If Required.

End of Heading

Heading# 22

Opening Information					
Opening Type:	Single	**Opening Size:**	1070 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

1	Total Openings							
1	**Door#**	1093	**Location:**	Corridor 1092	To	WR P ACC 1093	**Handing:**	DA

					Web Link	Site Verified
By Hardware Supplier						
1	Double Acting hinge	DSH1000 x 2150	630 / US32D / Satin Stainless Steel	Markar		☐
1	Emergency Release stop	ERS-84-C-HT-LH-NOTCH	628 / US28 / Clear Anodized	Pemko		☐
1	Storeroom Lockset	L9080T x 06B x 630 (Const. Keying)	630 / US32D / Satin Stainless Steel	Schlage		☐
1	Electric Strike	1500C-TORX	630 / US32D / Satin Stainless Steel	HES		☐
1	Overhead Stop	105S-SOC	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
2	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Smoke/Sound Seal	W-66 x 5400	Black	KN Crowder		☐
By Automatics Supplier						
1	Auto Operator	Micom Smart Swing 3 – Single Door -Security Screws (Break Away Arm) – Corridor Side Mount	628 / US28 / Clear Anodized	MICOM		☐
1	Wave to lock kit	CX-WC16 - Security Screws	630 / US32D / Satin Stainless Steel	Camden		☐
By Pinders Security						
1	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider
- 120VAC is required at the head of the door for all handicap door operators, 15A dedicated circuit. Wall/Frame must be reinforced for automatic operator mounting, all conduit and back boxes with pull cords are to be provided by the electrical contractor.
- Electrician to confirm wire locations with auto door operator supplier prior to pulling wires.

End of Heading

Heading# 23

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 1220 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	3/4 HR

1	**Total Openings**								
1	**Door#**	1065	**Location:**	Corridor 1065	to/from	Corridor 1099	**Handing:**	LHR	

					Web Link	Site Verified
By Hardware Supplier						
1	Continuous Hinge	SL14HD x HT x 2150	628 / US28 / Clear Anodized	Select		☐
1	Exit Device w/ Lever Classroom Trim	98L-F x 996L x 06 x 4'0	630 / US32D / Satin Stainless Steel	Von Duprin		☐
1	Rim Cylinder	20-057 – Const. Keying	626 / US26D / Satin Chrome	Schlage		☐
1	Door Closer	4111 x PA x 689 (LCN/ST 2779)	689 / US28 / Painted Aluminum	LCN		☐
1	Overhead Stop	106S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
2	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Smoke/Sound Seal	W-66 x 6200	Black	KN Crowder		☐
1	Auto Door Bottom	CT-54 x 1220	628 / US28 / Clear Anodized	KN Crowder		☐
By Security Supplier						
2	Card Reader	To suit building system, by security provider				☐
1	Magnetic Lock	M680E-BD x Security Screws	630 / US32D / Satin Stainless Steel	Securitron		☐
1	Door Contact	To suit building system, by security provider				☐
1	Access Controller	To suit building system, by security provider				☐
1	Power Supply	To suit building system, by security provider				☐
1	Fire Pull Station	As required by local jurisdiction				☐
1	FA Disconnect	As required by local jurisdiction				
By Pinders Security						
1	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider.
- Magnetic Locks need to be tied in to fire control panel for disconnect in the event of fire.

- Exit Device Lever Trims May Be Optionally Locked If Required.

End of Heading

Heading# 24

Opening Information					
Opening Type:	Pair	**Opening Size:**	2-1150 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	3/4 HR

1	**Total Openings**									
1	**Door#**	1065.A	**Location:**	Corridor 1065	to/from	Existing Corridor	**Handing:**	DE	Web Link	Site Verified

By Hardware Supplier						
2	Continuous Hinge	SL14HD x HT x 2150	628 / US28 / Clear Anodized	Select		☐
2	Exit Device	9847EO-F x LBR x 4'0	630 / US32D / Satin Stainless Steel	Von Duprin		☐
2	Door Closer	4111 x PA x 689 (LCN/ST 2779)	689 / US28 / Painted Aluminum	LCN		☐
2	Overhead Stop	106S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
4	Armour Plates	GSH 90F – 864 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Smoke / Sound Seal	W-66 x 8500	Black	KN Crowder		☐
2	Auto Door Bottom	CT-54 x 1150	628 / US28 / Clear Anodized	KN Crowder		☐
By Security Supplier						
1	Card Reader	To suit building system, by security provider				☐
2	Magnetic Lock	M680E-BD-X (PIR) - Security Screws	630 / US32D / Satin Stainless Steel	Securitron		☐
2	Door Contact	To suit building system, by security provider				☐
1	Access Controller	To suit building system, by security provider				☐
1	Power Supply	To suit building system, by security provider				☐
1	Fire Pull Station	As required by local jurisdiction				☐
1	FA Disconnect	As required by local jurisdiction				☐

Notes:

- 120VAC is required at the head of the door for all handicap door operators, 15A dedicated circuit. Wall/Frame must be reinforced for automatic operator mounting, all conduit and back boxes with pull cords are to be provided by the electrical contractor.
- Magnetic Locks need to be tied in to fire control panel for disconnect in the event of fire.

- Electrical contractor to confirm the quantity of wires needed for wave buttons with the automatics provider prior to pulling wires.

End of Heading

Heading# 25

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 965 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

1	**Total Openings**								
1	**Door#**	1099.2	**Location:**	Corridor 1099	To	SSAU PSY 1099.2	**Handing:**	LH	

					Web Link	Site Verified
By Hardware Supplier						
1	Continuous Hinge	SL14HD x HT x EPT x 2150	628 / US28 / Clear Anodized	Select		☐
1	Power Transfer	EPT-10	689 / US28 / Painted Aluminum	Von Duprin		☐
1	Elec.Mortise Storeroom Lockset	RX-LX-LV9092EU-T x 06B x 630 x 24V (Const. Keying)	630 / US32D / Satin Stainless Steel	Schlage		☐
1	Door Closer	4011 x REG x (LCN/ST 1544)	689 / US28 / Painted Aluminum	LCN		☐
1	Drop Plate	4020-18	689 / US28 / Painted Aluminum	LCN		☐
1	Overhead Stop	104S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
2	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Smoke / Sound Seal	W-66 x 5400	Black	KN Crowder		☐
1	Auto Door Bottom	CT-54 x 965	628 / US28 / Clear Anodized	KN Crowder		☐
By Security Supplier						
1	Card Reader	To suit building system, by security provider				☐
1	Door Contact	To suit building system, by security provider				☐
1	REX Sensor	Built into lockset security to wire				☐
1	Latch Monitoring	Built into lockset security to wire				☐
1	Access Controller	To suit building system, by security provider				☐
1	Power Supply	To suit building system, by security provider				☐
By Pinders Security						
1	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider.

End of Heading

Heading# 26

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 965 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

1	**Total Openings**							
1	**Door#**	1144	**Location:**	HSKP Storage 1141	To	WR 1144	**Handing:**	RH

By Hardware Supplier					Web Link	Site Verified
1	Continuous Hinge	SL14HD x HT x 2150	628 / US28 / Clear Anodized	Select		☐
1	Privacy Latchset	LV9044 x 06B x L283-712 x L283-722 x 630	630 / US32D / Satin Stainless Steel	Schlage		☐
1	Door Closer	4011 x REG x (LCN/ST 1544)	689 / US28 / Painted Aluminum	LCN		☐
1	Drop Plate	4020-18	689 / US28 / Painted Aluminum	LCN		☐
1	Overhead Stop	104S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
2	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Smoke / Sound Seal	W-66 x 5400	Black	KN Crowder		☐
1	Auto Door Bottom	CT-54 x 965	628 / US28 / Clear Anodized	KN Crowder		☐

End of Heading

Heading# 27

Opening Information					
Opening Type:	Pair	**Opening Size:**	1 x 965 x 2150 x 45 – 1 x 535 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

1	**Total Openings**								
1	**Door#**	1141	**Location:**	Corridor 1057	To	HSKP Storage 1141	**Handing:**	LHA	

					Web Link	Site Verified
By Hardware Supplier						
1	Continuous Hinge	SL14HD x HT x 2150	628 / US28 / Clear Anodized	Select		☐
1	Continuous Hinge	SL14HD x HT x EPT x 2150	628 / US28 / Clear Anodized	Select		☐
1	Power Transfer	EPT-10	689 / US28 / Painted Aluminum	Von Duprin		☐
1	Elec.Mortise Storeroom Lockset	RX-LX-L9092EU-T x 06B x 630 x 24V (Const. Keying)	630 / US32D / Satin Stainless Steel	Schlage		☐
2	Flush Bolts	FB458UL x C26D	626 / US26D / Satin Chrome	Adams Rite		☐
1	Dust Proof Strike	DP-2	630 / US32D / Satin Stainless Steel	Ives		☐
1	Door Closer	4011 x REG x (LCN/ST 1544)	689 / US28 / Painted Aluminum	LCN		☐
1	Drop Plate	4020-18	689 / US28 / Painted Aluminum	LCN		☐
1	Overhead Stop	104S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
1	Overhead Stop	101S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
2	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
2	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Smoke / Sound Seal	W-66 x 6500	Black	KN Crowder		☐
1	Door Sweep	W-24S-SS x 965 x TORX (Mount on Pull Side)	630 / US32D / Satin Stainless Steel	KN Crowder		☐
1	Door Sweep	W-24S-SS x 535 x TORX (Mount on Pull Side)	630 / US32D / Satin Stainless Steel	KN Crowder		☐
By Security Supplier						
1	Card Reader	To suit building system, by security provider				☐
1	REX Sensor	Built into lockset security to wire				☐
1	Latch Monitoring	Built into lockset security to wire				☐
2	Door Contact	To suit building system, by security provider				☐

1	Access Controller	To suit building system, by security provider				☐
1	Power Supply	To suit building system, by security provider				☐
By Pinders Security						
1	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider

End of Heading

Heading# 28

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 965 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

1	Total Openings								
1	**Door#**	1043	**Location:**	HSKP Storage 1141	To	HSKP OFF 1143	**Handing:**	RH	

					Web Link	Site Verified
By Hardware Supplier						
1	Continuous Hinge	SL14HD x HT x EPT x 2150	628 / US28 / Clear Anodized	Select		☐
1	Power Transfer	EPT-10	689 / US28 / Painted Aluminum	Von Duprin		☐
1	Elec.Mortise Storeroom Lockset	RX-LX-L9092EU-T x 06B x 630 x 24V (Const. Keying)	630 / US32D / Satin Stainless Steel	Schlage		☐
1	Door Closer	4011 x REG x (LCN/ST 1544)	689 / US28 / Painted Aluminum	LCN		☐
1	Drop Plate	4020-18	689 / US28 / Painted Aluminum	LCN		☐
1	Overhead Stop	104F (With Hold Open)	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
2	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Smoke / Sound Seal	W-66 x 5400	Black	KN Crowder		☐
1	Auto Door Bottom	CT-54 x 965	628 / US28 / Clear Anodized	KN Crowder		☐
By Security Supplier						
1	Keypad Reader	To suit building system, by security provider				☐
1	Door Contact	To suit building system, by security provider				☐
1	REX Sensor	Built into lockset security to wire				☐
1	Latch Monitoring	Built into lockset security to wire				☐

1	Access Controller	To suit building system, by security provider				☐
1	Power Supply	To suit building system, by security provider				☐
By Pinders Security						
1	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider.

End of Heading

Heading# 29

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 965 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

0	Total Openings								
1	**Door#**	1853	**Location:**	Gift Shop 1103	From	HSKP Storage 1851	**Handing:**	LHR

Web Link | Site Verified

***DOOR DELETED**

End of Heading

Heading# 30

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 695 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

1	**Total Openings**								
1	**Door#**	1142	**Location:**	HSKP Storage 1141	To	HSKP SUPER 1142	**Handing:**	LH	

					Web Link	Site Verified
By Hardware Supplier						
1	Continuous Hinge	SL14HD x HT x EPT x 2150	628 / US28 / Clear Anodized	Select		☐
1	Power Transfer	EPT-10	689 / US28 / Painted Aluminum	Von Duprin		☐
1	Elec.Mortise Storeroom Lockset	RX-LX-L9092EU-T x 06B x 630 x 24V (Const. Keying)	630 / US32D / Satin Stainless Steel	Schlage		☐
1	Door Closer	4011 x REG x (LCN/ST 1544)	689 / US28 / Painted Aluminum	LCN		☐
1	Drop Plate	4020-18	689 / US28 / Painted Aluminum	LCN		☐
1	Overhead Stop	103S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
2	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Smoke / Sound Seal	W-66 x 5400	Black	KN Crowder		☐
1	Auto Door Bottom	CT-54 x 695	628 / US28 / Clear Anodized	KN Crowder		☐
By Security Supplier						
1	Keypad Reader	To suit building system, by security provider				☐
1	Door Contact	To suit building system, by security provider				☐
1	REX Sensor	Built into lockset security to wire				☐
1	Latch Monitoring	Built into lockset security to wire				☐
1	Access Controller	To suit building system, by security provider				☐
1	Power Supply	To suit building system, by security provider				☐
By Pinders Security						
1	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider.

End of Heading

Heading# 31

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 915 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	0 HR

1	**Total Openings**							
1	**Door#**	1133	**Location:**	Lobby	From	Janitor 1133	**Handing:**	LHR

					Web Link	Site Verified
By Hardware Supplier						
1	Continuous Hinge	SL14HD x HT x EPT x 2150	628 / US28 / Clear Anodized	Select		☐
1	Power Transfer	EPT-10	689 / US28 / Painted Aluminum	Von Duprin		☐
1	Elec.Mortise Storeroom Lockset	RX-LX-L9092EU-T x 06B x 630 x 24V (Const. Keying)	630 / US32D / Satin Stainless Steel	Schlage		☐
1	Door Closer	4111 x PA x 689 (LCN/ST 2779)	689 / US28 / Painted Aluminum	LCN		☐
1	Overhead Stop	104S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
2	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Smoke / Sound Seal	W-66 x 5400	Black	KN Crowder		☐
1	Auto Door Bottom	CT-54 x 915	628 / US28 / Clear Anodized	KN Crowder		☐
By Security Supplier						
1	Card Reader	To suit building system, by security provider				☐
1	Door Contact	To suit building system, by security provider				☐
1	REX Sensor	Built into lockset security to wire				☐
1	Latch Monitoring	Built into lockset security to wire				☐
1	Access Controller	To suit building system, by security provider				☐
1	Power Supply	To suit building system, by security provider				☐
By Pinders Security						
1	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider.

End of Heading

Heading# 32

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 965 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

1	**Total Openings**								
1	**Door#**	1140	**Location:**	CORR 1057	To	HSKP ST LOUNGE 1140	**Handing:**	RH	

					Web Link	Site Verified
By Hardware Supplier						
1	Continuous Hinge	SL14HD x HT x EPT x 2150	628 / US28 / Clear Anodized	Select		☐
1	Power Transfer	EPT-10	689 / US28 / Painted Aluminum	Von Duprin		☐
1	Elec.Mortise Storeroom Lockset	RX-LX-L9092EU-T x 06B x 630 x 24V (Const. Keying)	630 / US32D / Satin Stainless Steel	Schlage		☐
1	Door Closer	4011 x REG x (LCN/ST 1544)	689 / US28 / Painted Aluminum	LCN		☐
1	Drop Plate	4020-18	689 / US28 / Painted Aluminum	LCN		☐
1	Overhead Stop	104S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
2	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Smoke / Sound Seal	W-66 x 5400	Black	KN Crowder		☐
1	Auto Door Bottom	CT-54 x 915	628 / US28 / Clear Anodized	KN Crowder		☐
By Security Supplier						
1	Card Reader	To suit building system, by security provider				☐
1	Door Contact	To suit building system, by security provider				☐
1	REX Sensor	Built into lockset security to wire				☐
1	Latch Monitoring	Built into lockset security to wire				☐
1	Access Controller	To suit building system, by security provider				☐
1	Power Supply	To suit building system, by security provider				☐
By Pinders Security						
1	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider.

End of Heading

Heading# 33

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 965 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

0	Total Openings							
1	**Door#**	1857	**Location:**	Gift Shop 1103	To	Gift Shop OFF 1857	**Handing:**	LH

Web Link
Site Verified

***DOOR DELETED**

End of Heading

Heading# 34

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 915 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

0	Total Openings							
1	**Door#**	1858	**Location:**	Volunteer 1859	To	Volunteer - Coord	**Handing:**	RH
1	**Door#**	1859	**Location:**	Lobby	To	Volunteer 1859	**Handing:**	RH

Web Link
Site Verified

***DOORS DELETED**

End of Heading

Heading# 35

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 965 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

1	**Total Openings**									
1	**Door#**	1132.1	**Location:**	Vest. Male 1132	To	Male WR 1132.1	**Handing:**	RH		

					Web Link	Site Verified
By Hardware Supplier						
1	Continuous Hinge	SL14HD x HT x 2150	628 / US28 / Clear Anodized	Select		☐
1	Door Pull	GSH 4012-3 x #5-2 MTL MTG	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Push Plate	GSH 81A – 150 x 400 (Rounded Corners) – TORX	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Door Closer	4111 x PA x 689 (LCN/ST 2779)	689 / US28 / Painted Aluminum	LCN		☐
1	Overhead Stop	104S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
2	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Smoke / Sound Seal	W-66 x 5400	Black	KN Crowder		☐
1	Auto Door Bottom	CT-54 x 965	628 / US28 / Clear Anodized	KN Crowder		☐
By Pinders Security						
1	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider.

End of Heading

Heading# 36

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 965 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

2	Total Openings							
1	**Door#**	1132	**Location:**	Lobby	To	Vest. Male 1132	**Handing:**	LH
1	**Door#**	1131.A	**Location:**	Lobby	To	Vest. Female 1131	**Handing:**	LH

					Web Link	Site Verified
By Hardware Supplier						
2	Continuous Hinge	SL14HD x HT x 2150	628 / US28 / Clear Anodized	Select		☐
2	Deadbolt	B463T x 09-544(Const. Keying)	630 / US32D / Satin Stainless Steel	Schlage		☐
2	Door Pull	GSH 4012-3 x #5-2 MTL MTG	630 / US32D / Satin Stainless Steel	Gallery		☐
2	Push Plate	GSH 81A – 150 x 400 (Rounded Corners) – TORX	630 / US32D / Satin Stainless Steel	Gallery		☐
2	Door Closer	4011 x REG x (LCN/ST 1544)	689 / US28 / Painted Aluminum	LCN		☐
2	Drop Plate	4020-18	689 / US28 / Painted Aluminum	LCN		☐
2	Overhead Stop	104S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
4	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
2	Smoke / Sound Seal	W-66 x 5400	Black	KN Crowder		☐
2	Auto Door Bottom	CT-54 x 965	628 / US28 / Clear Anodized	KN Crowder		☐
By Pinders Security						
2	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

End of Heading

Heading# 37

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 965 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

1	**Total Openings**								
1	**Door#**	1131	**Location:**	Vest. Female 1131	From	Female WR 1131.1	**Handing:**	RHR	

By Hardware Supplier					Web Link	Site Verified
1	Continuous Hinge	SL14HD x HT x 2150	628 / US28 / Clear Anodized	Select		☐
1	Door Pull	GSH 4012-3 x #5-2 MTL MTG	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Push Plate	GSH 81A – 150 x 400 (Rounded Corners) – TORX	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Door Closer	4011 x REG x (LCN/ST 1544)	689 / US28 / Painted Aluminum	LCN		☐
1	Drop Plate	4020-18	689 / US28 / Painted Aluminum	LCN		☐
1	Overhead Stop	104S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
2	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Smoke / Sound Seal	W-66 x 5400	Black	KN Crowder		☐
1	Auto Door Bottom	CT-54 x 965	628 / US28 / Clear Anodized	KN Crowder		☐

End of Heading

Heading# 38

Opening Information					
Opening Type:	Single	**Opening Size:**	Existing	**STC Rating**	None
Door Material:	**Existing**	**Frame Material:**	**Existing**	**Fire Rating**	None

1	**Total Openings**								
1	**Door#**	EX.1099.1	**Location:**	Corridor EX.1099	To	Manager Office EX.1099.1	**Handing:**	RH	

					Web Link	Site Verified
By Hardware Supplier						
		***BALANCE OF EXISTING HARDWARE TO REMAIN**				
By Security Supplier						
2	Card Reader	To suit building system, by security provider				☐
2	Door Contact	To suit building system, by security provider				☐
2	REX Sensor	To suit building system, by security provider				☐
2	Latch Monitoring	Built into lockset security to wire				☐
2	Access Controller	To suit building system, by security provider				☐
2	Power Supply	To suit building system, by security provider				☐
2	Electric Strike	To suit building system, by security provider				☐
2	Storeroom Lockset	To suit building system, by security provider				☐

***EXISTING DOOR TO REMAIN – SECURITY TO ADD CARD READER AND ALL REQUIRED COMPONENTS REQUIRED FOR CREDENTIAL ACCESS.**

End of Heading

Heading# 39

Opening Information					
Opening Type:	Single	**Opening Size:**	Existing	**STC Rating**	None
Door Material:	**Existing**	**Frame Material:**	**Existing**	**Fire Rating**	None

1	**Total Openings**								
1	**Door#**	EX.1099	**Location:**	Corridor 1099	From	Room 1099.3	**Handing:**		

Web Link | Site Verified

By Hardware Supplier						
		***BALANCE OF EXISTING HARDWARE TO REMAIN**				

***EXISTING DOOR TO REMAIN – REPAINT.**

End of Heading

Heading# 40

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 965 x 2150 x 45	**STC Rating**	None
Door Material:	SCWD	**Frame Material:**	HMF	**Fire Rating**	None

0	Total Openings							
1	**Door#**	EX.1103	**Location:**	Main Lobby 1001	From	Gift Shop 1103	**Handing:**	RHR

Web Link
Site Verified

***DOOR DELETED**

End of Heading

Heading# 41

Opening Information					
Opening Type:	Single	**Opening Size:**	Existing	**STC Rating**	None
Door Material:	**Existing**	**Frame Material:**	**Existing**	**Fire Rating**	None

1	**Total Openings**								
1	**Door#**	EX.1057	**Location:**	Lobby	From	Corridor 1057	**Handing:**		

					Web Link	Site Verified
By Hardware Supplier						
		***BALANCE OF EXISTING HARDWARE TO REMAIN**				
By Security Supplier						
1	Card Reader	To suit building system, by security provider				☐
1	Door Contact	To suit building system, by security provider				☐
1	REX Sensor	To suit building system, by security provider				☐
1	Access Controller	To suit building system, by security provider				☐
1	Power Supply	To suit building system, by security provider				☐
1	Maglock	To suit building system, by security provider				☐
1	Pull Station	To suit building system, by security provider				☐
1	FA Disconnect	To suit building system, by security provider				☐

***EXISTING DOOR TO REMAIN – SECURITY TO ADD CARD READER AND ALL REQUIRED COMPONENTS REQUIRED FOR CREDENTIAL ACCESS.**

End of Heading

Heading# 42

Opening Information					
Opening Type:	Single	**Opening Size:**	Existing	**STC Rating**	None
Door Material:	**Existing**	**Frame Material:**	**Existing**	**Fire Rating**	1 1/2 HR

1	**Total Openings**							
1	**Door#**	EX.1070	**Location:**	Existing Space	From	Corridor 1070	**Handing:**	RHR

					Web Link	Site Verified
By Hardware Supplier						
		***BALANCE OF EXISTING HARDWARE TO REMAIN**				
By Security Supplier						
2	Card Reader	To suit building system, by security provider				☐
2	Door Contact	To suit building system, by security provider				☐
2	REX Sensor	To suit building system, by security provider				☐
2	Latch Monitoring	Built into lockset security to wire				☐
2	Access Controller	To suit building system, by security provider				☐
2	Power Supply	To suit building system, by security provider				☐
2	Electric Strike	To suit building system, by security provider				☐
2	Storeroom Lockset	To suit building system, by security provider				☐
2	Maglock	To suit building system, by security provider				☐
2	Pull Station	To suit building system, by security provider				☐
2	FA Disconnect	To suit building system, by security provider				☐

***EXISTING DOOR TO REMAIN – SECURITY TO ADD CARD READER AND ALL REQUIRED COMPONENTS REQUIRED FOR CREDENTIAL ACCESS.**

End of Heading

Heading# 43

Opening Information					
Opening Type:	Pair	**Opening Size:**	2 x 915 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

1	**Total Openings**								
1	**Door#**	1060.1	**Location:**	Corridor 1063	To	Mechanical Rom	**Handing:**	RHRA	

					Web Link	Site Verified
By Hardware Supplier						
1	Continuous Hinge	SL14HD x HT x 2150	628 / US28 / Clear Anodized	Select		☐
1	Continuous Hinge	SL14HD x HT x EPT x 2150	628 / US28 / Clear Anodized	Select		☐
1	Power Transfer	EPT-10	689 / US28 / Painted Aluminum	Von Duprin		☐
1	Elec.Mortise Storeroom Lockset	RX-LX-L9092EU-T x 06B x 630 x 24V (Const. Keying)	630 / US32D / Satin Stainless Steel	Schlage		☐
1	Semi-Auto Flush Bolts	FB51P	630 / US32D / Satin Stainless Steel	Ives		☐
1	Dust Proof Strike	DP-2	630 / US32D / Satin Stainless Steel	Ives		☐
1	Door Closer	4011 x REG x (LCN/ST 1544) – LH LEAF	689 / US28 / Painted Aluminum	LCN		☐
1	Drop Plate	4020-18 – LH LEAF	689 / US28 / Painted Aluminum	LCN		☐
1	Door Closer	4111 x PA x 689 (LCN/ST 2779) – RHR LEAF	689 / US28 / Painted Aluminum	LCN		☐
2	Overhead Stop	104S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
4	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Smoke/Sound Seal	W-66 x 6500	Black	KN Crowder		☐
By Security Supplier						
1	Card Reader	To suit building system, by security provider				☐
1	REX Sensor	Built into lockset security to wire				☐
1	Latch Monitoring	Built into lockset security to wire				☐
2	Door Contact	To suit building system, by security provider				☐
1	Access Controller	To suit building system, by security provider				☐
1	Power Supply	To suit building system, by security provider				☐
By Pinders Security						

1	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome		☐

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider

End of Heading

Heading# 44

Opening Information					
Opening Type:	Single	**Opening Size:**	Existing	**STC Rating**	None
Door Material:	**Existing**	**Frame Material:**	**Existing**	**Fire Rating**	1 1/2 HR

1	**Total Openings**								
1	**Door#**	EX.1094	**Location:**	Exit Stair A 1094	From	Corridor 1070	**Handing:**	LHR	

By Hardware Supplier						
		***BALANCE OF EXISTING HARDWARE TO REMAIN**				
By Security Supplier						
2	Card Reader	To suit building system, by security provider				☐
2	Door Contact	To suit building system, by security provider				☐
2	REX Sensor	To suit building system, by security provider				☐
2	Latch Monitoring	Built into lockset security to wire				☐
2	Access Controller	To suit building system, by security provider				☐
2	Power Supply	To suit building system, by security provider				☐
2	Electric Strike	To suit building system, by security provider				☐
2	Storeroom Lockset	To suit building system, by security provider				☐
2	Maglock	To suit building system, by security provider				☐
2	Pull Station	To suit building system, by security provider				☐
2	FA Disconnect	To suit building system, by security provider				☐

Web Link | Site Verified

***EXISTING DOOR TO REMAIN – SECURITY TO ADD CARD READER AND ALL REQUIRED COMPONENTS REQUIRED FOR CREDENTIAL ACCESS.**

End of Heading

Heading# 45

Opening Information					
Opening Type:	Single	**Opening Size:**	Existing	**STC Rating**	None
Door Material:	**Existing**	**Frame Material:**	**Existing**	**Fire Rating**	None

1	**Total Openings**								
1	**Door#**	EX.1098	**Location:**	Existing Space	To	Mail Room 1098	**Handing:**		

Web Link | Site Verified

By Hardware Supplier						
		***BALANCE OF EXISTING HARDWARE TO REMAIN**				

***EXISTING DOOR & HARDWARE TO BE RELOCATED.**

End of Heading

Heading# 46

Opening Information					
Opening Type:	Pair	**Opening Size:**	2 x 915 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

1	**Total Openings**								
1	**Door#**	2840	**Location:**	Corridor	From	Existing Corridor 2840	**Handing:**	RHRA	

					Web Link	Site Verified
By Hardware Supplier						
1	Continuous Hinge	SL14HD x HT x 2150	628 / US28 / Clear Anodized	Select		☐
1	Continuous Hinge	SL14HD x HT x EPT x 2150	628 / US28 / Clear Anodized	Select		☐
1	Power Transfer	EPT-10	689 / US28 / Painted Aluminum	Von Duprin		☐
1	Elec.Mortise Storeroom Lockset	RX-LX-L9092EU-T x 06B x 630 x 24V (Const. Keying)	630 / US32D / Satin Stainless Steel	Schlage		☐
1	Semi-Auto Flush Bolts	FB51P	630 / US32D / Satin Stainless Steel	Ives		☐
1	Dust Proof Strike	DP-2	630 / US32D / Satin Stainless Steel	Ives		☐
1	Coordinator	COR52 x FL20	628 / US28 / Clear Anodized	Ives		☐
1	Mounting Bracket	MB2	628 / US28 / Clear Anodized	Ives		☐
2	Door Closer	4111 x PA x 689 (LCN/ST 2779)	689 / US28 / Painted Aluminum	LCN		☐
2	Overhead Stop	104S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
4	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Smoke/Sound Seal	W-66 x 6500	Black	KN Crowder		☐
2	Door Sweep	W-24S-SS x 915 x TORX	630 / US32D / Satin Stainless Steel	KN Crowder		☐
By Security Supplier						
1	Card Reader	To suit building system, by security provider				☐
1	REX Sensor	Built into lockset security to wire				☐
1	Latch Monitoring	Built into lockset security to wire				☐
2	Door Contact	To suit building system, by security provider				☐
1	Access Controller	To suit building system, by security provider				☐

1	Power Supply	To suit building system, by security provider			☐
By Pinders Security					
1	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome		☐

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider

End of Heading

Heading# 47A

Opening Information					
Opening Type:	Pair	**Opening Size:**	Existing	**STC Rating**	None
Door Material:	**Existing**	**Frame Material:**	**Existing**	**Fire Rating**	None

1	Total Openings							
1	**Door#**	EX.2240.1	**Location:**	Existing Corridor 2840	From	Mechanical Room 2841	**Handing:**	

Web Link | Site Verified

By Hardware Supplier						
		***BALANCE OF EXISTING HARDWARE TO REMAIN**				

***EXISTING DOORS & HARDWARE TO BE REMAIN.**

End of Heading

Heading# 47B

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 1100 x 2150 x 45	**STC Rating**	None
Door Material:	IHMD	**Frame Material:**	HMF	**Fire Rating**	1 1/2 HR

0	Total Openings							
1	**Door#**	2200.1	**Location:**	Exterior	From	STAIR Y	**Handing:**	RHR

Web Link
Site Verified

***DOOR REMOVED FROM SCOPE**

End of Heading

Heading# 48

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 1070 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

1	**Total Openings**								
1	**Door#**	3454	**Location:**	Corridor 3460	To	IT 3454	**Handing:**	RH	

					Web Link	Site Verified
By Hardware Supplier						
1	Continuous Hinge	SL14HD x HT x EPT x 2150	628 / US28 / Clear Anodized	Select		☐
1	Power Transfer	EPT-10	689 / US28 / Painted Aluminum	Von Duprin		☐
1	Elec.Mortise Storeroom Lockset	RX-LX-L9092EU-T x 06B x 630 x 24V (Const. Keying)	630 / US32D / Satin Stainless Steel	Schlage		☐
1	Door Closer	4011 x REG x (LCN/ST 1544)	689 / US28 / Painted Aluminum	LCN		☐
1	Drop Plate	4020-18	689 / US28 / Painted Aluminum	LCN		☐
1	Overhead Stop	105S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
2	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Smoke / Sound Seal	W-66 x 5400	Black	KN Crowder		☐
1	Auto Door Bottom	CT-54 x 1070	628 / US28 / Clear Anodized	KN Crowder		☐
By Security Supplier						
1	Card Reader	To suit building system, by security provider				☐
1	Door Contact	To suit building system, by security provider				☐
1	REX Sensor	Built into lockset security to wire				☐
1	Latch Monitoring	Built into lockset security to wire				☐
1	Access Controller	To suit building system, by security provider				☐
1	Power Supply	To suit building system, by security provider				☐
By Pinders Security						
1	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider.

End of Heading

Heading# 49

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 2400 x 2400	**STC Rating**	None
Door Material:	ALD	**Frame Material:**	ALF	**Fire Rating**	None

1	**Total Openings**							
1	**Door#**	3450	**Location:**	Exterior	From	Walk-In Entrance Vest 3450	**Handing:**	BI-PASS

					Web Link	Site Verified
By Automatics Sliding Door Supplier						
1	Automatic Sliding Door System	Micom SL800 – Complete Automatic Sliding Door System with breakout panels, sidelights, integrated Panic bars, Auto Carriage Locks, Integrated Closers, Motion Sensors, Presence Sensors, Integrated Door Contacts, Single Rotary Key Switch to accept 1 ¼" Mortise cylinder in lieu of toggle jamb mounted.	628 / US28 / Clear Anodized	MICOM		☐
1	Mortise Cylinder	20-062-ICX x B520-253 –Const. Keying	626 / US26D / Satin Chrome	Schlage		☐
By Security Supplier						
1	Door Contact	To suit building system, by security provider				☐
By Pinders Security						
1	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider
- 120VAC is required at the head of the door for all handicap door operators, 15A dedicated circuit. Wall/Frame must be reinforced for automatic operator mounting, all conduit and back boxes with pull cords are to be provided by the electrical contractor.
- Electrician to confirm wire locations with auto door operator supplier prior to pulling wires.

End of Heading

Heading# 50

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 2400 x 2400	**STC Rating**	None
Door Material:	ALD	**Frame Material:**	ALF	**Fire Rating**	None

1	**Total Openings**								
1	**Door#**	3450.A	**Location:**	Walk-In Entrance Vest 3450	From	Waiting Triage 3461	**Handing:**	BI-PASS	

					Web Link	Site Verified
By Automatics Sliding Door Supplier						
1	Automatic Sliding Door System	Micom SL800 – Complete Automatic Sliding Door System with breakout panels, sidelights, integrated Panic bars, Auto Carriage Locks, Integrated Closers, Motion Sensors, Presence Sensors, Integrated Door Contacts, Single Rotary Key Switch to accept 1 ¼" Mortise cylinder in lieu of toggle jamb mounted.	628 / US28 / Clear Anodized	MICOM		☐
1	Mortise Cylinder	20-062-ICX x B520-253 –Const. Keying	626 / US26D / Satin Chrome	Schlage		☐
By Security Supplier						
1	Card Reader	To suit building system, by security provider				☐
1	REX Sensor	To suit building system, by security provider				☐
1	Door Contact	To suit building system, by security provider				☐
1	Access Controller	To suit building system, by security provider				☐
1	Power Supply	To suit building system, by security provider				☐
By Pinders Security						
1	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider
- 120VAC is required at the head of the door for all handicap door operators, 15A dedicated circuit. Wall/Frame must be reinforced for automatic operator mounting, all conduit and back boxes with pull cords are to be provided by the electrical contractor.
- Electrician to confirm wire locations with auto door operator supplier prior to pulling wires.

End of Heading

Heading# 51

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 1070 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

3	Total Openings							
1	**Door#**	3453	**Location:**	Corridor 3460	To	Pre-Screen 3453	**Handing:**	LH
1	**Door#**	3455	**Location:**	Corridor 3460	To	Shell-In 3455	**Handing:**	RH
1	**Door#**	3456	**Location:**	Corridor 3460	To	Elec 3856	**Handing:**	RH

					Web Link	Site Verified
By Hardware Supplier						
3	Continuous Hinge	SL14HD x HT x EPT x 2150	628 / US28 / Clear Anodized	Select		☐
3	Power Transfer	EPT-10	689 / US28 / Painted Aluminum	Von Duprin		☐
3	Elec.Mortise Storeroom Lockset	RX-LX-L9092EU-T x 06B x 630 x 24V (Const. Keying)	630 / US32D / Satin Stainless Steel	Schlage		☐
3	Door Closer	4011 x REG x (LCN/ST 1544)	689 / US28 / Painted Aluminum	LCN		☐
3	Drop Plate	4020-18	689 / US28 / Painted Aluminum	LCN		☐
3	Overhead Stop	105S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
6	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
3	Smoke / Sound Seal	W-66 x 5400	Black	KN Crowder		☐
3	Auto Door Bottom	CT-54 x 1070	628 / US28 / Clear Anodized	KN Crowder		☐
By Security Supplier						
3	Card Reader	To suit building system, by security provider				☐
3	Door Contact	To suit building system, by security provider				☐
3	REX Sensor	Built into lockset security to wire				☐
3	Latch Monitoring	Built into lockset security to wire				☐
3	Access Controller	To suit building system, by security provider				☐
3	Power Supply	To suit building system, by security provider				☐
By Pinders Security						
3	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider.

End of Heading

Heading# 52

Opening Information					
Opening Type:	Single	**Opening Size:**	1070 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

1	Total Openings							
1	**Door#**	3468.3	**Location:**	WR VEST 3468	To	WR (P) 3468.3	**Handing:**	DA

					Web Link	Site Verified
By Hardware Supplier						
1	Double Acting hinge	DSH1000 x 2150	630 / US32D / Satin Stainless Steel	Markar		☐
1	Emergency Release stop	ERS-84-C-HT-RH-NOTCH	628 / US28 / Clear Anodized	Pemko		☐
1	Storeroom Lockset	L9080T x 06B x 630 (Const. Keying)	630 / US32D / Satin Stainless Steel	Schlage		☐
1	Mortise Cylinder	30-008 x B520-253 – Const. Keying	626 / US26D / Satin Chrome	Schlage		☐
1	Electric Strike	1500C-TORX	630 / US32D / Satin Stainless Steel	HES		☐
1	Overhead Stop	105S-SOC	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
2	Armour Plates	GSH 90F – 864 x To Suit Door Width x TORX(Rounded Corners)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Smoke / Sound Seal	W-66 x 5400	Black	KN Crowder		☐
By Automatics Supplier						
1	Auto Operator	Micom Smart Swing 3 – Single Door -Security Screws (Break Away Arm) – Corridor Side Mount	628 / US28 / Clear Anodized	MICOM		☐
1	Wave to lock kit	CX-WC16 - Security Screws	630 / US32D / Satin Stainless Steel	Camden		☐
By Pinders Security						
1	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider
- 120VAC is required at the head of the door for all handicap door operators, 15A dedicated circuit. Wall/Frame must be reinforced for automatic operator mounting, all conduit and back boxes with pull cords are to be provided by the electrical contractor.
- Electrician to confirm wire locations with auto door operator supplier prior to pulling wires.

End of Heading

Heading# 53

Opening Information					
Opening Type:	Single	**Opening Size:**	1070 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

1	Total Openings									Web Link	Site Verified
1	**Door#**	3468.1	**Location:**	WR VEST 3468	To	WR (PU) 3468.1	**Handing:**	DA			

By Hardware Supplier						
1	Double Acting hinge	DSH1000 x 2150	630 / US32D / Satin Stainless Steel	Markar		☐
1	Emergency Release stop	ERS-84-C-HT-LH-NOTCH	628 / US28 / Clear Anodized	Pemko		☐
1	Storeroom Lockset	L9080T x 06B x 630 (Const. Keying)	630 / US32D / Satin Stainless Steel	Schlage		☐
1	Mortise Cylinder	30-008 x B520-253 – Const. Keying	626 / US26D / Satin Chrome	Schlage		☐
1	Electric Strike	1500C-TORX	630 / US32D / Satin Stainless Steel	HES		☐
1	Overhead Stop	105S-SOC	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
2	Armour Plates	GSH 90F – 864 x To Suit Door Width x TORX(Rounded Corners)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Smoke / Sound Seal	W-66 x 5400	Black	KN Crowder		☐
By Automatics Supplier						
1	Auto Operator	Micom Smart Swing 3 – Single Door -Security Screws (Break Away Arm) – Corridor Side Mount	628 / US28 / Clear Anodized	MICOM		☐
1	Wave to lock kit	CX-WC16 - Security Screws	630 / US32D / Satin Stainless Steel	Camden		☐
	Emergency Call Kit	CX-WEC10K2	White	Camden		☐
By Pinders Security						
1	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider
- 120VAC is required at the head of the door for all handicap door operators, 15A dedicated circuit. Wall/Frame must be reinforced for automatic operator mounting, all conduit and back boxes with pull cords are to be provided by the electrical contractor.
- Electrician to confirm wire locations with auto door operator supplier prior to pulling wires.

End of Heading

Heading# 54

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 1070 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

1	Total Openings								
1	**Door#**	3457	**Location:**	Corridor 3458	To	Registration 3457	**Handing:**	LH	

					Web Link	Site Verified
By Hardware Supplier						
1	Continuous Hinge	SL14HD x HT x EPT x 2150	628 / US28 / Clear Anodized	Select		☐
1	Power Transfer	EPT-10	689 / US28 / Painted Aluminum	Von Duprin		☐
1	Elec.Mortise Storeroom Lockset	RX-LX-L9092EU-T x 06B x 630 x 24V (Const. Keying)	630 / US32D / Satin Stainless Steel	Schlage		☐
1	Door Closer	4011 x REG x (LCN/ST 1544)	689 / US28 / Painted Aluminum	LCN		☐
1	Drop Plate	4020-18	689 / US28 / Painted Aluminum	LCN		☐
1	Overhead Stop	105S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
2	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Smoke / Sound Seal	W-66 x 5400	Black	KN Crowder		☐
1	Auto Door Bottom	CT-54 x 1070	628 / US28 / Clear Anodized	KN Crowder		☐
By Security Supplier						
1	Card Reader	To suit building system, by security provider				☐
1	Door Contact	To suit building system, by security provider				☐
1	REX Sensor	Built into lockset security to wire				☐
1	Latch Monitoring	Built into lockset security to wire				☐
1	Access Controller	To suit building system, by security provider				☐
1	Power Supply	To suit building system, by security provider				☐
By Pinders Security						
1	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider.

End of Heading

Heading# 55

Opening Information					
Opening Type:	Pair	**Opening Size:**	2-915 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

1	**Total Openings**								Web Link	Site Verified
1	**Door#**	3460	**Location:**	Corridor 3460	From	Corridor 3458	**Handing:**	LHRA/RHRA		

By Hardware Supplier						
2	Continuous Hinge	SL14HD x HT x EPT x 2150	628 / US28 / Clear Anodized	Select		☐
2	Power Transfer	EPT-10	689 / US28 / Painted Aluminum	Von Duprin		☐
1	Elec. Exit Device	RX-LX-QEL-9847EO-NL-F - LBR x 110NL-MD x 4'0	630 / US32D / Satin Stainless Steel	Von Duprin		☐
1	Elec. Exit Device	RX-LX-QEL-9847EO-F-LBR x 4'0	630 / US32D / Satin Stainless Steel	Von Duprin		☐
1	Rim Cylinder	20-057 – Const. Keying	626 / US26D / Satin Chrome	Schlage		☐
2	Off-Set Door Pull	GSH 165 x 1500 x #2 MTG x 630	630 / US32D / Satin Stainless Steel	Gallery		☐
2	Door Closer	4111 x PA x 689 (LCN/ST 2779)	689 / US28 / Painted Aluminum	LCN		☐
2	Overhead Stop	104S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
4	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Smoke / Sound Seal	W-66 x 6330	Black	KN Crowder		☐
1	Astragal Set	W-25 x 2150	628 / US28 / Clear Anodized	KN Crowder		☐
2	Auto Door Bottom	CT-54 x 915	628 / US28 / Clear Anodized	KN Crowder		☐
By Security Supplier						
1	Card Reader	To suit building system, by security provider				☐
2	REX Sensor	To suit building system, by security provider				☐
2	Door Contact	To suit building system, by security provider				☐
1	Access Controller	To suit building system, by security provider				☐
1	Power Supply	To suit building system, by security provider				☐
By Pinders Security						
2	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

Notes:

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider.

End of Heading

Heading# 56

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 1070 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

1	Total Openings								
1	**Door#**	3470.3	**Location:**	Corridor 3458	To	Corridor 3470.3	**Handing:**	LH	

By Hardware Supplier					Web Link	Site Verified
1	Continuous Hinge	SL14HD x HT x 2150	628 / US28 / Clear Anodized	Select		☐
1	Passage Latchset	L9010 x 06B x 630	630 / US32D / Satin Stainless Steel	Schlage		☐
1	Door Closer	4011 x REG x (LCN/ST 1544)	689 / US28 / Painted Aluminum	LCN		☐
1	Drop Plate	4020-18	689 / US28 / Painted Aluminum	LCN		☐
1	Overhead Stop	105S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
2	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Smoke / Sound Seal	W-66 x 5400	Black	KN Crowder		☐
1	Auto Door Bottom	CT-54 x 1070	628 / US28 / Clear Anodized	KN Crowder		☐

End of Heading

Heading# 57

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 1070 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

1	**Total Openings**								
1	**Door#**	3470.3A	**Location:**	Ambulance Vestibule 3480	To	Reporting 3470.1	**Handing:**	LH	

					Web Link	Site Verified
By Hardware Supplier						
1	Continuous Hinge	SL14HD x HT x EPT x 2150	628 / US28 / Clear Anodized	Select		☐
1	Power Transfer	EPT-10	689 / US28 / Painted Aluminum	Von Duprin		☐
1	Elec.Mortise Storeroom Lockset	RX-LX-L9080T x 06B x 630(Const. Keying)	630 / US32D / Satin Stainless Steel	Schlage		☐
1	Electric Strike	1500C	630 / US32D / Satin Stainless Steel	HES		☐
1	Overhead Stop	105S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
2	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Smoke/Sound Seal	W-66 x 5400	Black	KN Crowder		☐
1	Auto Door Bottom	CT-54 x 1070	628 / US28 / Clear Anodized	KN Crowder		☐
By Automatics Supplier						
1	Auto Operator	Micom Smart Swing 3 – Single Door – Pull Mount.	628 / US28 / Clear Anodized	MICOM		☐
2	Wave Button	CM-331/S/W/42/SGLR	630 / US32D / Satin Stainless Steel	Camden		☐
1	Logic Relay	CX-33		Camden		☐
By Security Supplier						
1	Card Reader	To suit building system, by security provider				☐
1	REX Sensor	Built into lockset & tied into non-secure side Wave Button - security to wire				☐
1	Latch Monitoring	Built into lockset security to wire				☐
1	Door Contact	To suit building system, by security provider				☐
1	Access Controller	To suit building system, by security provider				☐
1	Power Supply	To suit building system, by security provider				☐
By Pinders Security						

1	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider
- 120VAC is required at the head of the door for all handicap door operators, 15A dedicated circuit. Wall/Frame must be reinforced for automatic operator mounting, all conduit and back boxes with pull cords are to be provided by the electrical contractor.
- Electrician to confirm wire locations with auto door operator supplier prior to pulling wires.

End of Heading

Heading# 58

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 1220 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

3	Total Openings							
1	**Door#**	3463	**Location:**	Waiting Triage 3461	To	Assessment 3463	**Handing:**	RH
1	**Door#**	3464	**Location:**	Waiting Triage 3461	To	Assessment 3464	**Handing:**	RH
1	**Door#**	3465	**Location:**	Waiting Triage 3461	To	Assessment 3465	**Handing:**	RH

By Hardware Supplier					Web Link	Site Verified
3	Continuous Hinge	SL14HD x HT x EPT x 2150	628 / US28 / Clear Anodized	Select		☐
3	Power Transfer	EPT-10	689 / US28 / Painted Aluminum	Von Duprin		☐
3	Elec.Mortise Storeroom Lockset	RX-LX-L9092EU-T x 06B x 630 x 24V (Const. Keying)	630 / US32D / Satin Stainless Steel	Schlage		☐
3	Door Closer	4011 x REG x (LCN/ST 1544)	689 / US28 / Painted Aluminum	LCN		☐
3	Drop Plate	4020-18	689 / US28 / Painted Aluminum	LCN		☐
3	Overhead Stop	106S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
3	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
3	Smoke/Sound Seal	W-66 x 6000	Black	KN Crowder		☐
3	Auto Door Bottom	CT-54 x 1220	628 / US28 / Clear Anodized	KN Crowder		☐
By Security Supplier						
3	Card Reader	To suit building system, by security provider				☐
3	REX Sensor	Built into lockset security to wire				☐
3	Latch Monitoring	Built into lockset security to wire				☐

3	Door Contact	To suit building system, by security provider				☐
3	Access Controller	To suit building system, by security provider				☐
3	Power Supply	To suit building system, by security provider				☐
By Pinders Security						
3	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider

End of Heading

Heading# 59

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 1220 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

1	**Total Openings**								
1	**Door#**	3466	**Location:**	Waiting Triage 3461	From	Consultation 3466	**Handing:**	LHR	

					Web Link	Site Verified
By Hardware Supplier						
1	Continuous Hinge	SL14HD x HT x EPT x 2150	628 / US28 / Clear Anodized	Select		☐
1	Power Transfer	EPT-10	689 / US28 / Painted Aluminum	Von Duprin		☐
1	Elec.Mortise Storeroom Lockset	RX-LX-L9092EU-T x 06B x 630 x 24V (Const. Keying)	630 / US32D / Satin Stainless Steel	Schlage		☐
1	Door Closer	4111 x PA x 689 (LCN/ST 2779	689 / US28 / Painted Aluminum	LCN		☐
1	Overhead Stop	106S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
2	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Smoke/Sound Seal	W-66 x 6000	Black	KN Crowder		☐
1	Auto Door Bottom	CT-54 x 1220	628 / US28 / Clear Anodized	KN Crowder		☐
By Security Supplier						
1	Card Reader	To suit building system, by security provider				☐
1	REX Sensor	Built into lockset security to wire				☐
1	Latch Monitoring	Built into lockset security to wire				☐
1	Door Contact	To suit building system, by security provider				☐
1	Access Controller	To suit building system, by security provider				☐
1	Power Supply	To suit building system, by security provider				☐
By Pinders Security						
1	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider

End of Heading

Heading# 60

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 1220 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

4	Total Openings								Web Link	Site Verified
1	**Door#**	3463.A	**Location:**	Assessment 3463	From	Corridor 3470.3	**Handing:**	RHR		
1	**Door#**	3464.A	**Location:**	Assessment 3464	From	Corridor 3470.3	**Handing:**	RHR		
1	**Door#**	3465.A	**Location:**	Assessment 3465	From	Corridor 3470.3	**Handing:**	RHR		
1	**Door#**	3466.A	**Location:**	Consultation 3466	From	Corridor 3470.3	**Handing:**	LHR		

By Hardware Supplier						
4	Continuous Hinge	SL14HD x HT x 2150	628 / US28 / Clear Anodized	Select		☐
4	Classroom Lockset	9070T x 06B x 630 (Const. Keying)	630 / US32D / Satin Stainless Steel	Schlage		☐
4	Door Closer	4011 x REG x (LCN/ST 1544)	689 / US28 / Painted Aluminum	LCN		☐
4	Drop Plate	4020-18	689 / US28 / Painted Aluminum	LCN		☐
4	Overhead Stop	106S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
8	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
4	Smoke/Sound Seal	W-66 x 6000	Black	KN Crowder		☐
4	Auto Door Bottom	CT-54 x 1220	628 / US28 / Clear Anodized	KN Crowder		☐
By Pinders Security						
4	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

End of Heading

Heading# 61

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 1070 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

1	Total Openings							
1	**Door#**	3275	**Location:**	Corridor 3276	To	Nourish 3275	**Handing:**	RH

By Hardware Supplier					Web Link	Site Verified
1	Continuous Hinge	SL14HD x HT x 2150	628 / US28 / Clear Anodized	Select		☐
1	Privacy Latchset	LV9044 x 06B x L283-712 x L283-722 x 630	630 / US32D / Satin Stainless Steel	Schlage		☐
1	Door Closer	4011 x REG x (LCN/ST 1544)	689 / US28 / Painted Aluminum	LCN		☐
1	Drop Plate	4020-18	689 / US28 / Painted Aluminum	LCN		☐
1	Overhead Stop	105S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
2	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Smoke / Sound Seal	W-66 x 5400	Black	KN Crowder		☐
1	Auto Door Bottom	CT-54 x 1070	628 / US28 / Clear Anodized	KN Crowder		☐

End of Heading

Heading# 62

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 812 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	None

1	**Total Openings**								
1	**Door#**	3468	**Location:**	WR VEST. 3468	From	CLOSET 3828	**Handing:**	RHR	

					Web Link	Site Verified
By Hardware Supplier						
1	Continuous Hinge	SL14HD x HT x EPT x 2150	628 / US28 / Clear Anodized	Select		☐
1	Power Transfer	EPT-10	689 / US28 / Painted Aluminum	Von Duprin		☐
1	Elec.Mortise Storeroom Lockset	RX-LX-L9092EU-T x 06B x 630 x 24V (Const. Keying)	630 / US32D / Satin Stainless Steel	Schlage		☐
1	Door Closer	4111 x PA x 689 (LCN/ST 2779)	689 / US28 / Painted Aluminum	LCN		☐
1	Overhead Stop	103S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
2	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Smoke/Sound Seal	W-66 x 5400	Black	KN Crowder		☐
1	Auto Door Bottom	CT-54 x 812	628 / US28 / Clear Anodized	KN Crowder		☐
By Security Supplier						
1	Card Reader	To suit building system, by security provider				☐
1	REX Sensor	Built into lockset security to wire				☐
1	Latch Monitoring	Built into lockset security to wire				☐
1	Door Contact	To suit building system, by security provider				☐
1	Access Controller	To suit building system, by security provider				☐
1	Power Supply	To suit building system, by security provider				☐
By Pinders Security						
1	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider

End of Heading

Heading# 63

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 1220 x 2150 x 45	**STC Rating**	None
Door Material:	IHMD	**Frame Material:**	HMF	**Fire Rating**	None

1	**Total Openings**									
1	**Door#**	3484	**Location:**	Exterior	From	Ambulance Garage 3484	**Handing:**	LHR	Web Link	Site Verified

By Hardware Supplier						
1	Continuous Hinge	SL14HD x HT x EPT x 2150	628 / US28 / Clear Anodized	Select		☐
1	Power Transfer	EPT-10	689 / US28 / Painted Aluminum	Von Duprin		☐
1	Elec. Exit Device	RX-LX-QEL-98EO-NL-F x 110NL-MD x 4'0	630 / US32D / Satin Stainless Steel	Von Duprin		☐
1	Rim Cylinder	20-057 – Const. Keying	626 / US26D / Satin Chrome	Schlage		☐
1	Off-Set Door Pull	GSH 165 x 1500 x #2 MTG x 630	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Door Closer	4111 x PA x 689 (LCN/ST 2779)	689 / US28 / Painted Aluminum	LCN		☐
1	Overhead Stop	106S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
2	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Smoke/Sound Seal	W-66 x 6000	Black	KN Crowder		☐
1	Auto Door Bottom	CT-54 x 1220	628 / US28 / Clear Anodized	KN Crowder		☐
1	Weather Strip	W-13 – 1 x 1220 – 2 x 2150	628 / US28 / Clear Anodized	KN Crowder		☐
1	Threshold	CT-10 x 1220	628 / US28 / Clear Anodized	KN Crowder		☐
1	Drip Cap	W-3 x 1320	628 / US28 / Clear Anodized	KN Crowder		☐
By Security Supplier						
1	Card Reader & Keypad	To suit building system, by security provider				☐
1	Door Contact	To suit building system, by security provider				☐
1	REX Sensor	Built into Exit Device - security to wire				☐
1	Latch Monitoring	Built into Exit Device - security to wire				☐
1	Access Controller	To suit building system, by security provider				☐

1	Power Supply	To suit building system, by security provider				☐
By Pinders Security						
1	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider.

End of Heading

Heading# 64

Opening Information					
Opening Type:	Pair	**Opening Size:**	2-915 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	1 HR

1	**Total Openings**							
1	**Door#**	3480	**Location:**	Ambulance Vestibule 3480	From	Ambulance Garage 3484	**Handing:**	LHRA/RHRA

					Web Link	Site Verified
By Hardware Supplier						
2	Continuous Hinge	SL14HD x HT x EPT x 2150	628 / US28 / Clear Anodized	Select		☐
2	Power Transfer	EPT-10	689 / US28 / Painted Aluminum	Von Duprin		☐
1	Elec. Exit Device	RX-LX-QEL-9847EO-NL-F - LBR x 110NL-MD x 4'0	630 / US32D / Satin Stainless Steel	Von Duprin		☐
1	Elec. Exit Device	RX-LX-QEL-9847EO-F-LBR x 4'0	630 / US32D / Satin Stainless Steel	Von Duprin		☐
1	Rim Cylinder	20-057 – Const. Keying	626 / US26D / Satin Chrome	Schlage		☐
2	Off-Set Door Pull	GSH 165 x 1500 x #2 MTG x 630	630 / US32D / Satin Stainless Steel	Gallery		☐
2	Overhead Stop	104S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
4	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Smoke / Sound Seal	W-66 x 6330	Black	KN Crowder		☐
1	Astragal Set	W-25 x 2150	628 / US28 / Clear Anodized	KN Crowder		☐
2	Auto Door Bottom	CT-54 x 915	628 / US28 / Clear Anodized	KN Crowder		☐
By Automatics Supplier						
1	Auto Operator – PAIR	Micom Smart Swing 3 – Double Door – Push Mount.	628 / US28 / Clear Anodized	MICOM		☐
2	Wave Button	CM-331/S/W/42/SGLR	630 / US32D / Satin Stainless Steel	Camden		☐

1	Logic Relay	CX-33		Camden		☐
By Security Supplier						
1	Card Reader	To suit building system, by security provider				☐
1	REX Sensor	Built into Exit Device & tied into non-secure side Wave Button - security to wire				☐
1	Latch Monitoring	Built into lockset security to wire				☐
1	Door Contact	To suit building system, by security provider				☐
1	Access Controller	To suit building system, by security provider				☐
1	Power Supply	To suit building system, by security provider				☐
By Pinders Security						
1	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider
- 120VAC is required at the head of the door for all handicap door operators, 15A dedicated circuit. Wall/Frame must be reinforced for automatic operator mounting, all conduit and back boxes with pull cords are to be provided by the electrical contractor.
- Electrician to confirm wire locations with auto door operator supplier prior to pulling wires.

End of Heading

Heading# 65

Opening Information					
Opening Type:	Pair	**Opening Size:**	1 x 3050 x 2400	**STC Rating**	None
Door Material:	ALD	**Frame Material:**	ALF	**Fire Rating**	None

1	**Total Openings**								
1	**Door#**	3290	**Location:**	Corridor 3286	From	EMS POLICE Offload 3290	**Handing:**	BI-PART	

					Web Link	Site Verified
By Automatics Sliding Door Supplier						
1	Automatic Sliding Door System	Micom SL800 – Complete Double Door Automatic Sliding Door System with breakout panels, sidelights, integrated Panic bars, Auto Carriage Locks, Integrated Closers, Motion Sensors, Presence Sensors, Integrated Door Contacts, Single Rotary Key Switch to accept 1 ¼" Mortise cylinder in lieu of toggle jamb mounted.	628 / US28 / Clear Anodized	MICOM		☐
1	Mortise Cylinder	20-062-ICX x B520-253 –Const. Keying	626 / US26D / Satin Chrome	Schlage		☐
By Security Supplier						
1	Door Contact	To suit building system, by security provider				☐
By Pinders Security						
1	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider
- 120VAC is required at the head of the door for all handicap door operators, 15A dedicated circuit. Wall/Frame must be reinforced for automatic operator mounting, all conduit and back boxes with pull cords are to be provided by the electrical contractor.
- Electrician to confirm wire locations with auto door operator supplier prior to pulling wires.

End of Heading

Heading# 66

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 1070 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	1 HR

1	**Total Openings**								
1	**Door#**	3482	**Location:**	Ambulance Garage 3484	To	EMS Medication 3482	**Handing:**	LH	

					Web Link	Site Verified
By Hardware Supplier						
1	Continuous Hinge	SL14HD x HT x EPT x 2150	628 / US28 / Clear Anodized	Select		☐
1	Power Transfer	EPT-10	689 / US28 / Painted Aluminum	Von Duprin		☐
1	Elec.Mortise Storeroom Lockset	RX-LX-L9092EU-T x 06B x 630 x 24V (Const. Keying)	630 / US32D / Satin Stainless Steel	Schlage		☐
1	Door Closer	4011 x REG x (LCN/ST 1544)	689 / US28 / Painted Aluminum	LCN		☐
1	Drop Plate	4020-18	689 / US28 / Painted Aluminum	LCN		☐
1	Overhead Stop	105S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
2	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Smoke / Sound Seal	W-66 x 5400	Black	KN Crowder		☐
1	Auto Door Bottom	CT-54 x 1070	628 / US28 / Clear Anodized	KN Crowder		☐
By Security Supplier						
1	Card Reader	To suit building system, by security provider				☐
1	Door Contact	To suit building system, by security provider				☐
1	REX Sensor	Built into lockset security to wire				☐
1	Latch Monitoring	Built into lockset security to wire				☐
1	Access Controller	To suit building system, by security provider				☐
1	Power Supply	To suit building system, by security provider				☐
By Pinders Security						
1	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider.

End of Heading

Heading# 67A

Opening Information					
Opening Type:	Pair	**Opening Size:**	1 x 1200 x 2150 x 45 – 1 x 610 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	1 HR

1	**Total Openings**							
1	**Door#**	3481	**Location:**	Decont. Storage 3481	From	Decontam. 3326	**Handing:**	LHRA

					Web Link	Site Verified
By Hardware Supplier						
2	Continuous Hinge	SL14HD x HT x 2150	628 / US28 / Clear Anodized	Select		☐
1	Storeroom Lockset	L9080T x 06B x 630 (Const. Keying)	630 / US32D / Satin Stainless Steel	Schlage		☐
1	Semi-Auto Flush Bolts	FB51P	630 / US32D / Satin Stainless Steel	Ives		☐
1	Dust Proof Strike	DP-2	630 / US32D / Satin Stainless Steel	Ives		☐
1	Coordinator	COR52 x FL20	628 / US28 / Clear Anodized	Ives		☐
1	Mounting Bracket	MB2	628 / US28 / Clear Anodized	Ives		☐
2	Door Closer	4040XP x PA x (LCN/ST 2776)	689 / US28 / Painted Aluminum	LCN		☐
1	Overhead Stop	102S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
1	Overhead Stop	106S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
2	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX (Rounded Corners)	630 / US32D / Satin Stainless Steel	Gallery		☐
2	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX (Rounded Corners)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Smoke/Sound Seal	W-66 x 6500	Black	KN Crowder		☐
1	Door Sweep	W-24S-SS x 1200 x TORX (Mount on Pull Side)	630 / US32D / Satin Stainless Steel	KN Crowder		☐
1	Door Sweep	W-24S-SS x 610 x TORX (Mount on Pull Side)	630 / US32D / Satin Stainless Steel	KN Crowder		☐
By Pinders Security						
1	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

End of Heading

Heading# 67B

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 1200 x 2150 x 45	**STC Rating**	None
Door Material:	HMD	**Frame Material:**	HMF	**Fire Rating**	1 HR

1	**Total Openings**								
1	**Door#**	3483	**Location:**	AMBULANCE GARAGE 3484	To	SUPPLY & CLEAN LINEN 3483	**Handing:**	RH	

					Web Link	Site Verified
By Hardware Supplier						
1	Continuous Hinge	SL14HD x HT x EPT x 2150	628 / US28 / Clear Anodized	Select		☐
1	Power Transfer	EPT-10	689 / US28 / Painted Aluminum	Von Duprin		☐
1	Elec.Mortise Storeroom Lockset	RX-LX-L9092EU-T x 06B x 630 x 24V (Const. Keying)	630 / US32D / Satin Stainless Steel	Schlage		☐
1	Door Closer	4011 x REG x (LCN/ST 1544)	689 / US28 / Painted Aluminum	LCN		☐
1	Drop Plate	4020-18	689 / US28 / Painted Aluminum	LCN		☐
1	Overhead Stop	106S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
2	Kick Plates	GSH 80A – 300 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Smoke / Sound Seal	W-66 x 6500	Black	KN Crowder		☐
1	Auto Door Bottom	CT-54 x 1200	628 / US28 / Clear Anodized	KN Crowder		☐
By Security Supplier						
1	Card Reader	To suit building system, by security provider				☐
1	Door Contact	To suit building system, by security provider				☐
1	REX Sensor	Built into lockset security to wire				☐
1	Latch Monitoring	Built into lockset security to wire				☐
1	Access Controller	To suit building system, by security provider				☐
1	Power Supply	To suit building system, by security provider				☐
By Pinders Security						
1	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider.

End of Heading

Heading# 68

Opening Information					
Opening Type:	Single	**Opening Size:**	1 x 1070 x 2150 x 45	**STC Rating**	None
Door Material:	IHMD	**Frame Material:**	HMF	**Fire Rating**	3/4 HR

1	**Total Openings**									
1	**Door#**	T05.1	**Location:**	Exterior	From	Triage Corridor T05	**Handing:**	RHR	Web Link	Site Verified

By Hardware Supplier						
1	Continuous Hinge	SL14HD x HT x EPT x 2150	628 / US28 / Clear Anodized	Select		☐
1	Power Transfer	EPT-10	689 / US28 / Painted Aluminum	Von Duprin		X
1	Elec. Exit Device w/ Lever Trim	RX-LX-QEL-98L-F x 996L x 06 x 4'0	630 / US32D / Satin Stainless Steel	Von Duprin		☐
1	Rim Cylinder	20-057 – Const. Keying	626 / US26D / Satin Chrome	Schlage		☐
1	Mortise Cylinder	20-062-ICX x B520-253 –Const. Keying	626 / US26D / Satin Chrome	Schlage		☐
1	Overhead Stop	105S	630 / US32D / Satin Stainless Steel	Glynn Johnson		☐
2	Armour Plates	GSH 90F – 864 x To Suit Door Width x TORX x 3M TAPE (Rounded Corners) (TORX TOP+SIDE ONLY)	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Smoke/Sound Seal	W-66 x 6000	Black	KN Crowder		☐
1	Auto Door Bottom	CT-54 x 1220	628 / US28 / Clear Anodized	KN Crowder		☐
1	Weather Strip	W-13 – 1 x 1220 – 2 x 2150	628 / US28 / Clear Anodized	KN Crowder		☐
1	Threshold	CT-10 x 1220	628 / US28 / Clear Anodized	KN Crowder		☐
By Automatics Supplier						
1	Auto Operator	Micom Smart Swing 3 – Single Door – Push Mount.	628 / US28 / Clear Anodized	MICOM		☐
2	Wave Button	CM-331/S/W/42/SGLR	630 / US32D / Satin Stainless Steel	Camden		☐
1	Logic Relay	CX-33		Camden		☐
1	Keypad	CV-110SPK				
1	Key Switch	CM-2210 x 7224 LED				
By Pinders Security						
2	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider.
- 120VAC is required at the head of the door for all handicap door operators, 15A dedicated circuit. Wall/Frame must be reinforced for automatic operator mounting, all conduit and back boxes with pull cords are to be provided by the electrical contractor.
- Door Can Operate in Two Modes – During Day Hours: Door is Always Open from Both Sides with Both ADO Buttons Active. During Off Hours: Closed with key from Secured Side(Cylinder) & ADO Button active only when Approved Pass Code is entered into the keypad beside it. Un-secured side always free egress with ADO Button always active. – Use Classroom Trim and Keyswitch together to Switch between Operating Modes.

End of Heading

Heading# 69

Opening Information					
Opening Type:	Single	**Opening Size:**	1100 x 2150 x 45	**STC Rating**	None
Door Material:	ALD	**Frame Material:**	ALF	**Fire Rating**	None

1	Total Openings							
1	**Door#**	3153	**Location:**	EXTERIOR	From	Vestibule C-11	**Handing:**	LHR

By Hardware Supplier					Web Link	Site Verified
1	Continuous Hinge	SL14HD x HT x EPT x 2150	628 / US28 / Clear Anodized	Select		☐
1	Power Transfer	EPT-10	689 / US28 / Painted Aluminum	Von Duprin		☐
1	Elec. Exit Device	RX-LX-QEL-35A-NL-OP-F x 388NL x 4'0	630 / US32D / Satin Stainless Steel	Von Duprin		☐
1	Rim Cylinder	20-057 – Const. Keying	626 / US26D / Satin Chrome	Schlage		☐
1	Off-Set Door Pull	GSH 1180-3 x #2 MTG x 630	630 / US32D / Satin Stainless Steel	Gallery		☐
1	Door Closer	4021-RH	689 / US28 / Painted Aluminum	LCN		☐
1	Drop Plate	4020-18G	689 / US28 / Painted Aluminum	LCN		☐
1	Overhead Stop	105S x 630	689 / US28 / Painted Aluminum	Glynn Johnson		☐
1	Door Sweep	Provided by Aluminum Door Supplier	628 / US28 / Clear Anodized			☐

1	Weatherstrip	Provided by Aluminum Door Supplier	628 / US28 / Clear Anodized			☐
1	Threshold	Provided by Aluminum Door Supplier	628 / US28 / Clear Anodized			☐
By Security Supplier						
1	Door Contact	To suit building system, by security provider				
1	REX Sensor	Provided in Exit Device				
1	Latch Bolt Monitor	Provided in Exit Device				
1	Card Reader	To suit building system, by security provider				
1	Access Controller	To suit building system, by security provider				
1	Power Supply	To suit building system, by security provider				☐
By Pinders Security						
2	Permanent Core	Permanent LFIC by GC via Pinders Security	652 / US26D / Satin Chrome			☐

Notes:

- 120VAC is required at the head of the door for all handicap door operators, 15A dedicated circuit. Wall/Frame must be reinforced for automatic operator mounting, all conduit and back boxes with pull cords are to be provided by the electrical contractor.
- Final commissioning of all access control items, such as but not limited to electric strikes, Rex sensors, Door contacts, Electrified Panics, Relays & Maglocks is the responsibility of the security provider

End of Heading

END OF SCHEDULE

PART 1 - GENERAL

1.1 Summary

.1 Section includes:

.1 Acoustical tile ceiling systems; ACT-1, ACT-2, ACT-3, ACT-4, ACT-5, ACT-6. [Revised by Addendum No.3]

1.2 Administrative Requirements

.1 Coordination:

.1 Cooperate with mechanical and electrical *Subcontractors*.

.2 Coordinate layout and installation of acoustic ceiling units and suspension systems components with other work supported by or penetrating through ceilings, including light fixtures, HVAC equipment, partition system, fire suppression system components and other work required to be incorporated in or coordinated with the ceiling system.

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 Submit engineered shop drawings, including seismic design, connections and restraint.

.2 Submit manufacturer's standard details.

.3 Indicate lay-out, insert and hanger spacing and fastening details, splicing method for main and cross runners, location of access splines, and acoustical unit support at ceiling fixture.

.4 Submit reflected ceiling plans for special grid patterns as indicated.

.4 Samples:

.1 Submit sample of each component of ceiling system. Samples shall fully represent materials to be supplied in colour, texture, finish and construction.

.2 Submit samples, load test data and design tables for each type of insert to be used in the *Work* for hanger supports.

.5 Certificates:

.1 Submit certificate of compliance stating that the suspension system provided, including materials and installation, comply with the requirements of the *Contract Documents*.

Section revised by Addendum No.3

1.4 Closeout Submittals

.1 Submit closeout submittals in accordance with Section 01 77 00.

.2 Maintenance data:

.1 Submit maintenance and cleaning instructions for acoustical ceiling systems for incorporation into the maintenance manuals.

.3 Maintenance materials:

.1 Deliver for maintenance use, 5% of each type and colour of suspension components and acoustical tiles used in the *Work*.

.2 Pack panels in suitable containers, clearly dated and identified as to type and location of installation in the *Work*, and store where directed by *Owner*.

1.5 Quality Assurance

.1 Qualifications:

.1 Installers / applicators / erectors:

.1 Installers: Shall have 5 years' experience, minimum, in application of *Products*, systems and assemblies specified and with approval and training of *Product* manufacturers.

.2 Mock-ups:

.1 Construct in locations acceptable to *Consultant* a typical sample ceiling installation 5.6 m^2 (60 ft^2) in area. Modify sample as directed and as required to obtain approval. Upon acceptance retain sample as standard of quality for acoustical ceiling.

.2 Do not begin fabrication and erection of remainder of ceiling system until sample installation has been reviewed and accepted. Accepted sample may become a part of the final *Work*, subject of approval of *Consultant*.

1.6 Delivery, Storage, and Handling

.1 Ship exposed members and mouldings in rigid crates to avoid damage. Bent or deformed material shall be rejected. Baked enamelled members shall be suitably wrapped and protected against damage.

.2 Deliver acoustical ceiling units to the *Place of the Work* in original, unopened packages and store in a fully enclosed space where they will be protected against damage from moisture, direct sunlight, surface contamination, and other causes.

.3 Before installing acoustical ceiling units, permit them to reach room temperature and stabilized moisture content.

.4 Handle acoustical ceiling units carefully to avoid chipping edges or damaging units.

Section revised by Addendum No.3

1.7 Field Conditions

.1 Commence installation after building is enclosed with windows and exterior doors in place and glazed, and roof watertight.

.2 Interior temperature of building to range from 15°C to 30°C and relative humidity of not more than 70% before and during installation. Maintain uniform temperatures for 72 hours prior to commencement of the work of this section and maintain temperature until completion of the work of this section.

PART 2 - PRODUCTS

2.1 Performance/Design Requirements

.1 Design suspension systems for a maximum mid-span deflection not exceeding L/360 in accordance with ASTM C635/C635M-22 deflection test.

.2 Seismic design: Design and install suspended ceiling system to withstand the effects of earthquake motions in accordance with ASTM E580/E580M-22.

.3 Design suspension system to support safely, and without distortion, the superimposed loads of:

.1 Air supply diffusers and return grilles.

.2 Lighting fixtures.

.4 Regulatory Requirements:

.1 Fire resistance rated system: Listed by accredited listing agency.

2.2 General

.1 Single source responsibility: Obtain each type of acoustical ceiling unit and suspension system from a single source with resources to provide products of consistent quality in appearance and physical properties without delaying progress of the *Work*. Products installed as part of the work of this section shall be from same production run.

2.3 Acoustical Tiles

.1 ~~ACT~~ ACT-1; Lay-in acoustical tiles: [Revised by Addendum No.3]

.1 Classification: Type IV, Form 2, Pattern E in accordance with ASTM E1264-22.

.2 Size: 610 mm x 1220 mm (24" x 48").

.3 Thickness: 19 mm (3/4").

.4 NRC: 0.70 minimum.

.5 Material: Wet-formed mineral fibre.

.6 Surface texture: Fine.

.7 Edge: Square lay-in.

.8 Colour: White.

.9 Flame spread:

.1 Maximum values in accordance with CAN/ULC-S102-10:

.1 Flame Spread Value (FSV): 25.

.2 Smoke Developed Value (SDV): 50.

.10 Acceptable *Products*:

.1 Armstrong ‘Ultima’.

.2 Armstrong ‘Ultima Health Zone’.

.3 USG ‘Mars’.

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

.2 ~~ACT-~~ACT-2; Lay-in acoustical tiles: [Revised by Addendum No.3]

.1 Classification: Type III, Form 2, Pattern C E in accordance with ASTM E1264-22.

.2 Size: 610 mm x 1220 mm (24" x 48").

.3 Thickness: 19 mm (3/4").

.4 NRC: 0.70.

.5 Material: Wet-formed mineral fibre.

.6 Surface texture: Medium/lightly.

.7 Edge: Square lay-in.

.8 Colour: White.

.9 Flame spread:

.1 Maximum values in accordance with CAN/ULC-S102-10:

.1 Flame Spread Value (FSV): 25.

.2 Smoke Developed Value (SDV): 50.

.10 Acceptable *Products*:

.1 Armstrong ‘School Zone Fine Fissured’.

.2 USG ‘Radar High NRC’.

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

.3 ACT-3; Lay-in security acoustic ceiling tile: [Added by Addendum No.3]

.1 Classification: Unperforated Type XX, Pattern G.

.2 Size: 610 mm x 610 mm (24” x 24”).

.3 Material: Electrogalvanized steel, 18 gauge thickness.

.4 Surface texture: Smooth.

.5 Colour: White.

.6 Flame spread:

.1 Maximum values in accordance with CAN/ULC-S102-10:

.1 Flame Spread Value (FSV): 25.

.2 Smoke Developed Value (SDV): 50.

.7 Point-load tested to withstand up to 385.5 kgs (850 lbs) and a minimum of 195 kg (430 lbs).

.8 Protection against contraband concealment.

.9 Concealed locking.

.10 Acceptable *Product*:

.1 Armstrong 'Metalworks Securelock'.

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

.4 ACT-4; Lay-in acoustical tiles: [Added by Addendum No.3

.1 Classification: Type IV, Form 2, Pattern E in accordance with ASTM E1264-14.

.2 Size: 760 mm x 760 mm x 19 mm (30" x 30" x 3/4"), except as follows:

.1 Tech panels: 100 mm x 1525 mm (4" x 60")

.3 NRC: 0.75.

.4 CAC: 35.

.5 Material: Mineral fibre.

.6 Surface texture: Fine.

.7 Edge: Beveled tegular.

.8 Colour: White.

.9 Suspension system: 9/16" Interlude XL HRC Suspension.

.10 Flame spread:

.1 Maximum values in accordance with CAN/ULC-S102-10:

.1 Flame Spread Value (FSV): 25.

.2 Smoke Developed Value (SDV): 50.

.11 Acceptable *Products*:

.1 Armstrong 'Techzone with Ultima #1905 Technical Panels'.

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

.5 ACT-5, ACT-6; Lay-in acoustical tiles: [Added by Addendum No.3]

.1 Classification: Type IV, Form 2, Pattern E in accordance with ASTM E1264-22.

.2 Sizes:

.1 ACT-5: 610 mm x 1220 mm (24" x 48").

.2 ACT-6: 610 mm x 610 mm (24" x 24").

.3 Thickness: 19 mm (3/4").

.4 NRC: 0.70.

.5 Material: Wet-formed mineral fibre.

.6 Surface texture: Fine.

.7 Edge: Square lay-in.

.8 Flame spread:

.1 Maximum values in accordance with CAN/ULC-S102-10:

.1 Flame Spread Value (FSV): 25.

.2 Smoke Developed Value (SDV): 50.

.9 Acceptable *Product*:

.1 Armstrong 'Ultima Health Zone'.

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

2.4 Metal Suspension Systems

.1 Hanger anchorage devices: Screws, clips, bolts, concrete inserts or other devices applicable to the indicated method of structural anchorage for ceiling hangers and whose suitability for use intended has been proven through standard construction practices or by certified test data. Size devices for 3 x calculated load supported except size direct pull-out concrete inserts for 5 x calculated loads.

.2 Concrete hanger anchors; post installed: Steel eye bolts and nuts to suit ceiling hangers with capability to sustain, without failure, a load equal to 4 times that imposed by ceiling construction, as determined by testing per ASTM E488/E488M-22, conducted by a qualified independent testing laboratory.

.1 Dynabolt Sleeve Anchor 'TW-1614' or Readi-Tie-Drive 'TD4-112' tie wire anchor by ITW Ramset/Red Head.

.2 Kwik-Bolt III 'HHDCA 1/4' tie wire anchor by Hilti Corporation.

.3 Fasteners exposed to weather, condensation, and corrosion: Zinc-plated or stainless steel fasteners in applicable product lines specified in preceding paragraphs.

.3 Hangers and tie wire: Galvanized wire, recommended by manufacturer of suspension system, minimum 2.66 mm (0.1") (12 gauge).

.4 Suspension system accessories:

.1 Splices, clips, and perimeter moulding, of manufacturer's standard type to suit the applicable conditions unless special conditions and access area are shown or specified.

.2 Hold-down clips; manufacturer's standard type for fire-rated applications.

.3 Angle wall mouldings; hemmed with prefinished exposed flanges:

.1 For 24 mm (15/16") grid applications unless otherwise indicated; angle moulding with exposed bottom flange of 22 mm (7/8”).

.1 Armstrong ‘7803’.

.2 CertainTeed ‘WA15-15’.

.3 CGC ‘M7’.

.2 For 14 mm (9/16") grid applications where indicated; angle moulding with exposed bottom flange of 24 mm (15/16”).

.1 Armstrong ‘7804’.

.2 CertainTeed ‘Wall Angle WA15-9’.

.3 CGC ‘M9’.

.4 Shadow wall mouldings:

.1 For 14 mm (9/16") grid applications where indicated; angle moulding with exposed bottom flange of 24 mm (15/16”).

.1 Armstrong ‘7823’.

.2 Substitutions in accordance with 01 25 00.

.5 Suspension system accessory for continuous lighting:

.1 Acceptable *Product*:

.1 Armstrong ‘TechZone Yoke TZYK’.

.6 Stepped wall mouldings; hemmed with prefinished exposed flanges:

.1 For 24 mm (15/16") grid applications; shadow moulding with exposed bottom flange of 22 mm (7/8”) and reveal of 19 mm (3/4").

.1 Armstrong ‘7871’.

.2 CertainTeed ‘SM1020’.

.3 CGC ‘MS154’.

.2 For 14 mm (9/16") grid applications; shadow moulding with exposed bottom flange of 14 mm (9/16") and reveal of 10 mm (3/8”).

.1 Armstrong ‘7873’.

.2 CertainTeed ‘SM1000’.

.3 CGC ‘MS174’.

.7 Compression posts: galvanized steel telescoping compression posts to attached to main tees at each splayed wire location preventing upward movement of the ceiling grid system, designed for seismic applications, size to suit ceiling assembly, injection-moulded high impact clip snaps onto main tee for secure positive locking, spring steel top clip attaches to hanger wire, ICBO (International Conference of Building Officials) listed, tested and certified to a minimum compressive load of 408 kg (900 lb); DONN Compression Post as manufactured by CGC Interiors or approved alternative.

.8 Seismic clips: Ceiling system manufacturer's standard seismic clips designed and spaced to secure tiles in place.

.5 Standard suspension system, non fire-rated:

.1 Heavy duty in accordance with ASTM C635/C635M-22, 24 mm (15/16") interlocking tee system, designed to support acoustical panels in patterns indicated with deflection of main tees less than L/360, consisting of main tees and cross tees. The system shall provide lock joint intersections of cross and main tees.

.2 Acceptable *Products*:

.1 Armstrong 'Prelude XL 15/16" Exposed Tee Systems'.

.2 CertainTeed '15/16" Classic Stab System'.

.3 CGC 'DX'.

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

.6 Narrow suspension system, non fire-rated:

.1 Heavy duty in accordance with ASTM C635/C635M-22, 14 mm (9/16") interlocking tee system, designed to support acoustical panels in patterns indicated with deflection of main tees less than L/360, consisting of main tees and cross tees. The system shall provide lock joint intersections of cross and main tees.

.2 Acceptable *Products*:

.1 Armstrong 'Suprafine XL 9/16" Exposed Tee Systems'.

.2 CertainTeed '9/16" Elite Narrow Stab'.

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

.4 ACT-4: [Added by Addendum No.3]

.1 Armstrong 'Interlude XL HRC'.

2.5 Miscellaneous Materials

.1 Acoustical sealant: Non-drying, non-hardening, non-skinning, non-staining, non-bleeding, gunnable sealant complying with requirements specified in Section 07 92 00.

Section revised by Addendum No.3

2.6 Metal Finish

.1 Metal exposed in finished work shall have a pre-coated baked enamel finish in non-yellowing colour. Submit paint formulation of grid system to lighting fixture, speaker grille, sprinkler and diffuser manufacturers to ensure consistency of colour, sheen and texture of all exposed metal components in the ceiling assemblies.

.1 Colour: Flat white.

PART 3 - EXECUTION

3.1 Installation - General

.1 Install ceiling panels and metal suspension system in accordance with manufacturer's directions. Where manufacturer's directions are at variance with *Contract Documents*, notify *Consultant* before proceeding with installation.

.2 Do not commence installation until all work above suspended ceiling has been completed, inspected and accepted.

3.2 Installation - Suspension System

.1 Install suspension system rigid, secure, square, level and plumb, framed and erected to maintain dimensions and contours indicated, and in accordance with ASTM C636/C636M-19, ASTM E580/E580M-22, CISCA installation standards, and any other applicable national or local code requirements. Make allowance for thermal and structural movement.

.1 Install acoustical ceiling suspension system to resist seismic disturbance in accordance with ASTM E580/E580M-22.

.2 Coordinate work of this section with work of the mechanical and electrical trades for seismic restraint. Install seismic fixture clamps, supplied by Divisions 21, 22, and 23 and Divisions 26, 27, and 28.

.2 Attach hangers to structure with inserts and hanger supports. Do not use powder activated fasteners.

.3 Support hangers for suspended ceiling grid independent of walls, columns, pipes and ducts.

.4 Space hangers for ceilings at maximum 1220 mm (48") on centre in both directions. Provide additional hangers as required to comply with manufacturer’s written installation requirements.

.5 Locate hangers at not more than 150 mm (6") from ends of main tee members.

.6 Seismic clips: Install seismic clips to secure tiles in place in accordance with ceiling system manufacturer’s written requirements.

.7 Install exposed tee members to pattern indicated. Securely attach hangers to main tee members.

.8 Exposed tees shall be as long as possible to minimize joints. Make joints square, tight, flush and reinforce with splines. Distribute joints to prevent clustering in one area.

.9 Space tee bars to suit ceiling panels and as detailed, and to accommodate lighting fixtures, diffusers and return grilles.

.10 Cooperate in the installation of ceiling systems, making adjustments where required to ensure that the lighting fixtures, supply diffusers, exhaust grilles and other built-in items properly fit into ceiling module and finish flush with rest of ceiling.

.11 Restrict creep inside module panels so that in all cases strips are centred on module lines.

.12 Install edge moulding as detailed where ceiling abuts vertical surfaces. Lap corners, use maximum lengths to minimize joints. Make joints square, tight and flush.

.1 Screw attach mouldings to substrates at intervals not more than 400 mm (16") on centre and not more than 210 mm (8") from ends, levelling with suspension system. Lap corners accurately and connect securely.

3.3 Installation - Tiles

.1 Take precautions during installation to ensure tile edges are not chipped or otherwise damaged.

.2 Minimize field cutting. Rectify cut tile edges of tile to match factory cut edge profile and colour.

.3 Install acoustical tiles to form horizontal and level ceiling with all parts flush and joints butted tightly to hairline appearance.

.4 Distribute variations in colour and texture of panels to obtain a uniform appearance.

3.4 Installation - Tolerances

.1 Allowable tolerances: in accordance with ASTM C636/C636M-19.

.2 Install suspension systems level to tolerance of 1:1200.

.3 Install edge mouldings level to tolerance of 3 mm in 3660 mm (1/8" in 12'-0").

3.5 Field Quality Control

.1 Conduct quality control in accordance with Section 01 45 00.

3.6 Adjusting and Cleaning

.1 Replace uneven, defective or damaged materials and finishes, eliminate waves, remove soiled or stained areas.

.2 Clean dirty and discoloured surfaces of acoustical units and suspension system according to manufacturer's recommendations.

END OF SECTION

1.1 Summary

.1 Section includes:

.1 Corner guards; CG1, CG2, CG3, CG4, CG5, CG6.

.2 Handrails; HR1.

.3 Crash and bumper rails; CR1/BR1, CR3/BR3.

.4 Chair rail; CH/RL1.

1.2 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 Samples:

.1 Submit 3 samples, 300 mm (12") long or 300 x 300 mm (12 x 12") in size as applicable, for each *Product* in specified finish.

.4 Shop drawings:

.1 Include plans, elevations, hardware, and installation details.

.2 Show seam locations.

.5 Templates:

.1 Submit templates to *Project Co.* for use by installers and fabricators as required for proper location and installation of hardware.

1.3 Quality Assurance

.1 Mock-up:

.1 *Provide* full mock-up of each of the following types of wall protection specified in location as designated by *Consultant*.

.1 Handrails.

.2 Crash and bumper rails.

.3 Corner guards.

.2 Mock-up may be incorporated in the completed work upon acceptance of *Consultant*.

1.4 Delivery, Storage, and Handling

.1 Package or crate, and brace *Products* to prevent distortion in shipment and handling. Label packages and crates, and protect finish surfaces by sturdy wrappings.

.2 Deliver *Products* to location at the *Place of the Work* designated by *Project Co*.

Section revised by Addendum No.3

PART 2 - PRODUCTS

2.1 General

.1 Incorporate reinforcing, fastenings and anchorage required for building-in of *Products*.

.2 For the work of this Section, provide products by one manufacturer.

2.2 Corner Guards

.1 CG1:

.1 Surface mounted, 75 mm (3") legs, full height from base to ceiling, extruded thermoplastic.

.1 Colour: Acrovyn, White #949.

.2 Angles: Allow for 90° and wider angles.

.3 Full height, except where indicated otherwise.

.4 Acceptable *Products*:

.1 Acrovyn ‘TFC’.

.1 Thickness: 1.02 mm (0.040”).

.2 Construction Specialties ‘Model SM-20N’.

.3 Inpro Architectural Products ‘130 High Impact Corner Guard’.

.4 Substitutions: In accordance with Section 01 25 00.

.2 CG2 and CG3:

.1 Surface mounted, full height from base to ceiling, stainless steel, No.4 satin finish.

.2 Legs:

.1 CG2: 38 mm (1-1/2").

.2 CG3: 89 mm (3-1/2").

.3 Acceptable *Products*:

.1 Construction Specialties Acrovyn Model CO-8.

.2 Inpro Corporation ‘Surface Mount Stainless Steel Corner Guard’.

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

.3 CG4 and CG5:

.1 Surface mounted, U-shaped full height from base to ceiling, stainless steel, No.4 satin finish.

.2 Legs:

.1 CG4: 38 mm (1-1/2").

.2 CG5: 89 mm (3-1/2").

.3 Acceptable *Products*/Manufacturer:

.1 Construction Specialties ‘Model CO-8’, custom shaped and size.

.2 Inpro Corporation ‘Surface Mount Stainless Steel Corner Guard’, custom shaped and size.

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

.4 CG6:

.1 Surface mounted, angles at 135 degrees, full height from base to ceiling, stainless steel.

.2 Acceptable *Products*:

.1 Construction Specialties Acrovyn Model SCO-8.

.2 Inpro Corporation ‘Surface Mount Stainless Steel Corner Guard’.

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

.5 Adhesives: type as recommended by corner guard manufacturer.

.6 Sealants: in accordance with Section 07 92 00.

2.3 Handrail

.1 HR1:

.1 Surface mounted, 110 mm (4-5/16") height x 41 mm (1-5/8") gripping diametre, extends 79 mm (3-1/8") from wall, with continuous extruded aluminium retainer/bracket, and snap-on covers.

.2 Handrail shall be continuous around corners as required.

.3 Accessories:

.1 End caps.

.2 Brackets.

.3 Mounting system accessories as *Provided* by manufacturer.

.4 Texture: Pebblette.

.1 Colour: Taupe 0113.

.2 Acceptable *Products*:

.1 Inpro Architectural Products ‘1000BH Ligature Resistant Handrail’.

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

2.4 Crash Rails and Bumper Rails

.1 CR1/BR1, 2 rails – one serving as rail and one as a bumper guard:

.1 Surface mounted, 200 mm (8") high maximum, extruded thermoplastic applied moulding. Manufacturer’s standard mounting hardware.

.2 Colour: 262 Driftwood.

.3 Profile:

.1 Curved:

.1 Acceptable *Products*:

.1 Construction Specialties ‘SCR-80N’.

.2 Inpro Architectural Products ‘1800 Series’.

.3 Substitutions: In accordance with Section 01 25 00.

.2 CR3/BR3, 2 rails – one serving as rail and one as a bumper guard:

.1 Stainless steel crash rail, 150 mm (6") high, with rounded edges, Type 304, #4 satin finish.

.2 Acceptable *Product*:

.1 Construction Specialties ‘Model ECR-60S Series’.

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

.3 SS/BR; SS bumper rail: [Revised by Addendum No.3]

.1 Floor mounted.

.2 Acceptable *Product*:

.1 Construction Specialties ‘Model ECR-6SF’’.

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

.4 Accessories:

.1 Fasteners: manufacturer's standard to provide, concealed, flush mounting.

2.5 Chair Rail

.1 CH/RL1:

.1 Surface mounted, 100 mm (4") high, with continuous aluminum retainer and regrind PVC free cushion.

.2 Acceptable *Product*:

.1 Construction Specialties ‘Model SCR-40N.

.1 Colour: 949 White, Suede Texture.

.2 Inpro Architectural Products ‘1400 Series’.

.3 Substitutions: In accordance with Section 01 25 00.

Section revised by Addendum No.3

PART 3 - EXECUTION

3.1 Installation

.1 Install work to meet manufacturer's written requirements, true, tightly fitted, and level or flush to adjacent surfaces, as suitable for installation.

.2 Clean substrates to remove dirt, debris and loose particles prior to installation.

.3 Fit joints and junction between components tightly and in true planes.

.4 Install units on solid backing as indicated, and erect with materials and components straight, tight and in alignment.

.5 Bumper guards, hand rails, and crash rails:

.1 Mechanically fasten wall guards, hand rails, crash rails and bumper rails with top surface parallel to finished floor line to height indicated.

.2 Install straight and level to a tolerance of plus or minus 3 mm (1/8") over 3000 mm (10') straight edge, non-cumulative. Maximum 32” o.c. spacing of handrail supports as per product manufacturer.

.6 Corner guards:

.1 Corner guard edges shall be smooth.

.2 Fastening type: in accordance with manufacturer’s written installation requirements:

.1 Adhere corner guards with continuous adhesive beads in accordance with manufacturer's written requirements.

.2 Adhere corner guards with self-adhesive tape backing in accordance with manufacturer’s written requirements.

.3 Mechanically fasten corner guards in accordance with guard manufacturer's written requirements. Fasteners shall be aligned and equally spaced.

.3 Visible fasteners are not permitted.

.4 Install corner guard shall be tightly fitted without gaps.

END OF SECTION

Modular Workplace Guardrail System

Section revised by Addendum No.3

1 GENERAL

1.1 Definitions

.1 Application Specialist: An individual who performs surface preparation and application of protective coatings and linings to steel and concrete surfaces of complex industrial structures.

1.2 Reference Standards

.1 American National Standard / American Society of Safety Engineers (ANSI/ASSE):

.1 ANSI/ASSE A1264.1-2007 Safety Requirements for Workplace Walking/Working Surfaces and their Access; Workplace, Floor, Wall and Roof Openings; Stairs and Guardrail Systems.

.2 ASTM International (ASTM)

.1 A27/A27M-13 Standard Specification for Steel Castings, Carbon, for General Application

.2 ASTM A 47-99(2014), Standard Specification for Ferritic Malleable Iron Castings.

.3 ASTM A 53/A 53M 02, Specification for Pipe, Steel, Black and Hot Dipped, Zinc Coated Welded and Seamless.

.4 ASTM A 153/A 123M-16, Standard Specification for Zinc (Hot-Dip) Coatings on Iron and Steel Hardware.

.5 ASTM A 500-13 Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes.

.6 ASTM B 221M-13, Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes (Metric).

.7 ASTM B 429//B241M-10e1, Standard Specification for Aluminum-Alloy Extruded Structural Pipe and Tube.

.8 ASTM E 935-13e1, Standard Test Methods for Performance of Permanent Metal Railing Systems and Rails for Buildings.

.3 Green Seal Environmental Standards (GS)

.1 GS-11-2015, Paints, Coatings, Stains and Sealers.

Section revised by Addendum No.3

.4 National Research Council Canada (NRC)

.1 National Building Code of Canada 2015 (NBC).

.5 South Coast Air Quality Management District (SCAQMD), California State, Regulation XI. Source Specific Standards.

.1 SCAQMD Rule 1113-A2011, Architectural Coatings.

.6 NACE International

.1 NACE International

.1 ANSI/NACE No. 13/SSPC-ACS-1-2016-SG, Industrial Coating and Lining Application Specialist Qualification and Certification.

1.3 Action and Informational Submittals

.1 Submit in accordance with Section 01 33 00 - Submittal Procedures.

.2 Product Data:

.1 Submit manufacturer's instructions, printed product literature and data sheets for handrails and include product characteristics, performance criteria, physical size, finish and limitations.

.2 Submit manufacturer's installation instructions with project specific annotations to suit project conditions.

.3 Shop Drawings:

.1 Submit drawings stamped and signed by professional engineer registered or licensed in Ontario, Canada.

.2 Indicate profiles, sizes, connection attachments, anchorage, size and type of fasteners, and accessories.

.3 Indicate installation of handrails and guardrails including but not limited to plans, elevations, sections, details of components, anchor details, toe boards, and clearances to adjacent assemblies. Indicate critical field dimensions and conflicts.

.4 Indicate installation conditions at obstructions or at junction with adjacent construction as necessary to provide continuity of protection.

.4 Samples:

.1 Submit for review and acceptance of each unit.

.2 Samples will be returned for inclusion into work.

.3 Submit 2, 200 mm long samples of handrail and typical fittings complete with specified finish.

.4 Submit 2 complete sets of colour chips showing manufacturer's complete range of finishes.

.5 Parts List:

.1 Submit parts list indicating manufacturer's name, part number and name, quantity required for complete installation.

.6 Certificates:

.1 Submit certification that modular guardrail system has been tested in accordance with ASTM E 935, that it conforms to requirements of ANSI/ASSE A1264.1 and to workplace safety requirements of authority having jurisdiction.

.2 Submit certifications for Application Specialists to demonstrate compliance to the requirements of ANSI/NACE No.13.

1.4 Maintenance Material

.1 Furnish maintenance material at a rate of 2% of number of each installed component.

.2 Deliver to site in sealed packaging labeled with manufacturer's name, component part number corresponding to installed products list. Store where directed.

1.5 Quality Assurance

.1 Modular guardrail system shall be the standard product of a manufacturer regularly engaged in the engineering design and manufacture of such products. System shall consist of components that have been in satisfactory use for at least 2 years prior to date of tender issue.

.2 Qualifications:

.1 Ensure that 50% of industrial coating and lining applications specialists,

.2 who perform concrete and steel surfaces preparation and coating applications, are certified by a recognized Applicator Certification Agency, in accordance with

NACE 13 /SSPC ACS-I, Applicator Certification Standard (ACS).

.3 Maintain a current and valid ACS certification during project period.

.1 Application specialists who perform surface preparation and coating application work on this project must have a current ACS.

.4 Notify Consultant of any change in application specialist certification status.

.1 Any delays to the completion of the Project due to invalid certifications will not be considered, and liquidated damages shall not be waived for any non-performance by Contractor.

1.6 Delivery, Storage and Handling

.1 Deliver, store and handle materials in accordance with Section 01 61 00 - Product Requirements and with manufacturer's written instructions.

.2 Delivery and Acceptance Requirements:

.1 Deliver products to site in original factory packaging, labelled with manufacturer's name and address, and list of contents of each package.

.2 Inspect products for any damage or deformation. Remove damaged products from site and replace with matching undamaged products.

.3 Check package contents list against submitted parts list to ensure all components necessary for a complete installation have been delivered.

.3 Storage and Handling Requirements:

.1 Store materials off ground, indoors, in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.

.2 Store and protect guardrail components from all damage. Protect finish from nicks, scratches, and blemishes.

.3 Replace defective or damaged materials with new.

Section revised by Addendum No.3

.4 Construction and packaging waste management: in accordance with Section 01 74 19 – Cleaning and Waste Management.

2 PRODUCTS

2.1 Design Criteria

.1 Installed guardrail assembly and anchorage shall conform to ANSI/ASSE A1264.1, structural requirements of NBC 2015 and workplace safety requirements of applicable jurisdiction.

.1 In case of conflicting requirements, the more stringent requirement shall apply.

2.2 Modular Steel Guardrail System

.1 Fittings: elbows, T-shapes, wall flanges, couplings, machined steel castings to ASTM A 27 with locking stainless steel set screws.

.2 Permanent Mounting: pre-fabricated base component complete with anchors to suit installation conditions in accordance with accepted shop drawings.

.3 Non-Penetrating Anchorage for Rooftop or Freestanding Installation: weighted base mounting plate with non-abrasive non-slip resilient pad, with integral receivers to secure and fasten posts.

.4 Exposed Fasteners: flush countersunk screws or bolts; consistent with design of railing.

.5 Splice Connectors: steel concealed spigots, welding collars or threaded collars.

.6 Galvanizing: to ASTM A 153, provide minimum [600] g/m ² galvanized coating.

.1 Touch-Up Primer for Galvanized Surfaces: SPCC 20 Type I Inorganic, Type II Organic, zinc rich.

2.3 Modular Aluminum Guardrail System

.1 Rails: 38 mm diameter, tube or pipe to ASTM B221M or B429.

.2 Posts: [38] mm diameter, tube or pipe to ASTM B221M or B429, vertical profile.

.3 Fittings: elbows, T-shapes, wall brackets, escutcheons; cast aluminum, with

Section revised by Addendum No.3

.4 locking stainless steel set screws.

.5 Splice Connectors: concealed spigot, collar with locking set screws, welding collars; cast aluminum.

.6 Exposed Fasteners: flush countersunk screws or bolts; consistent with design of railing.

.7 Permanent Mounting: pre-fabricated base component complete with anchors to suit installation conditions in accordance with accepted shop drawings.

.8 Non-Penetrating Anchorage for Rooftop or Freestanding Installation: weighted base mounting plate with non-abrasive non-slip resilient pad, with integral receivers to secure and fasten posts.

.9 Finish coatings to AAMA 2603, AAMA 2604, AAMA 2606.1, AAMA 607.1, AAMA 608.1.

.1 Colour: Selected by Owner.

.2 Paints and coatings: VOC limit 100 g/L maximum to GS-11 SCAQMD Rule 1113.

3 EXECUTION

3.1 Examination

.1 Verification of Conditions: verify conditions of substrates previously installed under other Sections or Contracts are acceptable for handrail installation in accordance with manufacturer's written instructions.

.1 Visually inspect substrate in presence of Consultant.

.2 Inform Consultant of unacceptable conditions immediately upon discovery.

.3 Proceed with installation only after unacceptable conditions have been remedied and after receipt of written approval to proceed from Consultant.

3.2 Installation

.1 Assemble and install modular guardrail system in accordance with

manufacturer's instructions, accepted shop drawings and as necessary to provide continuity of protection.

.2 Install components plumb and level, in proper alignment with adjacent assemblies.

.3 At non-penetrating or freestanding guardrail set posts into weighted base plates and secure.

.4 At mechanically anchored guardrails, secure to structure with anchors, plates, angles and fasteners to suit installation condition.

.5 Conceal bolts and screws whenever possible. Where not concealed, use flush countersunk fastenings.

.6 Assemble with fittings, spigots, sleeves and set-screws to produce secure, vibration-resistant installation.

3.3 Cleaning

.1 Progress Cleaning: clean in accordance with Section 01 74 00 - Cleaning.

.1 Leave Work area clean at end of each day.

.2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 00 – Cleaning and Waste Management.

.3 Waste Management: separate waste materials for [dispsal][and][recycling] in accordance with Section 01 74 19 - Waste Management and Disposal.

3.4 Protection

.1 Protect installed products and components from damage during construction.

.2 Repair damage to adjacent materials caused by hand rail installation.

END OF SECTION

Removal of Existing Asphalt Pavement

Section revised by Addendum No.3

1 GENERAL

1.2 Protection

.1 Protect existing pavement not designated for removal, light units and structures from damage. In event of damage, immediately replace or make repairs to approval of Consultant at no additional cost.

1.3 Measurement for Payment

.1 Removal of existing asphalt pavement will be measured in square metres of surface actually removed regardless of depth removed.

.2 Payment under this item will include operations involved in removing, hauling and stockpiling designated pavement and cleaning of remaining pavement surface.

2 PRODUCTS

.1 Not applicable to this section.

3 EXECUTION

3.1 Preparation

.1 Prior to commencing removal operation, inspect and verify with Consultant areas, depths and lines of asphalt pavement to be removed.

3.2 Equipment

.1 Use cold milling, planing or grinding equipment with automatic grade controls capable of operating from a stringline, and capable of removing part of pavement surface to depths or grades indicated.

3.3 Removal

.1 Remove existing asphalt pavement to lines and grades indicated or established by Consultant in field.

.2 The existing asphalt shall be neatly sawcut to provide a clean vertical edge and to prevent breaking of the asphalt.

.3 Use equipment and methods of removal and hauling which do not tear, gouge,

break or otherwise damage or disturb underlying pavement.

.4 Prevent contamination of removed asphalt pavement by topsoil, underlying gravel or other materials.

.5 Provide for suppression of dust generated by removal process.

3.4 Stockpiling of Material

.1 Dispose of removed asphalt pavement by stock-piling in location[s] on site designated by Consultant.

.2 Removed asphalt pavement which is to be recycled in hot mix asphalt concrete under this contract may be stockpiled at designated asphalt plant site.

.3 Construct stockpiles in accordance with Section 31 05 16 – Aggregates: General.

3.5 Sweeping

.1 Sweep remaining surfaces clean of debris resulting from removal operations using rotary power brooms and hand brooming as required.

3.6 Finish Tolerances

.1 Finished surfaces in areas where asphalt pavement has been removed to be within +/- 5 mm of grade specified but not uniformly high or low.

END OF SECTION

Section revised by Addendum No.3

1 GENERAL

1.1 References

.1 ASTM D698-91, Test Method for Laboratory Compaction Characteristics of Soil Using Standard.

.2 Geotechnical Investigation Reports (to be completed).

1.2 Definitions

.1 Excavation: excavation of deposits of whatever character encountered in work including rock, boulders and rock fragments.

.2 Topsoil: material capable of supporting good vegetative growth and suitable for use in top dressing, landscaping and seeding.

.3 Waste material: material unsuitable for use in embankment or surplus to requirements.

.4 Borrow material: material obtained from areas outside right-of-way and required for construction of embankments or for other portions of work.

.5 Unsuitable materials:

.1 Very weak and compressible materials under excavated areas.

.2 Frost susceptible materials under excavated areas.

.3 Frost susceptible materials:

.4 Fine grained soils with plasticity index less than 10 when tested to ASTM D4318, and gradation within limits specified when tested to ASTM D422 and ASTM C136: Sieve sizes to CAN/CGSB-8.1.

Sieve Designation	% Passing
2.00mm	100
0.10mm	45-100
0.02mm	10-80
0.005mm	0-45

Section revised by Addendum No.3

.5 Coarse grained soils containing more than 20% by mass passing 0.075mm sieve.

.6 Embankment: material derived from usable excavation and placed above original ground or stripped surface up to subgrade elevation.

.7 Pavement structure: combination of layers of unbound or stabilized granular sub-base, base and asphalt or concrete surfacing.

.8 Subgrade elevation: elevation immediately below pavement structure.

1.3 Traffic Provisions

.1 Provide and maintain roadways, walkways and detours for vehicular and pedestrian traffic and access to fire hydrants at all times during construction.

2 PRODUCTS

2.1 Materials

.1 Embankment materials require approval by the Consultant.

.2 Material used for embankment shall not contain organic matter, frozen lumps, weeds, sod, roots, logs, stumps or any other unsuitable material.

.3 Use HL3 and HL8 asphalt materials on roadway areas.

.4 Water: Potable water from municipal potable water source.

3 EXECUTION

3.1 Compaction Equipment

.1 Compaction equipment must be capable of obtaining required densities of materials on project.

3.2 Water Distributors

.1 Apply water with equipment capable of providing uniform distribution.

Section revised by Addendum No.3

3.3 Stripping

.1 Commence topsoil stripping of areas as indicated, or as directed by the Consultant after brush has been removed from these areas.

.2 Strip topsoil to depths as indicated or as directed by the Consultant. Do not mix topsoil with subsoil.

.3 Stockpile in locations as indicated, or as directed by the Consultant. Stockpile height not to exceed 3m.

.4 Dispose of unused topsoil off site, as required.

3.4 Excavating

.1 General:

.1 Advise the Consultant at least 5 working days in advance of excavation operations for initial cross sections to be taken.

.2 Unsuitable materials:

.1 Notify the Consultant whenever unsuitable materials are encountered in cut sections and remove unsuitable materials to depth and extent as directed by the Consultant.

.2 Unsuitable materials excavated under 3.4.2.1 are to be disposed of off site or as agreed to by the Consultant.

.3 Borrow:

.1 Use all available suitable materials removed from cut areas before taking material from borrow areas.

.2 Provide additional suitable embankment material from off site as required.

.4 Blasting:

.1 No blasting of rock is permitted.

.5 Side Ditches:

Section revised by Addendum No.3

.1 Construct side ditches to depths and widths as indicated or as directed by the Consultant to permit steady flow of surface water.

.2 Maintain and keep ditches open and free from debris until final acceptance of work.

3.5 Embankments

.1 Where indicated, or as directed by the Consultant, scarify or bench existing slopes in side hill or sloping sections to ensure proper bond between new materials and existing surfaces. Obtain prior approval from the Engineer of method to be used.

.2 Break up or scarify existing pavement to subgrade elevation as indicated.

.3 Do not place material which is frozen nor place material on frozen surfaces.

.4 Maintain crowned surface during construction to ensure ready runoff of surface water. Do not place material in free standing water.

.5 With material containing less than 25% by volume of stone or rock fragments larger than 100mm:

.1 Place and compact to full width in uniform layers not exceeding 200mm loose thickness. The Engineer may authorize thicker lifts if specified compaction can be achieved.

.2 Compact to density of not less than 100% Standard Proctor Maximum Dry Density (SPMDD) in accordance with ASTM D698.

.3 Bring moisture content of soil to level required to achieve specified compaction. Add water or aerate as required.

.6 Place topsoil taken from stockpile or other sources, at locations and to depths as directed by the Engineer. Remove surface stones, roots and other debris and leave surface in uniform condition.

3.6 Subgrade Compaction

.1 After grading has been completed, scarify and mix subgrade surface to required depth of subgrade compaction.

.2 Remove unsuitable materials found during work. Replace with material approved by the Engineer.

Section revised by Addendum No.3

.3 Compact top 150mm of subgrade soil to at least 100% SPMDD in accordance with ASTM D698.

.4 Bring moisture content of soil to level required to achieve specified compaction. Add water or aerate as required.

3.7 Finishing And Tolerances

.1 Shape and compact entire roadbed to within 5mm of design elevations but not uniformly high or low.

.2 Do scarifying, blading, compacting or other methods of work as necessary to provide thoroughly compacted roadbed shaped to grades and cross sections as indicated or as directed by the Engineer.

.3 Finish back and side slopes of common material to neat condition, suitable for seeding, true to line and grade.

.1 Remove isolated boulders exposed in cut slopes and fill resulting cavities.

.2 Hand finish slopes that cannot be finished satisfactorily by machine.

.4 Finish back and side slopes of rock material to neat and safe condition, true to line and grade.

3.8 Protection

.1 Maintain finished surfaces in condition conforming to this section until acceptance by the Consultant

END OF SECTION

Section revised by Addendum No.3

1 GENERAL

1.1 REFERENCES

.1 American Society for Testing and Materials (ASTM).

.1 ASTM C 88- [90], Test Method for Soundness of Aggregates by Use of Sodium Sulphate or Magnesium Sulphate.

.2 ASTM C 117- [95], Test Method for Material Finer Than 0.075 mm Sieve in Mineral Aggregates by Washing.

.3 ASTM C 123- [94], Test Method for Lightweight Pieces in Aggregate.

.4 ASTM C 127- [88(1993)], Test Method for Specific Gravity and Absorption of Coarse Aggregate.

.5 ASTM C 128- [93], Test Method for Specific Gravity and Absorption of Fine Aggregate.

.6 ASTM C 131- [89], Test Method for Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine.

.7 ASTM C 136- [95a], Method for Sieve Analysis of Fine and Coarse Aggregates.

.8 ASTM D 698- [91], Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft) (600 kN-m/m).

.9 ASTM D 995- [95b], Specification for Mixing Plants for Hot-Mixed, Hot-Laid Bituminous Paving Mixtures.

.10 ASTM D 1559- [89], Test Method for Resistance to Plastic Flow of Bituminous Mixtures Using Marshall Apparatus.

.11 ASTM D 2419- [95], Test Method for Sand Equivalent Value of Soils and Fine Aggregate.

.12 ASTM D 3203- [94], Test Method for Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures.

.13 ASTM D 4318- [95], Test Method for Liquid Limit, Plastic Limit and Plasticity Index of Soils.

.14 ASTM D 4791- [95], Test Method for Flat or Elongated Particles in Coarse Aggregate.

Section revised by Addendum No.3

.15 Geotechnical Investigations (to be completed).

.2 Asphalt Institute (AI).

.1 Asphalt Institute MS-2- [1993] [Sixth Edition], Mix Design Method for Asphalt Concrete.

.3 Canadian General Standards Board (CGSB).

.1 CAN/CGSB-8.1- [88], Sieves Testing, Woven Wire, Inch Series.

.2 CAN/CGSB-8.2- [M88], Sieves Testing, Woven Wire, Metric.

.3 CAN/CGSB-16.1- [M89], Cutback Asphalts for Road Purposes.

.4 CAN/CGSB-16.2- [M89], Emulsified Asphalts, Anionic Type, for Road Purposes.

.5 CAN/CGSB-16.3- [M90], Asphalt Cements for Road Purposes.

.4 Ontario Provincial Standard Specification (OPSS)

.1 OPSS 310, Construction Specification for Hot Mix Asphalt

.2 OPSS 1150, Material Specification for Hot Mix Asphalt

1.2 Quality Assurance

.1 All work under this Section shall be done by a bonafide road building contractor engaged in paving work for at least five years and having the equipment necessary to carry out the work as specified.

.2 Comply with requirements of Ontario Provincial Standard Specifications (OPSS) 310 and 1150.

1.3 Quality Control

.1 Comply with requirements of Section 01 45 00.

.2 Testing agency may do any or all of the following as directed by the Consultant.

.1 Carry out grain size analysis.

.2 Determine minimum and maximum moisture content of densities of granular fill.

.3 Determine in-situ density, thickness and moisture content of compacted fills.

.4 Check properties of asphalt mixes, including aggregate gradation of asphalt content.

.5 Check suitability of equipment used.

1.4 Product Data

.1 Submit product data in accordance with Section 01 33 00 - Submittal Procedures.

.2 Submit asphalt concrete mix design to Consultant for review.

.3 Materials to be tested by testing laboratory approved by Consultant.

.4 Submit test certificates showing suitability of materials at least 4 weeks prior to commencing work.

1.5 Submittals

.1 Prior to delivery of materials to site submit gradation tables and, upon Consultant's request, representative samples of base course materials to be used.

1.6 Job Conditions

.1 Environmental Conditions

.1 Lay granular base courses and asphalt paving courses when weather is dry and only on dry granular base.

.2 Place granular base course only when ambient temperature is above 0˚C. Do not place granular materials while either material being placed or subgrade is frozen.

.3 Place asphalt binder course only when the air temperature at the road surface is a minimum of 2˚C and rising.

Place asphalt surface course only when the air temperature at the road surface is at least 7˚C, except for SMA and Superpave 12.5 FC2 where the air temperature at the road surface is at least 12˚C.

.2 Protection

.1 Make special provisions to minimize deterioration of subgrade, particularly when operating during unfavourable weather conditions or when working in wet granular. Use special designated traffic lanes, build temporary roads, reduce traffic to half-loads or take other suitable measures.

.2 Do not permit vehicular traffic on finished asphalt pavement until it has cooled and hardened and in no case, sooner than six hours after completion.

Provide barricades and warning devices to protect pavement.

1.7 Warranty

.1 At no cost to Owner, remedy any defects in work, including work of this and other Sections, due to faults in materials or workmanship provided under this Section of Specifications appearing within a period of two years from date of Substantial Performance.

2 PRODUCTS

2.1 Materials

.1 Base Materials:

.1 Clean, hard, durable aggregate free of shale, clay, organic matter and other deleterious substances.

.2 Granular Base: Granular `A´ OPSS.MUNI 1010

.3 Granular Sub-Base: Granular `B´, OPSS.MUNI 1010

.2 Asphalt:

.1 Hot mixed, hot laid asphalt meeting requirements of OPSS 1150, designation HL8, HL3 or HL4.

.2 Tack coat: OPSS 1103, Grade SS-1.

Section revised by Addendum No.3

.3 Paint for pavement markings: CGSB 1-GP-74M, White or Yellow as directed by the Consultant.

3 EXECUTION

3.1 Lines And Levels

.1 Establish and maintain line and grade stakes for duration of work.

.2 Conform to contours and grades shown. Uniformly slope grade between elevations shown.

.3 Slope paving away from building minimum 1%. Slope paving minimum 1% for drainage in all locations unless specifically indicated otherwise on Drawings.

3.2 Preparation Of Subgrade

.1 Examine rough graded subgrade over which asphalt pavement structure is to be installed to ensure it is suitable for installation. Start of work shall imply acceptance of conditions.

.2 Fine grade subgrade as required to bring it to required levels and slopes. Meet compaction densities and fill material requirements specified in Section 31 11 24 and 31 11 23. Slope fine graded subgrade to permit drainage to catch basins.

.3 Proof roll subgrade using static compaction method; avoid excessive compaction. Sub-excavate soft spots that develop during compaction and bring to proper grade by the addition of suitable fill material and then thoroughly compact until satisfactory, adding additional fill material as required.

.4 Subgrade shall be naturally curved, sloped and graded to be self-draining.

3.3 Base Courses

.1 Spread, shape and compact granular sub-base and or base material placed on the same day.

.2 Compact base courses by rolling with power rollers capable of reversing without backlash. Use hand tamping or mechanical hand compaction equipment in areas inaccessible to rollers.

.3 Install base and sub-base courses in layers not exceeding 150 mm in thickness. Compact the Granular `B´ sub-base layer to 100% Standard Proctor Maximum Dry Density (SPMDD) in accordance with ASTM D1557 and the Granular `A´ base layer to a minimum of 98% SPMDD in accordance with ASTM D1557 unless otherwise indicated.

Section revised by Addendum No.3

.4 Add water as required to obtain optimum density. Use calcium chloride to control dust.

3.4 Asphalt Paving Courses

.1 Place hot asphalt mixture over prepared dry base. Asphalt mixture shall be minimum 120° C when applied.

.2 Roll each asphalt paving course to be smooth and uniform. Trim and tamp edges of pavement to a clean and straight line. There shall be no visible aggregate.

.3 Compact each asphalt paving course in accordance with OPSS 310 requirements to a minimum of 92% Maximum Theoretical Relative Density (MTRD).

.4 Thoroughly and uniformly compress the asphalt mixture by rolling soon after being spread, so that it will bear the roller without checking or undue displacement. Delays in rolling freshly spread mixture will not be permitted.

.5 Consolidate with a power-driven roller of sufficient weight until all roller marks are eliminated, and no further compression is possible.

.6 Along all places which are not accessible to the roller, thoroughly compact by means of hot tampers.

.7 Curves: all curves shall conform to radii and lines indicated on the drawings. When necessary, construct forms, sufficiently braced to withstand the stress of placing and compacting the asphalt.

.8 Leave edges of asphalt pavement exposed where indicated. Where edges are straight, lay pavement up to a wooden batter board. On completion of rolling, remove batter board and tamp edges. Where edges are curved, trim asphalt after rolling with a cutting tool and tamp edge.

.9 Each asphalt paving course after final compaction shall be smooth and true to established crown and grade, and shall comply with the following dimensional tolerances:

.1 Thickness: plus 5 mm, minus 0.

.2 Surface variation: max. 5 mm in 3000 mm.

3.5 Joints

.1 Construct joints to have same texture, density and smoothness as adjacent paving. Cut back edges of previously placed course to expose an even, vertical

Section revised by Addendum No.3

surface for full course thickness. Clean contact surfaces and apply asphalt tack coat.

.2 Offset transverse joints in succeeding courses not less than 600 mm. Offset longitudinal joints in succeeding courses not less than 150 mm.

.3 Paint surfaces of curbs, manholes, gutters and other elements in contact with asphalt concrete paving with asphalt tack coat.

.4 Jointing between the concrete pavement and hot mix pavement shall conform to OPSD 555.010.

3.6 Repairs

.1 Where repairs are required, including repairs under warranty, cut asphalt to its full depth. Making straight and neat cuts.

.2 Compact base in approved manner, adding Granular `A´ material as required.

.3 Coat all exposed cut edges of existing asphalt pavement with tack coat. Place hot asphalt mixture and consolidate as specified to thickness required.

3.7 Pavement Markings

.1 Paint parking zone lines and other pavement markings indicated.

.2 Unless otherwise indicated paint lines 125 mm wide.

.3 Paint lines straight, or uniformly curved, with well defined edges and full paint coverage in all locations.

3.8 Schedule

.1 Dimensions indicated are compacted thicknesses. Please refer to the Geotechnical Investigation recommendations.

.2 Provide light duty paving where indicated, as follows, unless otherwise shown on the drawings or directed by the Consultant:

.1 40 mm HL3 asphalt surface course

.2 50 mm HL8 asphalt binder course

.3 150 mm top base course of Granular `A´

.4 350 mm bottom base course of Granular `B´.

Section revised by Addendum No.3

.3 Provide heavy duty paving where indicated, as follows, unless otherwise shown on the drawings or directed by the Consultant:

.1 40 mm HL3 asphalt surface course

.2 60 mm HL8 asphalt binder course

.3 150 mm top base course of Granular `A´

.4 450 mm bottom base course of Granular `B´

END OF SECTION

Section revised by Addendum No.3

1 GENERAL

1.1 References

.1 Canadian Standards Association (CSA).

.1 CSA A23.1-14. Concrete Materials and Methods of Concrete Construction.

.2 Canadian General Standards Board (CGSB).

.1 CAN/CGSB-1.2-[M89], Boiled Linseed Oil.

.2 CAN/CGSB-3.3-[M89], Kerosene.

.3 Ontario Provincial Standard Specification (OPSS).

.1 OPSS.MUNI 1350

1.3 Quality Assurance

.1 Do concrete work in accordance with requirements of Division 3 except where otherwise specified herein.

2 PRODUCTS

2.1 Materials

.1 Concrete materials: CSA A23.1-14.

.2 Reinforcing steel:

.1 Bars: CAN/CSA-G30.18-M92, Grade 400, epoxy coated, or hot dip galvanized.

.2 Mesh: CSA G30.5-M1983 (R1991).

.3 Formwork: steel or wood, capable of producing smooth and flat surfaces.

.4 Concrete curing compound: ASTM C309, suitable for exterior use.

.5 Expansion joint: asphalt impregnated fibre board, 12 mm thick, unless indicated otherwise; ASTM D1751.

.6 Granular base: clean crushed stone or rock: Granular `A´, OPSS.MUNI 1010.

.7 Exposed aggregate paving materials:

.1 Aggregate shall be local pea gravel containing a size mix of 5 to 10mm diameter stone instead of crushed stone.

.2 Retarder: Preco EAC-S top surface retarder by Fosroc Inc. Construction Division, 150 Carley Court, Georgetown, KY 40324, tel: 502-863-6800, or approved equal.

.8 Sealer: Sealtight CS-309 by W.R. Meadows.

.9 Truncated Dome Detectable Warning Paltes as per City of Guelph Standard Drawing 1-4, latest revision.

2.2 Concrete Mix

.10 Unless otherwise indicated provide ready mix concrete designed by concrete producer, meeting the following requirements:

.1 Coarse aggregate: Standard maximum size 19 mm.

.2 Water-cement ratio: max. 0.45 by weight.

.3 Compressive strength: 32 MPa at 28 days.

.4 Air content: 6.5% +/- 1.5%.

.5 Slump at point of discharge: 80 +/- 30 mm.

2.3 Source Quality Control

.1 Inform Consultant of proposed source of material and provide access for sampling, if required, at least 4 weeks prior to commencing production.

.2 If, in opinion of Consultant, materials from proposed source do not meet, or cannot reasonably be processed to meet, specified requirements, locate an alternative source or demonstrate that material from source in question can be processed to meet specified requirements.

.3 Advise Consultant 10 working days in advance of proposed change of material source.

.4 Acceptance of material at source does not preclude future rejection if it fails to conform to requirements specified or if its field performance is found to be unsatisfactory.

Section revised by Addendum No.3

3 EXECUTION

3.1 Grade Preparation

.1 Do grade preparation work in accordance with Section 31 23 33 01 - Excavation, Trenching and Backfilling, 32 11 23 – Granular Base and 32 11 24 – Subbase.

.2 Construct embankments using excavated material free from organic matter or other objectionable materials. Dispose of surplus and unsuitable excavated material off site.

.3 Place fill in maximum 150 mm layers and compact to at least 98 percent of Standard Proctor Maximum Dry Density in accordance with ASTM D1557.

3.2 Granular Base

.1 Obtain Consultant's approval of subgrade before placing granular base.

.2 Place granular base material to lines, widths, and depths as indicated.

.3 Compact granular base to a minimum of 98 percent of the Standard Proctor Maximum Dry Density in accordance with ASTM D1557.

3.3 Concrete

.1 Obtain Consultant's approval of granular base and reinforcing steel prior to placing concrete.

.2 Do concrete work in accordance with this Section and Section 03 33 00 - Cast-in-Place Concrete.

.3 Immediately after floating, give sidewalk surface uniform broom finish to produce regular corrugations not exceeding 2 mm deep, by drawing broom in direction normal to centre line.

.4 Provide edging as indicated with 10 mm radius edging tool.

.5 Slip-form pavers equipped with string line system for line and grade control may be used if quality of work acceptable to Consultant can be demonstrated. Hand finish surfaces when directed by Consultant.

Section revised by Addendum No.3

3.4 Tolerances

.1 Finish surfaces to within 3 mm in 3 m as measured with 3 m straightedge placed on surface.

3.5 Expansion and Contraction Joints

.1 Install tooled transverse contraction joints after floating, when concrete is stiff, but still plastic, at intervals of 1.5 m.

.2 Install expansion joints as directed by Consultant.

.3 Install expansion joints around manholes and catch basins and along length adjacent to concrete curbs, catch basins, buildings, or permanent structure.

.4 When sidewalk is adjacent to curb, make joints of curb, gutters and sidewalk coincide.

.5 Install joint filler in expansion joints in accordance with Section 03 33 00 - Cast-in-Place Concrete.

.6 Seal expansion joints with sealant approved by Consultant.

3.6 Curing

.1 Cure concrete by adding moisture continuously in accordance with CAN/CSA-A23.1 to exposed finished surfaces for at least 1 day after placing, or sealing moisture in by curing compound approved by Consultant.

.2 Where burlap is used for moist curing, place two pre-wetted layers on concrete surface and keep continuously wet during curing period.

.3 Apply curing compound evenly to form continuous film. In accordance with manufacturer's requirements.

3.7 Backfill

.1 Allow concrete to cure for 7 days prior to backfilling.

.2 Backfill to designated elevations with material approved by Consultant. Compact and shape to required contours as indicated or as directed by Consultant.

Section revised by Addendum No.3

3.8 Linseed Oil Treatment

.1 After concrete has cured for specified curing time and when surface of concrete is clean and dry, apply two coats of linseed oil mixture uniformly to surfaces of curbs, walks and gutters.

.2 Linseed oil mixture to consist of 50% boiled linseed oil and 50% mineral spirits by volume.

.3 Apply treatment when air temperature above 10C.

.4 Apply first coat at 135 mL/m.

.5 Apply second coat at 90 mL/m when first coat has dried.

END OF SECTION

Painted Pavement Markings

Section revised by Addendum No.3

1 GENERAL

1.1 RELATED SECTIONS

.1 Section 32 12 16 – Asphalt Paving

1.2 REFERENCES

.1 CAN/CGSB-1.5-[M91], Low Flash Petroleum Spirits Thinner.

.2 CGSB 1-GP-12c-[68], Standard Paint Colours.

.3 CGSB 1-GP-71-[83], Method, of Testing Paints and Pigments.

.4 CGSB 1-GP-74M-[79], Paint, Traffic, Alkyd.

1.3 SAMPLES

.1 Submit samples in accordance with Section 01 33 00 - Submittal Procedures.

.2 Submit to Consultant the following material sample quantities at least 4 weeks prior to commencing work.

.1 Two 1 L samples of each type of paint.

.2 One 1 kg sample of glass beads.

.3 Sampling to CGSB 1-GP-71.

.3 Mark samples with name of project and its location, paint manufacturer's name and address, name of paint, CGSB specification number and formulation number and batch number.

2 PRODUCTS

2.1 MATERIALS

.1 Paint:

.1 To CGSB 1-GP-74M, alkyd traffic paint.

.2 Colour: to CGSB 1-GP-12C, yellow 505-308, black 512-301, white 513-301.

.3 Upon request, Consultant will supply a qualified product list of paints applicable to work. Qualified paints may be used but Consultant reserves right to perform further tests.

.2 Thinner: to CAN/CGSB-1.5.

.3 Glass beads:

.1 Overlay type: to CGSB 1-GP-74M.

3 EXECUTION

3.1 EQUIPMENT REQUIREMENTS

.1 Paint applicator to be an approved pressure type distributor capable of applying paint in single, double and dashed lines. Applicator to be capable of applying marking components uniformly, at rates specified, and to dimensions as indicated, and to have positive shut-off.

.2 Distributor to be capable of applying reflective glass beads as an overlay on freshly applied paint.

3.2 CONDITION OF SURFACES

.1 Pavement surface to be dry, free from ponded water, frost, ice, dust, oil, grease and other foreign materials.

3.3 APPLICATION

.1 Lay out pavement markings.

.2 Unless otherwise approved by Consultant, apply paint only when air temperature is above 10^{o}C, wind speed is less than 60 km/h and no rain is forecast within next 4h.

.3 Apply traffic paint evenly at rate of 3m/L.

.4 Do not thin paint unless approved by Consultant.

.5 Symbols and letters to conform to dimensions indicated.

.6 Paint lines to be of uniform colour and density with sharp edges.

.7 Thoroughly clean distributor tank before refilling with paint of different colour.

.8 Apply glass beads at rate of 200g/m of painted area immediately after application of paint.

Section revised by Addendum No.3

3.5 TOLERANCE

.1 Paint markings to be within plus or minus 12mm of dimensions indicated.

.2 Remove incorrect markings and re-paint at no extra cost to the contract.

3.6 PROTECTION OF COMPLETED WORK

.1 Protect pavement markings until dry.

END OF SECTION

Section revised by Addendum No.3

1 GENERAL

1.1 References

.1 ASTM C 14M-95, Standard Specification for Concrete Sewer, Storm Drain and Culvert Pipe.

.2 ASTM C 76M-98, Standard Specification for Reinforced Concrete Culvert, Storm Drain and Sewer Pipe (Metric).

.3 ASTM C 117-95, Standard Test Method for Material Finer Than 75 MU m (No. 200) Sieve in Mineral Aggregates by Washing.

.4 ASTM C 136-96a, Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates.

.5 ASTM C 428-97, Standard Specification for Asbestos-Cement Nonpressure Sewer Pipe.

.6 ASTM C 443M-98, Standard Specification for Joints for Circular Concrete Sewer and Culvert Pipe, Using Rubber Gaskets (Metric).

.7 ASTM C 663-98, Standard Specification for Asbestos Cement Storm Drain Pipe.

.8 ASTM D 698-91(1998), Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort (600 kN-m/m).

.9 ASTM D 1869-95, Standard Specification for Rubber Rings for Asbestos Cement Pipe.

.10 ASTM D 2680-95a, Standard Specification for Acrylonitrile-Butadiene-Styrene (ABS) and Poly (Vinyl Chloride) (PVC) Composite Sewer Piping.

.11 ASTM D 3034-98, Standard Specification for Type PSM Poly (Vinyl Chloride) (PVC) Sewer Pipe and fittings.

.12 ASTM D 3350-98a, Standard Specification for Polyethylene Plastics Pipe and Fittings Materials.

.13 CAN/CGSB-8.1-88, Sieves Testing, Woven Wire.

.14 CAN/CGSB-8.2-M88, Sieves Testing, Woven Wire, Metric.

.15 CAN/CGSB-34.9-M94, Pipe, Asbestos Cement, Sewer.

.16 CAN/CSA-A5/A8/A362-93, Portland Cement/Masonry Cement/Blended Hydraulic Cement.

.17 CSA A60.1-M1976, Vitrified Clay Pipe.

.18 CSA A60.3-M1976, Vitrified Clay Pipe Joints.

.19 CAN/CSA-A257 Series-M92, Standards for Concrete Pipe.

.20 CAN/CSA-B70-97, Cast Iron Soil Pipe, Fittings, and Means of Joining.

.21 CAN/CSA-B182.1-96, Plastic Drain and Sewer Pipe and Pipe Fittings.

.22 CAN/CSA-B182.2-95, PVC Sewer Pipe and Fittings (PSM Type).

.23 CSA B182.6-M98, Profile Polyethylene Sewer Pipe and Fittings.

.24 CSA B182.11-95, Recommended Practice for the Installation of Plastic Drain and Sewer Pipe and Pipe Fittings.

1.2 Material Certification

.1 Submit manufacturer's test data and certification at least 10 working days prior to commencing work.

.2 Ensure certification is marked on pipe.

1.3 Shop Drawings

.1 Submit shop drawings in accordance with project Submittal Procedures.

1.4 Samples

.1 Submit samples in accordance with project Submittal Procedures.

.2 Inform independent testing agency at least 10 working days prior to commencing Work, of proposed source of bedding materials and provide access for sampling.

.3 Submit to independent testing agency for testing at least 10 working days prior to commencing work, following samples of materials proposed for use: Bedding materials, pipe surround, pipe, manholes.

1.5 Scheduling Of Work

.1 Schedule Work to minimize interruptions to existing services and maintain existing sewage flows during construction.

.2 Submit schedule of expected interruptions for approval and adhere to approved schedule.

.3 Notify Consultant and building manager 2 working days minimum in advance of any interruption in service.

1.6 Manufacturers Instructions

.1 Submit manufacturers information data sheets and instructions in accordance with Section 01 33 00- Submittal Procedures.

2 PRODUCTS

2.1 Concrete Pipe

.1 Reinforced circular concrete pipe and fittings: to CAN/CSA-A257 and ASTM C 76M designed for flexible rubber gasket joints to CAN/CSA-A257 and ASTM C 443M.

.1 Acceptable suppliers: Hanson, Concast, Coldstream, Munro, Hyprescon, M-Con, Rainbow.

.2 .2 Lifting holes:

.1 Pipe 900 mm and less diameter - no lift holes.

.2 Pipe greater than 900 mm diameter - lift holes not to exceed two in a piece of pipe.

.3 Provide pre-fabricated plugs to effectively seal lift holes after installation of pipe.

2.2 Plastic Pipe

.1 Type PSM Polyvinyl Chloride (PVC): to ASTM D 3034 CAN/CSA-B182.2.

.1 Standard Dimensional Ratio (SDR): 35

.2 Locked-in gasket and integral bell system.

.3 Acceptable suppliers: IPEX, Rehau, Royal

2.3 Service Connections

.1 Type PSM Poly (Vinyl) Chloride: to CAN/CSA-B182.2.

.1 Standard dimensional ration (SDR): 28

.2 Acceptable material: IPEX, Rehau, Royal

2.4 **Cement Mortar**

.1 Portland cement: to CAN/CSA-A5/A8/A362, normal type 10.

.2 Mix mortar one part by volume of cement to two parts of clean, sharp sand mixed dry. Add only sufficient water after mixing to give optimum consistency for placement. Do not use additives.

2.5 Pipe Bedding and Surround Materials

.1 Refer to Section 31 05 16 – Aggregates: General.

2.6 Backfill Material

.1 In accordance with Section 31 23 16 - Excavation, Trenching and Backfilling.

3 EXECUTION

3.1 Preparation

.1 Clean and dry pipes and fittings before installation.

.2 Obtain Consultant's approval of pipes and fittings prior to installation.

3.2 Trenching

.1 Do trenching work in accordance with Section 31 23 16 - Excavation, Trenching and Backfilling.

.2 Do not allow contents of any sewer or sewer connection to flow into trench.

.3 Trench alignment and depth require approval of Consultant prior to placing bedding and pipe.

3.3 Concrete Bedding and Encasement

.1 Do concrete work in accordance with Section 03 30 00 – Cast-In-Place Concrete.

.2 Position pipe on concrete blocks to facilitate placing of concrete. When necessary, rigidly anchor or weight pipe to prevent flotation when concrete is placed.

.3 Do not backfill over concrete within 24 hours after placing.

Section revised by Addendum No.3

3.4 Granular Bedding

.1 Place bedding in unfrozen condition.

.2 Place granular bedding materials in uniform layers not exceeding 150 mm compacted thickness to depth.

.3 Shape bed true to grade and to provide continuous, uniform bearing surface for pipe. Do not use blocks when bedding pipe.

.4 Shape transverse depressions as required to suit joints.

.5 Compact each layer full width of bed to at least 98% Standard Proctor Maximum Dry Density (SPMDD) in accordance with ASTM D1557.

.6 Fill excavation below bottom of specified bedding adjacent to manholes or structures with compacted bedding material.

3.5 Installation

.1 Lay and join pipes in accordance with manufacturer's recommendations and to approval of Consultant.

.2 Lay pipes on prepared bed, true to line and grade, with pipe invert smooth and free of sags or high points. Ensure barrel of each pipe is in contact with shaped bed throughout its full length.

.3 Commence laying at outlet and proceed in upstream direction with socket ends of pipe facing upgrade.

.4 Do not exceed maximum joint deflection recommended by pipe manufacturer.

.5 Do not allow water to flow through pipe during construction.

.6 Whenever work is suspended, install removable watertight bulkhead at open end of last pipe laid to prevent entry of foreign materials.

.7 Install plastic pipe and fittings in accordance with CSA B182.11.

.8 Pipe jointing:

.1 Install gaskets in accordance with manufacturer's recommendations.

.2 Support pipes with hand slings or crane as required to minimize lateral pressure on gasket and maintain concentricity until gasket is properly positioned.

.3 Align pipes before joining.

.4 Maintain pipe joints free from mud, silt, gravel and other foreign material.

.5 Avoid displacing gasket or contaminating with dirt or other foreign material. Gaskets so disturbed shall be removed, cleaned and lubricated and replaced before joining is attempted.

.6 Complete each joint before laying next length of pipe.

.7 Minimize joint deflection after joint has been made to avoid joint damage.

.8 At rigid structures, install pipe joints not more than 1.2 m from side of structure.

.9 Apply sufficient pressure in making joints to ensure that joint is complete as outlined in manufacturer's recommendations.

.9 When any stoppage of work occurs, block pipes to prevent creep during down time.

.10 Plug lifting holes with pre-fabricated plugs, set in shrinkage compensating grout.

.11 Cut pipes as required for special inserts, fittings or closure pieces as recommended by pipe manufacturer, without damaging pipe or its coating and to leave smooth end at right angles to axis of pipe.

.12 Make watertight connections to manholes. Use shrinkage compensating grout when suitable gaskets are not available.

.13 Use prefabricated saddles or field connections, for connecting pipes to existing sewer pipes. Joints to be structurally sound and watertight.

3.6 Pipe Surround

.1 Place surround material in unfrozen condition.

.2 Upon completion of pipe laying, surround and cover pipes as indicated.

.3 Hand place surround material in uniform layers not exceeding 150 mm compacted thickness as indicated.

.4 Place layers uniformly and simultaneously on each side of pipe.

.5 Compact each layer from pipe invert to underside of backfill to at least 98 % SPMDD in accordance with ASTM D1557.

3.7 Backfill

.1 Place backfill material in unfrozen condition.

.2 Place backfill material, above pipe surround in uniform layers not exceeding 150

Section revised by Addendum No.3

mm compacted thickness up to design grades.

.3 Compact backfill to not less than 98 % SPMDD to ASTM D1557.

.4 Place unshrinkable fill in accordance with Section 31 23 16 - Excavation, Trenching and Backfilling.

3.8 Service Connections

.1 Install pipe to CSA B182.11 and manufacturer's instructions and specifications.

.2 Service connections to main sewer.

.3 Service connection pipe: shall not extend into interior of main sewer.

.4 Make up required horizontal and vertical bends from 45bends or less, separated by straight section of pipe with minimum length of four pipe diameters. Use long sweep bends where applicable.

.5 Plug service laterals with watertight caps or plugs.

.6 Place location marker at ends of plugged or capped unconnected sewer lines. Each marker shall consist of 38 x 89 mm stake extending from pipe end at pipe level to 0.6 m above grade. Paint exposed portion of stake red with designation SAN SWR LINE in black.

3.9 Field Testing

.1 Repair or replace pipe, pipe joint or bedding found defective.

.2 Draw tapered wooden plug or mandrel with diameter of 50 mm less than nominal pipe diameter through sewer to ensure that pipe is free of obstruction.

.3 Remove foreign material from sewers and related appurtenances by flushing with water.

.4 Perform infiltration and exfiltration testing as soon as practicable after jointing and bedding are complete, and service connections have been installed.

.5 Do infiltration and exfiltration testing as specified herein.

.6 Carry out tests on each section of sewer between successive manholes including service connections.

.7 Install watertight bulkheads in suitable manner to isolate test section from rest of pipeline.

.8 Exfiltration test:

.1 Fill test section with water in such a manner as to allow displacement of air in line. Maintain under nominal head for 24 hours to ensure absorption in pipe wall is complete before test measurements are commenced.

.2 Immediately prior to test period add water to pipeline until there is a head of 1 m over interior crown of pipe measured at highest point of test section or water in manhole is 1 m above static ground water level, whichever is greater.

.3 Duration of exfiltration test: 2 hours.

.4 Water loss at end of test period: shall not exceed maximum allowable exfiltration over any section of pipe between manholes.

.9 Infiltration test:

.1 Conduct infiltration test in lieu of exfiltration test where static ground water level is 750 mm or more above top of pipe measured at highest point in line to be used.

.2 Do not interpolate a head greater than 750 mm to obtain an increase in allowable infiltration rate.

.3 Install watertight plug at upstream end of pipeline test section.

.4 Discontinue pumping operations for at least 3 days before test measurements are to commence and during this time, keep thoroughly wet at least one third of pipe invert perimeter.

.5 Prevent damage to pipe and bedding material due to flotation and erosion.

.6 Place 90V-notch weir, or other measuring device in invert of sewer at each manhole.

.7 Measure rate of flow over minimum of 1 hour, with recorded flows for each 5 min interval.

.10 Leakage: shall not exceed following limits in litres per hour per mm of diameter per 100 m of sewer including service connections:

.1 Exfiltration, based on 600 mm head: 0.175 L.

.2 Infiltration: 0.150 L.

.11 Repair and retest sewer line as required, until test results are within limits specified.

.12 Repair visible leaks regardless of test results.

Section revised by Addendum No.3

.13 CCTV Camera Inspections:

.1 Carry out inspection of installed sewers by CCTV per OPSS 409. The video camera shall be a pan and tilt unit, making the inspection of lateral connections and a better view of deficiencies possible.

.2 Acceptance of the work for the commencement of the maintenance guarantee period will take place only after the Consultant has accepted and approved the inspection report.

END OF SECTION

Section revised by Addendum No.3

1 GENERAL

1.1 RELATED SECTIONS

.1 Section 31 23 33 01 – Excavation Trenching and Backfilling.

.2 Section 31 05 16 – Aggregates: General.

.3 Section 03 30 00 – Cast-in-Place Concrete.

1.2 REFERENCES

.1 ASTM C 14M-[95], Standard Specification for Concrete Sewer, Storm Drain and Culvert Pipe.

.2 ASTM C 76M-[98], Standard Specification for Reinforced Concrete Culvert, Storm Drain and Sewer Pipe (Metric).

.3 ASTM C 117-[95], Standard Test Method for Material Finer Than 75 [MU] m (No. 200) Sieve in Mineral Aggregates by Washing.

.4 ASTM C 136-[96a], Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates.

.5 ASTM C 428-[97], Standard Specification for Asbestos-Cement Nonpressure Sewer Pipe.

.6 ASTM C 443M-[98], Standard Specification for Joints for Circular Concrete Sewer and Culvert Pipe, Using Rubber Gaskets (Metric).

.7 ASTM C 663-[98], Standard Specification for Asbestos Cement Storm Drain Pipe.

.8 ASTM D 698-[91(1998)], Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort (600 kN-m/m).

.9 ASTM D 1869-[95], Standard Specification for Rubber Rings for Asbestos Cement Pipe.

.10 ASTM D 2680-[95a], Standard Specification for Acrylonitrile-Butadiene-Styrene (ABS) and Poly (Vinyl Chloride) (PVC) Composite Sewer Piping.

.11 ASTM D 3034-[98], Standard Specification for Type PSM Poly (Vinyl Chloride)

(PVC) Sewer Pipe and fittings.

.12 ASTM D 3350-[98a], Standard Specification for Polyethylene Plastics Pipe and Fittings Materials.

.13 CAN/CGSB-8.1-[88], Sieves Testing, Woven Wire.

.14 CAN/CGSB-8.2-[M88], Sieves Testing, Woven Wire, Metric.

.15 CAN/CGSB-34.9-[M94], Pipe, Asbestos Cement, Sewer.

.16 CAN/CSA-A5/A8/A362-[93], Portland Cement/Masonry Cement/Blended Hydraulic Cement.

.17 CSA A60.1-[M1976], Vitrified Clay Pipe.

.18 CSA A60.3-[M1976], Vitrified Clay Pipe Joints.

.19 CAN/CSA-A257 Series-[M92], Standards for Concrete Pipe.

.20 CAN/CSA-B70-[97], Cast Iron Soil Pipe, Fittings, and Means of Joining.

.21 CAN/CSA-B182.1-[96], Plastic Drain and Sewer Pipe and Pipe Fittings.

.22 CAN/CSA-B182.2-[95], PVC Sewer Pipe and Fittings (PSM Type).

.23 CSA B182.6-[M98], Profile Polyethylene Sewer Pipe and Fittings.

.24 CSA B182.11-[95], Recommended Practice for the Installation of Plastic Drain and Sewer Pipe and Pipe Fittings.

.25 Design Guidelines and Supplemental Specifications for Municipal Services (DGSSMS), Region of Waterloo and Area Municipalities (Most Recent Edition) unless otherwise specified

.26 City of Waterloo, Development Engineering Manual, and Construction Guidelines (Most Recent Edition) unless otherwise specified

.27 OPSS 410 – Pipe Sewer Installation in Open Cut

.28 OPSS 409 – Closed-Circuit Television Inspection

Section revised by Addendum No.3

1.3 MATERIAL CERTIFICATION

.1 Submit manufacturer's test data and certification at least 10 working days prior to commencing work.

.2 Ensure certification is marked on pipe.

1.4 SHOP DRAWINGS

.1 Submit shop drawings in accordance with Section 01 33 00 - Submittal Procedures, drawings shall be reviewed and approved prior to Construction.

.2 Indicate proposed method for installing carrier pipe for undercrossings, if applicable.

1.5 SAMPLES

.1 Submit samples in accordance with Section 01 33 00 - Submittal Procedures, samples shall be reviewed and approved prior to Construction. Any alternative products shall be approved in writing by Engineer prior to Construction.

.2 Inform Consultant at least 10 working days prior to commencing Work, of proposed source of bedding materials and provide access for sampling.

.3 Submit to Consultant for testing at least 10 working days prior to commencing work, following samples of materials proposed for use: Bedding materials, pipe surround, pipes, manholes, pipe connectors and adaptors.

1.6 SCHEDULING OF WORK

.1 Schedule Work to minimize interruptions to existing services and maintain existing sewage flows during construction.

.2 Submit schedule of expected interruptions for approval and adhere to approved schedule.

.3 Notify Consultant and Owner a minimum of 2 working days in advance of any interruption in service.

1.7 MANUFACTURERS INSTRUCTIONS

.1 Make available 1 copy of manufacturer's installation instructions to Consultant.

.2 Submit manufacturers information data sheets and instructions in accordance with Section 01 33 00- Submittal Procedures.

1.8 MEASUREMENT AND PAYMENT

.1 Include the following in the unit price bid of sewer installation;

.1 All necessary clearing and grubbing.

.2 Excavation to grade and disposal of excess material offsite in accordance with MOECC guidelines.

.3 Supply and installation of all pipes, fittings, bends, adaptors, reducers, specials sleeves, jointing, bedding, dewatering, shoring and bracing of trench supporting and protecting existing services, backfill and surface restoration.

.4 Field testing including deflection test, infiltration test and exfiltration test.

.5 CCTV camera inspection and support as per OPSS 409, including a compact disc (CD) of the inspection in a format acceptable to the Consultant.

.2 Payment for the connection to the existing sewer shall be based on unit price quoted per connection and include the following:

.1 Locating and exploring of existing pipes and manholes.

.2 Breaking into and re-benching of existing manholes including disposal of excess material offsite.

.3 Completing the connection by approved methods.

Section revised by Addendum No.3

2 PRODUCTS

2.1 CONCRETE PIPE

.1 Reinforced circular concrete pipe and fittings: to CAN/CSA-A257 and ASTM C 76M as indicated on the Contract Drawings, designed for flexible rubber gasket joints to CAN/CSA-A257 and ASTM C 443M.

.1 Acceptable suppliers: Hanson, Concast, Coldstream, Munro, Hyprescon, M-Con, Rainbow.

.2 Lifting holes:

.1 Pipe 900 mm and less diameter - no lift holes.

.2 Pipe greater than 900 mm diameter - lift holes not to exceed two in a piece of pipe.

.3 Provide pre-fabricated plugs to effectively seal lift holes after installation of pipe.

2.2 PLASTIC PIPE

.1 Type PSM Polyvinyl Chloride (PVC): to ASTM D 3034 CAN/CSA-B182.2.

.1 Standard Dimensional Ratio (SDR): 35

.2 Locked-in gasket and integral bell system

.3 Acceptable suppliers: IPEX, Rehau, Royal, Diamond Plastics

.4 City of Guelph does not accept profile PVC pipe (CSA 182.4)

2.3 SERVICE CONNECTIONS

.1 Type PSM Poly (Vinyl) Chloride: to CAN/CSA-B182.2.

.1 Standard dimensional ration (SDR): 28

.2 Acceptable Suppliers: IPEX, Rehau, Royal, Diamond Plastics

Section revised by Addendum No.3

2.4 CEMENT MORTAR

.1 Portland cement: to CAN/CSA-A5/A8/A362, normal type 10.

.2 Mix mortar one part by volume of cement to two parts of clean, sharp sand mixed dry. Add only sufficient water after mixing to give optimum consistency for placement. Do not use additives.

2.5 PIPE BEDDING AND SURROUND MATERIALS

.1 Refer to applicable Contract Drawings.

.2 Refer to Section 31 05 16 – Aggregates: General.

2.6 BACKFILL MATERIAL

.1 In accordance with Section 31 23 16 - Excavation, Trenching and Backfilling.

3 EXECUTION

3.1 GENERAL

.1 Note: Site Storm Sewage Piping shall terminate 1.5 m from building envelope and be stubbed, capped with a painted post brought to surface grade. Storm piping services tested as required external to the building an in accordance with DGMSS, OPSS and OBC requirements. Mechanical Contractor shall connect to the stub and bring it internally into the building as per Mechanical Contract Documents.

3.2 PREPARATION

.1 Clean and dry pipes and fittings before installation.

.2 Obtain Consultants' approval of pipes and fittings prior to installation.

3.3 TRENCHING

.1 Do trenching work in accordance with Section 31 23 16 - Excavation, Trenching and Backfilling.

.2 Do not allow contents of any sewer or sewer connection to flow into trench,

provide bulkheads and plugs as required.

.3 Trench alignment and depth require approval of Consultant prior to placing bedding material and pipe.

3.4 CONCRETE BEDDING AND ENCASEMENT

.1 Do concrete work in accordance with Section 03 33 00 - Cast-in-Place Concrete. Place concrete to details as indicated on Contract Drawings or as directed by the Consultant.

.2 Position pipe on concrete blocks to facilitate placing of concrete. When necessary, rigidly anchor or weight pipe to prevent flotation when concrete is placed.

.3 Do not backfill over concrete within 24 hours after placing.

3.5 GRANULAR BEDDING

.1 Place bedding in unfrozen condition.

.2 Place granular bedding materials in uniform layers not exceeding 150 mm compacted thickness to depth as indicated by Geotechnical Report.

.3 Shape bed true to grade and to provide continuous, uniform bearing surface for pipe. Do not use blocks when bedding pipe.

.4 Shape transverse depressions as required to suit joints.

.5 Compact each layer full width of bed to at least 98 % Standard Proctor Maximum Dry Density (SPMDD) in accordance with ASTM D1557.

.6 Fill excavation below bottom of specified bedding adjacent to manholes or structures with compacted bedding material.

3.6 INSTALLATION

.1 Lay and join pipes in accordance with manufacturer's recommendations and to approval of Consultant.

.2 Handle pipe using methods approved by Consultant. Do not use chains or cables passed through rigid pipe bore so that weight of pipe bears upon pipe ends.

Section revised by Addendum No.3

.3 Lay pipes on prepared bed, true to line and grade, with pipe invert smooth and free of sags or high points. Ensure barrel of each pipe is in contact with shaped bed throughout its full length.

.4 Commence laying at outlet and proceed in upstream direction with socket ends of pipe facing upgrade.

.5 Do not exceed maximum joint deflection recommended by pipe manufacturer.

.6 Do not allow water to flow through pipe during construction, except as may be permitted by Consultant.

.7 Whenever work is suspended, install removable watertight bulkhead at open end of last pipe laid to prevent entry of foreign materials.

.8 Install plastic pipe and fittings in accordance with CSA B182.11.

.9 Pipe jointing:

.1 Install gaskets in accordance with manufacturer's recommendations.

.2 Support pipes with hand slings or crane as required to minimize lateral pressure on gasket and maintain concentricity until gasket is properly positioned.

.3 Align pipes before joining.

.4 Maintain pipe joints free from mud, silt, gravel and other foreign material.

.5 Avoid displacing gasket or contaminating with dirt or other foreign material. Gaskets so disturbed shall be removed, cleaned and lubricated and replaced before joining is attempted.

.6 Complete each joint before laying next length of pipe.

.7 Minimize joint deflection after joint has been made to avoid joint damage.

.8 At rigid structures, install pipe joints not more than 1.2 m from side of structure.

.9 Apply sufficient pressure in making joints to ensure that joint is complete as outlined in manufacturer's recommendations.

.10 When any stoppage of work occurs, block pipes as directed by Consultant to prevent creep during down time.

.11 Plug lifting holes with pre-fabricated plugs approved by Consultant, set in shrinkage compensating grout.

.12 Cut pipes as required for special inserts, fittings or closure pieces as recommended by pipe manufacturer, without damaging pipe or its coating and to leave smooth end at right angles to axis of pipe.

.13 Make watertight connections to manholes. Use shrinkage compensating grout when suitable gaskets are not available.

.14 Use prefabricated saddles or field connections approved by Consultant, for connecting pipes to existing sewer pipes. Joints to be structurally sound and watertight.

3.7 PIPE SURROUND

.1 Place surround material in unfrozen condition.

.2 Upon completion of pipe laying, and after Consultant has inspected pipe joints, surround and cover pipes as indicated.

.3 Hand place surround material in uniform layers not exceeding 150 mm compacted thickness as indicated.

.4 Place layers uniformly and simultaneously on each side of pipe.

.5 Compact each layer from pipe invert to spring line of pipe to at least 98 % SPMDD in accordance with ASTM D1557.

.6 Compact each layer from spring line of pipe to underside of backfill to at least 98 % SPMDD in accordance with ASTM D1557.

3.8 BACKFILL

.1 Place backfill material in unfrozen condition.

.2 Place backfill material, above pipe surround in uniform layers not exceeding 150 mm compacted thickness up to grades as indicated.

.3 Under paving and walks, compact backfill to not less than 98 % SPMDD in accordance with ASTM D1557.. In other areas, backfill may be compacted to at least 95 % Standard Proctor Density (SPD) in accordance with ASTM D 698.

.4 Place unshrinkable fill in accordance with Section 31 23 33 01 - Excavation, Trenching and Backfilling].

3.9 UNDERCROSSING

.1 Submit shop drawings showing proposed method of installation in accordance with Section 01 33 00 – Substantial Procedures.

.2 Excavate working pit to dimensions indicated.

.3 Excavate working pit to minimum of 0.5 m below lowest invert of encasing pit.

.4 Dewater excavation.

.5 Dewater area of undercrossing.

.6 Install heavy timber backstop.

.7 Place encasing pipe to exact line and grade as indicated.

.8 Install encasing pipe by jacking and boring or tunneling.

.9 Ensure encasing pipe is not in tension.

.10 Use welded type joints for encasing pipe.

.11 Place concrete grout levelling pad in encasing pipe. Carefully control level of grout during placing.

.12 Insert storm sewer pipe into encasement pipe, in end with largest opening after placement of leveling pad.

.13 Use approved blocking method to guide storm sewer pipe in true alignment.

.14 Clearance between blocks and encasement pipe: maximum 12 mm when storm sewer pipe is in position.

.15 Join storm sewer pipe one length at time outside encasement pipe. Push storm sewer pipe into position.

.16 Couplings of storm sewer pipe: not to rest on levelling pad when storm sewer pipe is in position.

.17 Place concrete cradle around storm sewer pipe after it is positioned. Cradle to be minimum of 225 mm and maximum of 300 mm above levelling pad.

.18 Pressure grout remaining void with grout consisting of one part Portland cement and two parts clean washed sand with only sufficient amount of water added to allow placement. Do not install pressure grout until storm sewer pipe is secure against flotation. Do not use additives.

.19 Do field testing before placing concrete cradle and grouting.

3.10 SERVICE CONNECTIONS

.1 Install pipe to CSA B182.11 and manufacturer's instructions and specifications.

.2 Maintain grade for service connections at 1 vertical to 50 horizontal unless directed otherwise by Consultant.

.3 Service connections to main sewer: as shown on Contract Drawings.

.4 Service connection pipe: not to extend into interior of main sewer.

.5 Make up required horizontal and vertical bends from 45° bends or less, separated by straight section of pipe with minimum length of four pipe diameters. Use long sweep bends where applicable.

.6 Plug service laterals with water tight caps or plugs as approved by Consultant.

.7 Place location marker at ends of plugged or capped unconnected sewer lines. Each marker shall consist of 38 x 89 mm stake extending from pipe end at pipe level to 1.0 m above grade. Paint exposed portion of stake red with designation STM SWR LINE in green.

3.11 FIELD TESTING

.1 Repair or replace pipe, pipe joint or bedding found defective.

.2 When directed by Consultant, draw tapered wooden plug or mandrel with diameter of 50 mm less than nominal pipe diameter through sewer to ensure that pipe is free of obstruction as per OPSS 410.

Section revised by Addendum No.3

.3 Remove foreign material from sewers and related appurtenances by flushing with water.

.4 Perform infiltration and exfiltration testing as soon as practicable after jointing and bedding are complete, and service connections have been installed.

.5 Do infiltration and exfiltration testing as specified herein and as directed by Consultant. Perform tests in presence of Consultant. Notify Consultant 24 hours in advance of proposed tests as per OPSS 401.

.6 Carry out tests on each section of sewer between successive manholes including service connections.

.7 Install watertight bulkheads in suitable manner to isolate test section from rest of pipeline.

.8 Exfiltration test: (OPSS 410)

.1 Fill test section with water in such a manner as to allow displacement of air in line. Maintain under nominal head for 24 hours to ensure absorption in pipe wall is complete before test measurements are commenced.

.2 Immediately prior to test period add water to pipeline until there is a head of 1 m over interior crown of pipe measured at highest point of test section or water in manhole is 1 m above static ground water level, whichever is greater.

.3 Duration of exfiltration test: 2 hours.

.4 Water loss at end of test period: not to exceed maximum allowable exfiltration over any section of pipe between manholes.

.9 Infiltration test: (OPSS 410)

.1 Conduct infiltration test in lieu of exfiltration test where static ground water level is 750 mm or more above top of pipe measured at highest point in line to be used.

.2 Do not interpolate a head greater than 750 mm to obtain an increase in allowable infiltration rate.

.3 Install watertight plug at upstream end of pipeline test section.

.4 Discontinue pumping operations for at least 3 days before test measurements are to commence and during this time, keep thoroughly wet at least one third of pipe invert perimeter.

.5 Prevent damage to pipe and bedding material due to flotation and erosion.

.6 Place 90V-notch weir, or other measuring device approved by Consultant in invert of sewer at each manhole.

.7 Measure rate of flow over minimum of 1 hour, with recorded flows for each 5 min interval.

.10 Leakage: not to exceed following limits in litres per hour per mm of diameter per 100 m of sewer including service connections:

.1 Exfiltration, based on 600 mm head: 0.175 L.

.2 Infiltration: 0.150 L.

.11 Repair and retest sewer line as required, until test results are within limits specified.

.12 Repair visible leaks regardless of test results.

.13 CCTV Camera Inspections:

.1 Carry out inspection of installed sewers by CCTV per OPSS 409. The video camera shall be a pan and tilt unit, making the inspection of lateral connections and a better view of deficiencies possible.

.2 Provide means of access to permit Consultant to do inspections.

.3 Acceptance of the work for the commencement of the maintenance guarantee period will take place only after the Consultant has accepted and approved the inspection report.

END OF SECTION

CURTAIN WALL / WINDOW TYPES

SFT- STOREFRONT ASSEMBLY

- **SFT** STOREFRONT ASSEMBLY - HEAD & JAMB MULLION
- **SFT** STOREFRONT ASSEMBLY - MID MULLION
- **SFT** STOREFRONT ASSEMBLY - CORNER MULLION

XCW : EXISTING CURTAIN WALL ASSEMBLY - 133mm BACK SECTION (SITE VERIFY)
- 65 mm WIDE x 133 mm DEEP INTERIOR FRAME
- 25mm PRESSURE CAP HORIZONTAL MULLION
- 25mm PRESSURE CAP VERTICAL MULLION

STOREFRONT / CW / WINDOW GLASS PANEL TYPES

REFER TO BUILDING ELEVATIONS SHEETS FOR LOCATIONS

VGL1 - VISION GLASS, CLEAR (EXTERIOR STORE FRONT) **(INSULATED GLASS UNIT)**
- 8mm CLEAR GLASS WITH CERAMIC FRIT -HEAT-STRENGTHENED- BIRD FRINDLY ON SURFACE LOW E COATING ON SURFACE 2
- 13mm AIR CAVITY WITH ARGON FILL
- 8mm CLEAR GLASS EXTERIOR LITE, HEAT-STRENGTHENED

VGL2 - VISION GLASS, CLEAR (EXTERIOR DOORS) **(INSULATED GLASS UNIT)**
- 6mm EXTERIOR LITE, HEAT-STRENGTHENED, LOW E-COATING ON SURFACE 2
- 13mm AIR CAVITY WITH ARGON FILL
- 6mm CLEAR HEAT-STRENGTHENED (HS) INTERIOR LITE

VGL3 - COMBINED IGU (WITH 120MIN FRR)
INNER IGU: 120MIN FIRE RESISTIVE GLAZING, LOW E-COATING
OUTTER IGU: REFER TO GL3

SPL - ALUMINUM METAL SPANDREL
PREFINISHED ALUMINUM PANEL
25mm AIR GAP
FILL CAVITY WITH SPANDREL INSULATION - MIN. 100mm
GALVANIZED METAL (UNLESS NOTED OTHERWISE)

VG - SPANDREL PANEL GLASS
INSULATED GLASS - VISION UNIT

"X" PREFIX DENOTES EXISTING

CLADDING TYPES

CP1	CERAMIC PANEL CLADDING - COLOUR 1
CP2	CERAMIC PANEL CLADDING - COLOUR 2
MP1	METAL PANEL, FLAT, COLOUR 1
AL1	ALUMINUM PANELS COLOUR 1
PC1	PRECAST CONCRETE

INTERIOR GLAZING TYPES

GL1-	NOT USED
GL2-	TEMPERED LAMINATED GLASS
GL3-	FIRE RESISTIVE RATED, IMPACT SAFETY RESISTANT, HEAT BARRIER GLASS
GL4-	ACID ETCHED TEMPERED GLASS
GL5-	INTEGRATED BLINDS GLAZING, GL5M MOTORIZED
GL6-	INTEGRATED BLINDS FIRE FIRE PROTECTION RATED (PYROSTOP 45 MIN GLAZING)
GL7-	LOW-IRON TEMPERED AND LAMINATED GLASS WITH DIGITALLY PRINTED IMAGE (DIGITAL FRIT TECHNIQUE)
GL8-	LOW-IRON TEMPERED AND LAMINATED
GL9-	NOT USED
GL10-	NOT USED
GL11-	ONE-WAY MIRRORED GLASS
GL12-	CERAMIC FRIT GLASS
GL13-	NOT USED
GL 14-	POLYCARBONATE PLASTIC
BP/GL1	BACK-PAINTED LOW-IRON GLASS

LAYER LINE STYLES

- A/V BARRIER & SILICON MEMBRANE
- BELOW GRADE VAPOUR BARRIER MEMBRANE
- ROOFING/ WATERPROOFING MEMBRANE

HATCH PATTERNS

CONCRETE
CONCRETE MASONRY UNIT
MASONRY - VENEER
STONE
GRANULAR
SAND
EARTH
WOOD
PLYWOOD
STEEL
GYPSUM
GLAZING
RIVER STONE
DRAINAGE BOARD
MILLWORK

INSULATION TYPES & PATTERNS

INSUL-1, INSUL-7
SEMI-RIGID INSULATION BOARD

INSUL-2, INSUL-6
RIGID INSULATION BOARD

INSUL-3
HIGH DENSITY EPS INSULATION BOARD

INSUL-4
SEMI-RIGID INSULATION BOARD

INSUL-5
FOAMED-IN-PLACE FILLER INSULATION

INSUL-8
BATT INSULATION, UNFACED MINERAL FIBRE BATTS

EXTERIOR WALL TYPES

GRAPHIC	ASSEMBLY	NOTES
	EW-MP-CMU: EXTERIOR WALL - ROLL-FORMED STEEL PANELS ON CMU • 38mm ROLL-FORMED METAL PANELS • 22mm AIR SPACE • 150mm R25 INSULATION SEMIRIGID (**INSUL-1**), SUBFRAMING ON THERMALLY BROKEN CLIPS • CONT. SELF ADHERING AIR/VAPOUR BARRIER • 190mm CMU, REFER TO STRUCT.	REFER TO ELEVATIONS AND SPECIFICATION FOR CORRUGATED STEEL FINISH
INTERIOR / EXTERIOR	**EW-CP-ST**: WALL - CERAMIC PANELS ON STUD BACKING • 30mm CERAMIC PANELS • 25mm AIR SPACE • 150mm R25 INSULATION SEMIRIGID (**INSUL-1**), SUBFRAMING ON THERMALLY BROKEN CLIPS • CONT. SELF ADHERING AIR/VAPOUR BARRIE • 16mm EXTERIOR SHEATHING BOARD • 152mm COLD FORMED ENGINEERED STUDS @ 400mm O.C. • INTERIOR FINISH - 16mm ABUSE RESISTANT GYPSUM BOARD	REFER TO ELEVATIONS AND SPECIFICATION FOR CERAMIC FINISH
INTERIOR / EXTERIOR	**EW-MP-ST**: WALL - ROLL-FORMED STEEL PANELS ON BACKING • 38mm ROLL-FORMED METAL PANELS • 22mm AIR SPACE • 150mm R22 INSULATION SEMIRIGID (**INSUL-1**), SUBFRAMING ON THERMALLY BROKEN CLIPS • CONT. SELF ADHERING AIR/VAPOUR BARRIE • 16mm EXTERIOR SHEATHING BOARD • 152mm COLD FORMED ENGINEERED STUDS @ 400mm O.C. • INTERIOR FINISH - 16mm ABUSE RESISTANT GYPSUM BOARD	REFER TO ELEVATIONS AND SPECIFICATION FOR CORRUGATED STEEL FINISH
INTERIOR / EXTERIOR	**EW-BR-CMU**: EXTERIOR WALL - BRICK ON CMU • BRICK • 25mm AIR SPACE • CONT. SELF ADHERING AIR/VAPOUR BARRIER • 190mm CMU, REFER TO STRUCT.	
INTERIOR / EXTERIOR	**EW-PC-CONC**: WALL-PRECAST CONCRETE BASE • 100mm PRECAST CONCRETE PANEL • 25 AIR SPACE • THERMALLY ISOLATED STAINLESS STEEL DOWEL AND ANCHOR SPACING TO SUPPORT CLADDING • 100mm RIGID INSULATION (**INSUL-2**) (XPS) (2 LAYERS) • WATERPROOFING MEMBRANE • CAST IN PLACE CONCRETE - REFER TO STRUCTURAL	ABOVE GRADE
INTERIOR / EXTERIOR	**FW1-CONC**: WALL • SHEET DRAINAGE BOARD WITH FILTER CLOTH • 75mm RIGID INSULATION (**INSUL-2**) • 3 mm PROTECTION BOARDS • WATERPROOFING MEMBRANE • CONCRETE FOUNDATION WALL REFER TO STRUCTURAL DRAWINGS	BASEMENT WALL

ROOF TYPES

EXTERIOR MIN 2 % SLOPE TO DRAIN INTERIOR	**R1**: STEEL DECK ROOF W/ TAPERED INSULATION - STONE TOPPING • 50mm STONE BALLAST • DIFFUSION MEMBRANE • INSULATION 150mm (6") MIN. R-35 (**INSUL-6**) • DRAINAGE BOARD • 2 PLY MODIFIED BITUMINOUS MEMBRANE ROOFING • 3.2mm COVER BOARD • TAPERED INSULATION • VAPOUR BARRIER MEMBRANE • 16mm EXTERIOR GRADE SHEATHING BOARD • STEEL DECK (REFER TO STRUCTURE)	

SLAB ON GRADE

	SOG: SLAB ON GRADE • CONCRETE SLAB ON GRADE (SOG), REFER TO STRUCTURE • BELOW GRADE VAPOUR BARRIER MEMBRANE, MIN. 15 mils • 100mm RIGID INSULATION, HIGH DENSITY-XPS (1200mm FROM INNER EDGE OF CONC. CURB) • 150mm DRAINAGE LAYER CONSISTING OF 20mm COMPACTED CLEAR STONE • GEOTEXTILE FILTER CLOTH	16

EXTERIOR SOFFIT TYPES

	SF-1: METAL PANELS SOFFIT • STRUCTURAL DECK AND FRAMING • 92 STRUCTURAL STEEL STUD FRAMING @ 400 O/C • HAT CHANNEL FRAMING @ 400 O/C • SOLID FACE PLANKS NO PERFORATIONS	NEW ENTRANCE CANOPY
	SF-2: METAL PANELS SOFFIT • STRUCTURAL DECK AND FRAMING • 92 STRUCTURAL STEEL STUD FRAMING @ 400 O/C • HAT CHANNEL FRAMING @ 400 O/C • METAL PANEL	LEVEL 2 SOFFIT

REFERENCE SYMBOLS LEGEND

DETAIL CALL-OUT

DETAIL CALL-OUT
- DETAIL NUMBER (1, SIM)
- SHEET ON WHICH DETAIL IS SHOWN (A802)

EXTERIOR ELEVATION
- ELEVATION NUMBER (A1)
- SHEET ON WHICH ELEVATION IS SHOWN (A101)

INTERIOR ELEVATION
- ELEVATION NUMBER (1, 2, 3, 4)
- SHEET ON WHICH ELEVATION IS SHOWN (A600)

BUILDING SECTIONS
- SECTION NUMBER (A1)
- SHEET ON WHICH SECTION IS SHOWN (A101)

WALL SECTIONS
- SECTION NUMBER (A1)
- SHEET ON WHICH SECTION IS SHOWN (A101)

WALL DETAIL SECTION
- SECTION NUMBER (A1)
- SHEET ON WHICH SECTION IS SHOWN (A101)

- FLOOR / 0.00 m — FLOOR OR ROOF LEVEL NAME / VERTICAL ELEVATION
- C1 / 2000 — CEILING TYPE / CEILING HEIGHT (AFF)
- 100A — DOOR OPENING NUMBER
- GLAZED SCREEN NUMBER — 100A
- GENERAL SHEET NOTE (1)
- NORTH ARROW
- DRAWING REVISION (1)
- ROOM TAG: PATIENT RM — ROOM NAME; 1.2.002.04 — PROGRAM NUMBER; 1831 — ROOM NUMBER; 227 m² — ROOM AREA; (215 m²) — PROGRAM AREA
- WINDOW TAG: WINDOW TYPE; PROGRAM AREA (1t, Sill Height)
- A01 a — EXTERIOR WALL TAG
- PGS-F60 — PARTITION / FURRING TYPE
- GL1-BF — GLAZING TYPE; FRIT / SHADING TREATMENT

INTERIOR PARTITION LEGEND

GYPSUM FURRING TYPES

FURRING TYPE	DESCRIPTION
F0	16mm GYPSUM BOARD LAMINATED TO SUBSTRATE TO 152mm ABOVE HIGHEST ADJACENT FINISHED CEILING
FB1	16mm GYPSUM BOARD TO UNDERSIDE OF CONCRETE SLAB / STEEL DECK ABOVE; 22mm METAL FURRING 406mm ON CENTRE; FACE OF SUBSTRATE
FD1, FD1S	16mm GYPSUM BOARD TO UNDERSIDE OF CONCRETE SLAB / STEEL DECK ABOVE; 41mm METAL STUDS 406mm ON CENTRE TO UNDERSIDE OF CONCRETE SLAB / STEEL DECK ABOVE; INSULATION WHERE TYPE INCLUDES THE SUFFIX "S"
FE1, FE1S	16mm GYPSUM BOARD TO TO UNDERSIDE OF CONCRETE SLAB / STEEL DECK ABOVE; 64mm METAL STUDS 406mm ON CENTRE TO UNDERSIDE OF CONCRETE SLAB / STEEL DECK ABOVE; INSULATION WHERE TYPE INCLUDES THE SUFFIX "S"
FF1, FF1S	16mm GYPSUM BOARD TO TO UNDERSIDE OF CONCRETE SLAB / STEEL DECK ABOVE; 92mm METAL STUDS 406mm ON CENTRE TO UNDERSIDE OF CONCRETE SLAB / STEEL DECK ABOVE; INSULATION WHERE TYPE INCLUDES THE SUFFIX "S"
FF2, FF2S	2 LAYERS OF16mm GYPSUM BOARD TO UNDERSIDE OF CONCRETE SLAB / STEEL DECK ABOVE; 92mm METAL STUDS 406mm ON CENTRE TO UNDERSIDE OF CONCRETE SLAB / STEEL DECK ABOVE; INSULATION WHERE TYPE INCLUDES THE SUFFIX "S"
FG1, FG1S	16mm GYPSUM BOARD TO TO UNDERSIDE OF CONCRETE SLAB / STEEL DECK ABOVE; 92mm METAL STUDS 406mm ON CENTRE TO UNDERSIDE OF CONCRETE SLAB / STEEL DECK ABOVE; INSULATION WHERE TYPE INCLUDES THE SUFFIX "S"
FG2, FG2S	2 LAYERS OF16mm GYPSUM BOARD TO UNDERSIDE OF CONCRETE SLAB / STEEL DECK ABOVE; 152mm METAL STUDS 406mm ON CENTRE TO UNDERSIDE OF CONCRETE SLAB / STEEL DECK ABOVE; INSULATION WHERE TYPE INCLUDES THE SUFFIX "S"

PARTITION TYPE / FURRING TYPE LEGEND

PG4S-F60
- FIRE RESISTANCE RATING (ex - 60 min.)
- BATT ACOUSTIC INSULATION
- LAYER OF GYPSUM BOARD (ex - 4 LAYERS)
- SIZE OF METAL STUD (ex - 152mm METAL STUD)
- PARTITION TYPE (P DENOTE PARTITION TYPE, F DENOTE FURRING TYPE)

STUD SIZES

D: 41 mm
E: 64 mm
F: 92 mm
G: 152 mm
H: 203 mm
J: 152+41 mm
M: 64 mm C-H STUD

GYPSUM PARTITION TYPES

PARTITION TYPE	FIRE RESISTANCE	STC
PF2 PF2S	N/A	N/A 45
PF2-F00 PF2S-F00	SMOKE SEPARATION	N/A 45
PF2-F60 PF2S-F60	**60 minutes,** ULC No: W407	N/A 45

16mm GYPSUM BOARD TO UNDERSIDE OF CONCRETE SLAB / STEEL DECK ABOVE; 92mm METAL STUDS 406mm ON CENTRE TO UNDERSIDE OF CONCRETE SLAB / STEEL DECK ABOVE; INSULATION WHERE TYPE INCLUDES THE SUFFIX "S"

PARTITION TYPE	FIRE RESISTANCE	STC
PF3 PF3S	N/A	N/A 45
PF3-F00 PF3S-F00	SMOKE SEPARATION	N/A 50

2 LAYERS OF 16mm GYPSUM BOARD TO UNDERSIDE OF CONCRETE SLAB / STEEL DECK ABOVE; 92mm METAL STUDS 406mm ON CENTRE TO UNDERSIDE OF CONCRETE SLAB / STEEL DECK ABOVE; 16mm GYPSUM BOARD TO UNDERSIDE OF CONCRETE SLAB / STEEL DECK ABOVE; INSULATION WHERE TYPE INCLUDES THE SUFFIX "S"

PARTITION TYPE	FIRE RESISTANCE	STC
PF4 PF4S	N/A	N/A 50
PF4-F00 PF4S-F00	SMOKE SEPARATION	N/A 50
PF4-F60 PF4S-F60	**60 minutes,** ULC No: W415	N/A 50
PF4-F90 PF4S-F90	**90 minutes, ULI No:** U413	N/A 50
PF4-F120 PF4S-F120	**120 minutes,** ULC No: W453	N/A 50

2 LAYERS OF 16mm GYPSUM BOARD TO UNDERSIDE OF CONCRETE SLAB / STEEL DECK ABOVE; 92mm METAL STUDS 406mm ON CENTRE TO UNDERSIDE OF CONCRETE SLAB / STEEL DECK ABOVE; INSULATION WHERE TYPE INCLUDES THE SUFFIX "S"

PARTITION TYPE	FIRE RESISTANCE	STC
PG2 PG2S	N/A	N/A 50
PG2-F00 PG2S-F00	SMOKE SEPARATION	N/A 50

16mm GYPSUM BOARD TO UNDERSIDE OF CONCRETE SLAB / STEEL DECK ABOVE; 152mm METAL STUDS 406mm ON CENTRE TO UNDERSIDE OF CONCRETE SLAB / STEEL DECK ABOVE; INSULATION WHERE TYPE INCLUDES THE SUFFIX "S"

PARTITION TYPE	FIRE RESISTANCE	STC
PG3 PG3S	N/A	N/A 50
PG3S-F00	SMOKE SEPARATION	N/A

2 LAYERS OF 16mm GYPSUM BOARD TO UNDERSIDE OF CONCRETE SLAB / STEEL DECK ABOVE; 152mm METAL STUDS 406mm ON CENTRE TO UNDERSIDE OF CONCRETE SLAB / STEEL DECK ABOVE; 16mm GYPSUM BOARD TO UNDERSIDE OF CONCRETE SLAB / STEEL DECK ABOVE; INSULATION WHERE TYPE INCLUDES THE SUFFIX "S"

PARTITION TYPE	FIRE RESISTANCE	STC
PG4 PG4S	N/A	N/A 50
PG4-F60 PG4S-F60	**60 minutes,** ULC No: W415	N/A 50
PG4-F120 PG4S-F120	**120 minutes,** ULC No: W415	

2 LAYERS OF 16mm GYPSUM BOARD TO UNDERSIDE OF CONCRETE SLAB / STEEL DECK ABOVE; 152mm METAL STUDS 406mm ON CENTRE TO UNDERSIDE OF CONCRETE SLAB / STEEL DECK ABOVE; INSULATION WHERE TYPE INCLUDES THE SUFFIX "S"

PARTITION TYPE	FIRE RESISTANCE	STC
PH4 PH4S	N/A	N/A 50
PH4 PH4S	N/A	N/A 50

2 LAYERS OF 16mm GYPSUM BOARD TO UNDERSIDE OF CONCRETE SLAB / STEEL DECK ABOVE; 203mm METAL STUDS 406mm ON CENTRE TO UNDERSIDE OF CONCRETE SLAB / STEEL DECK ABOVE; INSULATION WHERE TYPE INCLUDES THE SUFFIX "S"

PARTITION TYPE	FIRE RESISTANCE	STC
PJ4 PJ4S	N/A	N/A 50

2 LAYERS OF 16mm GYPSUM BOARD TO UNDERSIDE OF CONCRETE SLAB / STEEL DECK ABOVE; 152mm METAL STUDS 406mm ON CENTRE TO UNDERSIDE OF CONCRETE SLAB / STEEL DECK ABOVE; 41mm HORIZONTAL METAL FURRING CHANNELS 406mm ON CENTRE TO UNDERSIDE OF CONCRETE SLAB / STEEL DECK ABOVE; INSULATION WHERE TYPE INCLUDES THE SUFFIX "S"

PARTITION TYPE	FIRE RESISTANCE	STC
PM3	N/A	N/A
PM3-F00	SMOKE SEPARATION	N/A
PM3-F60	**60 minutes,** ULC No: W452	39
PM3-F120	**120 minutes,** ULC No: W452	38

2 LAYERS OF 16mm GYPSUM BOARD TO UNDERSIDE OF CONCRETE SLAB / STEEL DECK ABOVE; 25mm GYPSUM BOARD TO UNDERSIDE OF CONCRETE SLAB / STEEL DECK ABOVE; 64mm C-H STUDS 610mm ON CENTRE TO UNDERSIDE OF CONCRETE SLAB / STEEL DECK ABOVE

TYPE	WIDTH	FIRE RESISTANCE	STC RATING	PROPERTIES	CONFIG.
CMU-190	190mm	N/A	50	NORMAL WEIGHT	HOLLOW
CMU-190-F90		1.5 HR	50	NORMAL WEIGHT	HOLLOW
CMU-190-F120		2 HR	46	LIGHT WEIGHT	HOLLOW

U/S OF SLAB, DECK OR STRUCTURE; NON HARDENING SOUND SEALANT; 190; 190mm CMU PARTITION NON LOAD BEARING; TOP OF SLAB

SUFFIX LEGEND:

- THE WORD "PARTITIONS" IN THIS LEGEND DENOTES PARTITIONS, FURRINGS AND CEILINGS AS APPLICABLE.

- "**A**" SUFFIX DENOTES THE SUBSTITUTION OF 16mm ABUSE-RESISTANT GYPSUM BOARD (STUD SIDE) AND 16mm IMPACT RESISTANCE GYPSUM BOARD (OUTER SIDE) IN LIEU OF THE GYPSUM BOARD SPECIFIED BY THE PARTITION TYPE.
- FOR PRTTITIONS WITH SUFFIX "**AA**" SUBSTITUTE THE GYPSUM BOARD ON BOTH SIDES OF THE PARTITIONS.
- WHERE **"A"** OR **"AA"** DENOTED PROVIDE HEAVIER 18 GAUGE METAL STUDS AS SPECIFIED IN METAL SUPPORT ASSEMBLIES AT ALL PARTITIONS, WELD STUDS TO TRACKS.ENSURE REQUIRED STC RATING IS MAINTAINED. SPACE SUDTS AT 300mm O.C.
- MAINTAIN RATINGS FOR FIRE RATED PARTITION TYPES BY USING FIRE RATED ABUSE-RESISTANT AND IMPACT RESISTANCE GYPSUM BOARD.
- "S" SUFFIX DENOTES ACOUSTIC INSULATION FOR THE FULL HEIGHT OF THE PARTITION.

NOTES:

THE WORD "PARTITIONS" IN THIS LEGEND DENOTES PARTITIONS, FURRINGS AND CEILINGS AS APPLICABLE.

1. WHERE NUMBER OF GYPSUM BOARDS ARE NOT THE SAME ON EITHER SIDE OF STUD IN A PARTITION ASSEMBLY, THE SIDE WITH WALL TAG IS WITH GREATER NUMBER OF GYPSUM BOARDS.

2. ALL ACOUSTIC WALLS (DENOTED WITH SUFFIX "S")SHOULD BE SLAB TO SLAB CONSTRUCTION AND ALL PARTITION JOINTS SHOULD BE SEALED WITH NON-HARDENING ACOUSTICAL SEALANT. ALL PENETRATIONS THROUGH ACOUSTIC WALLS SHOULD BE SLEEVED AND SEALED.

3. FOR WASHROOMS, SHOWERS, HOUSEKEEPING CLOSETS (ROOMS), SOILED ROOMS WITH WALL PROTECTION AND ALL WET AREAS, SUBSTITUTE 16mm MOISTURE RESISTANT GYPSUM BOARD FOR THE GYPSUM BOARD LAYERS SPECIFIED BY THE PARTITION TYPE. ENSURE MOISTURE RESISTANT TYPE X GYPSUM BOARD IS PROVIDED WHERE REQUIRED.

4. WHERE PARTITIONS TYPES ARE INDICATED WITH FIRE RESISTANCE RATING, SUBSTITUTE GYPSUM BOARD(S) WITH TYPE "X" GYPSUM BOARD(S) AS REQUIRED TO COMPLY WITH ULC DESIGN.

5. PROVIDE BACKING AND REQUIRED REINFORCING FOR SIGN TYPES LISTED ON SIGNAGE SET OF DRAWINGS.

SYMBOLS

- CR — CARDREADER
- PP — PUSH PLATE
- IC — INTERTCOM
- CLOCK (CLOCK ELAPSED, CENTRAL, START- STOP)
- ELECTRICAL DEVICE ZONE FOR REFERENCE ONLY
- FIRE HOSE CABINET
- FD — FLOOR DRAIN
- RD — ROOF DRAIN
- CG — CORNER GUARDS
- WP — WALL PROTECTION

ELECTRICAL SYMBOLS - CEILING MOUNTED FIXTURES & EQUIPMENT

- FEATURE LUMINAIRE
- LED LUMINAIRE - NORMAL POWER
- LED LUMINAIRE - EMERGENCY POWER
- LED LUMINAIRE - EMERGENCY POWER
- FLUORESCENT RECESSED
- DOWNLIGHT RECESSED
- SMOKE DETECTOR
- FIRE ALARM SPEAKER
- FIRE ALARM SPEAKER - STROBE
- OCCUPANCY SENSORS
- OCCUPANCY SENSOR
- ROOM CONTROL - DIMMING
- FIRE ALARM
- WALL WASH DOWNLIGHT
- EXIT SIGN WITH OR WITHOUT DIRECTIONAL ARROWS CEILING MOUNTED

MECHANICAL SYMBOLS- CEILING MOUNTED FIXTURES & EQUIPMENT

- LINEAR SLOT DIFFUSER
- SUPPLY DIFFUSER/GRILLE/REGISTER
- RETURN GRILLE/REGISTER
- EXHAUST GRILLE/REGISTER
- INSTITUTIONAL SPRINKLER HEAD
- UPRIGHT SPRINKLER HEAD
- CONCEALED SPRINKLER HEAD
- SUPPLY SIDEWALL GRILLE

CEILING TYPES

ACT-1	610 X 1220 MM STANDARD ACT
ACT-2	NOT USED.
ACT-3	610 X 1220 MM ACOUSTIC SECURITY CEILING
ACT-4	760 X 760 MM LARGE FORMAT ACOUSTIC CEILING TILE W/ 100MM WIDE TECHNICAL PANELS
ACT-5	610 X 1220 MM MOISTURE RESISTANT ACT
ACT-6	610 X 610 MM MOISTURE RESISTANT ACT
GB-1	GYPSUM BOARD CEILING
GB-2	GYPSUM BOARD CEILING - MOISTURE RESISTANT
GB-3	GYPSUM BOARD CEILING - IMPACT RESISTANT & MOISTURE RESISTANT
GB-4	GYPSUM BOARD CEILING - IMPACT RESISTANT
GB-5	FIRE RATED SMOKE SEALED GYPSUM BOARD CEILING
F-1	FEATURE CEILING
EXP	EXPOSED CEILING
CLG-WDLK	WOOD-LOOK CEILING PLANKS

Stantec

Stantec Architecture Ltd.
100-401 Wellington Street West
Toronto, M5V 1E7
Tel: (416) 596-6686 • www.stantec.com

Consultant

Notes

	Issued/Revision	By	Appd	YYYY.MM.DD
16	ISSUED FOR ADDENDUM No.3			2024.07.05
15	ISSUED FOR ADDENDUM No.2			2024.06.21
12	ISSUED FOR TENDER			2024.06.07
11	ISSUED FOR PRE-TENDER			2024.05.27
9	ISSUED FOR BUILDING PERMIT			2024.03.28
8	ISSUED FOR STAGE 2.3 MOH SUBMISSION			2024.02.23
6	ISSUED FOR COSTING AND GGH REVIEW			2023.12.21
5	ISSUED FOR 60% CONSTRUCTION DOCUMENTS			2023.10.26
3	ISSUED FOR MOH STAGE 2.2 SUBMISSION			2023.06.09
2	ISSUED FOR DD COSTING AND CLIENT REVIEW			2023.03.29

File Name: N/A	Author	Designer	Checker	03/22/23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

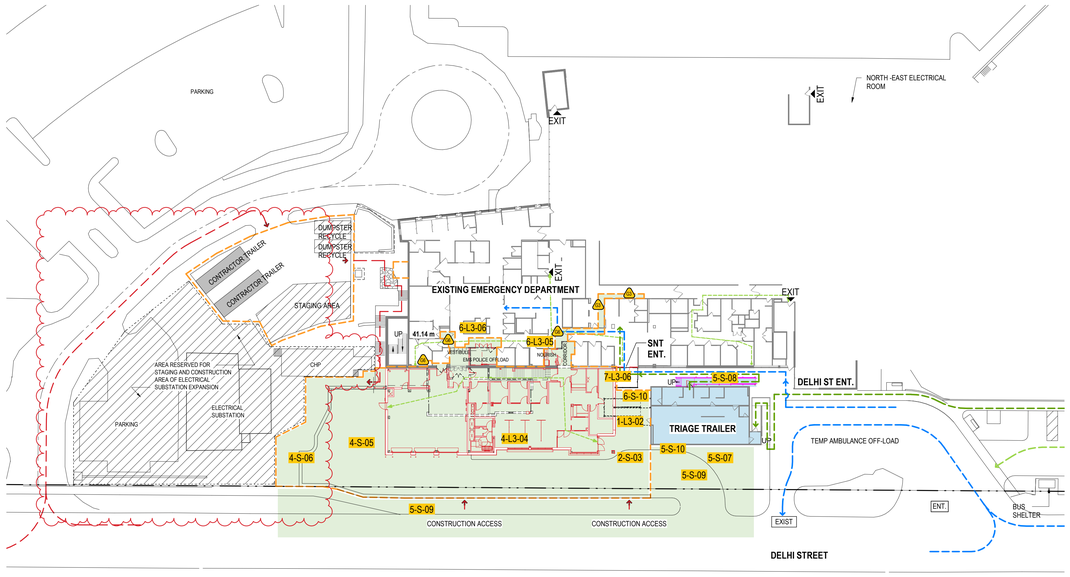
Client/Project Logo

GUELPH GENERAL HOSPITAL

Client/Project
GUELPH GENERAL HOSPITAL
Emergency Mental Health and Addictions Services Relocation and Emergency Department Expansion
115 DELHI STREET, GUELPH ON N1E 4J4

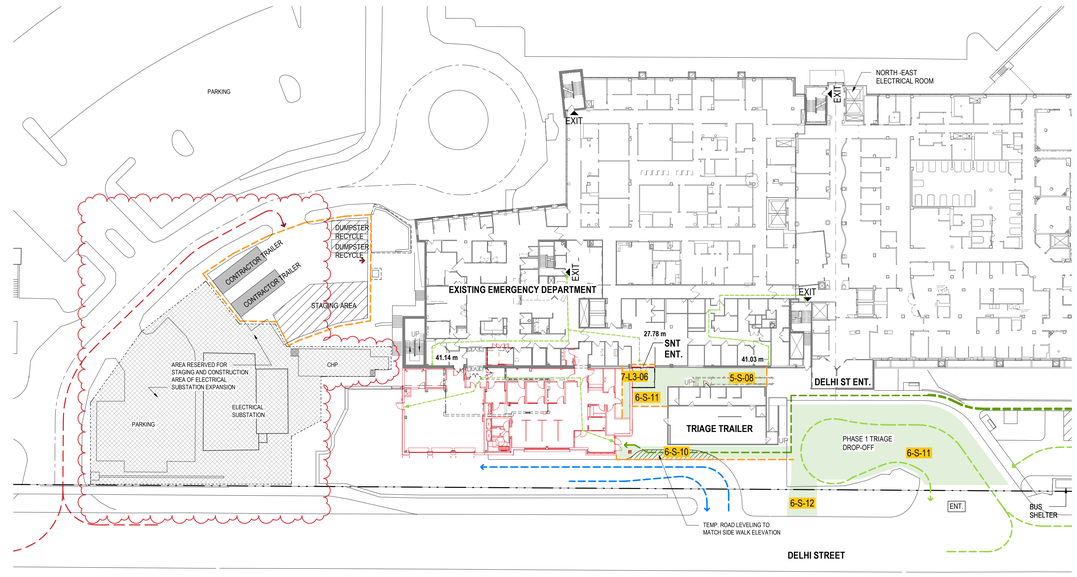
Title
INTERIOR AND EXTERIOR ASSEMBLIES, SYMBOLS AND MATERIAL LEGENDS

Project No. 140022022 | Scale As indicated
Revision 16 | Drawing No. **A001**



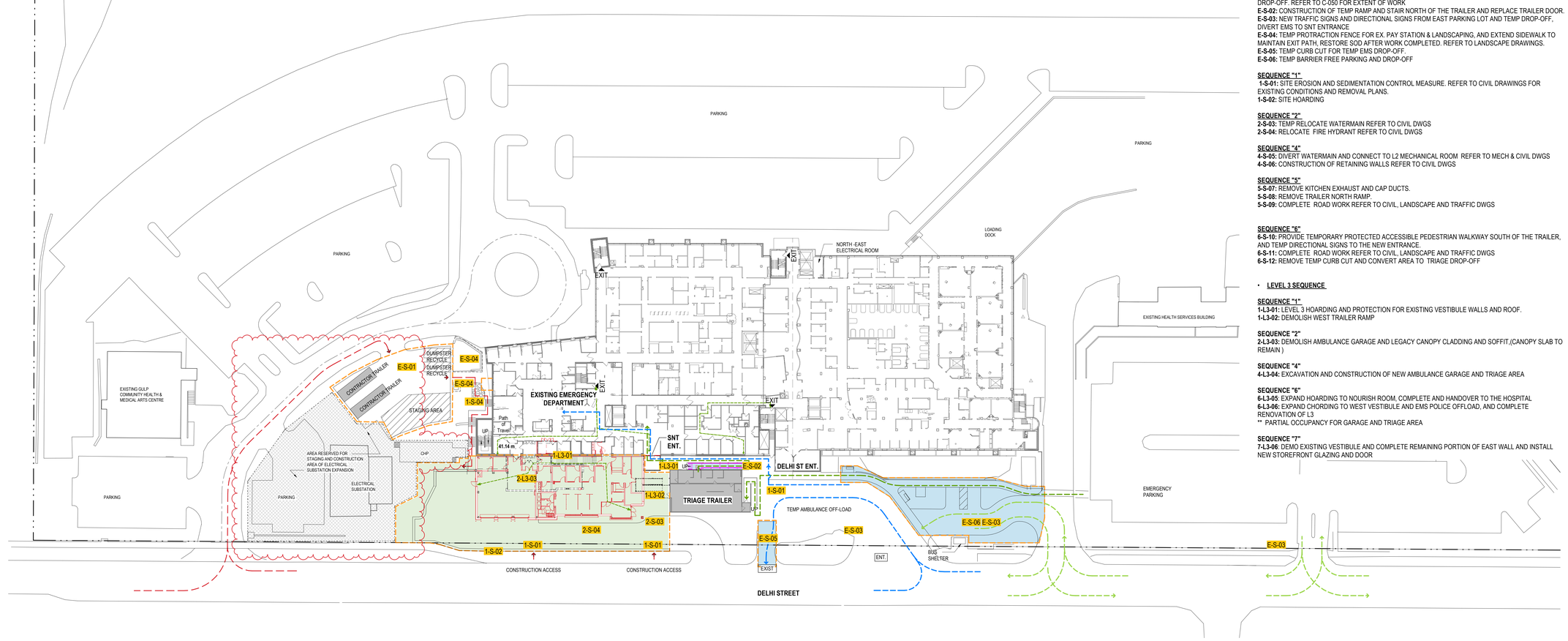
2 PH100 PHASE 1 - SITE AND LEVEL 3 SEQUENCE 4&5

1 : 400



3 PH100 PHASE 1 - SITE AND LEVEL 3 SEQUENCE 6&7

1 : 400



1 PH100 PHASE 1 - SITE AND LEVEL 3 ENABLING WORK, SEQUENCE 1&2

1 : 400

NOTES:

G1- OFF-HOURS MATERIAL AND WASTE ACCESS. ALL TOOLS AND EQUIPMENT MUST BE THOROUGHLY CLEANED AND DUST-FREE BEFORE TRANSPORTING THROUGH THE HOSPITAL
G2- OFF-HOURS WORK
G3- TEMP HOARDING TO BE CONSTRUCTED IN SECTIONS AND REMOVED AS REQUIRED BY GC.
G4: ROUTE FOR DELIVERY OF NEW AHU.

G6: REMOVABLE PLOY HOARDING, TO BE REMOVED AT THE END OF DAILY CONSTRUCTION WORK. COVER UNFINISHED WORK AND CLEAN THE WORK AREA.

SITE SEQUENCE

ENABLING WORK
E-S-01: MOBILIZATION, SITE SETUP, HOARDING, SITE EROSION AND SEDIMENTATION CONTROL FOR TEMP DROP-OFF. REFER TO C-050 FOR EXTENT OF WORK
E-S-02: CONSTRUCTION OF TEMP RAMP AND STAIR NORTH OF THE TRAILER AND REPLACE TRAILER DOOR.
E-S-03: NEW TRAFFIC SIGNS AND DIRECTIONAL SIGNS FROM EAST PARKING LOT AND TEMP DROP-OFF, DIVERT EMS TO SNT ENTRANCE
E-S-04: TEMP PROTRACTION FENCE FOR EX. PAY STATION & LANDSCAPING, AND EXTEND SIDEWALK TO MAINTAIN EXIT PATH, RESTORE SOD AFTER WORK COMPLETED. REFER TO LANDSCAPE DRAWINGS.
E-S-05: TEMP CURB CUT FOR TEMP EMS DROP-OFF.
E-S-06: TEMP BARRIER FREE PARKING AND DROP-OFF

SEQUENCE "1"
1-S-01: SITE EROSION AND SEDIMENTATION CONTROL MEASURE. REFER TO CIVIL DRAWINGS FOR EXISTING CONDITIONS AND REMOVAL PLANS.
1-S-02: SITE HOARDING

SEQUENCE "2"
2-S-03: TEMP RELOCATE WATERMAIN REFER TO CIVIL DWGS
2-S-04: RELOCATE FIRE HYDRANT REFER TO CIVIL DWGS

SEQUENCE "4"
4-S-05: DIVERT WATERMAIN AND CONNECT TO L2 MECHANICAL ROOM REFER TO MECH & CIVIL DWGS
4-S-06: CONSTRUCTION OF RETAINING WALLS REFER TO CIVIL DWGS

SEQUENCE "5"
5-S-07: REMOVE KITCHEN EXHAUST AND CAP DUCTS.
5-S-08: REMOVE TRAILER NORTH RAMP.
5-S-09: COMPLETE ROAD WORK REFER TO CIVIL, LANDSCAPE AND TRAFFIC DWGS

SEQUENCE "6"
6-S-10: PROVIDE TEMPORARY PROTECTED ACCESSIBLE PEDESTRIAN WALKWAY SOUTH OF THE TRAILER, AND TEMP DIRECTIONAL SIGNS TO THE NEW ENTRANCE.
6-S-11: COMPLETE ROAD WORK REFER TO CIVIL, LANDSCAPE AND TRAFFIC DWGS
6-S-12: REMOVE TEMP CURB CUT AND CONVERT AREA TO TRIAGE DROP-OFF

- **LEVEL 3 SEQUENCE**

SEQUENCE "1"
1-L3-01: LEVEL 3 HOARDING AND PROTECTION FOR EXISTING VESTIBULE WALLS AND ROOF.
1-L3-02: DEMOLISH WEST TRAILER RAMP

SEQUENCE "2"
2-L3-03: DEMOLISH AMBULANCE GARAGE AND LEGACY CANOPY CLADDING AND SOFFIT,(CANOPY SLAB TO REMAIN)

SEQUENCE "4"
4-L3-04: EXCAVATION AND CONSTRUCTION OF NEW AMBULANCE GARAGE AND TRIAGE AREA

SEQUENCE "6"
6-L3-05: EXPAND HOARDING TO NOURISH ROOM, COMPLETE AND HANDOVER TO THE HOSPITAL
6-L3-06: EXPAND CHORDING TO WEST VESTIBULE AND EMS POLICE OFFLOAD, AND COMPLETE RENOVATION OF L3
** PARTIAL OCCUPANCY FOR GARAGE AND TRIAGE AREA

SEQUENCE "7"
7-L3-06: DEMO EXISTING VESTIBULE AND COMPLETE REMAINING PORTION OF EAST WALL AND INSTALL NEW STOREFRONT GLAZING AND DOOR

Stantec

Stantec Architecture Ltd.
100-401 Wellington Street West
Toronto, M5V 1E7
Tel: (416) 596-6686 • www.stantec.com

Consultant

KEY PLAN

N

PHASING LEGEND

EXISTING
NEW
TEMPORARY

Notes

CONSTRUCTION HOARDING
PEDESTRIAN / PATIENT TRAFFIC
PUBLIC TRAFFIC
EMS TRAFFIC
CONSTRUCTION TRAFFIC
CONSTRUCTION AREA
CONSTRUCTION HOARDING VESTIBULE

1-L1-05
UNIQUE #
LOCATION
S: SITE, L1: LEVEL 1, L2: LEVEL 2, L3: LEVEL 3
SEQUENCE # (E: ENABLING WORK)

PHASING GENERAL NOTES:

1. PHASING DIAGRAMS INDICATED ARE FOR REFERENCE PURPOSES ONLY AND MAY NOT INCLUDE THE FULL EXTENT OF THE PHASING AND DEMOLITION SCOPE OF WORK.

2. REFER TO SPECIFICATION FOR CONSTRUCTION RELATED HEALTHCARE FACILITY PROCEDURE AND CONSTRUCTION PROGRESS DOCUMENTATION.

3. COORDINATE EXTENT AND LOCATION OF PHASING AND DEMOLITION WITH DOCUMENTS BY OTHER DISCIPLINES PRIOR TO COMMENCING ANY WORK.

4. HOARDING SHOWN SCHEMATIC, CG TO HOARD AREAS AS REQUIRED TO ENSURE SAFETY AND PRIVACY OF THE HOSPITAL STAFF AND VISITORS.

5. ALL NOISY WORK AND WORK CAUSING VIBRATION TO BE PERFORMED OUTSIDE OF NORMAL OPERATING HOURS UNLESS OTHERWISE INDICATED.

6. MECHANICAL AND ELECTRICAL COORDINATION
PRIOR TO THE COMMENCEMENT OF ANY WORK, CONTRACTOR TO INFORM HOSPITAL OF MECHANICAL AND ELECTRICAL SHUTDOWNS REQUIRED TO COMPLETE WORK. GENERAL CONTRACTOR TO ENSURE INTEGRITY OF EXISTING FIRE RATED GYPSUM BOARD ENCLOSURE OF EXISTING DUCTWORK IN CEILING SPACE. GENERAL CONTRACTOR TO COORDINATE DEMOLITION OF CEILINGS AND REDUNDANT MECHANICAL SERVICES WITH EXISTING SERVICES TO REMAIN. PROVIDE IMMEDIATE PROTECTION OF OPENINGS IN FIRE RATED ENCLOSURE DUE TO PROTECT ACCESS OF FIRE TO FLOOR LEVEL ABOVE

16	ISSUED FOR ADDENDUM No.3			2024.07.05
15	ISSUED FOR ADDENDUM No.2			2024.06.21
13	ISSUED FOR TENDER			2024.06.07
9	ISSUED FOR BUILDING PERMIT			2024.03.28
8	ISSUED FOR STAGE 2.3 MOH SUBMISSION			2024.02.23
4	ISSUED FOR COSTING AND DGH REVIEW			2023.12.21
Issued/Revision		By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	11/28/23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

GUELPH GENERAL HOSPITAL

Client/Project
GUELPH GENERAL HOSPITAL

Emergency Mental Health and Addictions Services Relocation and Emergency Department Expansion

115 DELHI STREET, GUELPH ON N1E 4J4

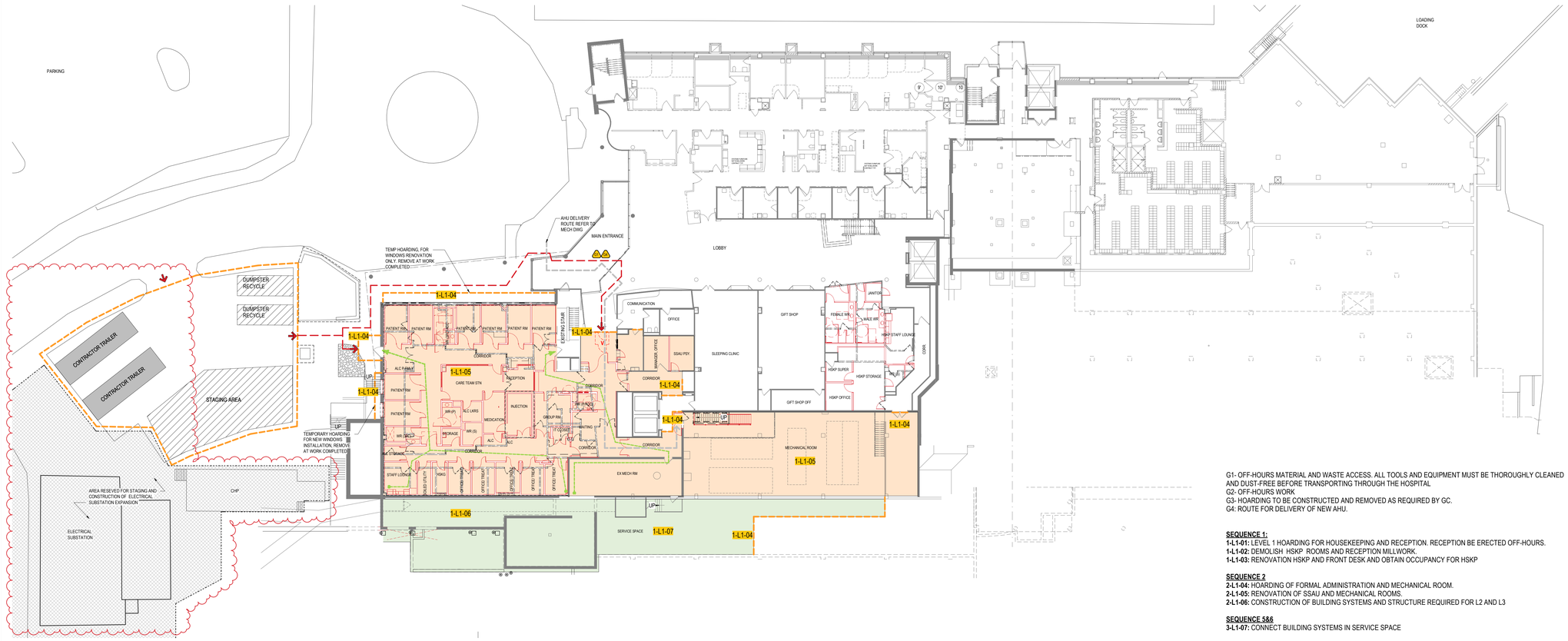
Title
PHASE 1- SITE & LEVEL 3 CONSTRUCTION SEQUENCING

Project No.
140022022

Scale
As indicated

Revision
16

Drawing No.
PH100



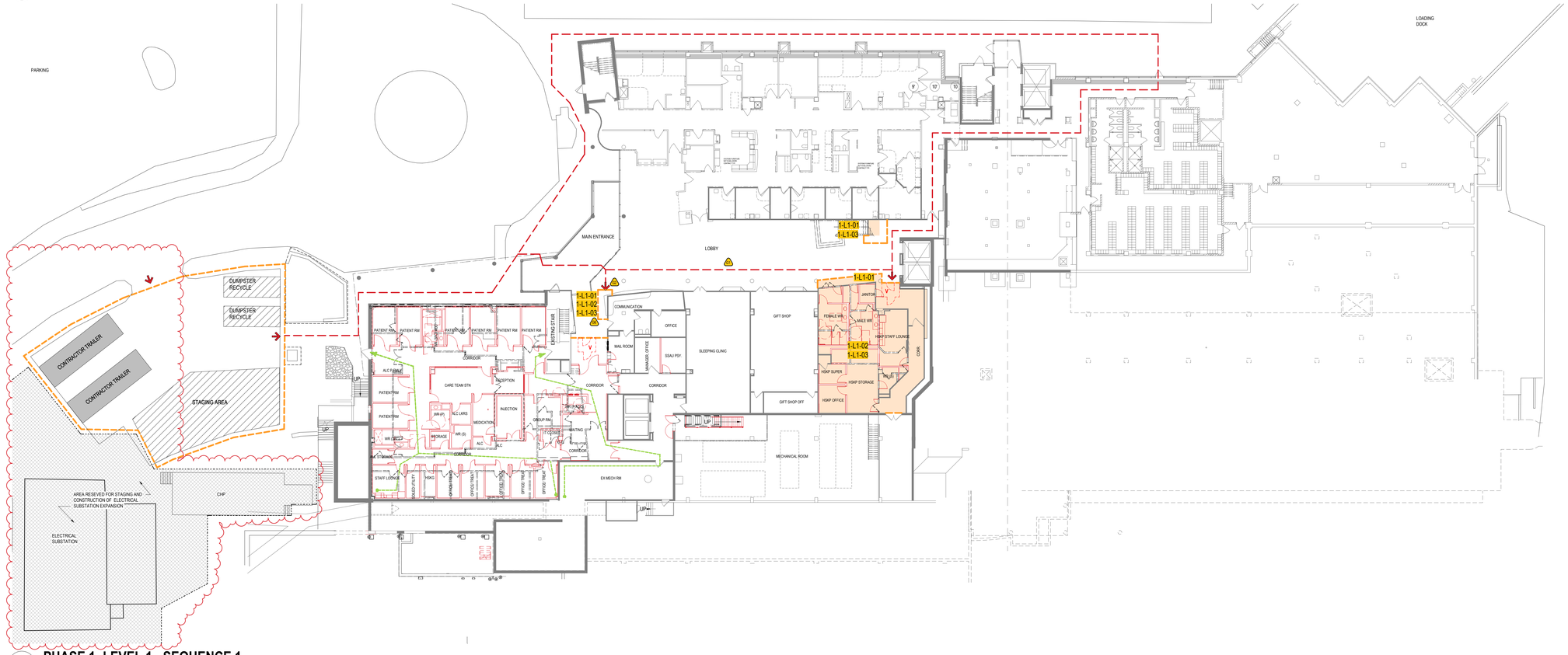
G1- OFF-HOURS MATERIAL AND WASTE ACCESS. ALL TOOLS AND EQUIPMENT MUST BE THOROUGHLY CLEANED AND DUST-FREE BEFORE TRANSPORTING THROUGH THE HOSPITAL
G2- OFF-HOURS WORK
G3- HOARDING TO BE CONSTRUCTED AND REMOVED AS REQUIRED BY GC.
G4: ROUTE FOR DELIVERY OF NEW AHU.

SEQUENCE 1:
1-L1-01: LEVEL 1 HOARDING FOR HOUSEKEEPING AND RECEPTION. RECEPTION BE ERECTED OFF-HOURS.
1-L1-02: DEMOLISH HSKP ROOMS AND RECEPTION MILLWORK.
1-L1-03: RENOVATION HSKP AND FRONT DESK AND OBTAIN OCCUPANCY FOR HSKP

SEQUENCE 2
2-L1-04: HOARDING OF FORMAL ADMINISTRATION AND MECHANICAL ROOM.
2-L1-05: RENOVATION OF SSAU AND MECHANICAL ROOMS.
2-L1-06: CONSTRUCTION OF BUILDING SYSTEMS AND STRUCTURE REQUIRED FOR L2 AND L3

SEQUENCE 5&6
3-L1-07: CONNECT BUILDING SYSTEMS IN SERVICE SPACE

2 PH101 PHASE 1- LEVEL 1 - SEQUENCE 2, 5&6
1 : 200



1 PH101 PHASE 1- LEVEL 1 - SEQUENCE 1
1 : 200

Stantec

Stantec Architecture Ltd.
100-401 Wellington Street West
Toronto, M5V 1E7
Tel: (416) 596-6686 • www.stantec.com

Consultant

KEY PLAN

N

PHASING LEGEND

EXISTING
NEW
TEMPORARY

Notes

CONSTRUCTION HOARDING
PEDESTRIAN / PATIENT TRAFFIC
PUBLIC TRAFFIC
EMS TRAFFIC
CONSTRUCTION TRAFFIC
CONSTRUCTION AREA
CONSTRUCTION HOARDING VESTIBULE

1-L1-05
UNIQUE #
LOCATION
S: SITE, L1: LEVEL 1, L2: LEVEL 2, L3: LEVEL 3
SEQUENCE # (E: ENABLING WORK)

PHASING GENERAL NOTES:

1. PHASING DIAGRAMS INDICATED ARE FOR REFERENCE PURPOSES ONLY AND MAY NOT INCLUDE THE FULL EXTENT OF THE PHASING AND DEMOLITION SCOPE OF WORK.

2. REFER TO SPECIFICATION FOR CONSTRUCTION RELATED HEALTHCARE FACILITY PROCEDURE AND CONSTRUCTION PROGRESS DOCUMENTATION.

3. COORDINATE EXTENT AND LOCATION OF PHASING AND DEMOLITION WITH DOCUMENTS BY OTHER DISCIPLINES PRIOR TO COMMENCING ANY WORK.

4. HOARDING SHOWN SCHEMATIC, CG TO HOARD AREAS AS REQUIRED TO ENSURE SAFETY AND PRIVACY OF THE HOSPITAL STAFF AND VISITORS.

5. ALL NOISY WORK AND WORK CAUSING VIBRATION TO BE PERFORMED OUTSIDE OF NORMAL OPERATING HOURS UNLESS OTHERWISE INDICATED.

6. MECHANICAL AND ELECTRICAL COORDINATION:
PRIOR TO THE COMMENCEMENT OF ANY WORK, CONTRACTOR TO INFORM HOSPITAL OF MECHANICAL AND ELECTRICAL SHUTDOWNS REQUIRED TO COMPLETE WORK. GENERAL CONTRACTOR TO ENSURE INTEGRITY OF EXISTING FIRE RATED GYPSUM BOARD ENCLOSURE OF EXISTING DUCTWORK IN CEILING SPACE. GENERAL CONTRACTOR TO COORDINATE DEMOLITION OF CEILINGS AND REDUNDANT MECHANICAL SERVICES WITH EXISTING SERVICES TO REMAIN. PROVIDE IMMEDIATE PROTECTION OF OPENINGS IN FIRE RATED ENCLOSURE DUE TO PROTECT ACCESS OF FIRE TO FLOOR LEVEL ABOVE.

16	ISSUED FOR ADDENDUM No.3			2024.07.05
15	ISSUED FOR ADDENDUM No.2			2024.06.21
12	ISSUED FOR TENDER			2024.06.07
9	ISSUED FOR BUILDING PERMIT			2024.03.28
8	ISSUED FOR STAGE 2.3 MOH SUBMISSION			2024.02.23
4	ISSUED FOR COSTING AND DGH REVIEW			2023.12.21
Issued/Revision		By	Appd	YYYY.MM.DD

File Name: N/A | Author Dwn. | Designer Dsgn. | Checker Chkd. | 11/22/23 YYYY.MM.DD

Permit/Seal

Client/Project Logo

GUELPH GENERAL HOSPITAL

Client/Project
GUELPH GENERAL HOSPITAL

Emergency Mental Health and Addictions Services Relocation and Emergency Department Expansion

115 DELHI STREET, GUELPH ON N1E 4J4

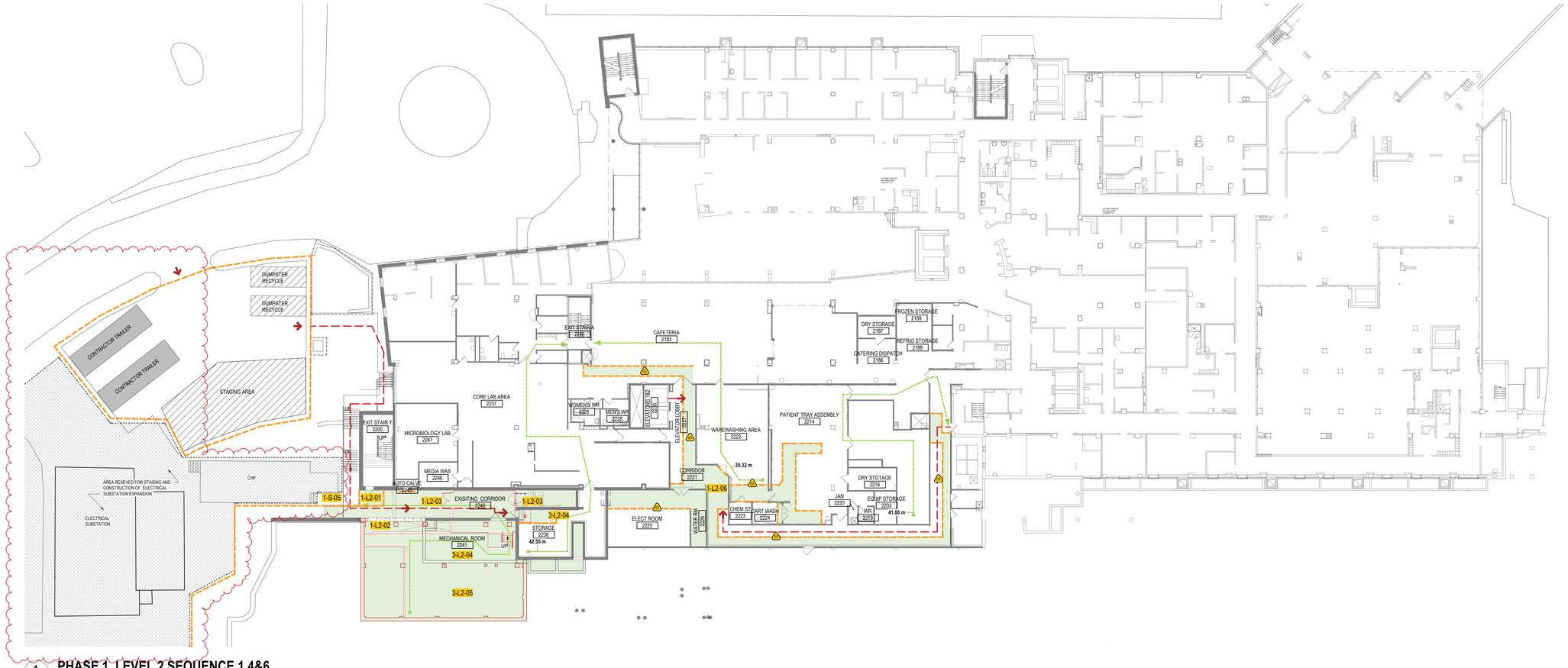
Title
PHASE 1 - LEVEL 1 CONSTRUCTION SEQUENCING

Project No. 140022022 | Scale As indicated
Revision 16 | Drawing No. **PH101**

G1- OFF-HOURS MATERIAL AND WASTE ACCESS. ALL TOOLS AND EQUIPMENT MUST BE THOROUGHLY CLEANED AND DUST-FREE BEFORE TRANSPORTING THROUGH THE HOSPITAL
G2- OFF-HOURS WORK
G3- TEMP HOARDING TO BE CONSTRUCTED IN SECTIONS AND REMOVED AS REQUIRED TO MAINTAIN EXISTING AND HOSPITAL DAILY OPERATION.
G4: ROUTE FOR DELIVERY OF NEW AHU.

SEQUENCE 1:
1-L2-01: MAINTAIN ACCESS FOR EXIT STAIR AND SAFE EXTERIOR PASSAGE TO STREET LEVEL (LEVEL 1).
1-L2-02: HOARDING
1-L2-03: CONSTRUCTION OF WEST WALL AND DOOR OF EXISTING CORRIDOR 2240 AND RELOCATE CO-GEN EQUIPMENT REFER TO MEP DRAWINGS PROVIDE TEMPORARY DOOR TO COMPLETE WORK IN THE EXISTING STAIR SPACE.

SEQUENCE 3:
3-L2-04: DEMOLITION EXISTING MECHANICAL ROOM.
3-L2-05: CONSTRUCTION OF AMBULANCE GARAGE FOOTING AND NEW MECHANICAL ROOM
3-L2-06: ABOVE CEILING MEP WORK, WORK TO BE ERECTED IN SECTIONS TO MINIMIZE DISRUPTION TO REGULAR FACILITY OPERATION, ACCESS TO PUBLIC WASHROOMS TO BE MAINTAINED AT ALL TIMES, AT LEAST ACCESS TO ONE ELEVATOR HAS TO BE AVAILABLE FOR USE ALL TIMES.



1 PH102 — **PHASE 1, LEVEL 2 SEQUENCE 1,4&6**
1 : 200

Stantec

Stantec Architecture Ltd.
100-401 Wellington Street West
Toronto, M5V 1E7
Tel: (416) 596-6686 • www.stantec.com

Consultant

KEY PLAN

N

PHASING GENERAL NOTES:

1- PHASING DIAGRAMS INDICATED ARE FOR REFERENCE PURPOSES ONLY AND MAY NOT INCLUDE THE FULL EXTENT OF PHASING AND DEMOLITION SCOPE OF WORK.

2- REFER TO SPECIFICATION SECTIONS 01 11 10 CONSTRUCTION RELATED INFECTION CONTROL, 01 31 40 CONSTRUCTION SEQUENCING, 01 33 00 CONSTRUCTION PROGRESS DECONTAMINATION, 01 37 00 (EXISTING PREMISE PROCEDURES, 01 38 00 SPECIAL HOSPITAL PROCEDURES AND 02 50 00 HAZARDOUS MATERIAL ABATEMENT.

3- COORDINATE EXTENT OF WORK AND LOCATION OF PHASING AND DEMOLITION WITH DOCUMENTS BY OTHER DISCIPLINES PRIOR TO COMMENCING ANY WORK.

4- MECHANICAL AND ELECTRICAL COORDINATION:
PRIOR TO THE COMMENCEMENT OF ANY WORK, CONTRACTOR TO INFORM HOSPITAL OF MECHANICAL AND ELECTRICAL SHUT DOWNS REQUIRED TO COMPLETE WORK. GENERAL CONTRACTOR TO ENSURE INTEGRITY OF EXISTING FIRE RATED GYPSUM BOARD ENCLOSURE IF THE EXISTING DUCTWORK IN CEILING SPACE. GENERAL CONTRACTOR TO COORDINATE DEMOLITION OF CEILING AND REDUNDANT MECHANICAL SERVICES WITH EXISTING SERVICES TO REMAIN. PROVIDE IMMEDIATE PROTECTION OF THE OPENING IF FIRE RATED ENCLOSURES DUE TO PROTECT ACCESS OF FIRE TO FLOOR ABOVE.

Notes

PHASING LEGEND:

- EXISTING
- NEW
- TEMPORARY
- CONSTRUCTION HOARDING
- PEDESTRIAN / PATIENT TRAFFIC
- PUBLIC TRAFFIC
- EMS TRAFFIC
- CONSTRUCTION TRAFFIC
- CONSTRUCTION AREA
- CONSTRUCTION HOARDING VESTIBULE

1-L1-05
- UNIQUE #
- LOCATION
  S: SITE, L1: LEVEL 1, L2: LEVEL 2, L3: LEVEL 3
- SEQUENCE # (E. ENABLING WORK)

PHASING GENERAL NOTES:

1. PHASING DIAGRAMS INDICATED ARE FOR REFERENCE PURPOSES ONLY AND MAY NOT INCLUDE THE FULL EXTENT OF THE PHASING AND DEMOLITION SCOPE OF WORK.

2. REFER TO SPECIFICATION FOR CONSTRUCTION RELATED HEALTHCARE FACILITY PROCEDURE AND CONSTRUCTION PROGRESS DOCUMENTATION.

3. COORDINATE EXTENT AND LOCATION OF PHASING AND DEMOLITION WITH DOCUMENTS BY OTHER DISCIPLINES PRIOR TO COMMENCING ANY WORK.

4. HOARDING SHOWN SCHEMATIC. CG TO HOARD AREAS AS REQUIRED TO ENSURE SAFETY AND PRIVACY OF THE HOSPITAL STAFF AND VISITORS.

5. ALL NOISY WORK AND WORK CAUSING VIBRATION TO BE PERFORMED OUTSIDE OF NORMAL OPERATING HOURS UNLESS OTHERWISE INDICATED.

6. MECHANICAL AND ELECTRICAL COORDINATION:
PRIOR TO THE COMMENCEMENT OF ANY WORK, CONTRACTOR TO INFORM HOSPITAL OF MECHANICAL AND ELECTRICAL SHUTDOWNS REQUIRED TO COMPLETE WORK. GENERAL CONTRACTOR TO ENSURE INTEGRITY OF EXISTING FIRE RATED GYPSUM BOARD ENCLOSURE OF EXISTING DUCTWORK IN CEILING SPACE. GENERAL CONTRACTOR TO COORDINATE DEMOLITION OF CEILINGS AND REDUNDANT MECHANICAL SERVICES WITH EXISTING SERVICES TO REMAIN. PROVIDE IMMEDATE PROTECTION OF OPENINGS IN FIRE RATED ENCLOSURE DUE TO PROTECT ACCESS OF FIRE TO FLOOR LEVEL ABOVE.

14	ISSUED FOR ADDENDUM No.3		2024.07.05
15	ISSUED FOR ADDENDUM No.2		2024.06.21
13	ISSUED FOR ADDENDUM No.1		2024.06.14
12	ISSUED FOR TENDER		2024.06.07
9	ISSUED FOR BUILDING PERMIT		2024.03.28
8	ISSUED FOR STAGE 2.3 MOH SUBMISSION		2024.02.23
4	ISSUED FOR COSTING AND IGGH REVIEW		2023.12.21
Issued/Revision		By	Appd YYYY.MM.DD

File Name: N/A — Author Dwn. — Designer Dsgn. — Checker Chkd. — 11/27/23 YYYY.MM.DD

Permit/Seal

Client/Project Logo

GUELPH GENERAL HOSPITAL

Client/Project
GUELPH GENERAL HOSPITAL

Emergency Mental Health and Addictions Services Relocation and Emergency Department Expansion

115 DELHI STREET, GUELPH ON N1E 4J4

Title
PHASE 1 - LEVEL 2 CONSTRUCTION SEQUENCING

Project No. 140022022 — Scale As indicated
Revision 16 — Drawing No. **PH102**

ONTARIO BUILDING CODE DATA MATRIX

Revised: 2016.10.04

PART 3 - FIRE PROTECTION, OCCUPANT SAFETY AND ACCESSIBILITY

OBC REFERENCE [1]

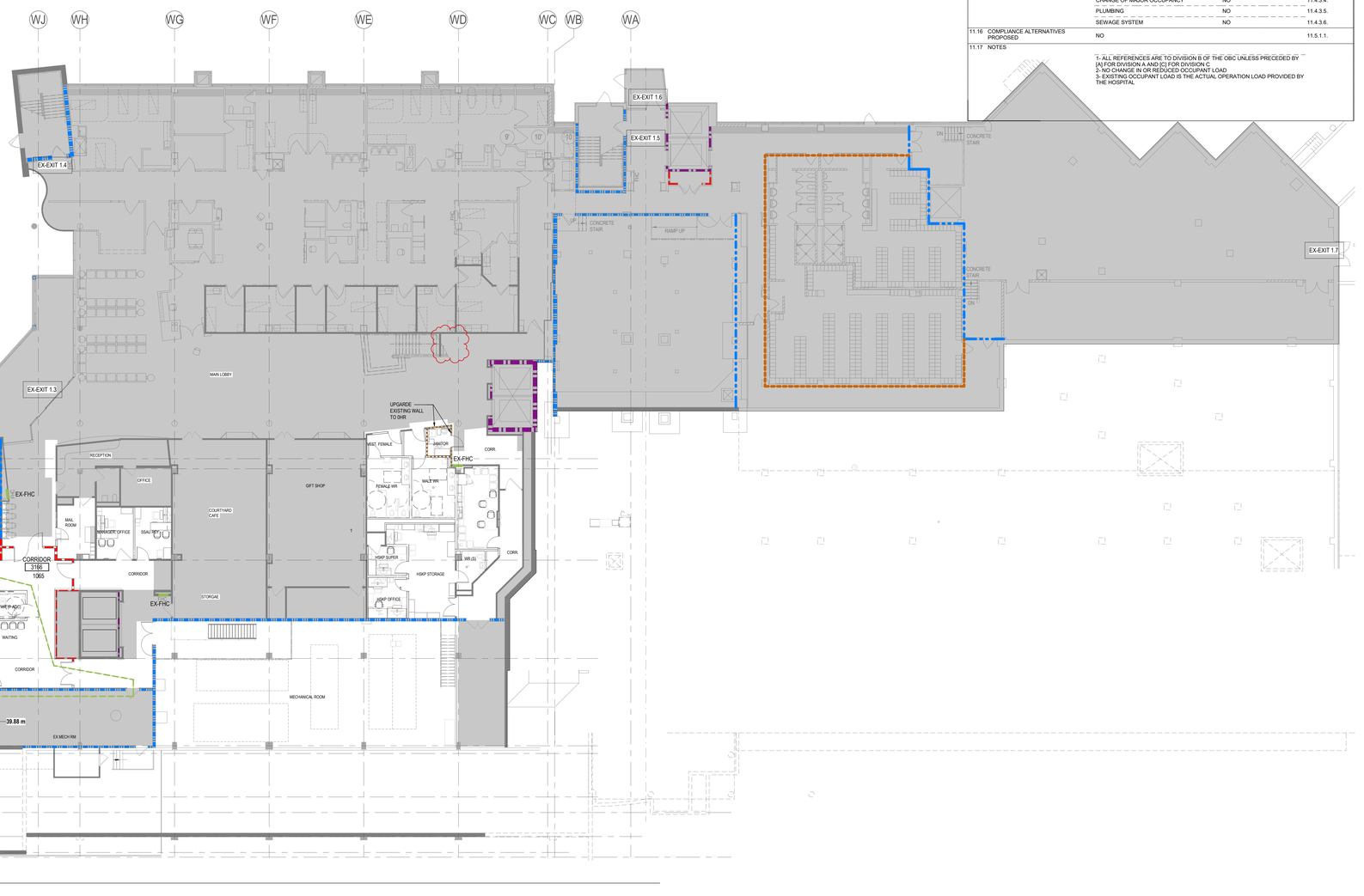
	Name of Practice	Stantec Architecture Ltd.									
	Address 1	100-401 Wellington Street West Toronto ON M5V 1E7									
	Address 2										
	Contact	Tim Eastwood, OAA									
	Name of Project	Emergency Mental Health and Addictions Services Relocation and Emergency Department Expansion									
	Location/Address	115 DELHI STREET, GUELPH ON N1E 4J4									
	Date						Seal & Signature				
3.00	BUILDING CODE VERSION	O.Reg. 332/12				LAST AMENDMENT	O.Reg. 30/23				
3.01	PROJECT TYPE	Addition and Renovation									[A] 1.1.2.
		Interior renovation and addition. Renovation of the emergency department mental health unit and housekeeping on Level 1 Addition to the mechanical room on Level 2. Renovation and expansion of the emergency department and entrance and ambulance garage on Level 3									
3.02	MAJOR OCCUPANCY CLASSIFICATION	OCCUPANCY				USE					3.1.2.1.(1)
		B2	Care and Treatment Occupancies			Hospital					
		-	-								
		-	-								
3.03	SUPERIMPOSED MAJOR OCCUPANCIES	NO									3.2.2.7.
		-									
3.04	BUILDING AREA (m²)	DESCRIPTION				EXISTING		NEW		TOTAL	[A] 1.4.1.2.
						6476.00		659.00		7,135.0	
		TOTAL				6,476.0		659.0		7,135.0	
3.05	GROSS AREA...	DESCRIPTION				EXISTING		NEW		TOTAL	[A] 1.4.1.2.
		Level 1				4130.00		0.00		4,130.0	
		Level 2				6282.00		188.00		6,470.0	
		Level 3				6298.00		659.00		6,957.0	
		TOTAL				16,710.0		847.0		17,557.0	
3.06	MEZZANINE AREA (m²)	DESCRIPTION				EXISTING		NEW		TOTAL	3.2.1.1.
		N/A				-		-		-	
		TOTAL				-		-		-	
3.07	BUILDING...	7	STOREYS ABOVE GRADE					19.12	(m) ABOVE GRADE		[A] 1.4.1.2. & 3.2.1.1.
			STOREYS BELOW GRADE								
3.08	HIGH BUILDING	Yes									3.2.6
3.09	NUMBER OF STREETS/ FIREFIGHTER ACCESS	1	STREET(S)								3.2.2.10. & 3.2.5.
3.10	BUILDING CLASSIFICATION (SIZE AND CONSTRUCTION RELATIVE TO OCCUPANCY)	3.2.2.38.	Group B, Division 2 or Division 3, Any Height, Any Area, Sprinklered								3.2.2.20-83.
		-									
		-									
3.11	SPRINKLER SYSTEM	Required				PROVIDED:	Entire Building				3.2.1.5. & 3.2.2.17.
		DESCRIBE									
3.12	STANDPIPE SYSTEM	Required									3.2.9.
3.13	FIRE ALARM SYSTEM	Required				TYPE PROVIDED	-				3.2.4.
3.14	WATER SERVICE/ SUPPLY IS ADEQUATE	Yes									
3.15	CONSTRUCTION TYPE	RESTRICTIONS	Noncombustible Required								3.2.2.20.-83.
		ACTUAL	Noncombustible			HEAVY TIMBER CONSTRUCTION				N/A	3.2.1.4.
3.16	IMPORTANCE CATEGORY	Post-Disaster				-					4.1.2.1.(3), Tx 1.2.1.B.
3.17	SEISMIC HAZARD INDEX (IE Fa Sa...	0.00	Seismic Design Not Required for Table 4.1.1.1B. Items 6 to 21								4.1.8.18.(1)
3.18	OCCUPANT LOAD	FLOOR LEVEL/AREA				OCCUPANCY TYPE		BASED ON		OCCUPANT LOAD (PERSONS)	3.1.17.
		Level 3				B2		Design of space		65	
		TOTAL								65	
3.19	BARRIER-FREE DESIGN	Yes									3.8.
3.20	HAZARDOUS SUBSTANCES	-									3.3.1.2. & 3.3.1.19
3.21	REQUIRED FIRE RESISTANCE RATINGS	HORIZONTAL ASSEMBLY					RATING (H)	SUPPORTING ASSEMBLY (H)		NONCOMBUSTIBLE IN LIEU OF RATING?	3.2.2.20.-83, 3.2.1.4.
		FLOORS OVER BSMT					2.00			-	
		FLOORS					2.00			-	
		MEZZANINE					-			-	
		ROOF					-			-	
3.22	SPATIAL SEPARATION	WALL	EBF AREA (m2)	L.D. (m)	L/H OR H/L	REQUIRED FRR (H)	CONSTRUCTION TYPE			CLADDING TYPE	3.2.3.
		North	N/A			-	-			-	
		South	220.0	6.63	5.15/42.72	45 min	Noncombustible Req'd			Noncombustible Req'd	
		East	72.9	6.65	5.84/12.48	45 min	Noncombustible Req'd			Noncombustible Req'd	
		West	N/A	>9	N/A	-	Noncombustible Req'd			Noncombustible Req'd	
3.23	PLUMBING FIXTURE REQUIREMENTS	RATIO:	MALE:FEMALE = 50:50 EXCEPT AS NOTED OTHERWISE								3.7.4.
		FLOOR LEVEL/AREA			OCCUPANT LOAD	OBC SENTENCE	FIXTURES REQUIRED		FIXTURES PROVIDED		
		Refer GGH Occupant Load Summary				3.7.4.4					
3.24	ENERGY EFFICIENCY	COMPLIANCE PATH:	Prescriptive Path								
		CLIMATIC ZONE:	6								
3.25	NOTES										
		1	ALL REFERENCES ARE TO DIVISION B OF THE OBC UNLESS PRECEDED BY [A] FOR DIVISION A AND [C] FOR DIVISION C								

Ontario Building Code Data Matrix, Part 3
© Ontario Association of Architects

PART 11 - RENOVATION OF EXISTING BUILDING

OBC REFERENCE [1]

11.00	BUILDING CODE VERSION	O.Reg. 332/12		LAST AMENDMENT	O.Reg. 30/23		
11.01	PROJECT TYPE	Addition and Renovation					[A] 1.1.2.
		Description: Interior renovation and addition. Renovation of the emergency department mental health unit and housekeeping on Level 1 Addition to the mechanical room on Level 2. Renovation and expansion of emergency department and entrance and ambulance garage on Level 3					
11.02	Location/Address	OCCUPANCY		USE			3.1.2.1.(1)
		B2	Care and Treatment Occupancies	Hospital			
11.03	SUPERIMPOSED MAJOR OCCUPANCIES	NO					3.2.2.7.
11.04	BUILDING AREA (m²)	DESCRIPTION		EXISTING	NEW	TOTAL	[A] 1.4.1.2.
		EXPANSION OF LEVEL3 EMERGENCY AND AMBULANCE GARAGE		6298.00	659.00	6,957.0	
11.05	GROSS AREA AREA (m²)	DESCRIPTION		EXISTING	NEW	TOTAL	[A] 1.4.1.2.
		Level 1		4130.00	0.00	4,130.0	
		Level 2		6282.00	188.00	6,470.0	
		Level 3		6298.00	659.00	6,957.0	
		Level 4		3107.00	0.00	3,107.0	
		Level 5		5379.00	0.00	5,379.0	
		Level 6		3575.00	0.00	3,575.0	
		Level 7		2880.00	0.00	2,880.0	
		Level 8		158.00	0.00	158.0	
		Level 9		81.00	0.00	81.0	
		TOTAL		31890.00	847.0	32,737.0	
11.06	BUILDING HEIGHT	7	STOREYS ABOVE GRADE	19.12	(m) ABOVE...		[A] 1.4.1.2. & 3.2.1.1.
11.07	NUMBER OF STREETS/ FIRE FIGHTER ACCESS	1	STREETS(S)				3.2.2.10. & 3.2.5.
11.08	BUILDING SIZE	LARGE					T.11.2.1.1.B.-N.
11.09	EXISTING BUILDING CLASSIFICATION	CHANGE IN MAJOR OCCUPANCY			NO		11.2.1.1.
		CONSTRUCTION INDEX			7		T.11.2.1.1.A.
		HAZARD INDEX			7		T.11.2.1.1.B.-N.
		IMPORTANCE CATEGORY			Post-Disaster		
11.10	RENOVATION TYPE	EXTENSIVE RENOVATION					11.3.3.1. & 11.3.3.2.
11.11	OCCUPANT LOAD	FLOOR LEVEL/AREA	OCCUPANCY TYPE	BASED ON	OCCUPANT LOAD (PERSONS)		3.1.17.
		Level 1 (4130 s.m.)[2]	B2	m² per person	Reduced		
		Level 2 (6282 s.m.)[2]	F3	m² per person	No cahnge		
		Level 3 (6298 s.m.)[4]	B2	m² per person	375 3		
		TOTAL					
11.12	PLUMBING FIXTURE REQUIREMENTS	RATIO:	MALE:FEMALE = 50:50 EXCEPT AS NOTED OTHERWISE				3.7.4.
		FLOOR LEVEL/AREA	OCCUPANT LOAD	OBC REFERENCE	FIXTURES REQUIRED	FIXTURES PROVIDED	
		Level 1[2]		3.7.4.7.		11m+11f [2]	
		Level 2[2]		3.7.4.7.		9m+9f [2]	
		Level 3[2]		3.7.4.7.		18m+18 [3]	
11.13	BARRIER-FREE DESIGN	Yes					11.3.3.2.(2)
11.14	REDUCTION IN PERFORMANCE LEVEL	STRUCTURAL			NO		11.4.2.1.
		INCREASE IN OCCUPANT LOAD			NO		11.4.2.2.
		CHANGE OF MAJOR OCCUPANCY			NO		11.4.2.3.
		PLUMBING			NO		11.4.2.4.
		SEWAGE SYSTEM			NO		11.4.2.5.
11.15	COMPENSATING CONSTRUCTION	STRUCTURAL			NO		11.4.3.2.
		INCREASE IN OCCUPANT LOAD			NO		11.4.3.3.
		CHANGE OF MAJOR OCCUPANCY			NO		11.4.3.4.
		PLUMBING			NO		11.4.3.5.
		SEWAGE SYSTEM			NO		11.4.3.6.
11.16	COMPLIANCE ALTERNATIVES PROPOSED	NO					11.5.1.1.
11.17	NOTES	1- ALL REFERENCES ARE TO DIVISION B OF THE OBC UNLESS PRECEDED BY [A] FOR DIVISION A AND [C] FOR DIVISION C 2- NO CHANGE IN OR REDUCED OCCUPANT LOAD 3- EXISTING OCCUPANT LOAD IS THE ACTUAL OPERATION LOAD PROVIDED BY THE HOSPITAL					

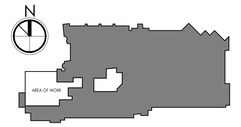


1 A101 **LEVEL 1 - LIFE SAFETY PLAN**
1 : 150

Stantec

Stantec Architecture Ltd.
100-401 Wellington Street West
Toronto, M5V 1E7
Tel: (416) 596-6686 • www.stantec.com

Consultant



Notes

LIFE SAFETY PLAN LEGEND

- 0 HOUR SMOKE SEPARATION
- ¾ HOUR FIRE RATED SEPARATION
- 1 HOUR FIRE RATED SEPARATION
- 1.5 HOUR FIRE RATED SEPARATION
- 2 HOUR FIRE RATED SEPARATION
- EXIT ROUTE (45M MAX.)
- ##m — DISTANCE (METER)
- EXIT — EXIT
- **FHC**: FIRE HOSE CABINET
  EX - FHC: EXISTING FIRE HOSE CABINET

LEGEND:

- EXISTING AREA (OUT OF RENOVATION SCOPE)
- EXISTING WALLS TO REMAIN
- NEW CONSTRUCTION
- AREA AFFECTED BY ABOVE CEILING WORK
- DENOTES NEW MILLWORK

16	ISSUED FOR ADDENDUM No.3			2024.07.05
15	ISSUED FOR ADDENDUM No.2			2024.06.21
14	RE-ISSUED AS PER BUILDING PERMIT COMMENTS			2024.06.19
12	ISSUED FOR TENDER			2024.06.07
11	ISSUED FOR PRE-TENDER			2024.05.27
9	ISSUED FOR BUILDING PERMIT			2024.03.28
8	ISSUED FOR STAGE 2.3 MOH SUBMISSION			2024.02.23
6	ISSUED FOR COSTING AND GGH REVIEW			2023.12.21
5	ISSUED FOR 60% CONSTRUCTION DOCUMENTS			2023.10.26
3	ISSUED FOR MOH STAGE 2.2 SUBMISSION			2023.06.09
2	ISSUED FOR DD COSTING AND CLIENT REVIEW			2023.03.29
Issued/Revision		By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	02/15/23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

GUELPH GENERAL HOSPITAL

Client/Project

GUELPH GENERAL HOSPITAL

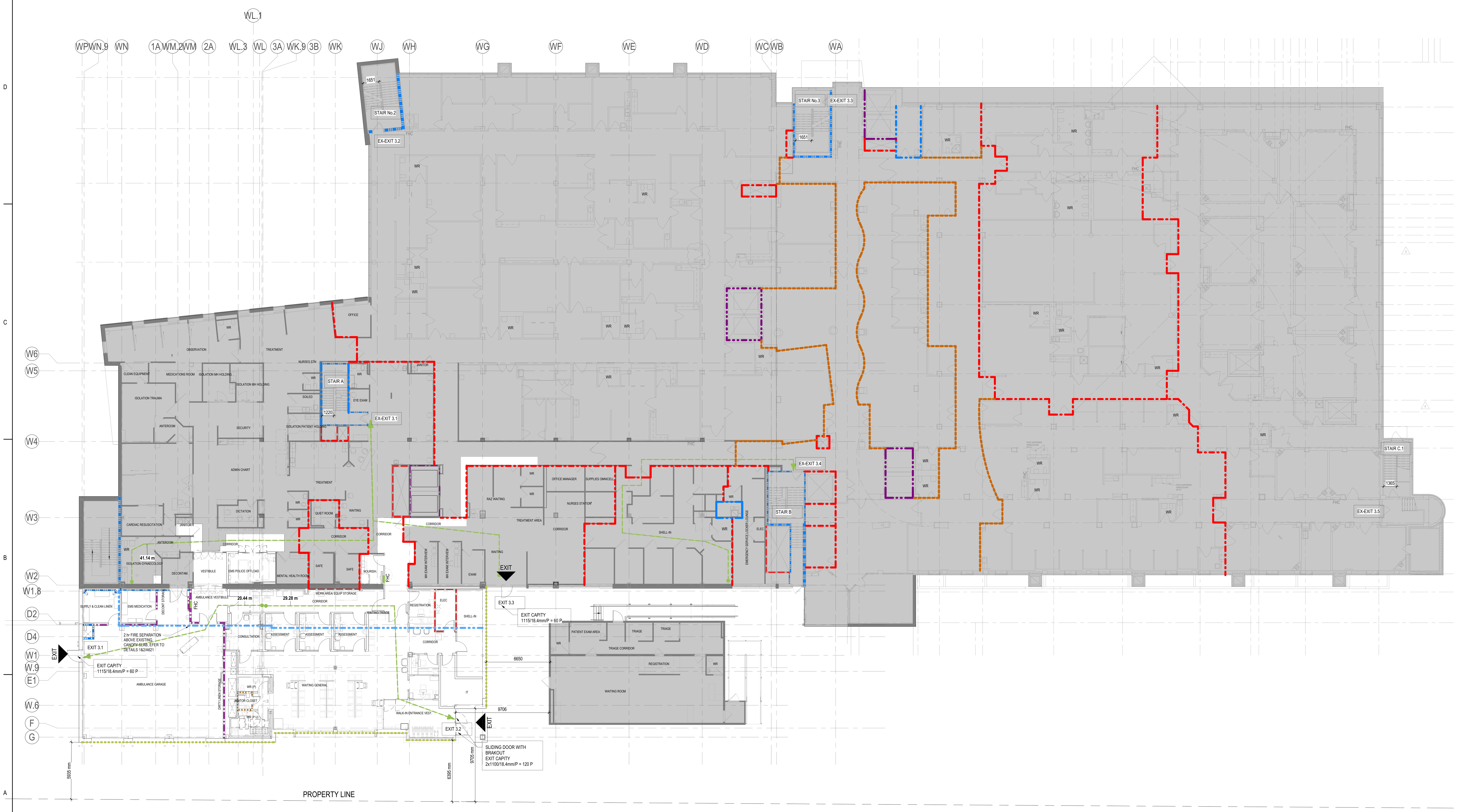
Emergency Mental Health and Addictions Services Relocation and Emergency Department Expansion

115 DELHI STREET, GUELPH ON N1E 4J4

Title

PHASE 1 - LEVEL 1 LIFE SAFETY PLAN & OBC MATRIX

Project No.		Scale	
140022022		As indicated	
Revision	Drawing No.		
16	A101		



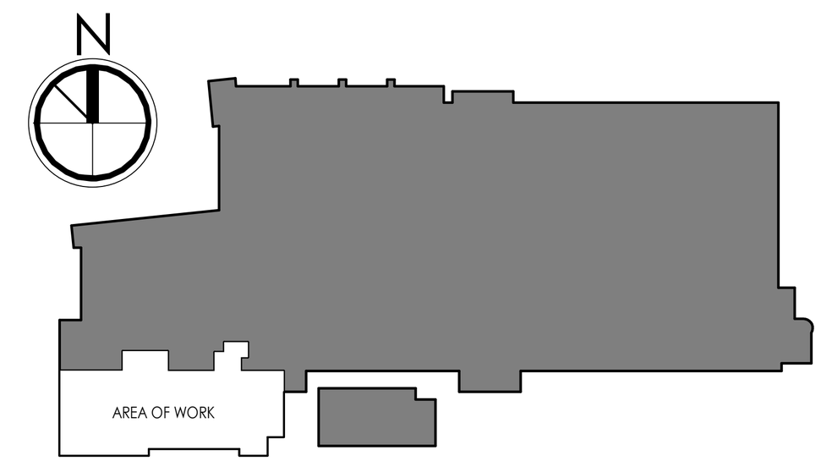
LEVEL 3 LIFE SAFETY PLAN
1 A103 1 : 150

Stantec

Stantec Architecture Ltd.
100-401 Wellington Street West
Toronto, M5V 1E7
Tel: (416) 596-6686 • www.stantec.com

Consultant

KEY PLAN



Notes

LIFE SAFETY PLAN LEGEND

- 0 HOUR SMOKE SEPARATION
- ¾ HOUR FIRE RATED SEPARATION
- 1 HOUR FIRE RATED SEPARATION
- 1.5 HOUR FIRE RATED SEPARATION
- 2 HOUR FIRE RATED SEPARATION
- EXIT ROUTE (45M MAX.)
- ##m DISTANCE (METER)
- EXIT
- **FHC**: FIRE HOSE CABINET
  EX - FHC: EXISTING FIRE HOSE CABINET

LEGEND:

- EXISTING AREA (OUT OF RENOVATION SCOPE)
- EXISTING WALLS TO REMAIN
- NEW CONSTRUCTION
- AREA AFFECTED BY ABOVE CEILING WORK
- DENOTES NEW MILLWORK

	Issued/Revision	By	Appd	YYYY.MM.DD
16	ISSUED FOR ADDENDUM No.3			2024.07.05
15	ISSUED FOR ADDENDUM No.2			2024.06.21
12	ISSUED FOR TENDER			2024.06.07
11	ISSUED FOR PRE-TENDER			2024.05.27
9	ISSUED FOR BUILDING PERMIT			2024.03.28
8	ISSUED FOR STAGE 2.3 MOH SUBMISSION			2024.02.23
6	ISSUED FOR COSTING AND GGH REVIEW			2023.12.21

File Name: N/A	Author	Designer	Checker	02/23/23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

GUELPH GENERAL HOSPITAL

Client/Project
GUELPH GENERAL HOSPITAL
Emergency Mental Health and Addictions Services Relocation and Emergency Department Expansion
115 DELHI STREET, GUELPH ON N1E 4J4

Title
PHASE 1 - LEVEL 3 LIFE SAFETY PLAN

Project No. 140022022
Scale As indicated
Revision 16
Drawing No. **A103**

2 AD011 — **PHASE 1 - LEVEL 1 DEMOLITION RCP**
1 : 100

1 AD011 — **PHASE 1 - LEVEL 1 DEMOLITION PLAN**
1 : 100

KEYNOTE LEGEND	
Key Value	Keynote Text
1	REMOVE EXISTING DOOR AND FRAME
2	REMOVE WALLS, DEVICES, CORNER GUARDS, AND WALL PROTECTION
3	REMOVE EXISTING VINYL FLOORING, FLOOR TILE, CARPET AND WALL BASE*, PATCH AND REPAIR FOR NEW FINISH
4	PATCH AND PREPARE WALLS
5	REMOVE EXISTING GYPSUM CEILING
6	REMOVE EXISTING ACT CEILING AND MECHANICAL AND ELECTRICAL FIXTURE AND DEVICES
7	REMOVE AND REINSTALL DOOR AT NEW LOCATION
8	REMOVE TOILET AND URINAL PARTITIONS
9	RE/RE EXISTING METAL STAIR AND RAILINGS, REFER TO A301.2 AND STRUCTURE FOR THE NEW OPENING
10	REMOVE MILLWORK
11	REMOVE AND REINSTALL CEILING TILES
12	SLAB DEPRESSION, REFER TO SLAB EDGE, AND STRUCTURE DWG
13	REMOVE EXISTING RAMP AT TRIAGE TRAILER
14	REMOVE EXISTING CURTAIN WALLS TWO BOTTOM IGU PANELS
15	REMOVE PORTION OF EXISTING MILLWORK AS SHOWN. PATCH AND REPAIR WALL.
16	CUT BACK EXISTING HANDRAIL TO CLEAR NEW WALL PROTECTION. REPAIR EXISTING WALL BASE.
17	REMOVE EXISTING HANDRAIL. REPAIR EXISTING WALL BASE.
18	REMOVE EXISTING DISPLAY CABINET AND WALL PANELS, PATCH AND PREPARE WALLS FOR NEW FINISH
19	PATCH AND REPAIR FLOOR FOR NEW FINISH
20	CHIP EXISTING CONCRETE PAD AND PREPARE FOR PAD EXTENSION
22	PATCH AND PREPARE WALLS
23	REMOVE MAIL BOXES
24	RELOCATE MILLWORK
25	CUT OPENING IN CONCRETE WALL FOR NEW DOOR, REFER TO STRUCTURE AND SLAB EDGE
26	REMOVE SCREEN
27	REMOVE DOOR THRESHOLD
28	OPENING IN CONCRETE WALL, REFER TO STRUCTURE
29	REMOVE SLAB ON GRADE AND CURBS
30	REMOVE CONCRETE WALLS, REFER TO STRUCTURE
31	REMOVE WALL, BRICK VENEER ON CONCRETE WALL, REFER TO STRUCTURE
32	REMOVE METAL SOFFIT AND MECHANICAL AND ELECTRICAL FIXTURE AND DEVICES
33	REMOVE CMU, REFER STRUCTURE
35	REMOVE STOREFRONT SYSTEM
36	REMOVE CONCRETE SLAB
37	REMOVE ROAD OR SIDEWALK ABOVE EXISTING SLAB
38	REMOVE GLASS BLOCK WALL
39	REMOVE WALL, BRICK VENEER ON CMU
40	REMOVE WALL, METAL CLADDING ON BRICK OR CONCRETE
41	REMOVE GWB SOFFIT AND MECHANICAL AND ELECTRICAL FIXTURE AND DEVICES
42	REMOVE EXISTING CEILING, REUSE ELECTRICAL AND MECHANICAL FIXTURES AND DEVICES

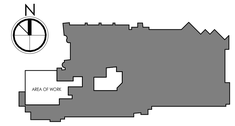
DEMOLITION GENERAL NOTES:

- DEMOLITION DIAGRAMS INDICATED ARE FOR REFERENCE PURPOSES ONLY AND MAY NOT INCLUDE THE FULL EXTENT OF THE DEMOLITION SCOPE OF WORK.
- PROVIDE AND MAINTAIN CONTINUATION OF FIRE PROTECTION AND FIRE RATED ASSEMBLIES IN EXISTING BUILDING.
- MAINTAIN AND PROTECT EXISTING SERVICES REQUIRED FOR LIFE SAFETY DURING DEMOLITION AND CONSTRUCTION.
- ANY WORK DISTURBING THE HOSPITAL NORMAL OPERATION TO BE COORDINATED WITH GGH IN ADVANCE.
- COORDINATE EXTENT AND LOCATION OF DEMOLITION WITH DOCUMENTS BY OTHER DISCIPLINES PRIOR TO COMMENCING ANY WORK.
- REMOVE EXISTING INTERIOR PARTITIONS AND DOORS AS SHOWN IN THE DRAWINGS (TYP.)
- PROVIDE NECESSARY TEMPORARY BRACING AND SHORING AS REQUIRED TO COMPLETE ALL WORK.
- REMOVE EXISTING INTERIOR PARTITIONS INCLUDING, CMU WALL, DRYWALL, SECURITY PARTITIONS, GLAZED PARTITIONS AND CHAIN LINK WALLS TO UNDERSIDE OF STRUCTURE (TYP.)
- DOORS AND SCREENS: DOORS TO BE REMOVED SHOWN DASHED. REMOVE EXISTING DOOR, HM FRAME AND/OR SIDELIGHT. TURNOVER ALL ASSOCIATED HARDWARE. SECURITY ETC. TO OWNER.
- FLOOR (FINISHES): REMOVE EXISTING FLOORING IN ALL AREAS TO RECEIVE NEW FLOORING MATERIAL. REFER TO ROOM AND FINISH SCHEDULES.
- CEILINGS: UNLESS NOTED OTHERWISE, IN AREAS OF NEW CEILINGS REMOVE ALL EXISTING CEILINGS AND BULKHEADS COMPLETE WITH SUPPORT SYSTEMS, LIGHTING AND ACCESSORIES. REFER TO REFLECTED CEILING PLANS AND ROOM AND FINISH SCHEDULES. REFER TO ELEC. DRAWINGS FOR LIGHT FIXTURES TO REMAIN.
  REMOVE BULKHEADS ASSOCIATED WITH MILLWORK CABINET REMOVAL.
- REMOVE EXISTING VIDEO CAMERAS & RETURN TO OWNER.
- REMOVE AND RETAIN EXISTING MILLWORK, FURNITURE AND EQUIPMENT IN DEMOLISHED AREAS (TYP.) TO BE PACKED TURNED OVER TO THE OWNER.
- MISC. ITEMS: REMOVE AND RETURN TO OWNER ALL EXISTING SIGNAGE, MIRRORS, FIRE EXTINGUISHERS, TACKBOARDS, WHITEBOARDS, PAMPHLET RACKS AND OTHER FURNISHINGS NOT SCHEDULED FOR DISPOSAL. REMOVE AND DISPOSE OF EXISTING FIRE ALARM DEVICES, CARD READERS & NURSE CALL DEVICES GENERAL CONTRACTOR TO COORDINATE DEMOLITION OF CEILINGS AND REDUNDANT MECHANICAL SERVICES WITH EXISTING SERVICES TO REMAIN. PROVIDE IMMEDIATE PROTECTION OF OPENINGS IN FIRE RATED ENCLOSURE DUE TO PROTECT ACCESS OF FIRE TO FLOOR LEVEL ABOVE.
- ADEQUATELY COVER ALL EXISTING SLAB OPENINGS OR NEW SLAB OPENINGS RESULTING FROM DEMOLITION, THE COVER MUST BE CAPABLE OF CARRYING LIFE LOADS AND BE SAFE AND SECURED (TYP.)
- REMOVE AND RETAIN ALL THE MECHANICAL, PLUMBING AND ELECTRICAL FIXTURES IN DEMOLISHED AREAS (TYP.) TO BE TURNED OVER TO THE OWNER.
- SCAN FLOOR SLABS AND OBTAIN STRUCTURAL APPROVAL PRIOR TO DRILLING/CORING
- ALL FLOOR SLABS HAVING OPENINGS WITH BOXES FOR ABANDONED CABLING DISTRIBUTION TO BE FILLED WITH CONCRETE
- PROTECT EXISTING FINISHES, EQUIPMENT AND SYSTEMS FROM DAMAGE DURING DEMOLITION AND CONSTRUCTION.
- REFER TO S,M,E DEMOLITION DRAWINGS FOR EXTENT OF S,M,E DEMOLITION.
- REFER TO A,S,M,E FOR EXTENT OF NEW & RENOVATION CONSTRUCTION.
- DECOMMISSIONING OF EQUIPMENT AND SERVICES TO BE COORDINATED WITH THE HOSPITAL.
- ANY ANTICIPATED SHUTDOWNS OF SERVICES OR IMPACTS TO THE EXISTING HOSPITAL'S 'DAY-TO-DAY' SERVICES ARE TO BE COORDINATED WITH THE HOSPITAL IN ADVANCE OF SAID WORK COMMENCING.

Stantec

Stantec Architecture Ltd.
100-401 Wellington Street West
Toronto, M5V 1E7
Tel: (416) 596-6686 • www.stantec.com

Consultant



NOTES

DEMOLITION LEGEND:

- SCOPE BOUNDARY
- AREA IS NOT IN SCOPE
- EXISTING ITEM TO REMAIN
- EXISTING WALL & DOOR TO REMAIN
- DENOTES DEMOLITION
- DENOTES DEMOLITION OF EXISTING WALL, DOOR
- DENOTES DEMOLITION OF EXISTING MECHANICAL DIFFUSERS
- DENOTES DEMOLITION OF EXISTING LIGHT FIXTURES
- EXISTING ACT CEILING TO BE DEMOLISHED EX
- EXISTING DRYWALL CEILING TO BE DEMOLISHED

16	ISSUED FOR ADDENDUM No.3		2024.07.05
12	ISSUED FOR TENDER		2024.06.07
11	ISSUED FOR PRE-TENDER		2024.05.27
9	ISSUED FOR BUILDING PERMIT		2024.03.28
8	ISSUED FOR STAGE 2.3 MOH SUBMISSION		2024.02.23
6	ISSUED FOR COSTING AND GGH REVIEW		2023.12.21
5	ISSUED FOR 60% CONSTRUCTION DOCUMENTS		2023.10.26
3	ISSUED FOR MOH STAGE 2.2 SUBMISSION		2023.06.09
2	ISSUED FOR DD COSTING AND CLIENT REVIEW		2023.03.29
1	ISSUED FOR 100% SCHEMATIC DESIGN		2022.12.02
Issued/Revision		By	Appd. YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	07/12/22
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

GUELPH GENERAL HOSPITAL

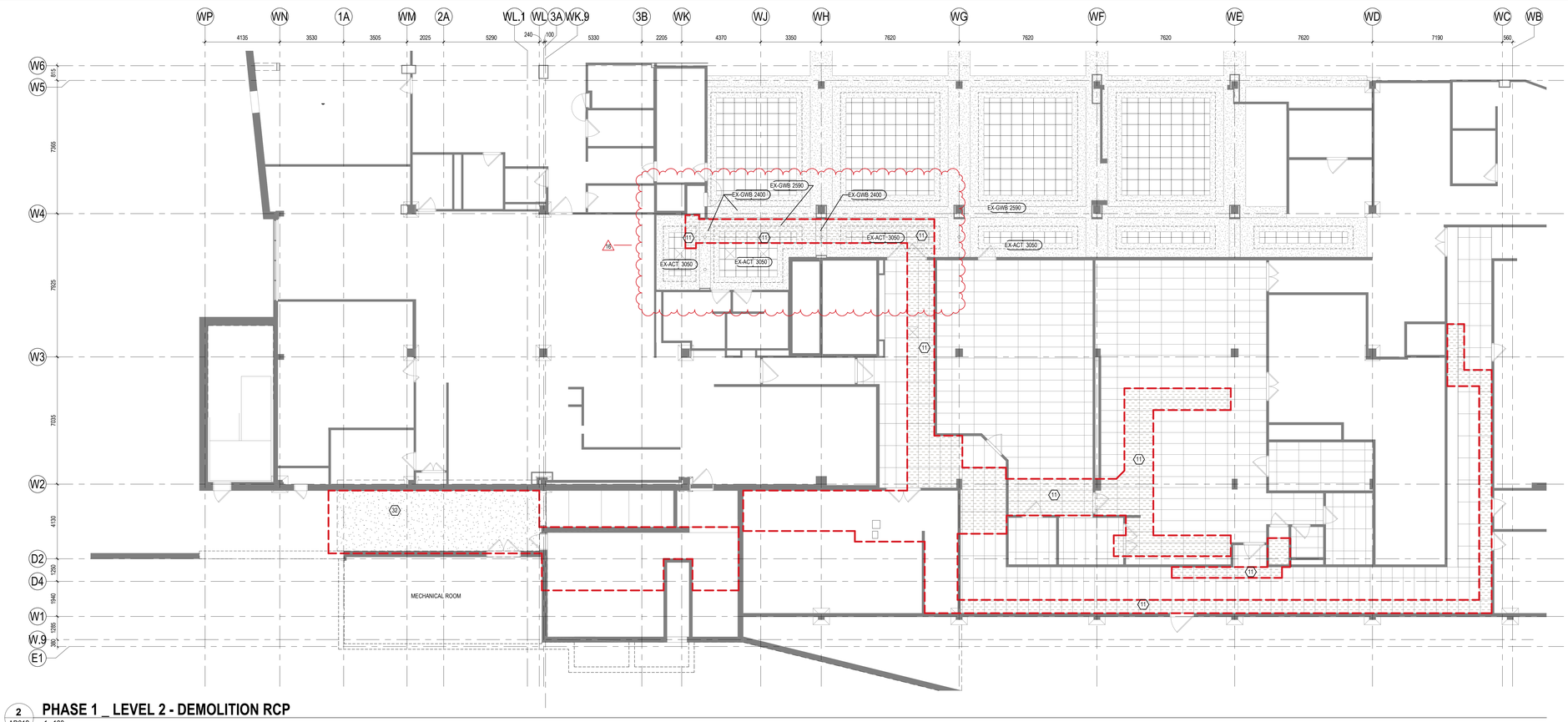
Client/Project
GUELPH GENERAL HOSPITAL

Emergency Mental Health and Addictions Services Relocation and Emergency Department Expansion

115 DELHI STREET, GUELPH ON N1E 4J4

Title
PHASE 1 - LEVEL 1 DEMOLITION

Project No.	Scale
140022022	As indicated
Revision	Drawing No.
16	AD011



2 PHASE 1 _ LEVEL 2 - DEMOLITION RCP

AD012 1 : 100

1 PHASE 1 - LEVEL 2 DEMOLITION PLAN

AD012 1 : 100

KEYNOTE LEGEND	
Key Value	Keynote Text
1	REMOVE EXISTING DOOR AND FRAME
2	REMOVE WALLS, DEVICES, CORNER GUARDS, AND WALL PROTECTION
3	REMOVE EXISTING VINYL FLOORING, FLOOR TILE, CARPET AND WALL BASE*. PATCH AND REPAIR FOR NEW FINISH
4	PATCH AND PREPARE WALLS
5	REMOVE EXISTING GYPSUM CEILING
6	REMOVE EXISTING ACT CEILING AND MECHANICAL AND ELECTRICAL FIXTURE AND DEVICES
7	REMOVE AND REINSTALL DOOR AT NEW LOCATION
8	REMOVE TOILET AND URINAL PARTITIONS
9	RE/RE EXISTING METAL STAIR AND RAILINGS, REFER TO A301.2 AND STRUCTURE FOR THE NEW OPENING
10	REMOVE MILLWORK
11	REMOVE AND REINSTALL CEILING TILES
12	SLAB DEPRESSION, REFER TO SLAB EDGE, AND STRUCTURE DWG
13	REMOVE EXISTING RAMP AT TRIAGE TRAILER
14	REMOVE EXISTING CURTAIN WALLS TWO BOTTOM IGU PANELS
15	REMOVE PORTION OF EXISTING MILLWORK AS SHOWN. PATCH AND REPAIR WALL.
16	CUT BACK EXISTING HANDRAIL TO CLEAR NEW WALL PROTECTION. REPAIR EXISTING WALL BASE.
17	REMOVE EXISTING HANDRAIL. REPAIR EXISTING WALL BASE
18	REMOVE EXISTING DISPLAY CABINET AND WALL PANELS, PATCH AND PREPARE WALLS FOR NEW FINISH
19	PATCH AND REPAIR FLOOR FOR NEW FINISH
20	CHIP EXISTING CONCRETE PAD AND PREPARE FOR PAD EXTENSION
22	PATCH AND PREPARE WALLS
23	REMOVE MAIL BOXES
24	RELOCATE MILLWORK
25	CUT OPENING IN CONCRETE WALL FOR NEW DOOR, REFER TO STRUCTURE AND SLAB EDGE
26	REMOVE SCREEN
27	REMOVE DOOR THRESHOLD
28	OPENING IN CONCRETE WALL, REFER TO STRUCTURE
29	REMOVE SLAB ON GRADE AND CURBS
30	REMOVE CONCRETE WALLS, REFER TO STRUCTURE
31	REMOVE WALL, BRICK VENEER ON CONCRETE WALL, REFER TO STRUCTURE
32	REMOVE METAL SOFFIT AND MECHANICAL AND ELECTRICAL FIXTURE AND DEVICES
33	REMOVE CMU, REFER STRUCTURE
35	REMOVE STOREFRONT SYSTEM
36	REMOVE CONCRETE SLAB
37	REMOVE ROAD OR SIDEWALK ABOVE EXISTING SLAB
38	REMOVE GLASS BLOCK WALL
39	REMOVE WALL, BRICK VENEER ON CMU
40	REMOVE WALL, METAL CLADDING ON BRICK OR CONCRETE
41	REMOVE GWB SOFFIT AND MECHANICAL AND ELECTRICAL FIXTURE AND DEVICES
42	REMOVE EXISTING CEILING, REUSE ELECTRICAL AND MECHANICAL FIXTURES AND DEVICES

DEMOLITION GENERAL NOTES:

- DEMOLITION DIAGRAMS INDICATED ARE FOR REFERENCE PURPOSES ONLY AND MAY NOT INCLUDE THE FULL EXTENT OF THE DEMOLITION SCOPE OF WORK.
- PROVIDE AND MAINTAIN CONTINUATION OF FIRE PROTECTION AND FIRE RATED ASSEMBLIES IN EXISTING BUILDING.
- MAINTAIN AND PROTECT EXISTING SERVICES REQUIRED FOR LIFE SAFETY DURING DEMOLITION AND CONSTRUCTION.
- ANY WORK DISTURBING THE HOSPITAL NORMAL OPERATION TO BE COORDINATED WITH GGH IN ADVANCE.
- COORDINATE EXTENT AND LOCATION OF DEMOLITION WITH DOCUMENTS BY OTHER DISCIPLINES PRIOR TO COMMENCING ANY WORK.
- REMOVE EXISTING INTERIOR PARTITIONS AND DOORS AS SHOWN IN THE DRAWINGS (TYP.)
- PROVIDE NECESSARY TEMPORARY BRACING AND SHORING AS REQUIRED TO COMPLETE ALL WORK.
- REMOVE EXISTING INTERIOR PARTITIONS INCLUDING, CMU WALL, DRYWALL, SECURITY PARTITIONS, GLAZED PARTITIONS AND CHAIN LINK WALLS TO UNDERSIDE OF STRUCTURE (TYP.)
- DOORS AND SCREENS: DOORS TO BE REMOVED SHOWN DASHED. REMOVE EXISTING DOOR, HM FRAME AND/OR SIDELIGHT. TURNOVER ALL ASSOCIATED HARDWARE, SECURITY ETC. TO OWNER.
- FLOOR (FINISHES): REMOVE EXISTING FLOORING IN ALL AREAS TO RECEIVE NEW FLOORING MATERIAL. REFER TO ROOM AND FINISH SCHEDULES.
- CEILINGS: UNLESS NOTED OTHERWISE, IN AREAS OF NEW CEILINGS REMOVE ALL EXISTING CEILINGS AND BULKHEADS COMPLETE WITH SUPPORT SYSTEMS, LIGHTING AND ACCESSORIES. REFER TO REFLECTED CEILING PLANS AND ROOM AND FINISH SCHEDULES. REFER TO ELEC. DRAWINGS FOR LIGHT FIXTURES TO REMAIN.
  REMOVE BULKHEADS ASSOCIATED WITH MILLWORK CABINET REMOVAL.
- REMOVE EXISTING VIDEO CAMERAS & RETURN TO OWNER.
- REMOVE AND RETAIN EXISTING MILLWORK, FURNITURE AND EQUIPMENT IN DEMOLISHED AREAS (TYP.) TO BE PACKED TURNED OVER TO THE OWNER.
- MISC. ITEMS: REMOVE AND RETURN TO OWNER ALL EXISTING SIGNAGE, MIRRORS, FIRE EXTINGUISHERS, TACKBOARDS, WHITEBOARDS, PAMPHLET RACKS AND OTHER FURNISHINGS NOT SCHEDULED FOR DISPOSAL. REMOVE AND DISPOSE OF EXISTING FIRE ALARM DEVICES, CARD READERS & NURSE CALL DEVICES GENERAL CONTRACTOR TO COORDINATE DEMOLITION OF CEILINGS AND REDUNDANT MECHANICAL SERVICES WITH EXISTING SERVICES TO REMAIN. PROVIDE IMMEDIATE PROTECTION OF OPENINGS IN FIRE RATED ENCLOSURE DUE TO PROTECT ACCESS OF FIRE TO FLOOR LEVEL ABOVE.
- ADEQUATELY COVER ALL EXISTING SLAB OPENINGS OR NEW SLAB OPENINGS RESULTING FROM DEMOLITION. THE COVER MUST BE CAPABLE OF CARRYING LIFE LOADS AND BE SAFE AND SECURED (TYP.)
- REMOVE AND RETAIN ALL THE MECHANICAL, PLUMBING AND ELECTRICAL FIXTURES IN DEMOLISHED AREAS (TYP.) TO BE TURNED OVER TO THE OWNER.
- SCAN FLOOR SLABS AND OBTAIN STRUCTURAL APPROVAL PRIOR TO DRILLING/CORING
- ALL FLOOR SLABS HAVING OPENINGS WITH BOXES FOR ABANDONED CABLING DISTRIBUTION TO BE FILLED WITH CONCRETE
- PROTECT EXISTING FINISHES, EQUIPMENT AND SYSTEMS FROM DAMAGE DURING DEMOLITION AND CONSTRUCTION.
- REFER TO S,M,E DEMOLITION DRAWINGS FOR EXTENT OF S,M,E DEMOLITION.
- REFER TO A,S,M,E FOR EXTENT OF NEW & RENOVATION CONSTRUCTION.
- DECOMMISSIONING OF EQUIPMENT AND SERVICES TO BE COORDINATED WITH THE HOSPITAL.
- ANY ANTICIPATED SHUTDOWNS OF SERVICES OR IMPACTS TO THE EXISTING HOSPITAL'S 'DAY-TO-DAY' SERVICES ARE TO BE COORDINATED WITH THE HOSPITAL IN ADVANCE OF SAID WORK COMMENCING.

ABOVE CEILING WORK:

- ANY WORK DISTURBING THE HOSPITAL NORMAL OPERATION TO BE COORDINATED WITH GGH IN ADVANCE.
- USE PHOTOS AND VIDEO TO DOCUMENT EXISTING CONDITIONS BEFORE WORK STARTS.
- REPLACE ANY DAMAGED TILES AND FIXTURES TO MATCH THE EXISTING TYPE AND MODEL. IF TYPE AND MODEL ARE NOT AVAILABLE, PROVIDE AN EQUAL ALTERNATIVE FOR APPROVAL
- PROTECT EXISTING FINISHES, EQUIPMENT AND SYSTEMS FROM DAMAGE DURING DEMOLITION AND CONSTRUCTION.

Stantec

Stantec Architecture Ltd.
100-401 Wellington Street West
Toronto, M5V 1E7
Tel: (416) 596-6686 • www.stantec.com

Consultant

KEY PLAN

Note **DEMOLITION LEGEND:**

- SCOPE BOUNDARY
- AREA IS NOT IN SCOPE
- EXISTING ITEM TO REMAIN
- EXISTING WALL & DOOR TO REMAIN
- DENOTES DEMOLITION
- DENOTES DEMOLITION OF EXISTING WALL, DOOR
- DENOTES DEMOLITION OF EXISTING MECHANICAL DIFFUSERS
- DENOTES DEMOLITION OF EXISTING LIGHT FIXTURES
- EXISTING ACT CEILING TO BE DEMOLISHED EX
- EXISTING DRYWALL CEILING TO BE DEMOLISHED

16	ISSUED FOR ADDENDUM No.3			2024.07.05
12	ISSUED FOR TENDER			2024.06.07
11	ISSUED FOR PRE-TENDER			2024.05.27
9	ISSUED FOR BUILDING PERMIT			2024.03.28
8	ISSUED FOR STAGE 2.3 MOH SUBMISSION			2024.02.23
6	ISSUED FOR COSTING AND GGH REVIEW			2023.12.21
5	ISSUED FOR 40% CONSTRUCTION DOCUMENTS			2023.10.26
3	ISSUED FOR MOH STAGE 2.2 SUBMISSION			2023.06.09
2	ISSUED FOR DD COSTING AND CLIENT REVIEW			2023.03.29
Issued/Revision		By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	03/17/23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

GUELPH GENERAL HOSPITAL

Client/Project

GUELPH GENERAL HOSPITAL

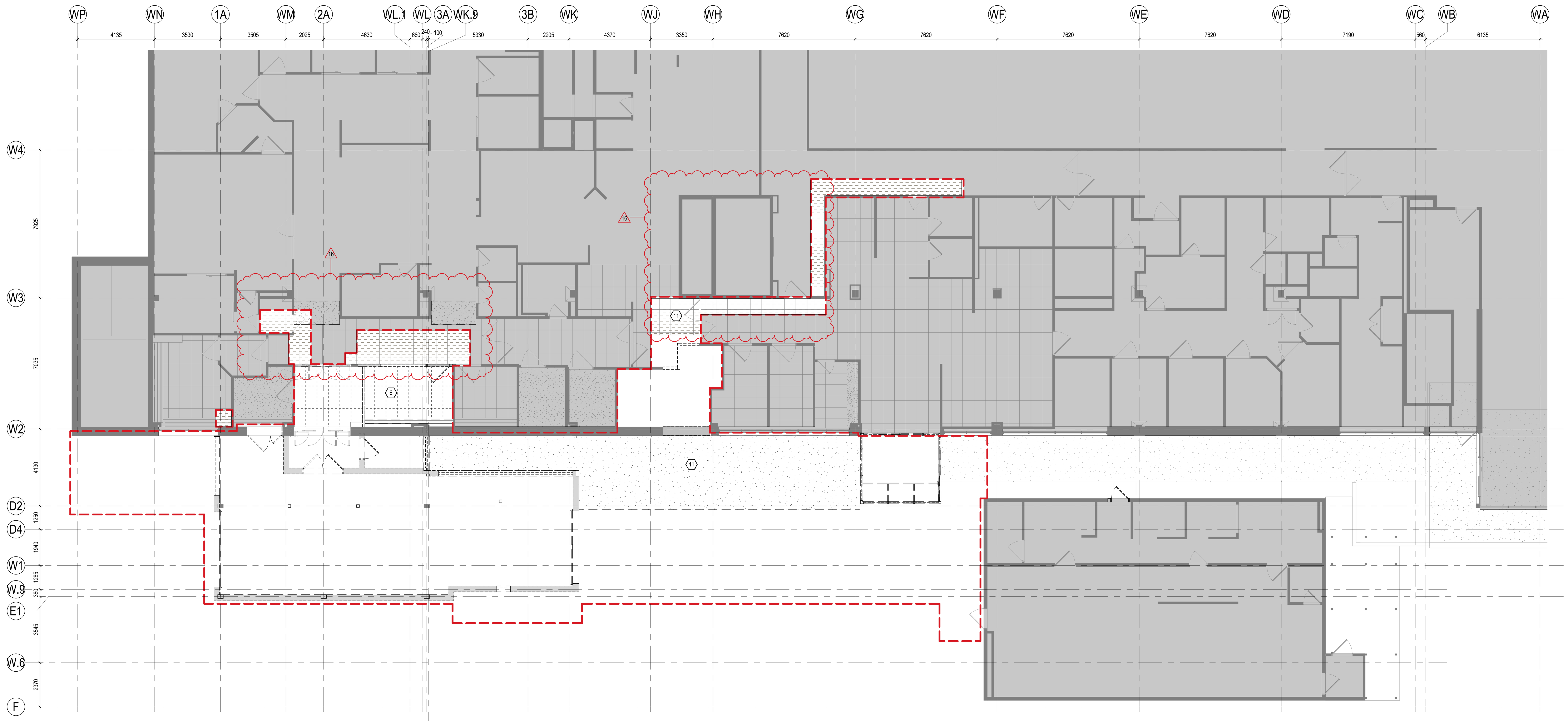
Emergency Mental Health and Addictions Services Relocation and Emergency Department Expansion

115 DELHI STREET, GUELPH ON N1E 4J4

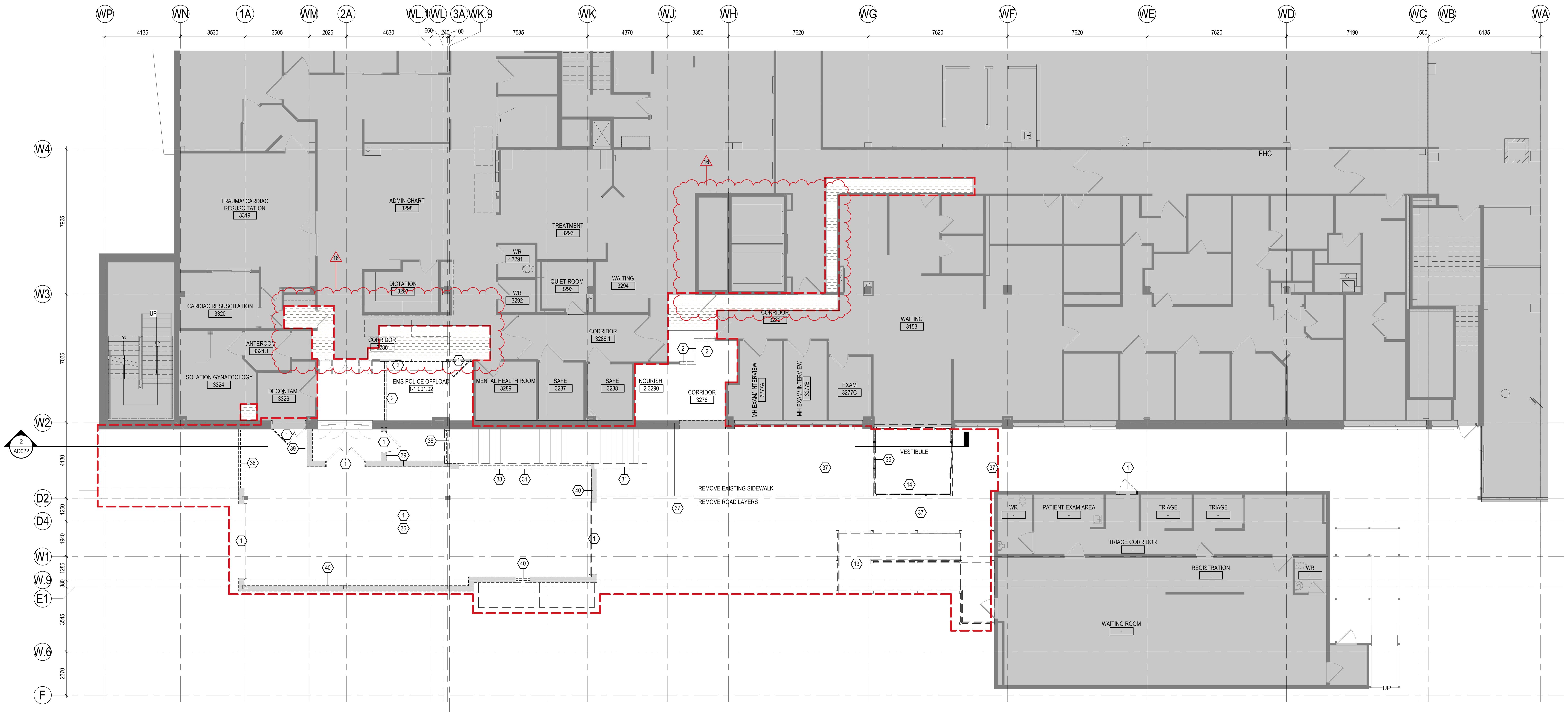
Title

PHASE 1 - LEVEL 2 DEMOLITION

Project No.	Scale
140022022	As indicated
Revision	Drawing No.
16	AD012



2 AD013 PHASE 1 _ LEVEL 3 DEMOLITION RCP
1 : 100



1 AD013 PHASE 3 _ LEVEL 3 DEMOLITION PLAN
1 : 100

KEYNOTE LEGEND

Key Value	Keynote Text
1	REMOVE EXISTING DOOR AND FRAME
2	REMOVE WALL/S, DEVICES, CORNER GUARDS, AND WALL PROTECTION
3	REMOVE EXISTING VINYL FLOORING, FLOOR TILE, CARPET AND WALL BASE", PATCH AND REPAIR FOR NEW FINISH
4	PATCH AND PREPARE WALLS
5	REMOVE EXISTING GYPSUM CEILING
6	REMOVE EXISTING ACT CEILING AND MECHANICAL AND ELECTRICAL FIXTURE AND DEVICES
7	REMOVE AND REINSTALL DOOR AT NEW LOCATION
8	REMOVE TOILET AND URINAL PARTITIONS
9	RE/RE EXISTING METAL STAIR AND RAILINGS, REFER TO A301.2 AND STRUCTURE FOR THE NEW OPENING
10	REMOVE MILLWORK
11	REMOVE AND REINSTALL CEILING TILES
12	SLAB DEPRESSION, REFER TO SLAB EDGE, AND STRUCTURE DWG
13	REMOVE EXISTING RAMP AT TRIAGE TRAILER
14	REMOVE EXISTING CURTAIN WALLS TWO BOTTOM IGU PANELS
15	REMOVE PORTION OF EXISTING MILLWORK AS SHOWN. PATCH AND REPAIR WALL.
16	CUT BACK EXISTING HANDRAIL TO CLEAR NEW WALL PROTECTION. REPAIR EXISTING WALL BASE.
17	REMOVE EXISTING HANDRAIL. REPAIR EXISTING WALL BASE.
18	REMOVE EXISTING DISPLAY CABINET AND WALL PANELS, PATCH AND PREPARE WALLS FOR NEW FINISH
19	PATCH AND REPAIR FLOOR FOR NEW FINISH
20	CHIP EXISTING CONCRETE PAD AND PREPARE FOR PAD EXTENSION
22	PATCH AND PREPARE WALLS
23	REMOVE MAIL BOXES
24	RELOCATE MILLWORK
25	CUT OPENING IN CONCRETE WALL FOR NEW DOOR, REFER TO STRUCTURE AND SLAB EDGE
26	REMOVE SCREEN
27	REMOVE DOOR THRESHOLD
28	OPENING IN CONCRETE WALL, REFER TO STRUCTURE
29	REMOVE SLAB ON GRADE AND CURBS
30	REMOVE CONCRETE WALLS, REFER TO STRUCTURE
31	REMOVE WALL, BRICK VENEER ON CONCRETE WALL, REFER TO STRUCTURE
32	REMOVE METAL SOFFIT AND MECHANICAL AND ELECTRICAL FIXTURE AND DEVICES
33	REMOVE CMU, REFER STRUCTURE
35	REMOVE STOREFRONT SYSTEM
36	REMOVE CONCRETE SLAB
37	REMOVE ROAD OR SIDEWALK ABOVE EXISTING SLAB
38	REMOVE GLASS BLOCK WALL
39	REMOVE WALL, BRICK VENEER ON CMU
40	REMOVE WALL, METAL CLADDING ON BRICK OR CONCRETE
41	REMOVE GWB SOFFIT AND MECHANICAL AND ELECTRICAL FIXTURE AND DEVICES
42	REMOVE EXISTING CEILING, REUSE ELECTRICAL AND MECHANICAL FIXTURES AND DEVICES

DEMOLITION GENERAL NOTES:

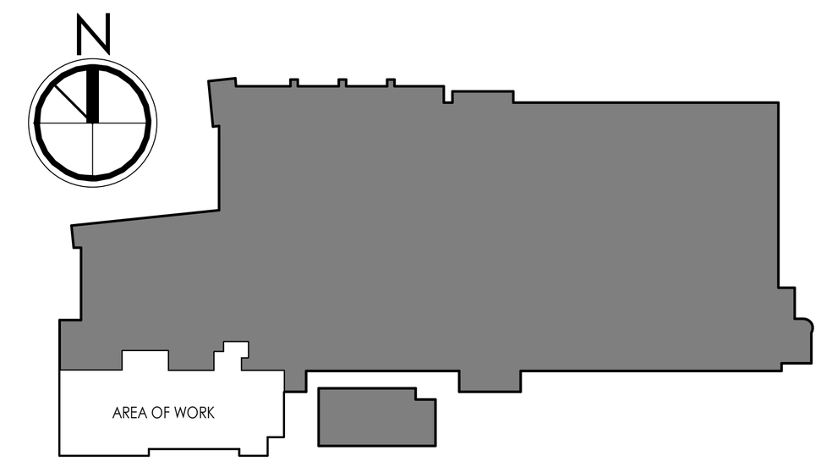
- DEMOLITION DIAGRAMS INDICATED ARE FOR REFERENCE PURPOSES ONLY AND MAY NOT INCLUDE THE FULL EXTENT OF THE DEMOLITION SCOPE OF WORK.
- PROVIDE AND MAINTAIN CONTINUATION OF FIRE PROTECTION AND FIRE RATED ASSEMBLIES IN EXISTING BUILDING.
- MAINTAIN AND PROTECT EXISTING SERVICES REQUIRED FOR LIFE SAFETY DURING DEMOLITION AND CONSTRUCTION.
- ANY WORK DISTURBING THE HOSPITAL NORMAL OPERATION TO BE COORDINATED WITH GGH IN ADVANCE.
- COORDINATE EXTENT AND LOCATION OF DEMOLITION WITH DOCUMENTS BY OTHER DISCIPLINES PRIOR TO COMMENCING ANY WORK.
- REMOVE EXISTING INTERIOR PARTITIONS AND DOORS AS SHOWN IN THE DRAWINGS (TYP.)
- PROVIDE NECESSARY TEMPORARY BRACING AND SHORING AS REQUIRED TO COMPLETE ALL WORK.
- REMOVE EXISTING INTERIOR PARTITIONS INCLUDING, CMU WALL, DRYWALL, SECURITY PARTITIONS, GLAZED PARTITIONS AND CHAIN LINK WALLS TO UNDERSIDE OF STRUCTURE (TYP.)
- DOORS AND SCREENS: DOORS TO BE REMOVED SHOWN DASHED. REMOVE EXISTING DOOR, HM FRAME AND/OR SIDELIGHT. TURNOVER ALL ASSOCIATED HARDWARE, SECURITY ETC. TO OWNER..
- FLOOR (FINISHES): REMOVE EXISTING FLOORING IN ALL AREAS TO RECEIVE NEW FLOORING MATERIAL. REFER TO ROOM AND FINISH SCHEDULES.
- CEILINGS: UNLESS NOTED OTHERWISE, IN AREAS OF NEW CEILINGS REMOVE ALL EXISTING CEILINGS AND BULKHEADS COMPLETE WITH SUPPORT SYSTEMS, LIGHTING AND ACCESSORIES. REFER TO REFLECTED CEILING PLANS AND ROOM AND FINISH SCHEDULES. REFER TO ELEC. DRAWINGS FOR LIGHT FIXTURES TO REMAIN.
  REMOVE BULKHEADS ASSOCIATED WITH MILLWORK CABINET REMOVAL.
- REMOVE EXISTING VIDEO CAMERAS & RETURN TO OWNER.
- REMOVE AND RETAIN EXISTING MILLWORK, FURNITURE AND EQUIPMENT IN DEMOLISHED AREAS (TYP.) TO BE PACKED TURNED OVER TO THE OWNER.
- MISC. ITEMS: REMOVE AND RETURN TO OWNER ALL EXISTING SIGNAGE, MIRRORS, FIRE EXTINGUISHERS, TACKBOARDS, WHITEBOARDS, PAMPHLET RACKS AND OTHER FURNISHINGS NOT SCHEDULED FOR DISPOSAL. REMOVE AND DISPOSE OF EXISTING FIRE ALARM DEVICES, CARD READERS & NURSE CALL DEVICES GENERAL CONTRACTOR TO COORDINATE DEMOLITION OF CEILINGS AND REDUNDANT MECHANICAL SERVICES WITH EXISTING SERVICES TO REMAIN. PROVIDE IMMEDIATE PROTECTION OF OPENINGS IN FIRE RATED ENCLOSURE DUE TO PROTECT ACCESS OF FIRE TO FLOOR LEVEL ABOVE.
- ADEQUATELY COVER ALL EXISTING SLAB OPENINGS OR NEW SLAB OPENINGS RESULTING FROM DEMOLITION, THE COVER MUST BE CAPABLE OF CARRYING LIFE LOADS AND BE SAFE AND SECURED (TYP.)
- REMOVE AND RETAIN ALL THE MECHANICAL, PLUMBING AND ELECTRICAL FIXTURES IN DEMOLISHED AREAS (TYP.) TO BE TURNED OVER TO THE OWNER.
- SCAN FLOOR SLABS AND OBTAIN STRUCTURAL APPROVAL PRIOR TO DRILLING/CORING
- ALL FLOOR SLABS HAVING OPENINGS WITH BOXES FOR ABANDONED CABLING DISTRIBUTION TO BE FILLED WITH CONCRETE
- PROTECT EXISTING FINISHES, EQUIPMENT AND SYSTEMS FROM DAMAGE DURING DEMOLITION AND CONSTRUCTION.
- REFER TO S,M,E DEMOLITION DRAWINGS FOR EXTENT OF S,M,E DEMOLITION.
- REFER TO A,S,M,E FOR EXTENT OF NEW & RENOVATION CONSTRUCTION.
- DECOMMISSIONING OF EQUIPMENT AND SERVICES TO BE COORDINATED WITH THE HOSPITAL.
- ANY ANTICIPATED SHUTDOWNS OF SERVICES OR IMPACTS TO THE EXISTING HOSPITAL'S 'DAY-TO-DAY' SERVICES ARE TO BE COORDINATED WITH THE HOSPITAL IN ADVANCE OF SAID WORK COMMENCING.

Stantec

Stantec Architecture Ltd.
100-401 Wellington Street West
Toronto, M5V 1E7
Tel: (416) 596-6686 • www.stantec.com

Consultant

KEY PLAN



Notes

DEMOLITION LEGEND:

- SCOPE BOUNDARY
- AREA IS NOT IN SCOPE
- EXISTING ITEM TO REMAIN
- EXISTING WALL & DOOR TO REMAIN
- DENOTES DEMOLITION
- DENOTES DEMOLITION OF EXISTING WALL, DOOR
- DENOTES DEMOLITION OF EXISTING MECHANICAL DIFFUSERS
- DENOTES DEMOLITION OF EXISTING LIGHT FIXTURES
- EXISTING ACT CEILING TO BE DEMOLISHED EX
- EXISTING DRYWALL CEILING TO BE DEMOLISHED

ABOVE CEILING WORK:

- ANY WORK DISTURBING THE HOSPITAL NORMAL OPERATION TO BE COORDINATED WITH GGH IN ADVANCE.
- USE PHOTOS AND VIDEO TO DOCUMENT EXISTING CONDITIONS BEFORE WORK STARTS.
- REPLACE ANY DAMAGED TILES AND FIXTURES TO MATCH THE EXISTING TYPE AND MODEL. IF TYPE AND MODEL ARE NOT AVAILABLE, PROVIDE AN EQUAL ALTERNATIVE FOR APPROVAL.
- PROTECT EXISTING FINISHES, EQUIPMENT AND SYSTEMS FROM DAMAGE DURING DEMOLITION AND CONSTRUCTION.

Issued/Revision	By	Appd	YYYY.MM.DD
16 ISSUED FOR ADDENDUM No.3			2024.07.05
12 ISSUED FOR TENDER			2024.06.07
11 ISSUED FOR PRE-TENDER			2024.05.27
9 ISSUED FOR BUILDING PERMIT			2024.03.28
8 ISSUED FOR STAGE 2.3 MOH SUBMISSION			2024.02.23
6 ISSUED FOR COSTING AND GGH REVIEW			2023.12.21
5 ISSUED FOR 60% CONSTRUCTION DOCUMENTS			2023.10.26
3 ISSUED FOR MOH STAGE 2.2 SUBMISSION			2023.06.09
2 ISSUED FOR DD COSTING AND CLIENT REVIEW			2023.03.29
1 ISSUED FOR 100% SCHEMATIC DESIGN			2022.12.02

File Name: N/A	Author	Designer	Checker	06/30/22
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

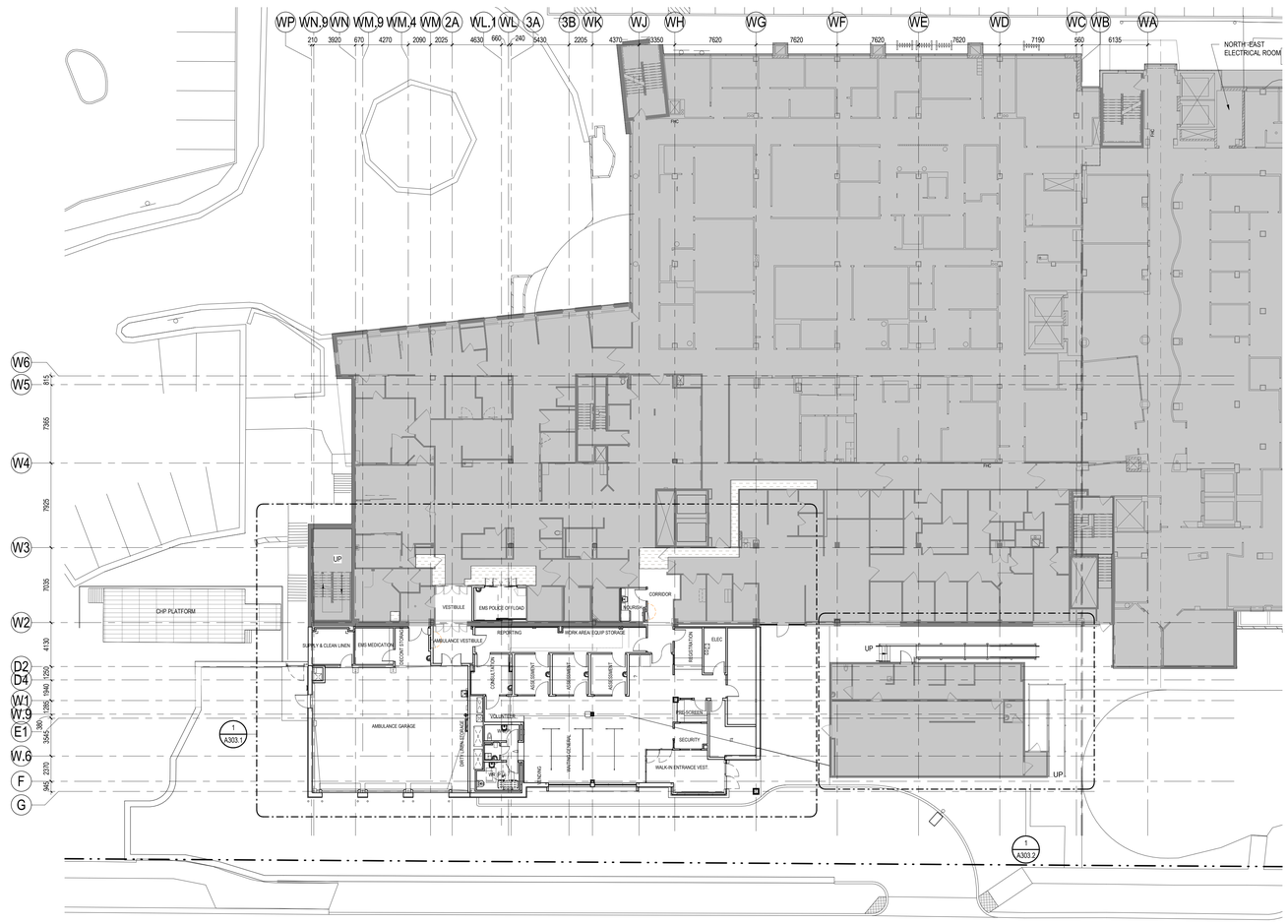
Client/Project Logo

GUELPH GENERAL HOSPITAL

Client/Project
GUELPH GENERAL HOSPITAL
Emergency Mental Health and Addictions Services Relocation and Emergency Department Expansion
115 DELHI STREET, GUELPH ON N1E 4J4

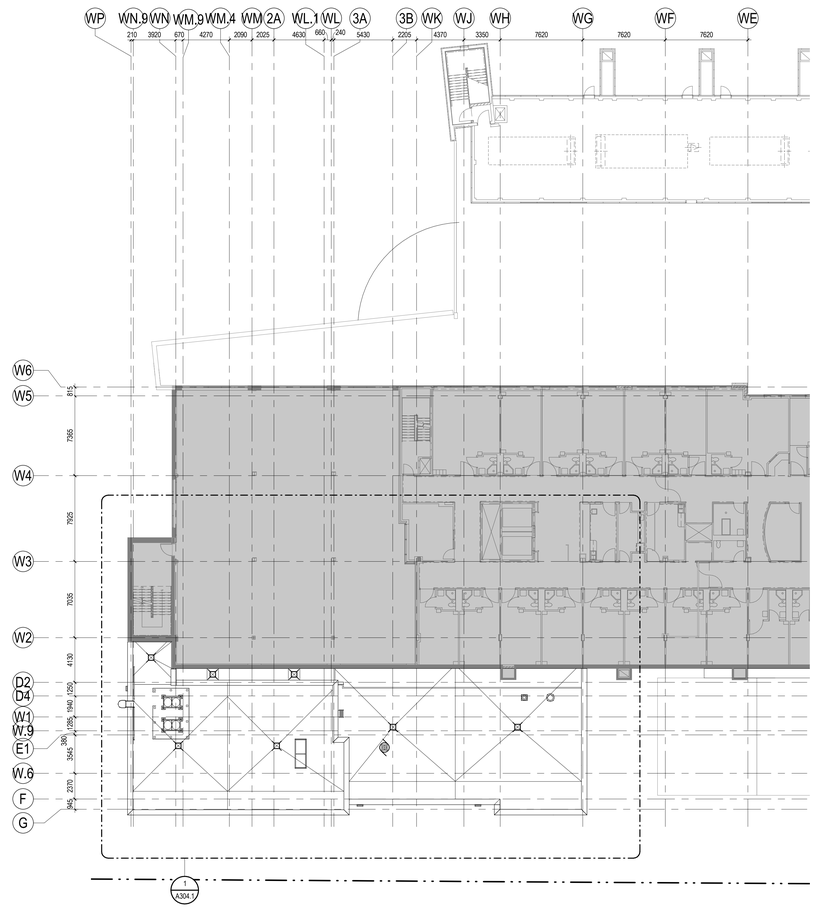
Title
PHASE 1 - LEVEL 3 DEMOLITION

Project No. 140022022
Scale As indicated
Revision 16
Drawing No. AD013



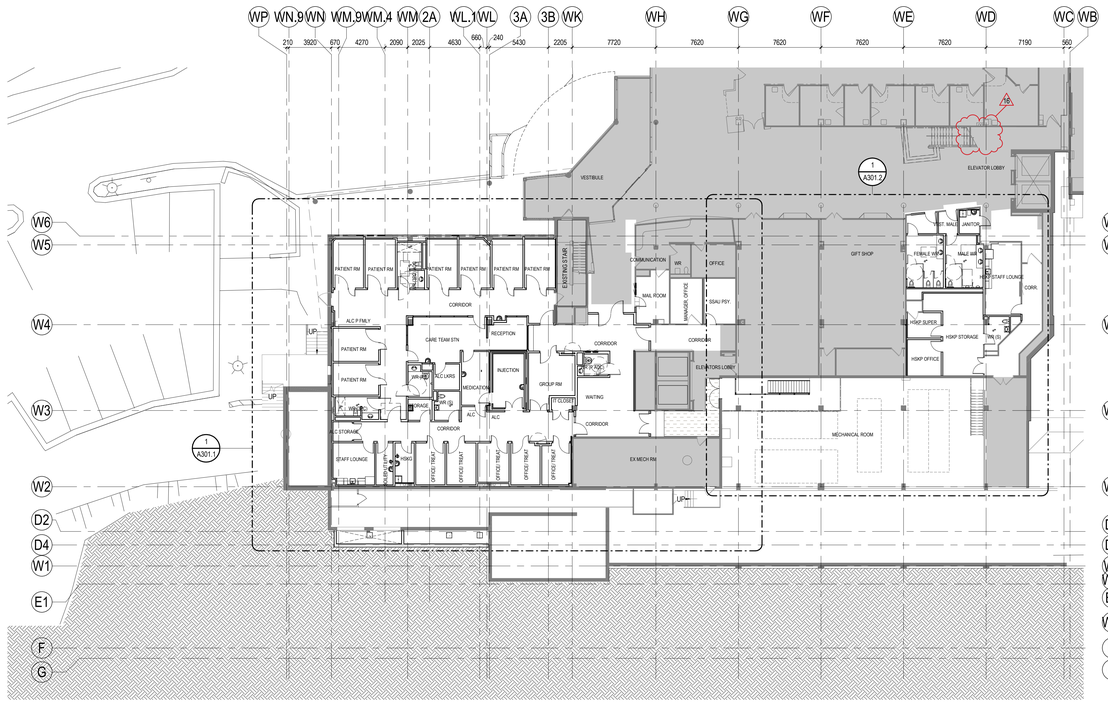
3 LEVEL 3 OVERALL PLAN

A201 1 : 200



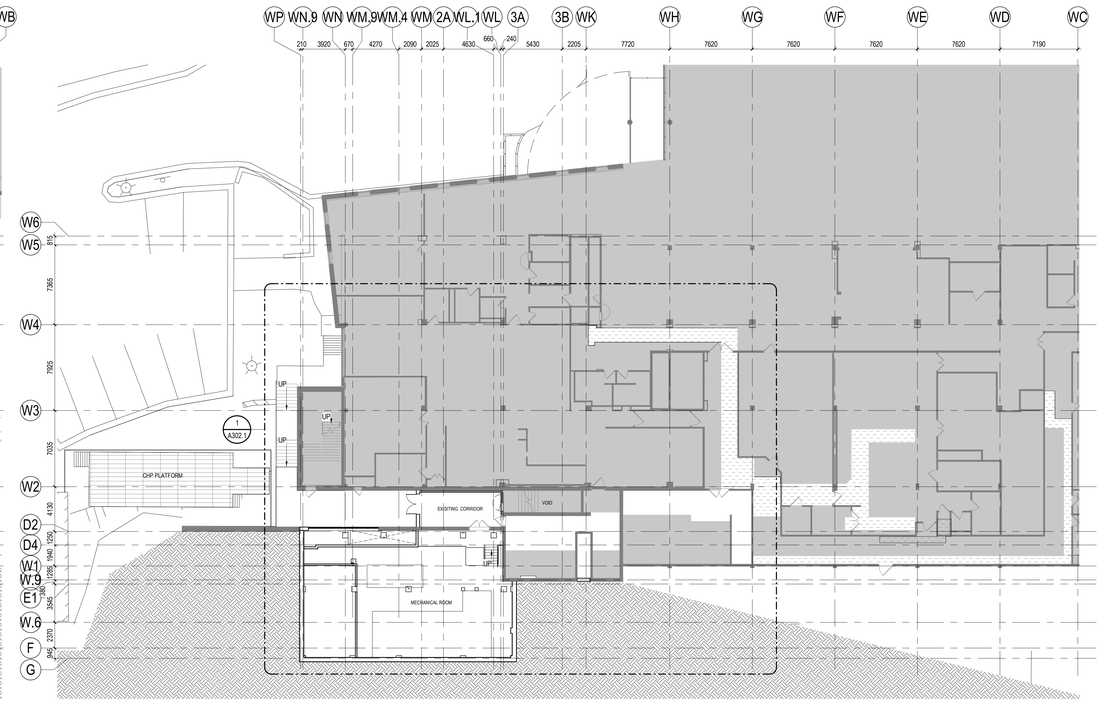
4 LEVEL 4 OVERALL PLAN

A201 1 : 200



1 LEVEL 1 OVERALL PLAN

A201 1 : 200



2 LEVEL 2 OVERALL PLAN

A201 1 : 200

Stantec

Stantec Architecture Ltd.
100-401 Wellington Street West
Toronto, M5V 1E7
Tel: (416) 596-6686 • www.stantec.com

Consultant

Notes

LEGEND:

- EXISTING AREA (OUT OF RENOVATION SCOPE)
- EXISTING WALLS TO REMAIN
- NEW CONSTRUCTION
- AREA AFFECTED BY ABOVE CEILING WORK
- DENOTES NEW MILLWORK

16	ISSUED FOR ADDENDUM No.3		2024.07.05
14	RE-ISSUED AS PER BUILDING PERMIT COMMENTS		2024.06.19
12	ISSUED FOR TENDER		2024.06.07
11	ISSUED FOR PRE-TENDER		2024.05.27
9	ISSUED FOR BUILDING PERMIT		2024.03.28
8	ISSUED FOR STAGE 2.3 MOH SUBMISSION		2024.02.23
6	ISSUED FOR COSTING AND QQA REVIEW		2023.12.21
5	ISSUED FOR 60% CONSTRUCTION DOCUMENTS		2023.10.26
3	ISSUED FOR MOH STAGE 2.2 SUBMISSION		2023.06.09
2	ISSUED FOR DD COSTING AND CLIENT REVIEW		2023.03.29
Issued/Revision		By	Appd. YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	08/16/22
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

GUELPH GENERAL HOSPITAL

Client/Project

GUELPH GENERAL HOSPITAL

Emergency Mental Health and Addictions Services Relocation and Emergency Department Expansion

115 DELHI STREET, GUELPH ON N1E 4J4

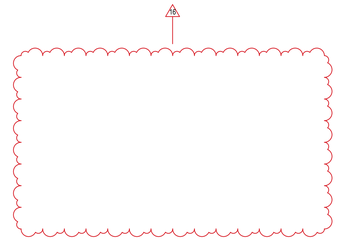
Title

PHASE 1 - OVERALL PLANS

Project No. 140022022	Scale As indicated
Revision 16	Drawing No. A201

1 A301.2 **LEVEL 1 - BLOCK 2**

1 : 50

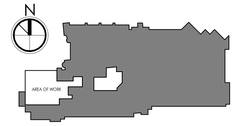


Stantec

Stantec Architecture Ltd.
100-401 Wellington Street West
Toronto, M5V 1E7
Tel: (416) 596-6686 • www.stantec.com

Consultant

KEY PLAN



Notes

LEGEND:

- EXISTING AREA (OUT OF RENOVATION SCOPE)
- EXISTING WALLS TO REMAIN
- NEW CONSTRUCTION
- AREA AFFECTED BY ABOVE CEILING WORK
- DENOTES NEW MILLWORK

16	ISSUED FOR ADDENDUM No.3		2024.07.05
14	RE-ISSUED AS PER BUILDING PERMIT COMMENTS		2024.06.19
12	ISSUED FOR TENDER		2024.06.07
11	ISSUED FOR PRE-TENDER		2024.05.07
9	ISSUED FOR BUILDING PERMIT		2024.03.28
8	ISSUED FOR STAGE 2.3 MOH SUBMISSION		2024.02.23
6	ISSUED FOR COSTING AND GGH REVIEW		2023.12.21
5	ISSUED FOR 60% CONSTRUCTION DOCUMENTS		2023.10.26
3	ISSUED FOR MOH STAGE 2.2 SUBMISSION		2023.06.09
	Issued/Revision	By	Appd YYYY.MM.DD

File Name: N/A — Author Dwn. | Designer Dsgn. | Checker Chkd. | 04/25/23 YYYY.MM.DD

Permit/Seal

Client/Project Logo

GUELPH GENERAL HOSPITAL

Client/Project

GUELPH GENERAL HOSPITAL

Emergency Mental Health and Addictions Services Relocation and Emergency Department Expansion

115 DELHI STREET, GUELPH ON N1E 4J4

Title

PHASE 1 - LEVEL 1 - BLOCK 2 FLOOR PLAN

Project No. 140022022 | Scale 1 : 50

Revision 16 | Drawing No. **A301.2**

1 PHASE 1 _ LEVEL 3 - BLOCK 1 FLOOR PLAN

A303.1 1 : 50

Stantec

Stantec Architecture Ltd.
100-401 Wellington Street West
Toronto, M5V 1E7
Tel: (416) 596-6686 • www.stantec.com

Consultant

KEY PLAN

Notes

LEGEND:

- EXISTING AREA (OUT OF RENOVATION SCOPE)
- EXISTING WALLS TO REMAIN
- NEW CONSTRUCTION
- AREA AFFECTED BY ABOVE CEILING WORK
- DENOTES NEW MILLWORK

ABOVE CEILING WORK:

- ANY WORK DISTURBING THE HOSPITAL NORMAL OPERATION TO BE COORDINATED WITH GGH IN ADVANCE.
- USE PHOTOS AND VIDEO TO DOCUMENT EXISTING CONDITIONS BEFORE WORK STARTS.
- REPLACE ANY DAMAGED TILES AND FIXTURES TO MATCH THE EXISTING TYPE AND MODEL. IF TYPE AND MODEL ARE NOT AVAILABLE, PROVIDE AN EQUAL ALTERNATIVE FOR APPROVAL.
- PROTECT EXISTING FINISHES, EQUIPMENT AND SYSTEMS FROM DAMAGE DURING DEMOLITION AND CONSTRUCTION.

16	ISSUED FOR ADDENDUM No.3		2024.07.05
15	ISSUED FOR ADDENDUM No.2		2024.06.21
14	RE-ISSUED AS PER BUILDING PERMIT COMMENTS		2024.06.19
13	ISSUED FOR ADDENDUM No.1		2024.06.14
12	ISSUED FOR TENDER		2024.06.07
11	ISSUED FOR PRE-TENDER		2024.05.27
9	ISSUED FOR BUILDING PERMIT		2024.03.28
8	ISSUED FOR STAGE 2.3 MOH SUBMISSION		2024.02.23
6	ISSUED FOR COSTING AND GGH REVIEW		2023.12.21
5	ISSUED FOR 60% CONSTRUCTION DOCUMENTS		2023.10.26
2	ISSUED FOR DD COSTING AND CLIENT REVIEW		2023.03.29
Issued/Revision		By	Appd YYYY.MM.DD

File Name: N/A — Author Dwn. — Designer Dsgn. — Checker Chkd. — 02/13/23 YYYY.MM.DD

Permit/Seal

Client/Project Logo

GUELPH GENERAL HOSPITAL

Client/Project

GUELPH GENERAL HOSPITAL

Emergency Mental Health and Addictions Services Relocation and Emergency Department Expansion

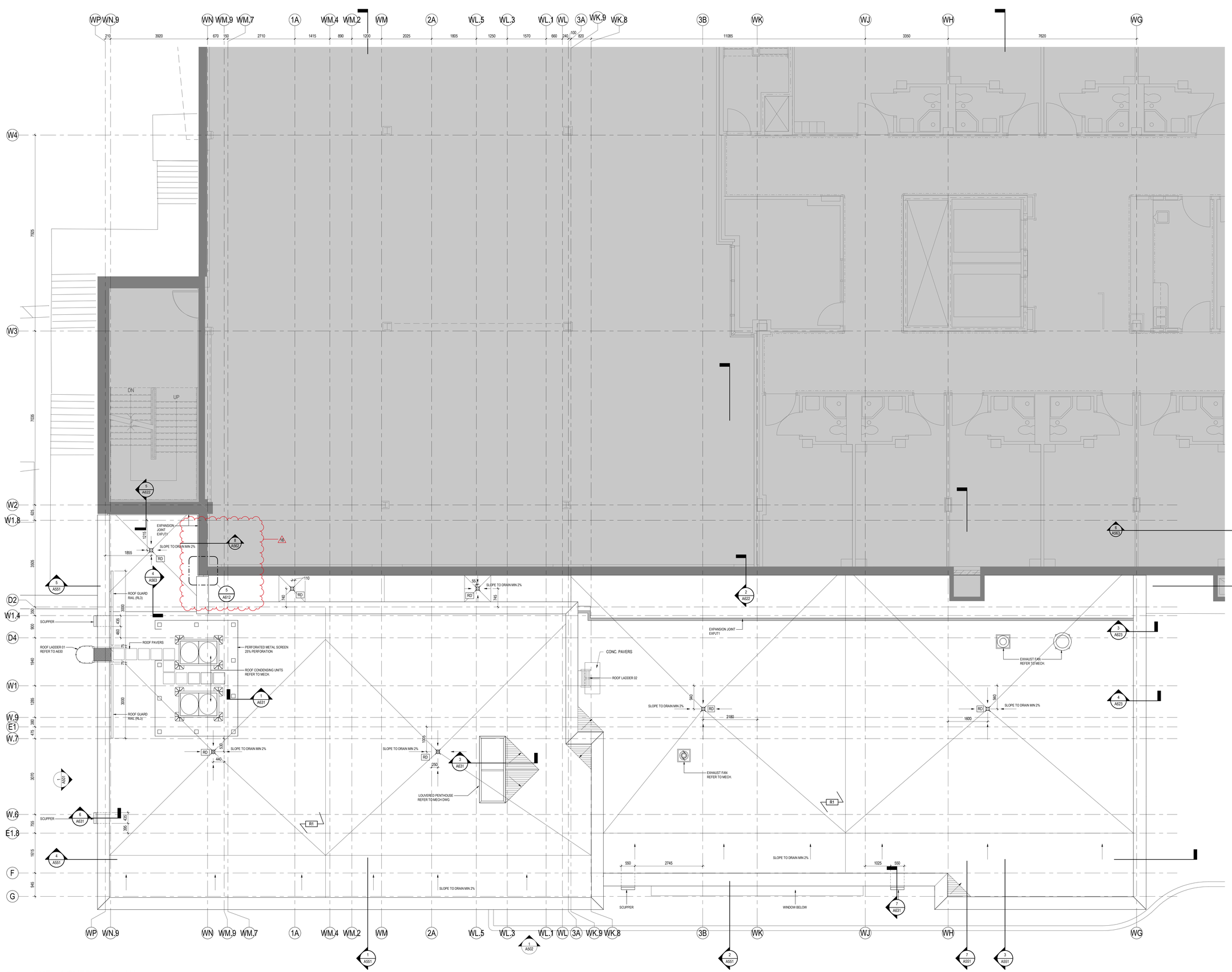
115 DELHI STREET, GUELPH ON N1E 4J4

Title

PHASE 1 - LEVEL 3 - BLOCK 1 FLOOR PLAN

Project No. 140022022 — Scale 1 : 50

Revision 16 — Drawing No. **A303.1**



1 A304.1 LEVEL 4 OVERALL PLAN

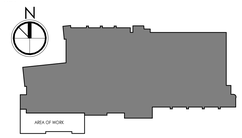
1 : 50

Stantec

Stantec Architecture Ltd.
100-401 Wellington Street West
Toronto, M5V 1E7
Tel: (416) 596-6686 + www.stantec.com

Consultant

KEY PLAN



Notes

16	ISSUED FOR ADDENDUM No.3		2024.07.05
12	ISSUED FOR TENDER		2024.06.07
11	ISSUED FOR PRE-TENDER		2024.05.27
9	ISSUED FOR BUILDING PERMIT		2024.03.28
8	ISSUED FOR STAGE 2.3 MOH SUBMISSION		2024.02.23
4	ISSUED FOR COSTING AND QQH REVIEW		2023.12.21
5	ISSUED FOR 60% CONSTRUCTION DOCUMENTS		2023.10.24
Issued/Revision		By	Appd YYYY.MM.DD

File Name: N/A	Author Dwn.	Designer Dsgn.	Checker Chkd.
			08/09/23 YYYY.MM.DD

Permit/Seal

Client/Project Logo

GUELPH GENERAL HOSPITAL

Client/Project

GUELPH GENERAL HOSPITAL

Emergency Mental Health and Addictions Services Relocation and Emergency Department Expansion

115 DELHI STREET, GUELPH ON N1E 4J4

Title

PHASE 1 - LEVEL 4 - BLOCK 1 FLOOR PLAN

Project No.	Scale
140022022	1 : 50
Revision 16	Drawing No. A304.1

FLOOR FINISH NOTE: ARROWS INDICATE THE EXTENT OF TYPE 2 ADHESIVE WHEREVER RSF1 SHEET FLOORING OCCURS DUE TO EXISTING RAISED FLOOR ON THIS SIDE OF LEVEL 3. RSF1 IN ALL OTHER AREAS TO RECEIVE TYPE 1 ADHESIVE. REFER TO SPECIFICATION SECTION 096515 FOR FURTHER INFORMATION ON ADHESIVE TYPES 1 AND 2.

1 A373 **LEVEL 3 - BLOCK 1 FLOOR AND WALL FINISHES PLAN**
1 : 50

Stantec

Stantec Architecture Ltd.
100-401 Wellington Street West
Toronto, M5V 1E7
Tel: (416) 596-6686 • www.stantec.com

Consultant

KEY PLAN

AREA OF WORK

Notes

ABOVE CEILING WORK:

- ANY WORK DISTURBING THE HOSPITAL NORMAL OPERATION TO BE COORDINATED WITH GGH IN ADVANCE.
- USE PHOTOS AND VIDEO TO DOCUMENT EXISTING CONDITIONS BEFORE WORK STARTS.
- REPLACE ANY DAMAGED TILES AND FIXTURES TO MATCH THE EXISTING TYPE AND MODEL. IF TYPE AND MODEL ARE NOT AVAILABLE, PROVIDE AN EQUAL ALTERNATIVE FOR APPROVAL.
- PROTECT EXISTING FINISHES, EQUIPMENT AND SYSTEMS FROM DAMAGE DURING DEMOLITION AND CONSTRUCTION.

ABBREVIATIONS

ACT-1	ACOUSTIC CEILING TILE - GENERAL USE
ACT-2	NOT USED
ACT-3	ACOUSTIC CEILING TILE - SECURITY
ACT-4	ACOUSTIC CEILING TILE - LARGE FORMAT
ACT-5	ACOUSTIC CEILING TILE - 610X1220 MOISTURE RESISTANT
ACT-6	ACOUSTIC CEILING TILE - 610X610 MOISTURE RESISTANT
CLG-WDLK	WOOD-LOOK CEILING PLANKS
BP/GL	BACK-PAINTED GLASS
BR	BUMPER RAIL
CG	CORNER GUARD
CH/RL	CHAIR RAIL
CMU	CONCRETE MASONRY UNIT
CR	CRASH RAIL
DP/GL	DIGITALLY PRINTED GLASS
F/GR1	ENTRANCE GRILLE
EPT	EPOXY PAINT
EX	EXISTING TO REMAIN
EXP	EXPOSED STRUCTURE
FAF-1	FLUID APPLIED FLOORING - JANITOR, SOILED UTILITY, HSKP ROOMS
FAF-2	FLUID APPLIED FLOORING - 3 PIECE WASHROOMS/SHOWER ROOMS
GL	GLAZING
GB	GYPSUM WALL BOARD
HR1	ANTI-LIGATURE HANDRAIL
M/EX	MATCH EXISTING
PLAM	PLASTIC LAMINATE
PORC/T1	PORCELAIN VENEER - WALL FINISH
PORC/T2	PORCELAIN TILE - FLOOR FINISH
PT	PAINT
RB1	RUBBER BASE
RSF1	RESILIENT RUBBER SHEET FLOORING
RSF2	STATIC DISSIPATIVE RESILIENT RUBBER SHEET FLOORING
S.CONC	SEALED CONCRETE
SS	SOLID SURFACE
SST	STAINLESS STEEL
WP1	SEMI-RIGID ACRYLIC SHEET (ACROVYN)
WP2	SOLID SURFACE (CORIAN)
WP3	RIGID EXTRUDED PVCU SHEET (ALTRO WHITEROCK)
WP4	FIBER REINFORCED LAMINATE PANELS

WALL PROTECTION LEGEND

WP#Ha
- LETTER SUFFIX DENOTES COLOUR. REFER TO SPECIFICATIONS.
- 'H' DENOTES PARTIAL HEIGHT.
- NUMBER DENOTES WALL PROTECTION TYPE.
- 'WP' DENOTES WALL PROTECTION.

FLOORING LEGEND

RSF#a
- LETTER SUFFIX DENOTES COLOUR. REFER TO SPECIFICATIONS.
- 'RSF#' DENOTES RESILIENT SHEET FLOORING TYPE. REFER TO ABBREVIATIONS LIST ABOVE.

FAF-#
- NUMBER SUFFIX DENOTES FAF TYPE. REFER TO SPECIFICATIONS.
- 'FAF' DENOTES FLUID APPLIED FLOORING. REFER TO ABBREVIATIONS LIST ABOVE.

PORC/T#
- 'T#' SUFFIX DENOTES COLOUR/SIZE. REFER TO SPECIFICATIONS.
- 'PORC' DENOTES PORCELAIN TILE. REFER TO ABBREVIATIONS LIST ABOVE.

16	ISSUED FOR ADDENDUM No.3			2024.07.05
12	ISSUED FOR TENDER			2024.06.07
11	ISSUED FOR PRE-TENDER			2024.05.27
9	ISSUED FOR BUILDING PERMIT			2024.03.28
8	ISSUED FOR STAGE 2.3 MOH SUBMISSION			2024.02.23
6	ISSUED FOR COSTING AND GGH REVIEW			2023.12.21
5	ISSUED FOR 60% CONSTRUCTION DOCUMENTS			2023.10.26
Issued/Revision		By	Appd	YYYY.MM.DD

File Name: N/A | Author (Dwn.) | Designer (Dsgn.) | Checker (Chkd.) | 07/18/23 (YYYY.MM.DD)

Permit/Seal

Client/Project Logo

GUELPH GENERAL HOSPITAL

Client/Project
GUELPH GENERAL HOSPITAL
Emergency Mental Health and Addictions Services Relocation and Emergency Department Expansion
115 DELHI STREET, GUELPH ON N1E 4J4

Title
PHASE 1 - LEVEL 3 - BLOCK 1 FLOOR AND WALL FINISHES PLAN

Project No. 140022022
Scale As indicated
Revision 16
Drawing No. A373

PHASE 1 _ LEVEL 1 - RCP 1-50 - BLOCK 1

1 : 50

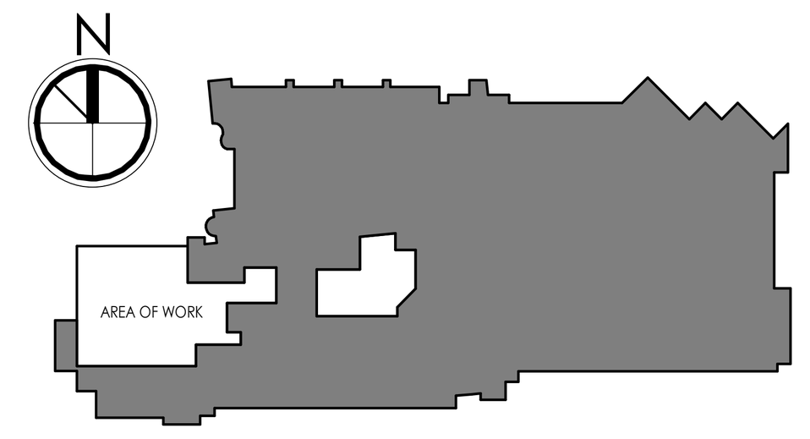
A401.1

Stantec

Stantec Architecture Ltd.
100-401 Wellington Street West
Toronto, M5V 1E7
Tel: (416) 596-6686 • www.stantec.com

Consultant

KEY PLAN



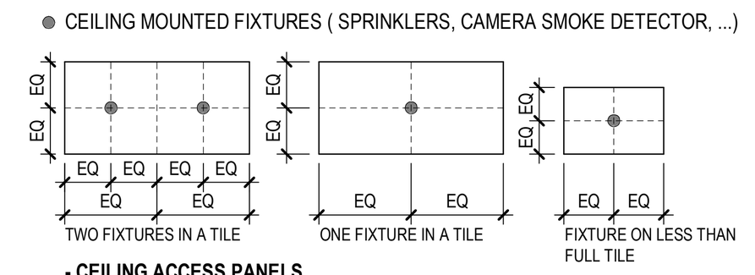
Notes

CEILING TYPES

ACT-1	610 X 1220 MM STANDARD ACT
ACT-2	NOT USED.
ACT-3	610 X 1220 MM ACOUSTIC SECURITY CEILING
ACT-4	760 X 760 MM LARGE FORMAT ACOUSTIC CEILING TILE W/ 100MM WIDE TECHNICAL PANELS
ACT-5	610 X 1220 MM MOISTURE RESISTANT ACT
ACT-6	610 X 610 MM MOISTURE RESISTANT ACT
GB-1	GYPSUM BOARD CEILING
GB-2	GYPSUM BOARD CEILING - MOISTURE RESISTANT
GB-3	GYPSUM BOARD CEILING - IMPACT RESISTANT & MOISTURE RESISTANT
GB-4	GYPSUM BOARD CEILING - IMPACT RESISTANT
GB-5	FIRE RATED SMOKE SEALED GYPSUM BOARD CEILING
F-1	FEATURE CEILING
EXP	EXPOSED CEILING
CLG-WDLK	WOOD-LOOK CEILING PLANKS

- CEILING MOUNTED FIXTURES

● CEILING MOUNTED FIXTURES (SPRINKLERS, CAMERA SMOKE DETECTOR, ...)



- CEILING ACCESS PANELS

CEILING ACCESS PANELS ARE NOT ILLUSTRATED IN THE DRAWINGS.
CONTRACTOR TO PROVIDE DRAWINGS LOCATION OF COORDINATED ACCESS PANELS

		By	Appd	YYYY.MM.DD
16	ISSUED FOR ADDENDUM No.3			2024.07.05
12	ISSUED FOR TENDER			2024.06.07
11	ISSUED FOR PRE-TENDER			2024.05.27
9	ISSUED FOR BUILDING PERMIT			2024.03.28
8	ISSUED FOR STAGE 2.3 MOH SUBMISSION			2024.02.23
6	ISSUED FOR COSTING AND GGH REVIEW			2023.12.21
5	ISSUED FOR 60% CONSTRUCTION DOCUMENTS			2023.10.26
3	ISSUED FOR MOH STAGE 2.2 SUBMISSION			2023.06.09
2	ISSUED FOR DD COSTING AND CLIENT REVIEW			2023.03.29

Issued/Revision

File Name: N/A	Author	Designer	Checker	02/17/23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

GUELPH GENERAL HOSPITAL

Client/Project

GUELPH GENERAL HOSPITAL

Emergency Mental Health and Addictions Services Relocation and Emergency Department Expansion

115 DELHI STREET, GUELPH ON N1E 4J4

Title

PHASE 1 - LEVEL 1 SSAU RCP

Project No. 140022022

Scale 1 : 50

Revision 16

Drawing No. A401.1

1 A401.2 **PHASE 1 _ LEVEL 1 - RCP - BLOCK 2**

1 : 50

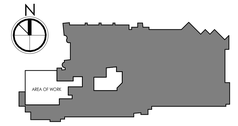
16

Stantec

Stantec Architecture Ltd.
100-401 Wellington Street West
Toronto, M5V 1E7
Tel: (416) 596-6686 + www.stantec.com

Consultant

KEY PLAN



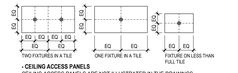
Notes

CEILING TYPES

ACT-1		610 X 1220 MM STANDARD ACT
ACT-2	NOT USED.	
ACT-3		610 X 1220 MM ACOUSTIC SECURITY CEILING
ACT-4		760 X 760 MM LARGE FORMAT ACOUSTIC CEILING TILE W/ 100MM WIDE TECHNICAL PANELS
ACT-5		610 X 1220 MM MOISTURE RESISTANT ACT
ACT-6		610 X 610 MM MOISTURE RESISTANT ACT
GB-1		GYPSUM BOARD CEILING
GB-2		GYPSUM BOARD CEILING - MOISTURE RESISTANT
GB-3		GYPSUM BOARD CEILING - IMPACT RESISTANT & MOISTURE RESISTANT
GB-4		GYPSUM BOARD CEILING - IMPACT RESISTANT
GB-5		FIRE RATED SMOKE SEALED GYPSUM BOARD CEILING
F-1		FEATURE CEILING
EXP		EXPOSED CEILING
CLG-WDLK		WOOD-LOOK CEILING PLANKS

- CEILING MOUNTED FIXTURES

CEILING MOUNTED FIXTURES (SPRINKLERS, CAMERA SMOKE DETECTOR, ...)



- CEILING ACCESS PANELS
CEILING ACCESS PANELS ARE NOT ILLUSTRATED IN THE DRAWINGS.
CONTRACTOR TO PROVIDE DRAWINGS LOCATION OF COORDINATED ACCESS PANELS

16	ISSUED FOR ADDENDUM No.3			2024.07.05
12	ISSUED FOR TENDER			2024.06.07
11	ISSUED FOR PRE-TENDER			2024.05.27
9	ISSUED FOR BUILDING PERMIT			2024.03.28
8	ISSUED FOR STAGE 2.3 HACH SUBMISSION			2024.02.23
6	ISSUED FOR COSTING AND QGH REVIEW			2023.12.21
5	ISSUED FOR 60% CONSTRUCTION DOCUMENTS			2023.10.26
Issued/Revision		By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	05/01/23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

GUELPH GENERAL HOSPITAL

Client/Project

GUELPH GENERAL HOSPITAL

Emergency Mental Health and Addictions Services Relocation and Emergency Department Expansion

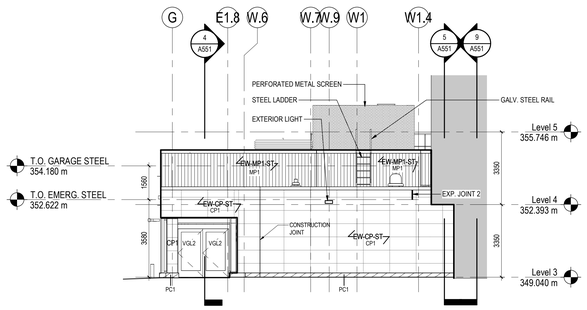
115 DELHI STREET, GUELPH ON N1E 4J4

Title

PHASE 1 - LEVEL 1 PUBLIC WASHROOMS AND HSPK RCP

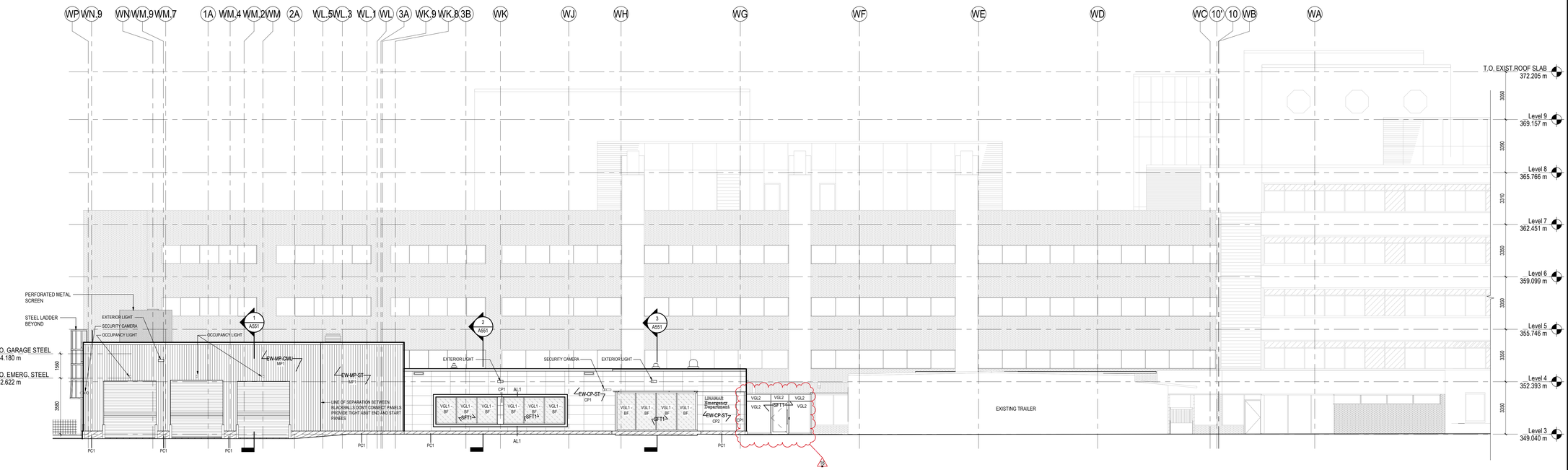
Project No.	Scale
140022022	1 : 50
Revision	Drawing No.
16	A401.2

ORIGINAL SHEET - ISO A0



2 A502 **PHASE 1 - EAST ELEVATION**

1 : 100



1 A502 **PHASE 1 - SOUTH ELEVATION**

1 : 100

Stantec

Stantec Architecture Ltd.
100-401 Wellington Street West
Toronto, M5V 1E7
Tel: (416) 596-6686 • www.stantec.com

Consultant

Notes

GLASS AND SPANDREL TYPES

GL1-BF
GLAZING TYPE / FRIT / SHADING TREATMENT

GLAZING TYPES

XVG	EXISTING VISION GLASS, CLEAR (EXTERIOR)
VGL1	VISION GLASS, CLEAR (EXTERIOR STRORE FRONT)
VGL2	VISION GLASS, CLEAR (EXTERIOR DOORS)
VGL3	COMBINED IGU (WITH 120MIN FRR)
SPL	SPANDREL PANEL (ALUMINUM)
XSPL	SPANDREL PANEL (ALUMINUM)
SPG	SPANDREL PANEL (GLASS)

CLADDING TYPES

CP1	CERAMIC PANEL CLADDING - COLOUR 1
CP2	CERAMIC PANEL CLADDING - COLOUR 2
MP1	METAL PANEL, FLAT, COLOUR 1
AL1	ALUMINUM PANELS COLOUR 1

16	ISSUED FOR ADDENDUM No.3			2024.07.05
15	ISSUED FOR ADDENDUM No.2			2024.06.21
14	RE-ISSUED AS PER BUILDING PERMIT COMMENTS			2024.06.19
12	ISSUED FOR TENDER			2024.06.07
11	ISSUED FOR PRE-TENDER			2024.05.27
9	ISSUED FOR BUILDING PERMIT			2024.03.28
8	ISSUED FOR STAGE 2.3 MOH SUBMISSION			2024.02.23
6	ISSUED FOR COSTING AND OGH REVIEW			2023.12.21
5	ISSUED FOR 60% CONSTRUCTION DOCUMENTS			2023.10.26
3	ISSUED FOR MOH STAGE 2.2 SUBMISSION			2023.06.09
2	ISSUED FOR DD COSTING AND CLIENT REVIEW			2023.03.29
Issued/Revision		By	Appd.	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	03/09/23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

GUELPH GENERAL HOSPITAL

Client/Project

GUELPH GENERAL HOSPITAL

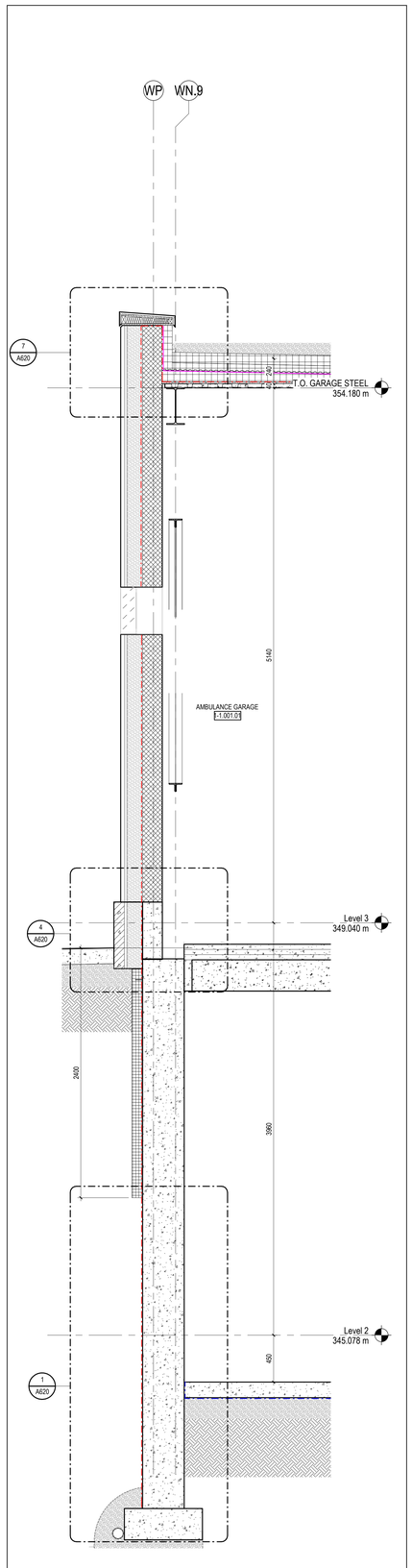
Emergency Mental Health and Addictions Services Relocation and Emergency Department Expansion

115 DELHI STREET, GUELPH ON N1E 4J4

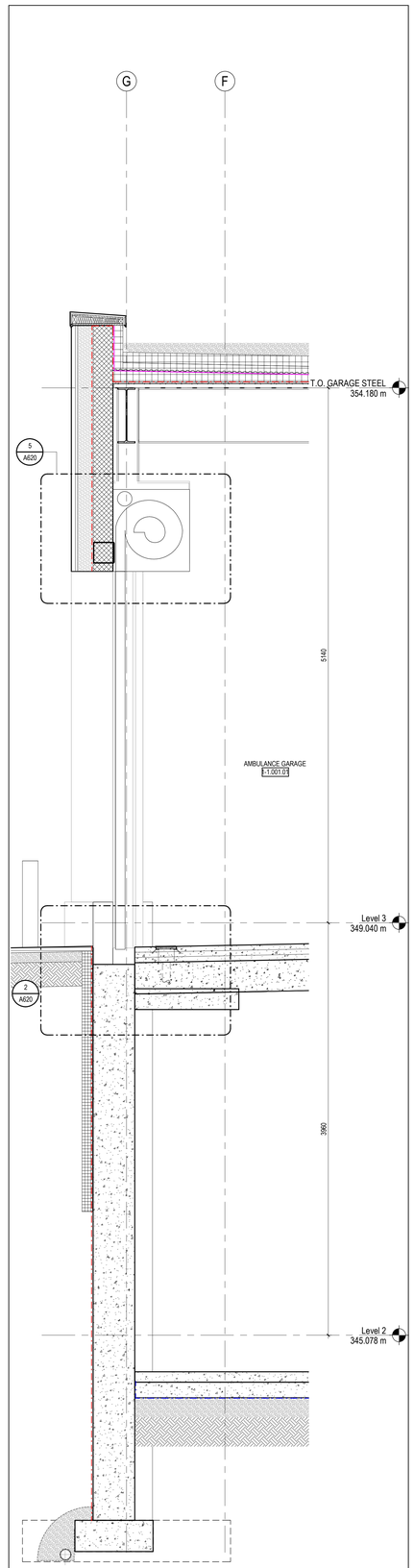
Title

PHASE 1 - BUILDING ELEVATIONS

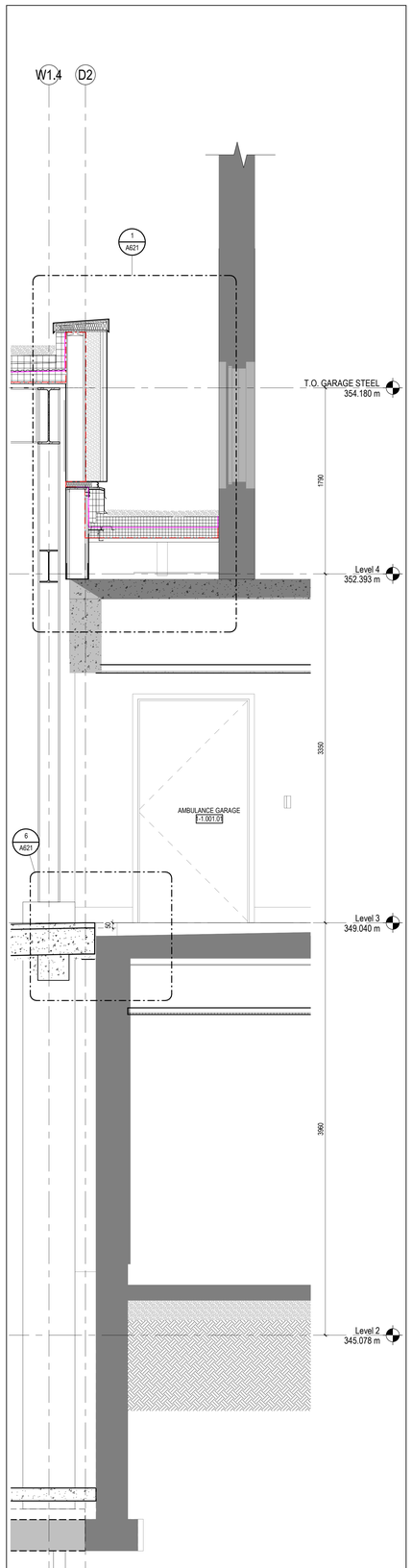
Project No.	Scale
140022022	As indicated
Revision	Drawing No.
16	A502



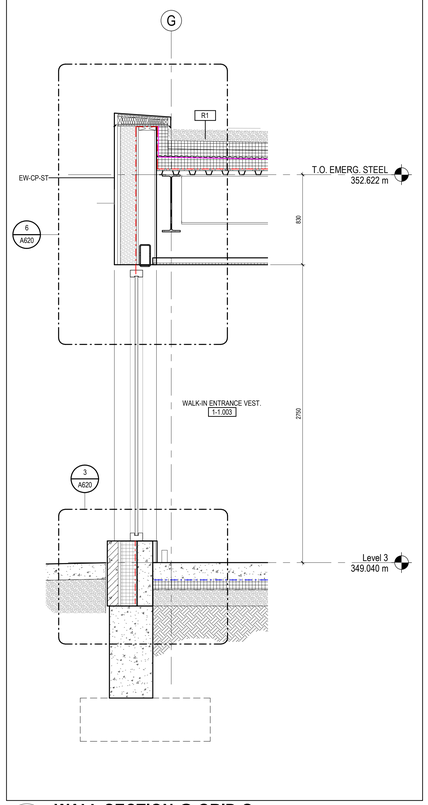
1 A561 **WALL SECTION @ GRID WP**
1 : 20



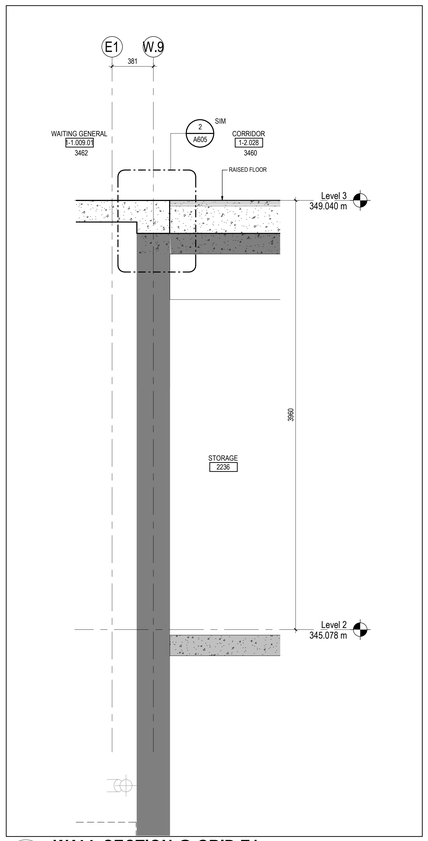
2 A561 **WALL SECTION @ GRID G**
1 : 20



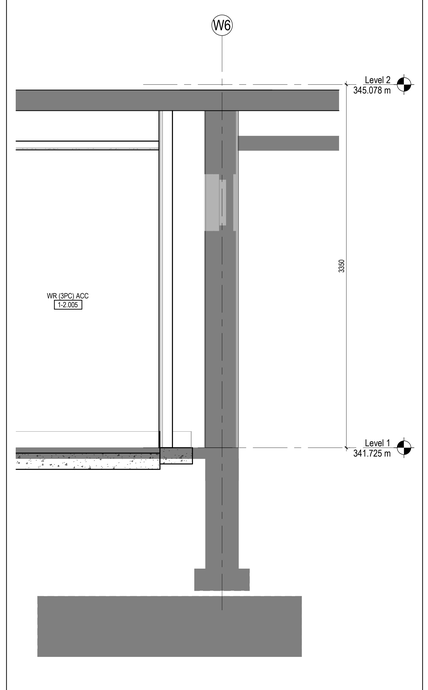
3 A561 **WALL SECTION @ GRID D2**
1 : 20



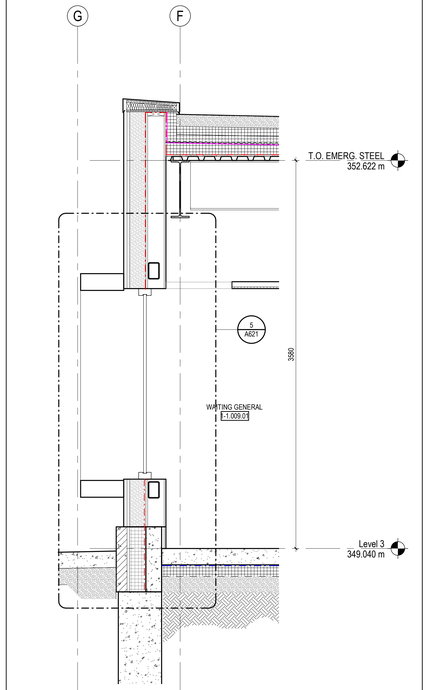
6 A561 **WALL SECTION @ GRID G**
1 : 20



7 A561 **WALL SECTION @ GRID E1**
1 : 20



4 A561 **WALL SECTION @ GRID W6**
1 : 20



5 A561 **WALL SECTION @ GRID F**
1 : 20

Stantec

Stantec Architecture Ltd.
100-401 Wellington Street West
Toronto, M5V 1E7
Tel: (416) 596-6686 • www.stantec.com

Consultant

Notes

16	ISSUED FOR ADDENDUM No.3		2024.07.05
12	ISSUED FOR TENDER		2024.06.07
11	ISSUED FOR PRE-TENDER		2024.05.27
9	ISSUED FOR BUILDING PERMIT		2024.03.28
8	ISSUED FOR STAGE 2.3 MOH SUBMISSION		2024.02.23
6	ISSUED FOR COSTING AND GGH REVIEW		2023.12.21
5	ISSUED FOR 60% CONSTRUCTION DOCUMENTS		2023.10.26
3	ISSUED FOR MOH STAGE 2.2 SUBMISSION		2023.06.09
2	ISSUED FOR DD COSTING AND CLIENT REVIEW		2023.03.29
Issued/Revision		By	Appd. YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	03/10/23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

GUELPH GENERAL HOSPITAL

Client/Project

GUELPH GENERAL HOSPITAL

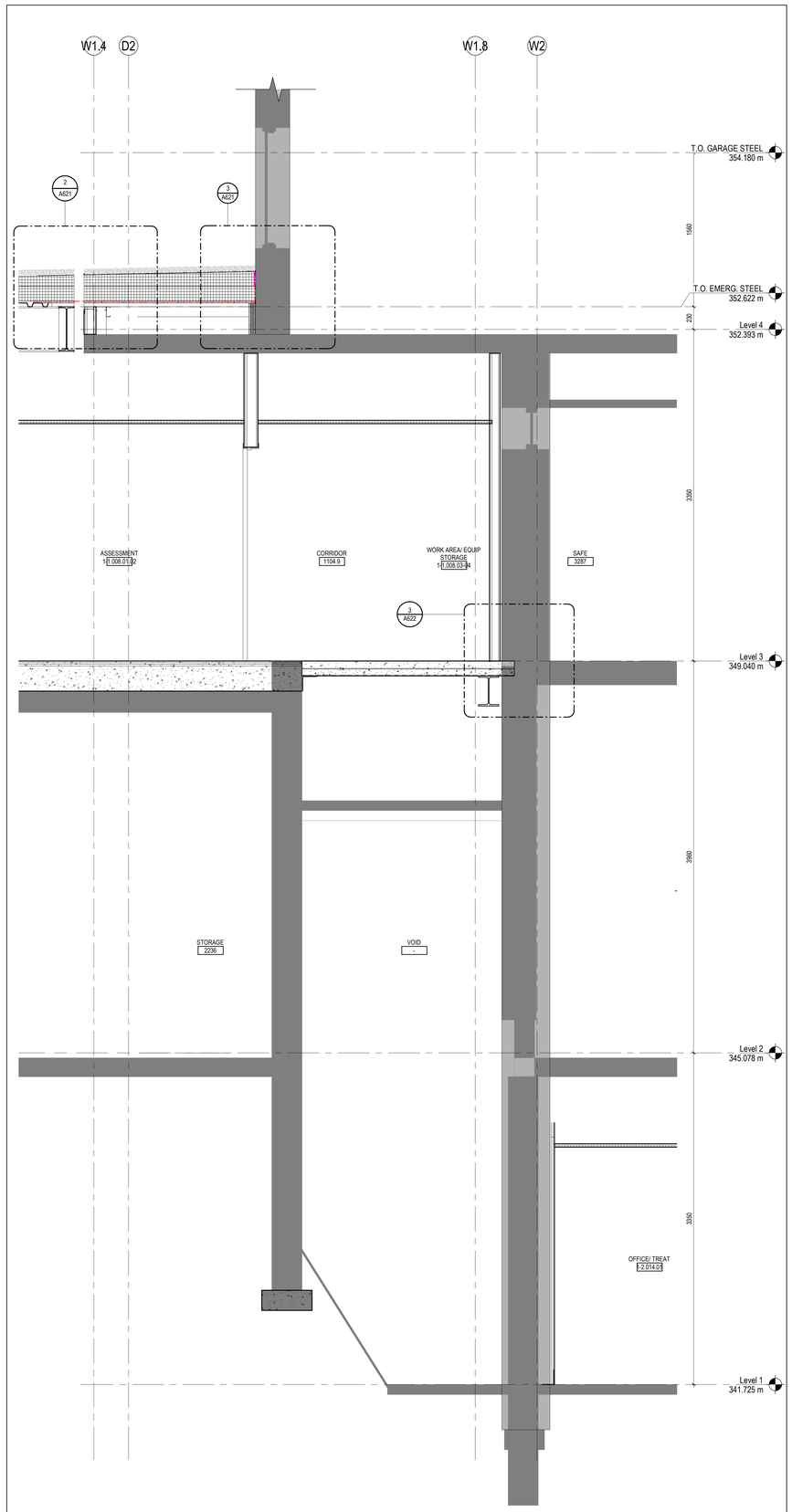
Emergency Mental Health and Addictions Services Relocation and Emergency Department Expansion

115 DELHI STREET, GUELPH ON N1E 4J4

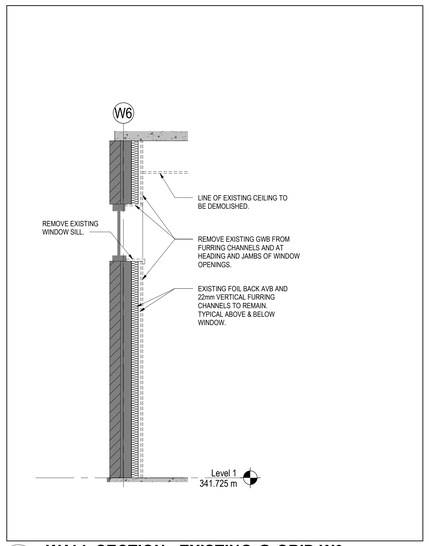
Title

PHASE 1 - WALL SECTIONS

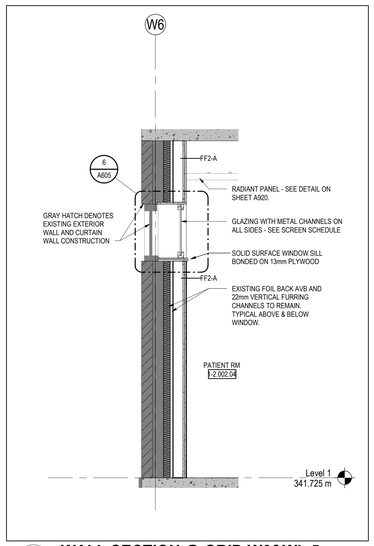
Project No. 140022022	Scale 1 : 20
Revision 16	Drawing No. A561



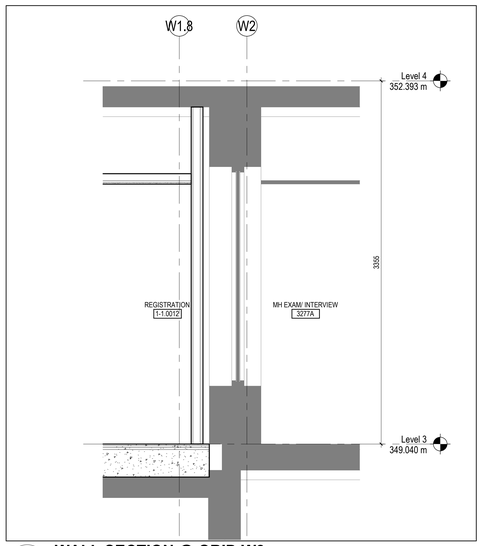
1 A562 **WALL SECTION @ GRID W2 AND D2**
1 : 20, REF: 2/ A551/



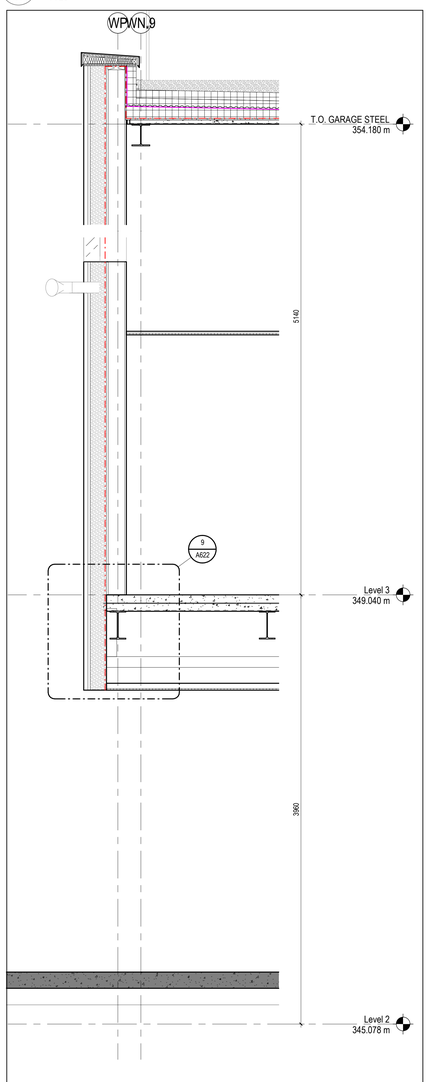
5 A562 **WALL SECTION - EXISTING @ GRID W6**
1 : 20



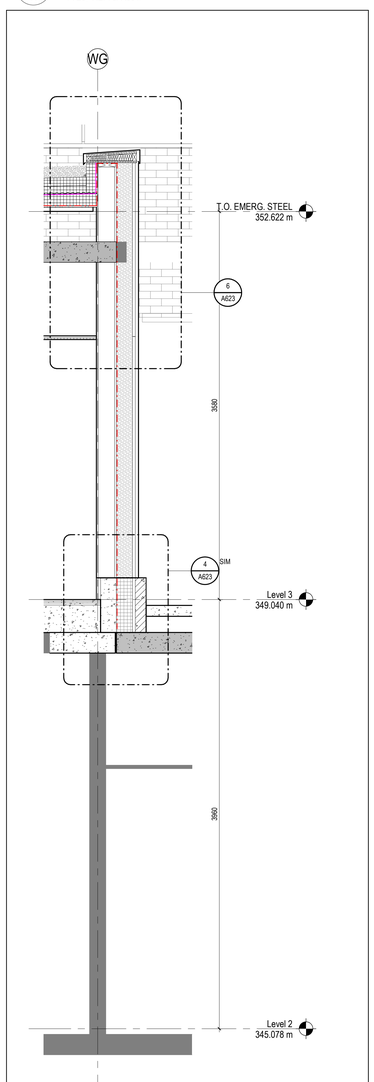
6 A562 **WALL SECTION @ GRID W6&WL.5**
1 : 20, REF: 8/ A551/



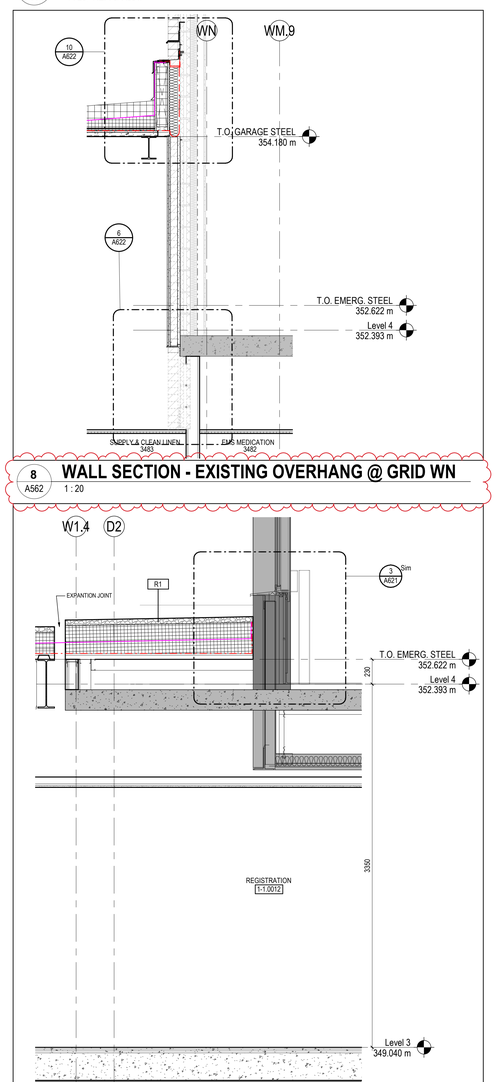
7 A562 **WALL SECTION @ GRID W2**
1 : 20, REF: 3/ A551/



2 A562 **WALL SECTION @ GRID WN**
1 : 20, REF: 5/ A551/



3 A562 **WALL SECTION @ GRID WG**
1 : 20, REF: 5/ A551/



8 A562 **WALL SECTION - EXISTING OVERHANG @ GRID WN**
1 : 20

4 A562 **WALL SECTION @ GRID D2**
1 : 20, REF: 3/ A551/

Stantec
Stantec Architecture Ltd.
100-401 Wellington Street West
Toronto, M5V 1E7
Tel: (416) 596-6686 + www.stantec.com

Consultant

Notes

16	ISSUED FOR ADDENDUM No.3		2024.07.05
12	ISSUED FOR TENDER		2024.06.07
11	ISSUED FOR PRE-TENDER		2024.05.27
9	ISSUED FOR BUILDING PERMIT		2024.03.28
8	ISSUED FOR STAGE 2.3 MOH SUBMISSION		2024.02.23
6	ISSUED FOR COSTING AND SQH REVIEW		2023.12.21
5	ISSUED FOR 60% CONSTRUCTION DOCUMENTS		2023.10.26
2	ISSUED FOR DD COSTING AND CLIENT REVIEW		2023.03.29
Issued/Revision		By	Appd. YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	03/17/23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

GUELPH GENERAL HOSPITAL

Client/Project
GUELPH GENERAL HOSPITAL

Emergency Mental Health and Addictions Services Relocation and Emergency Department Expansion

115 DELHI STREET, GUELPH ON N1E 4J4

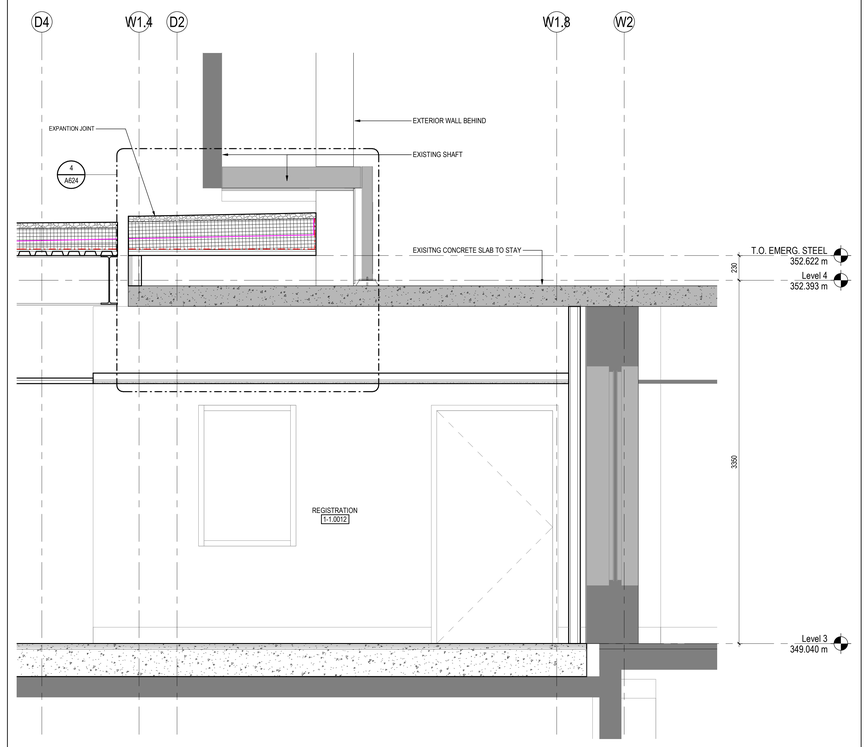
Title
PHASE 1 - WALL SECTIONS

Project No.
140022022

Scale
1 : 20

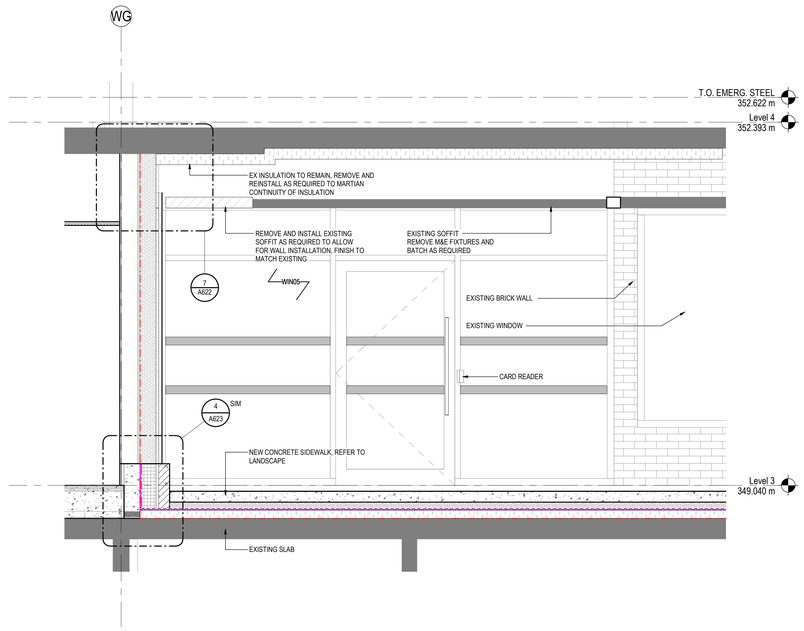
Revision
16

Drawing No.
A562



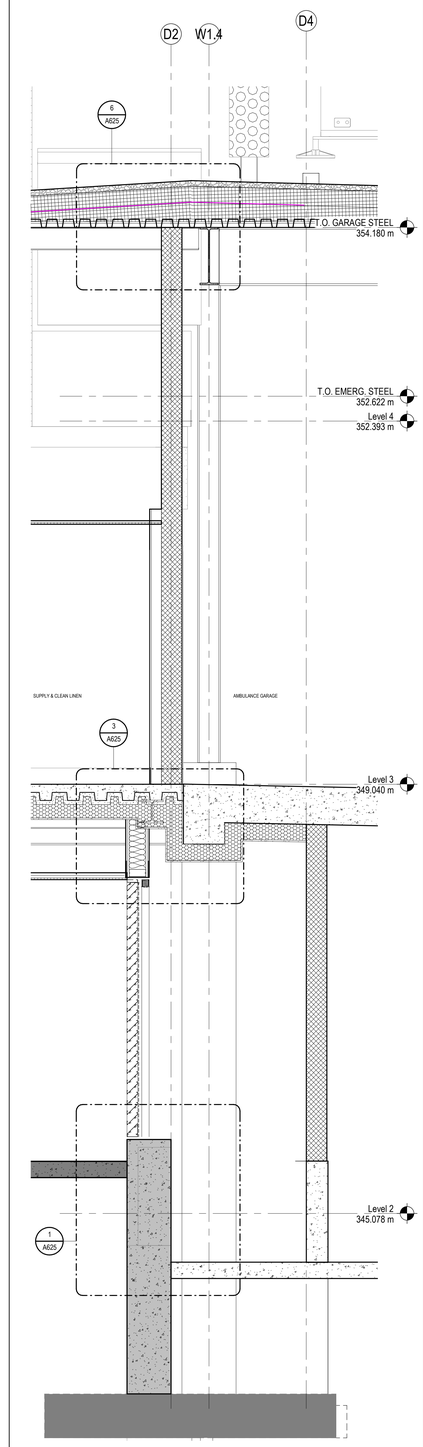
5 WALL SECTION @ GRID W2, D2

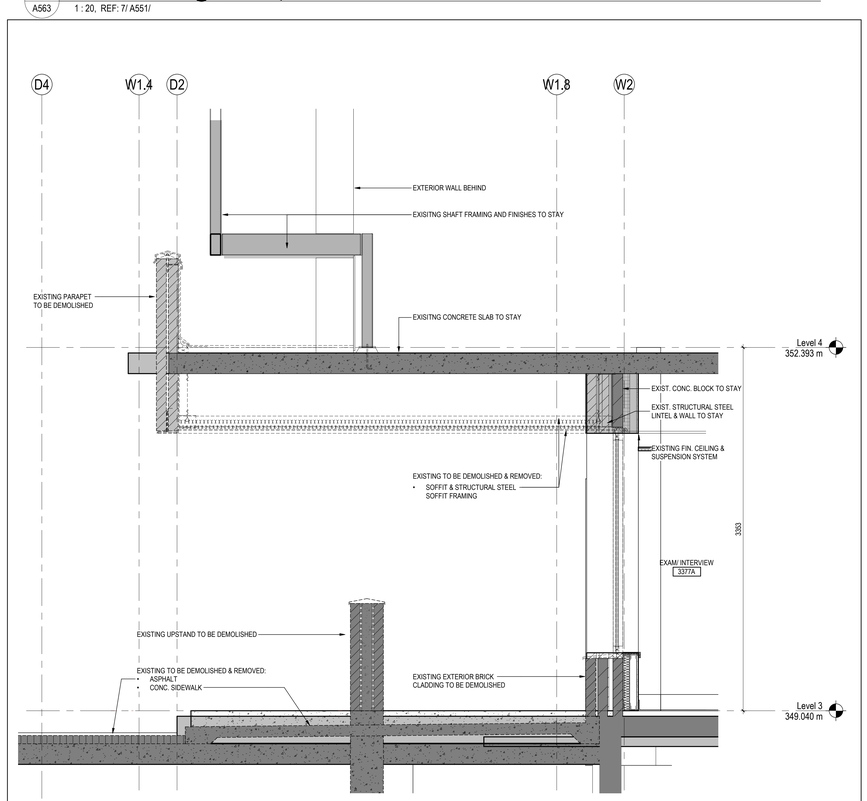
A563 1 : 20, REF: 7/ A551/



6 WALL SECTION - SNT ENNTRANCE SOFFIT AND EAST WALL GRID WG

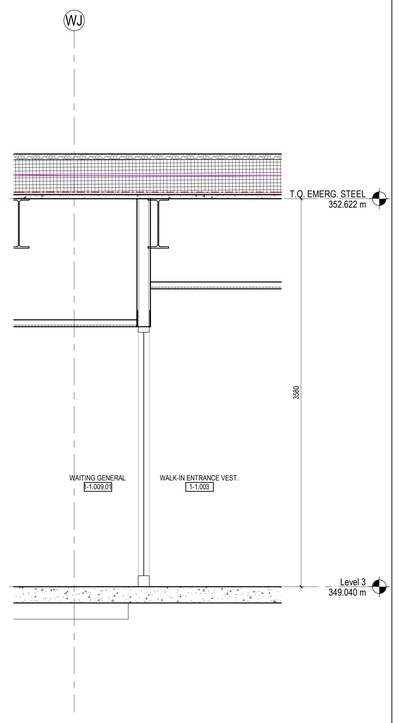
A563 1 : 20, REF: 1/ A303.1/





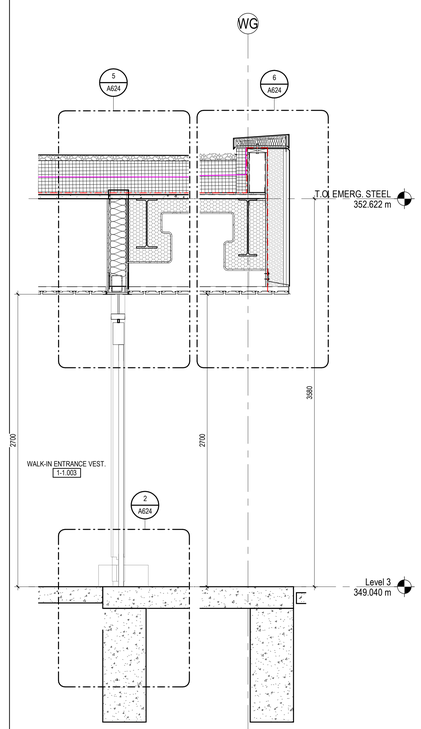
1 WALL SECTION @ GRID W2, D2 - DEMO

A563 1 : 20,



2 WALL SECTION @ GRID WJ

A563 1 : 20, REF: 4/ A551/



3 WALL SECTION @ GRID WG

A563 1 : 20, REF: 4/ A551/

4 WALL SECTION @ GRID W1.4

A563 1 : 20

Stantec

Stantec Architecture Ltd.
100-401 Wellington Street West
Toronto, M5V 1E7
Tel: (416) 596-6686 • www.stantec.com

Consultant

Notes

16	ISSUED FOR ADDENDUM No.3		2024.07.05
12	ISSUED FOR TENDER		2024.06.07
11	ISSUED FOR PRE-TENDER		2024.05.27
9	ISSUED FOR BUILDING PERMIT		2024.03.28
8	ISSUED FOR STAGE 2.3 MOH SUBMISSION		2024.02.29
6	ISSUED FOR COSTING AND GGH REVIEW		2023.12.21
5	ISSUED FOR 60% CONSTRUCTION DOCUMENTS		2023.10.26
	Issued/Revision	By	Appd YYYY.MM.DD

File Name: N/A — Author Dwn. | Designer Dsgn. | Checker Chkd. | 08/21/23 YYYY.MM.DD

Permit/Seal

Client/Project Logo

GUELPH GENERAL HOSPITAL

Client/Project

GUELPH GENERAL HOSPITAL

Emergency Mental Health and Addictions Services Relocation and Emergency Department Expansion

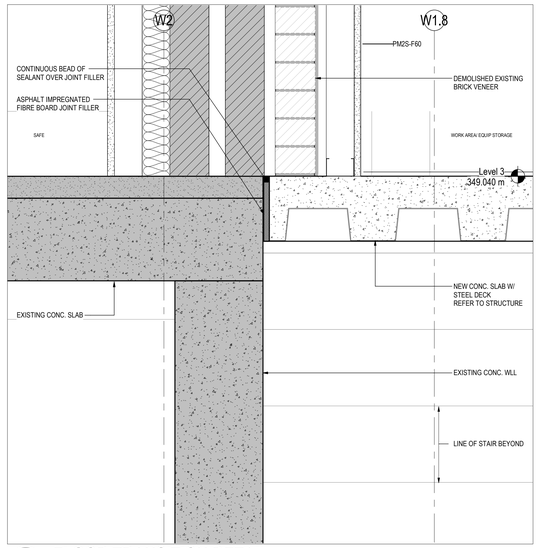
115 DELHI STREET, GUELPH ON N1E 4J4

Title

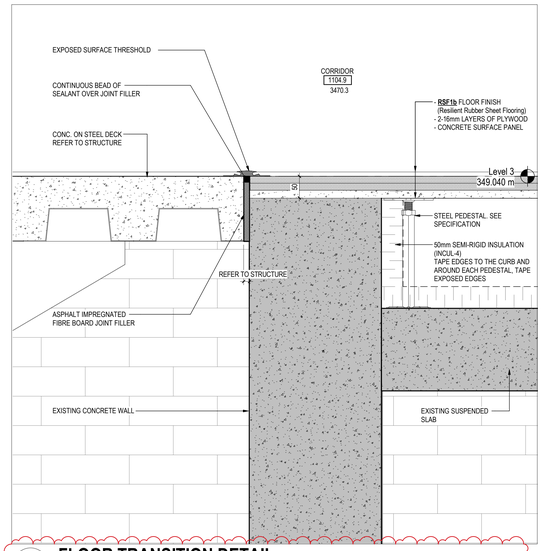
PHASE 1 - WALL SECTIONS

Project No. 140022022 | Scale 1 : 20

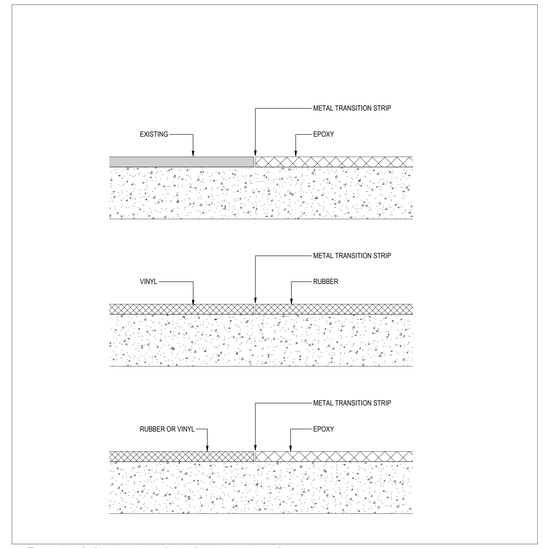
Revision 16 | Drawing No. A563



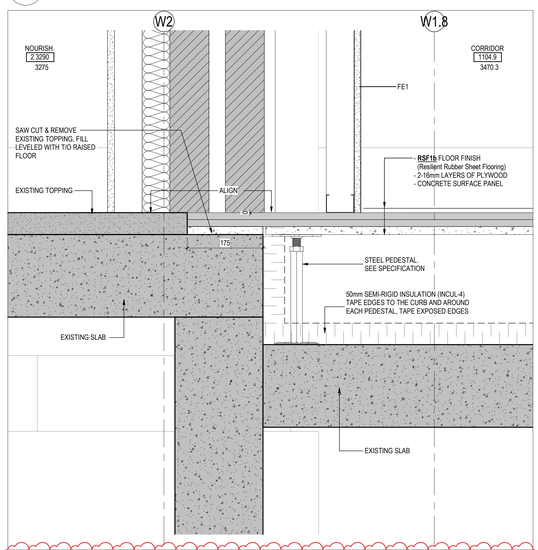
9 A605 **FLOOR TRANSITION DETAIL**
1 : 5, REF: 1/ A303.1/



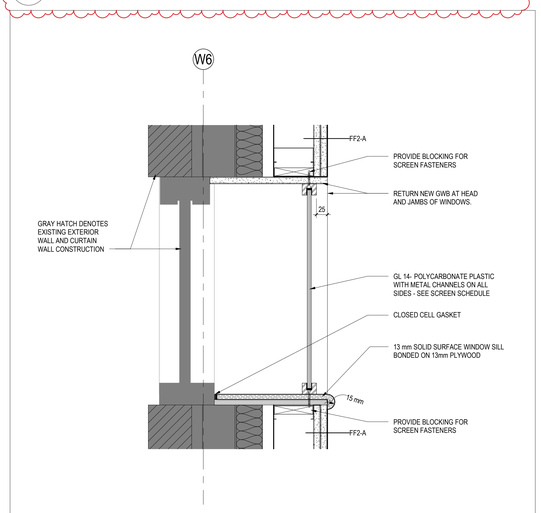
10 A605 **FLOOR TRANSITION DETAIL**
1 : 5,



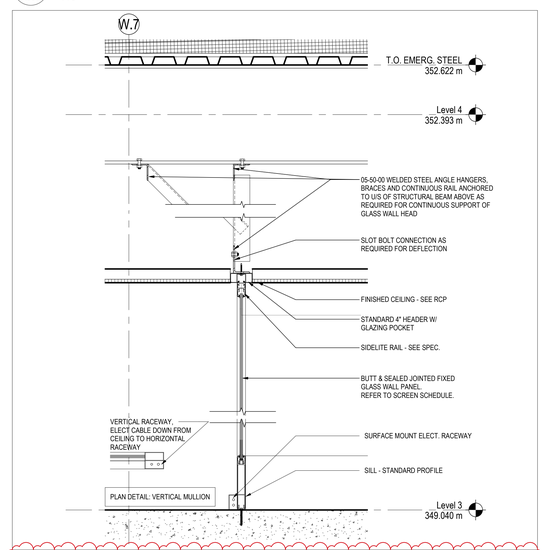
11 A605 **FLOOR TRANSITION DETAILS**
1 : 5



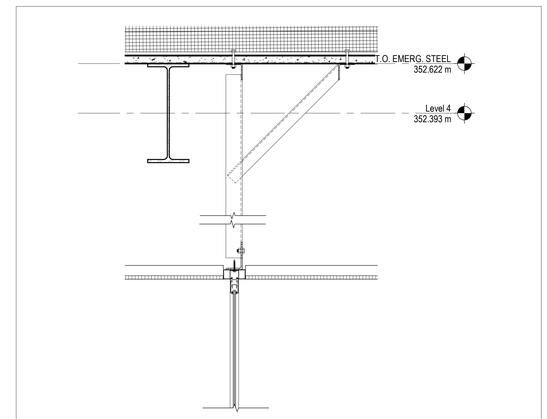
5 A605 **FLOOR TRANSITION DETAIL**
1 : 5, REF: 1/ A303.1/



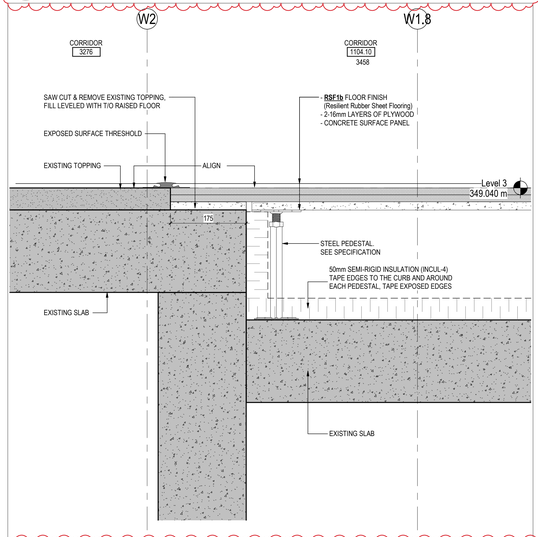
6 A605 **SECTION DETAIL @ PATIENT ROOM EXTERIOR WALL SCREEN**
1 : 5, REF: 6/ A562/



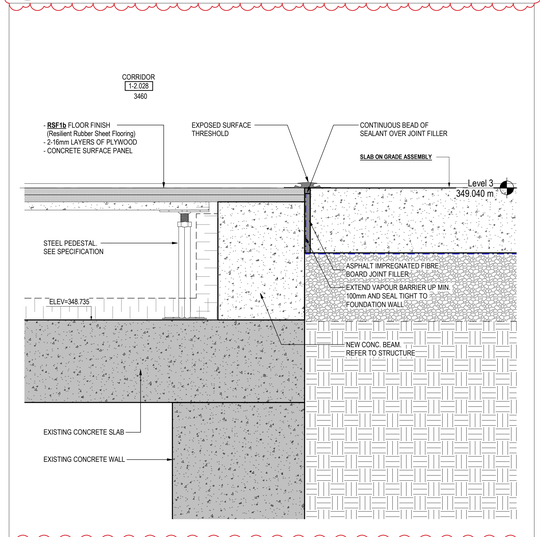
7 A605 **SD - GLASS SCREEN FIXED TO STRUCTURE BEAM**
1 : 10, REF: 1/ A303.1/



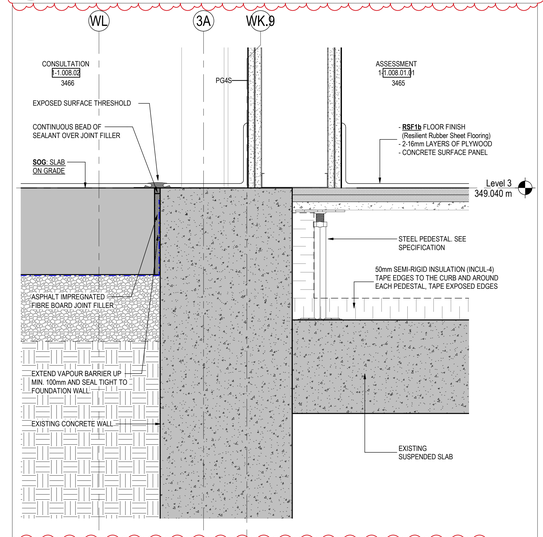
8 A605 **SD - GLASS SCREEN FIXED TO METAL DECK**
1 : 10, REF: 1/ A303.1/



1 A605 **FLOOR TRANSITION DETAIL**
1 : 5, REF: 1/ A303.1/



2 A605 **FLOOR TRANSITION DETAIL**
1 : 5, REF: 1/ A303.1/



3 A605 **FLOOR TRANSITION DETAIL**
1 : 5, REF: 1/ A303.1/

Stantec
Stantec Architecture Ltd.
100-401 Wellington Street West
Toronto, M5V 1E7
Tel: (416) 596-6686 • www.stantec.com

Consultant

Notes

16	ISSUED FOR ADDENDUM No.3			2024.07.05
12	ISSUED FOR TENDER			2024.06.07
11	ISSUED FOR PRE-TENDER			2024.05.27
9	ISSUED FOR BUILDING PERMIT			2024.03.26
8	ISSUED FOR STAGE 2.3 MOH SUBMISSION			2024.02.23
6	ISSUED FOR COSTING AND CQSH REVIEW			2023.12.21
5	ISSUED FOR 60% CONSTRUCTION DOCUMENTS			2023.10.24
Issued/Revision			By	Appd YYYY.MM.DD

File Name: N/A | Author Dwn. | Designer Dsgn. | Checker Chkd. | 08/22/23 YYYY.MM.DD

Permit/Seal

Client/Project Logo

GUELPH GENERAL HOSPITAL

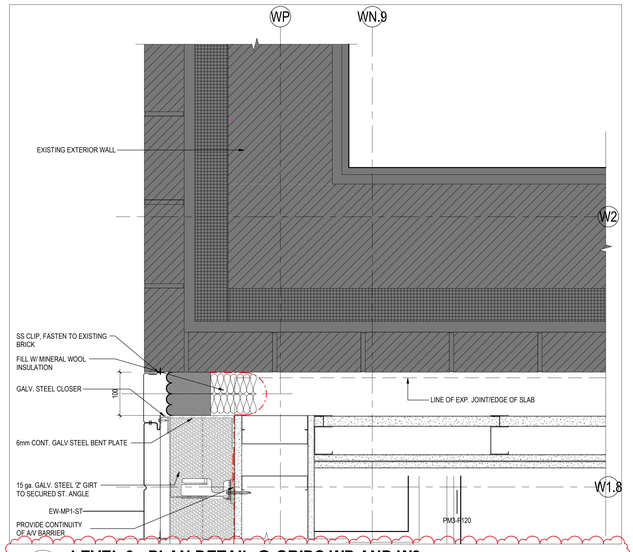
Client/Project
GUELPH GENERAL HOSPITAL

Emergency Mental Health and Addictions Services Relocation and Emergency Department Expansion

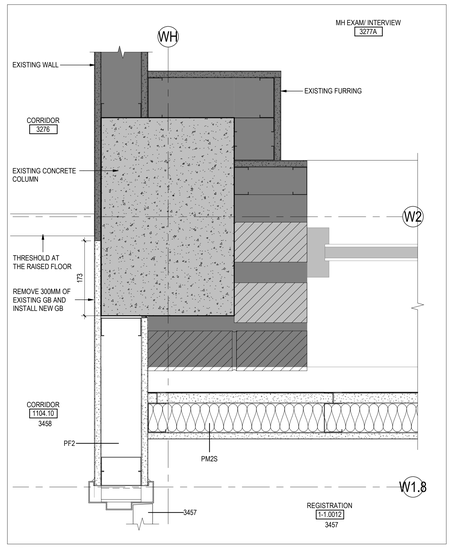
115 DELHI STREET, GUELPH ON N1E 4J4

Title
PHASE 1 - SECTION DETAILS INTERIOR

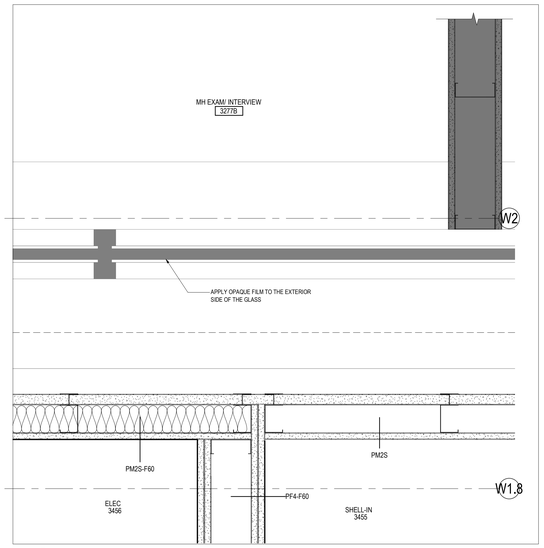
Project No. 140022022 | Scale As indicated
Revision 16 | Drawing No. A605



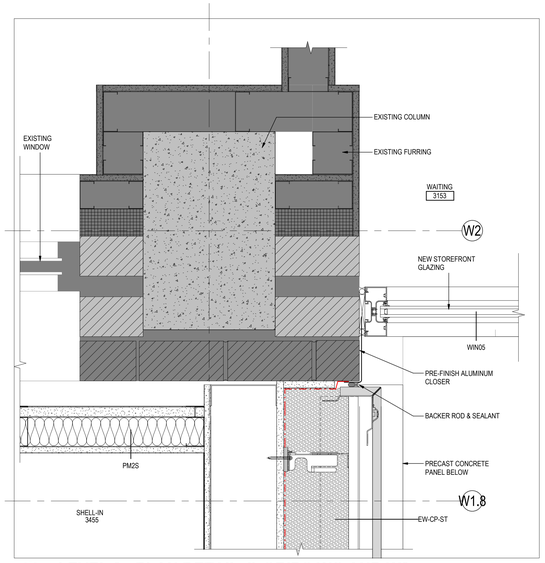
10 LEVEL 3 - PLAN DETAIL @ GRIDS WP AND W2
A610 1 : 5, REF: 1/ A303.1/



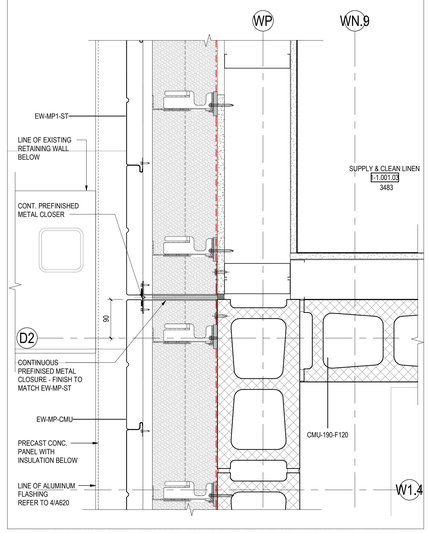
11 LEVEL 3 - PLAN DETAIL @ GRIDS WH AND W2
A610 1 : 5, REF: 1/ A303.1/



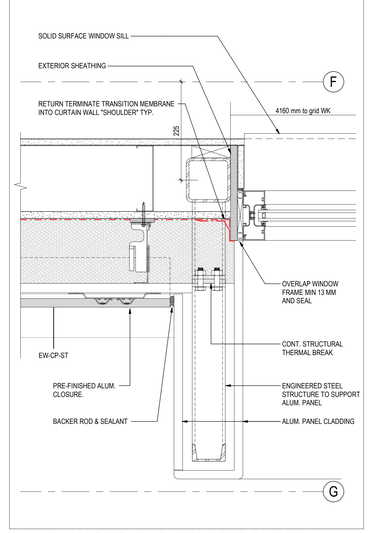
12 LEVEL 3 - PLAN DETAIL @ GRID W2
A610 1 : 5, REF: 1/ A303.1/



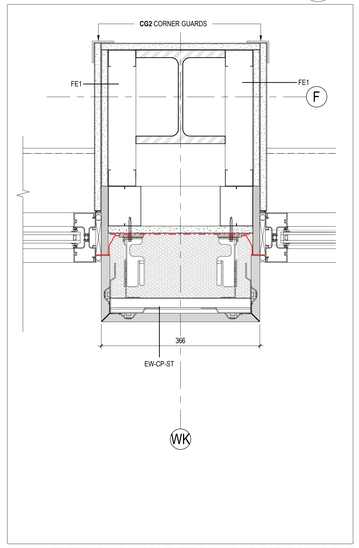
13 LEVEL 3 - PLAN DETAIL @ GRIDS WG AND W2
A610 1 : 5, REF: 1/ A303.1/



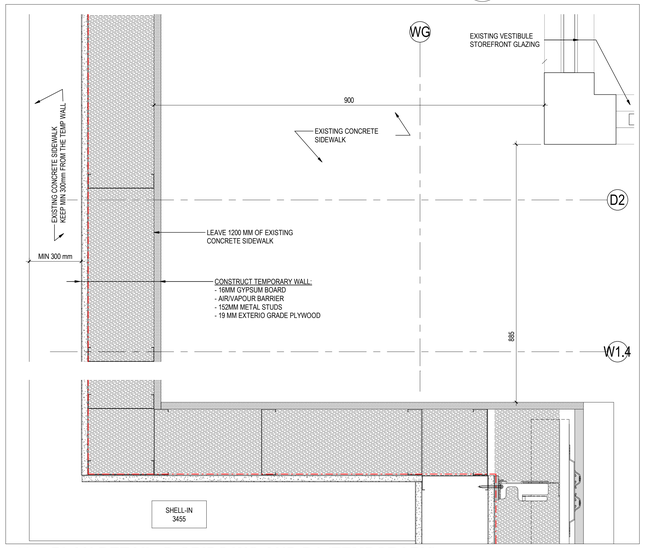
5 LEVEL 3 - PLAN DETAIL @ GRIDS WP AND D2
A610 1 : 5, REF: 1/ A303.1/



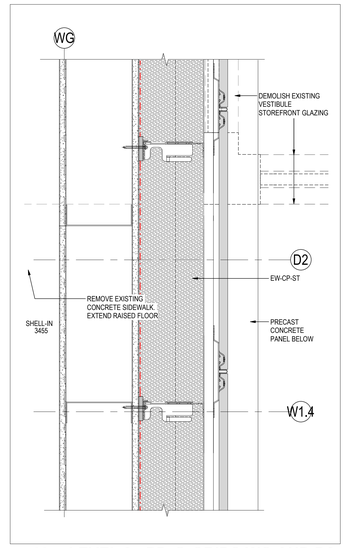
6 PLAN DETAIL @ STOREFRONT FIN
A610 1 : 5, REF: 1/ A303.1/



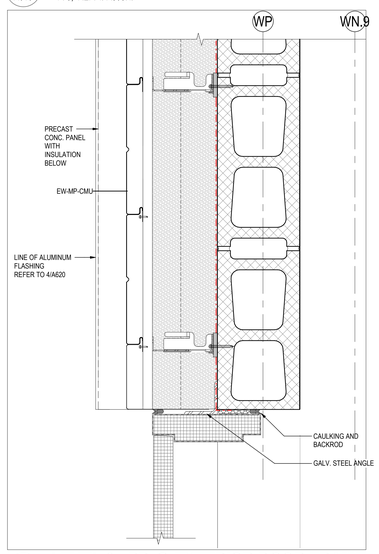
7 LEVEL 3 - PLAN DETAIL @ GRIDS WK & F
A610 1 : 5, REF: 1/ A303.1/



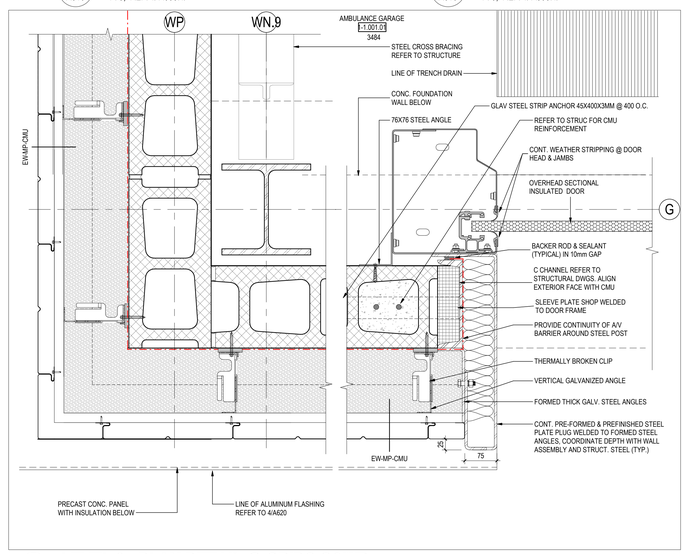
8 PLAN DETAIL @ GRIDS WG AND D1 (TEMPORARY)
A610 1 : 5,



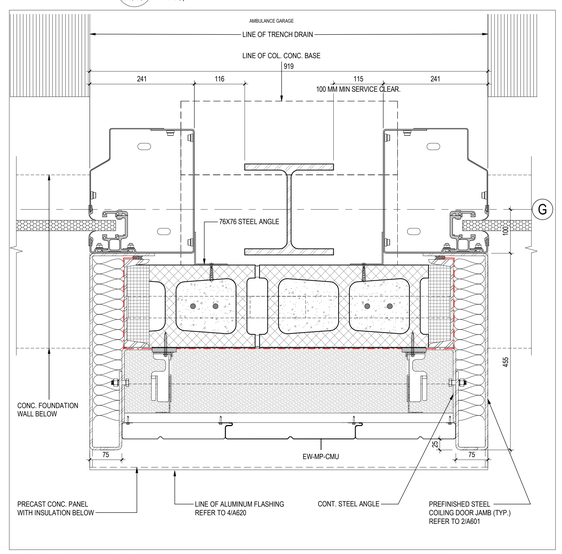
9 LEVEL 3 - PD @ GRIDS WG AND D2
A610 1 : 5, REF: 1/ A303.1/



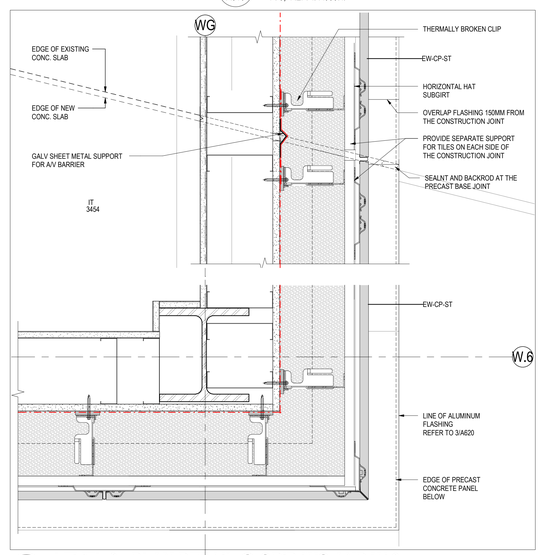
1 LEVEL 3 - PD @ EXTERIOR DOOR FRAME
A610 1 : 5, REF: 1/ A303.1/



2 LEVEL 3 - PLAN DETAIL @ GRIDS G&WP
A610 1 : 5, REF: 1/ A303.1/



3 LEVEL 3 - PLAN DETAIL @ GARAGE DOOR FRAME
A610 1 : 5, REF: 1/ A303.1/



4 LEVEL 3 - PLAN DETAIL @ GRID WG AND W.6
A610 1 : 5, REF: 1/ A303.1/

Stantec

Stantec Architecture Ltd.
100-401 Wellington Street West
Toronto, M5V 1E7
Tel: (416) 596-6686 • www.stantec.com

Consultant

Notes

16	ISSUED FOR ADDENDUM No.3		2024.07.05
15	ISSUED FOR ADDENDUM No.2		2024.04.23
12	ISSUED FOR TENDER		2024.06.07
11	ISSUED FOR PRE-TENDER		2024.05.27
9	ISSUED FOR BUILDING PERMIT		2024.03.28
8	ISSUED FOR STAGE 2.3 MOH SUBMISSION		2024.02.23
6	ISSUED FOR COSTING AND QQA REVIEW		2023.12.21
5	ISSUED FOR 40% CONSTRUCTION DOCUMENTS		2023.10.26
Issued/Revision		By	Appd YYYY.MM.DD

File name: N/A	Author	Designer	Checker	08/14/23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

GUELPH GENERAL HOSPITAL

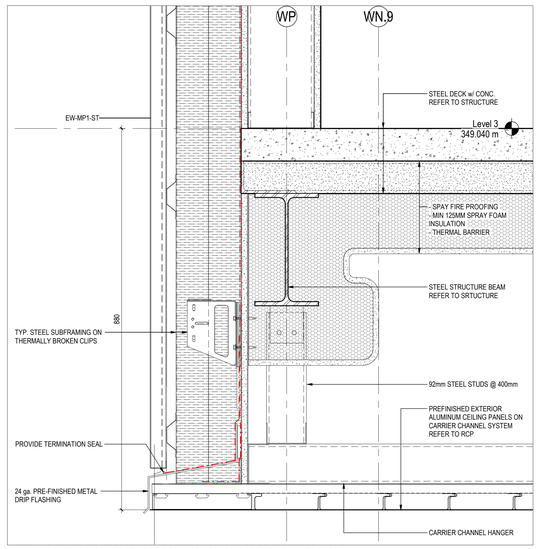
Client/Project
GUELPH GENERAL HOSPITAL

Emergency Mental Health and Addictions Services Relocation and Emergency Department Expansion

115 DELHI STREET, GUELPH ON N1E 4J4

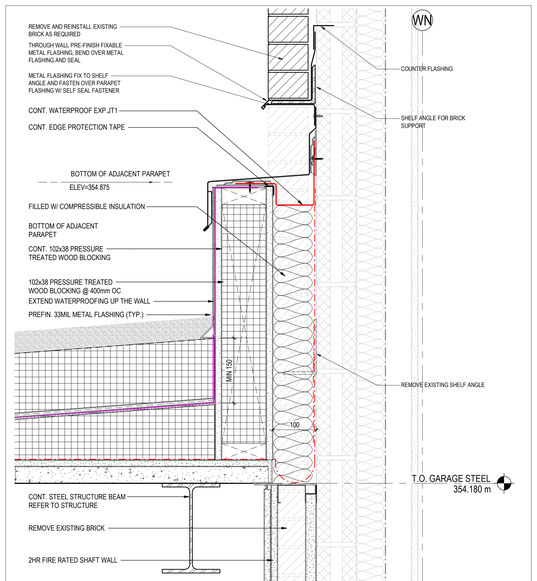
Title
PHASE 1 - PLAN DETAILS EXTERIOR

Project No.	Scale
140022022	1 : 5
Revision	Drawing No.
16	A610



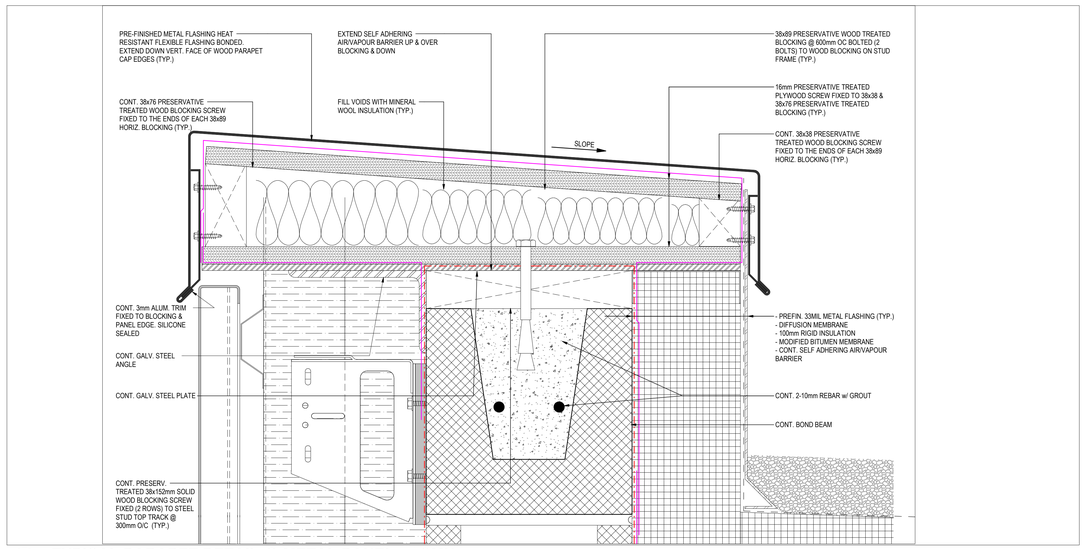
9 A622 — **SECTION DETAIL @ GRID WP AND W2**

1 : 5, REF: 2/ A562/



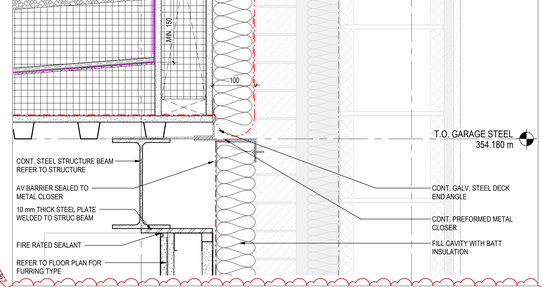
10 A622 — **WALL SECTION - EXISTING OVERHANG @ GRID WN - Callout 1**

1 : 5



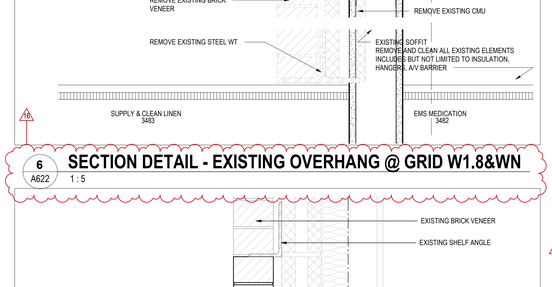
11 A622 — **TYPICAL PARAPET DETAIL @ METAL PANEL w/ CMU**

1 : 2, REF: 2/ A630/



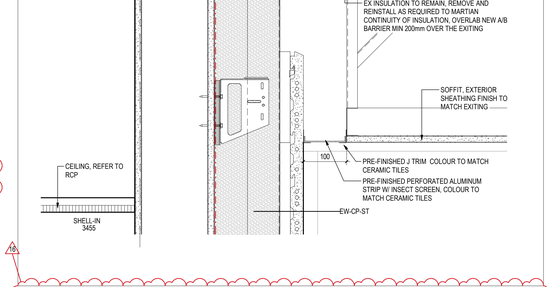
5 A622 — **SECTION DETAIL @ EXPANSION JOINT**

1 : 5, REF: 1/ A304.1/



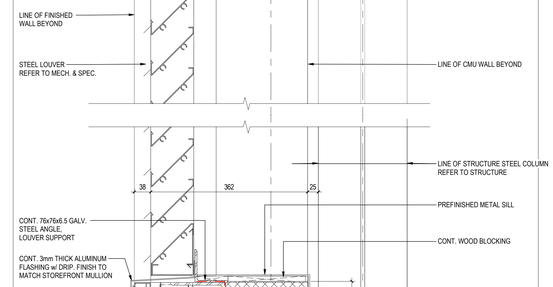
6 A622 — **SECTION DETAIL - EXISTING OVERHANG @ GRID W1.8&WN**

1 : 5



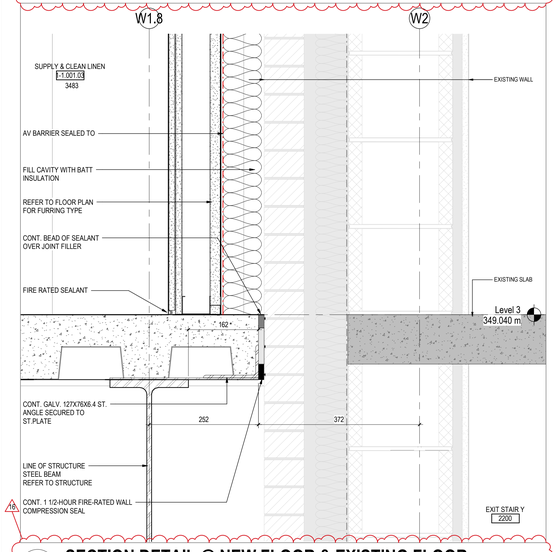
7 A622 — **SECTION DETAIL - SOFFIT AT SNT ENTRANCE**

1 : 5



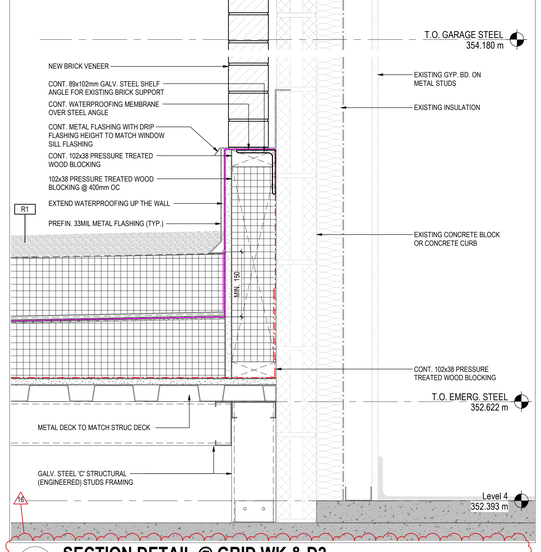
4 A622 — **SECTION DETAIL @ LOUVER SILL & HEAD (TYP.)**

1 : 5, REF: 1/ A303.1/



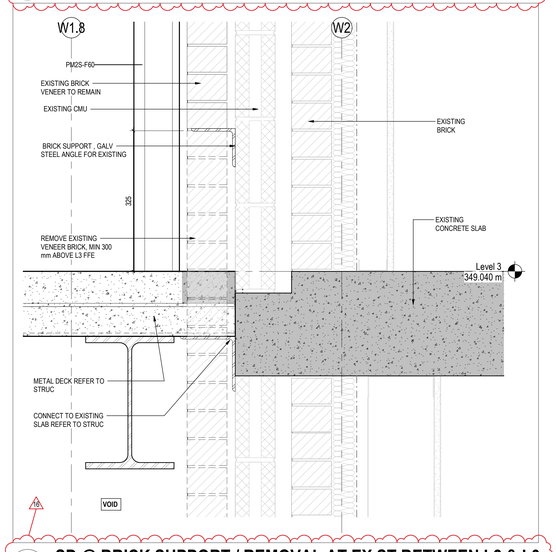
1 A622 — **SECTION DETAIL @ NEW FLOOR & EXISTING FLOOR**

1 : 5, REF: 1/ A303.1/



2 A622 — **SECTION DETAIL @ GRID WK & D2**

1 : 5, REF: 1/ A304.1/



3 A622 — **SD @ BRICK SUPPORT / REMOVAL AT EX ST BETWEEN L2 & L3**

1 : 5, REF: 1/ A562/

Stantec
Stantec Architecture Ltd.
100-401 Wellington Street West
Toronto, M5V 1E7
Tel: (416) 596-6686 • www.stantec.com

Consultant

Notes

16	ISSUED FOR ADDENDUM No.3			2024.07.05
12	ISSUED FOR TENDER			2024.06.07
11	ISSUED FOR PRE-TENDER			2024.05.07
9	ISSUED FOR BUILDING PERMIT			2024.03.28
8	ISSUED FOR STAGE 2.3 MOH SUBMISSION			2024.02.23
6	ISSUED FOR COSTING AND QSH REVIEW			2023.12.21
5	ISSUED FOR 40% CONSTRUCTION DOCUMENTS			2023.10.26
Issued/Revision		By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	08/22/23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

GUELPH GENERAL HOSPITAL

Client/Project
GUELPH GENERAL HOSPITAL

Emergency Mental Health and Addictions Services Relocation and Emergency Department Expansion

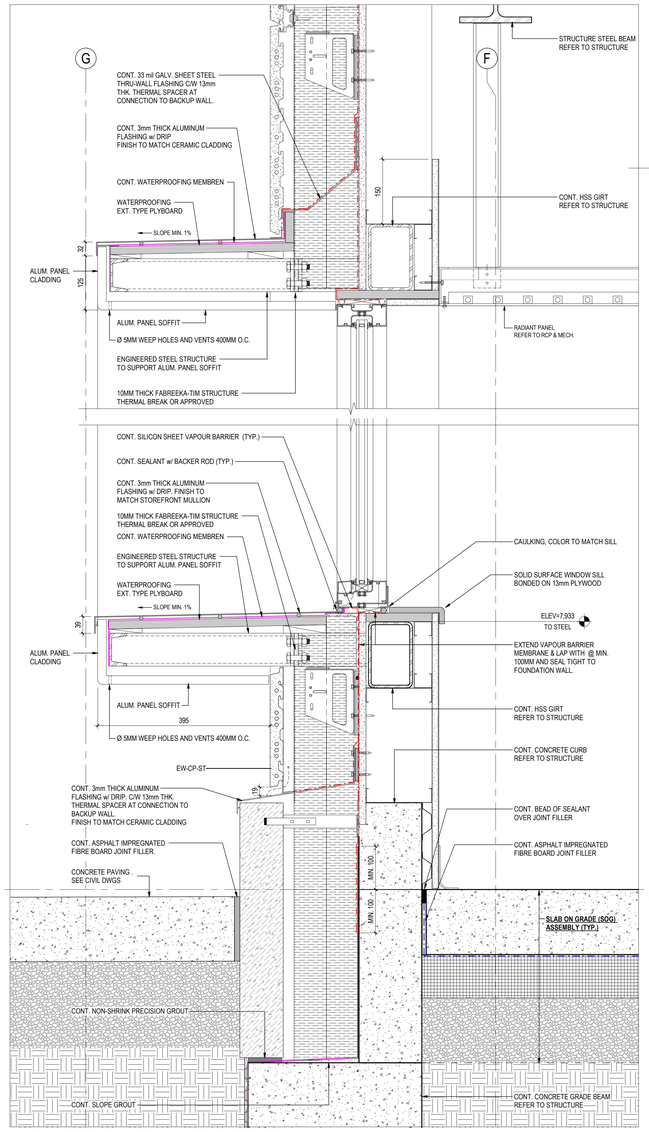
115 DELHI STREET, GUELPH ON N1E 4J4

Title
PHASE 1 - ENVELOPE SECTION DETAILS

Project No.	Scale
140022022	As indicated
Revision	Drawing No.
16	A622

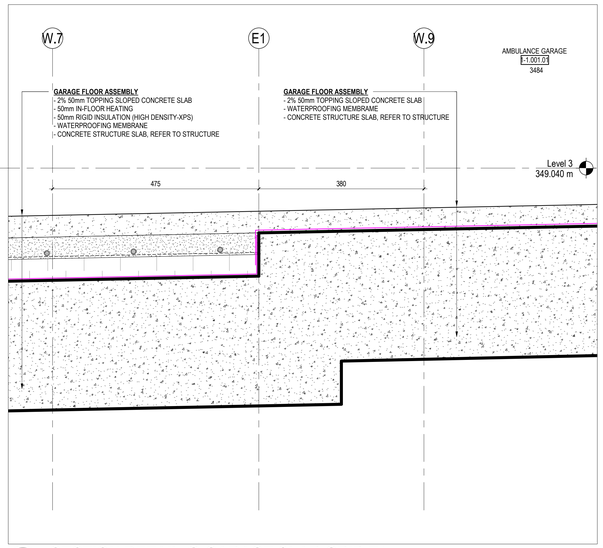
1 SECTION DETAIL AMBULANCE GARAGE NORTH WALL AND ROOF DRAIN

A621 1 : 5



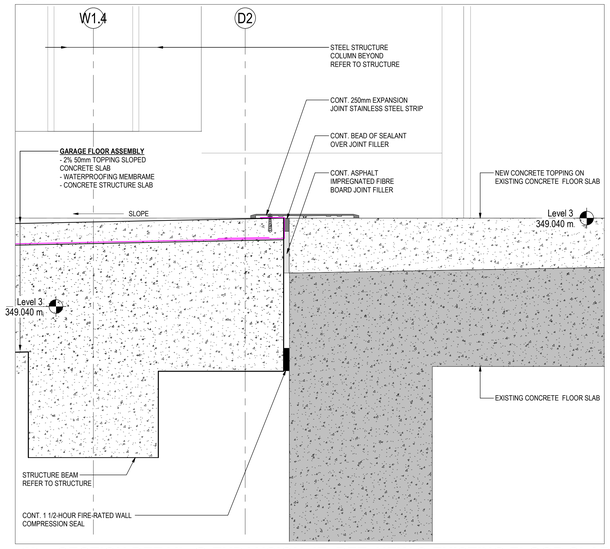
5 SECTION DETAIL STOREFRONT FIN

A621 1 : 5, REF: 5/ A561/



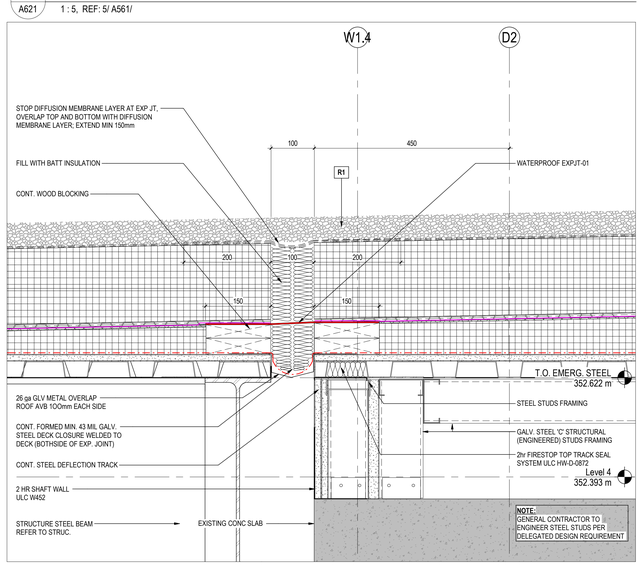
9 SECTION DETAIL @ GARAGE SLAB GRID E1

A621 1 : 5, REF: 1/ A303.1/



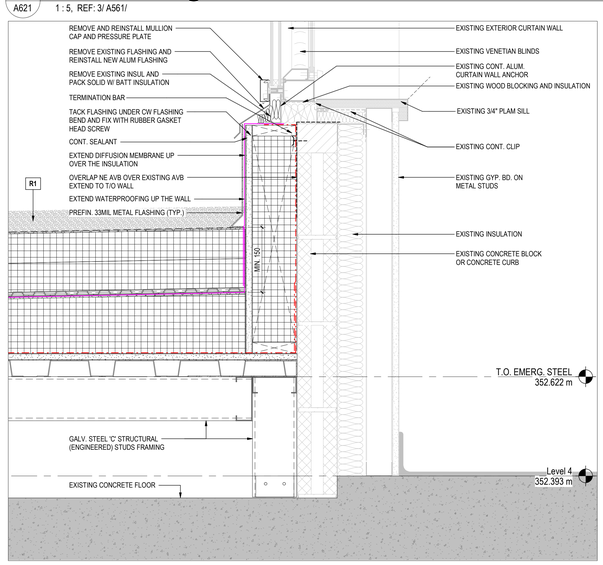
6 SECTION DETAIL @ EXPANSION JT. BET. NEW & EXISTING FLOOR SLAB

A621 1 : 5, REF: 3/ A561/



2 SECTION DETAIL - ROOF EXPANSION JOINT

A621 1 : 5, REF: 1/ A562/



3 SECTION DETAIL - NEW ROOF - EX SOUTH WALL LEVEL 4

A621 1 : 5, REF: 1/ A562/

Stantec

Stantec Architecture Ltd.
100-401 Wellington Street West
Toronto, M5V 1E7
Tel: (416) 596-6686 • www.stantec.com

Consultant

Notes

16	ISSUED FOR ADDENDUM No.3			2024.07.05
12	ISSUED FOR TENDER			2024.06.07
11	ISSUED FOR PRE-TENDER			2024.05.27
9	ISSUED FOR BUILDING PERMIT			2024.03.28
8	ISSUED FOR STAGE 2.3 MOH SUBMISSION			2024.02.29
6	ISSUED FOR COSTING AND QQH REVIEW			2023.12.21
5	ISSUED FOR 60% CONSTRUCTION DOCUMENTS			2023.10.26
Issued/Revision		By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	08/22/23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

GUELPH GENERAL HOSPITAL

Client/Project

GUELPH GENERAL HOSPITAL

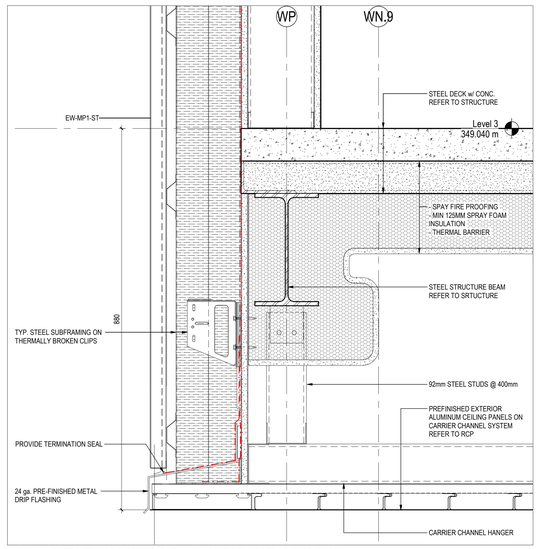
Emergency Mental Health and Addictions Services Relocation and Emergency Department Expansion

115 DELHI STREET, GUELPH ON N1E 4J4

Title

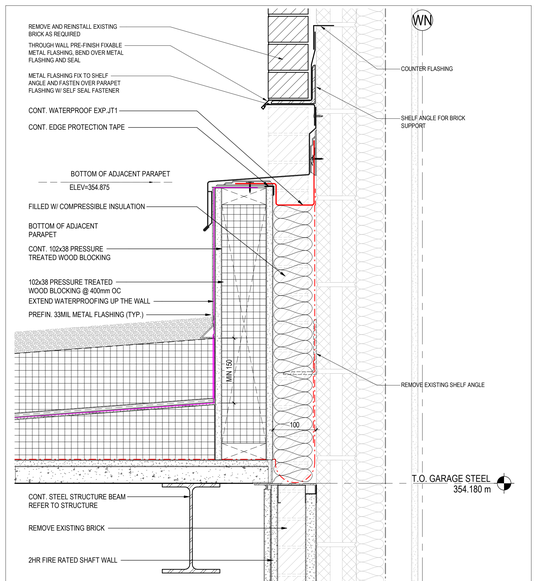
PHASE 1 - ENVELOPE SECTION DETAILS

Project No.	Scale
140022022	1 : 5
Revision	Drawing No.
16	A621



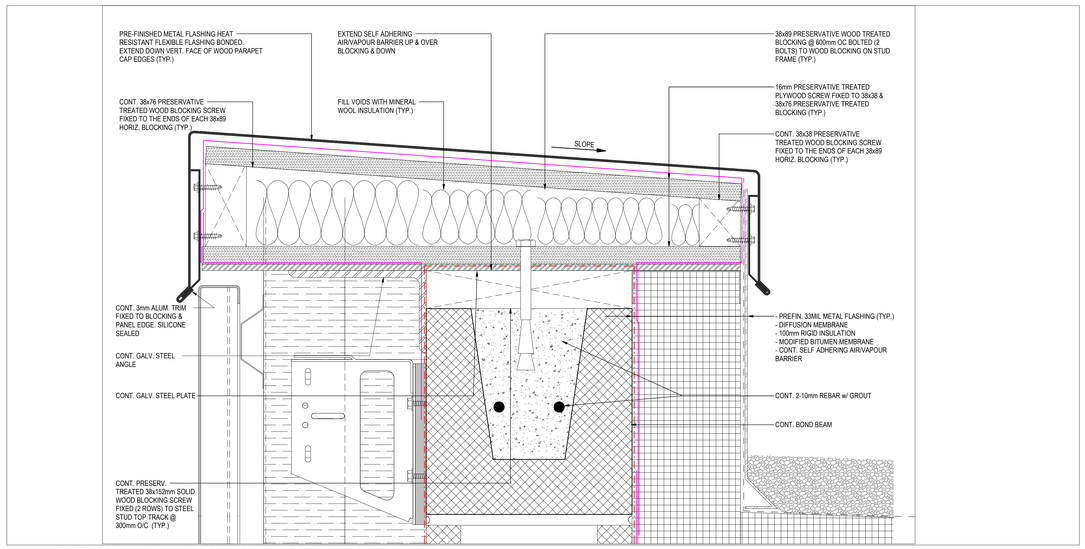
9 A622 — **SECTION DETAIL @ GRID WP AND W2**

1 : 5, REF: 2/ A562/



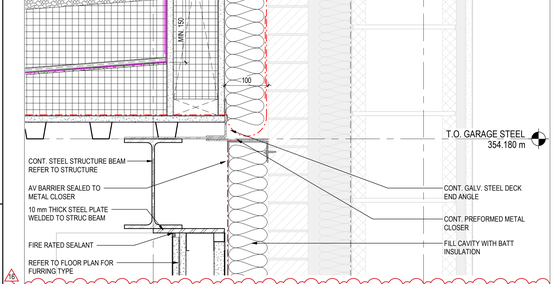
10 A622 — **WALL SECTION - EXISTING OVERHANG @ GRID WN - Callout 1**

1 : 5



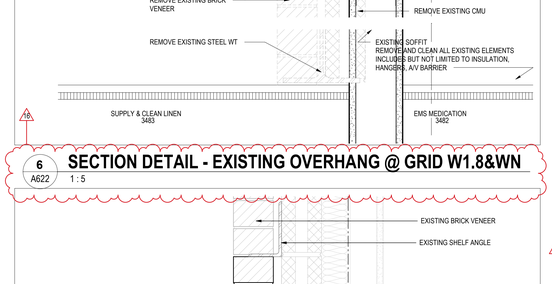
11 A622 — **TYPICAL PARAPET DETAIL @ METAL PANEL w/ CMU**

1 : 2, REF: 2/ A630/



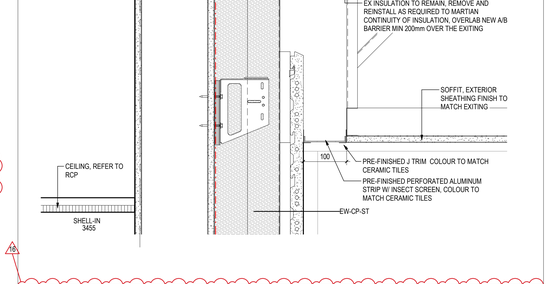
5 A622 — **SECTION DETAIL @ EXPANSION JOINT**

1 : 5, REF: 1/ A304.1/



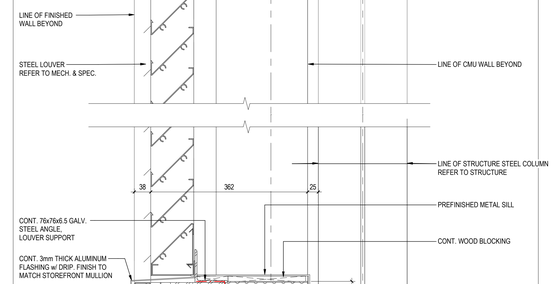
6 A622 — **SECTION DETAIL - EXISTING OVERHANG @ GRID W1.8&WN**

1 : 5



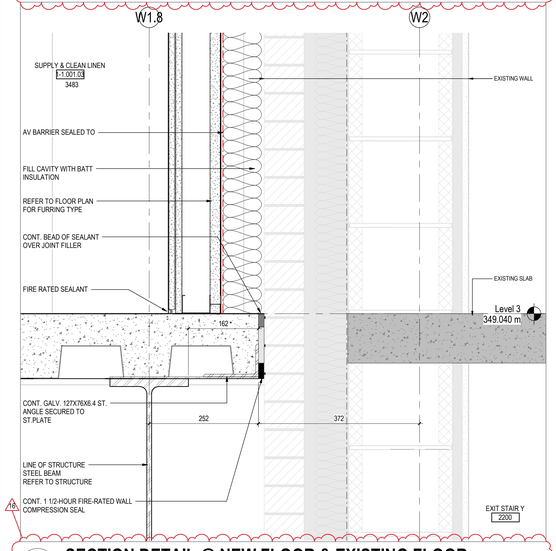
7 A622 — **SECTION DETAIL - SOFFIT AT SNT ENTRANCE**

1 : 5



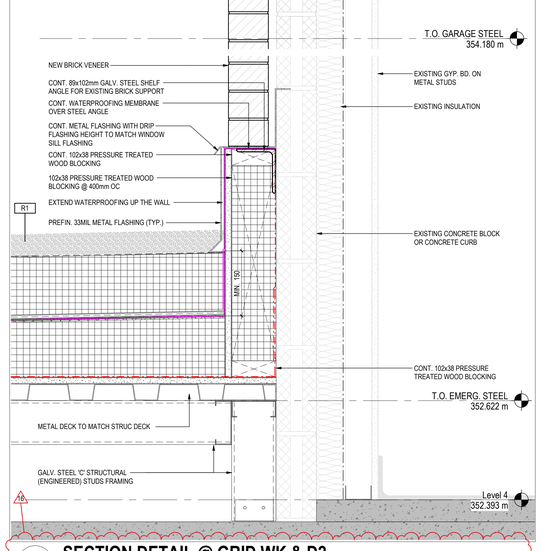
4 A622 — **SECTION DETAIL @ LOUVER SILL & HEAD (TYP.)**

1 : 5, REF: 1/ A303.1/



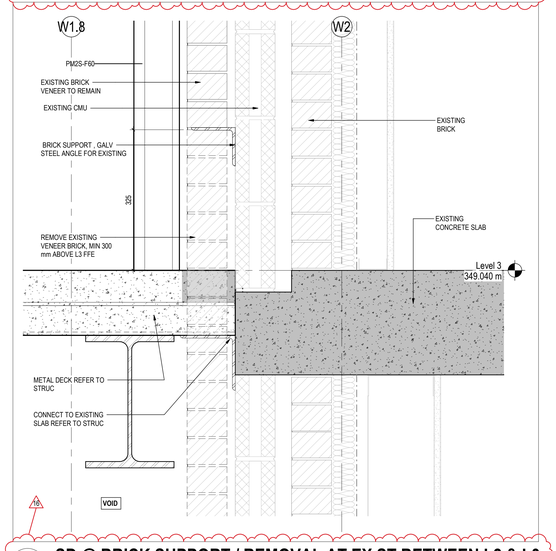
1 A622 — **SECTION DETAIL @ NEW FLOOR & EXISTING FLOOR**

1 : 5, REF: 1/ A303.1/



2 A622 — **SECTION DETAIL @ GRID WK & D2**

1 : 5, REF: 1/ A304.1/



3 A622 — **SD @ BRICK SUPPORT / REMOVAL AT EX ST BETWEEN L2 & L3**

1 : 5, REF: 1/ A562/

Stantec
Stantec Architecture Ltd.
100-401 Wellington Street West
Toronto, M5V 1E7
Tel: (416) 596-6686 • www.stantec.com

Consultant

Notes

	Issued/Revision	By	Appd	YYYY.MM.DD
16	ISSUED FOR ADDENDUM No.3			2024.07.05
12	ISSUED FOR TENDER			2024.06.07
11	ISSUED FOR PRE-TENDER			2024.05.07
9	ISSUED FOR BUILDING PERMIT			2024.03.28
8	ISSUED FOR STAGE 2.3 MOH SUBMISSION			2024.02.23
6	ISSUED FOR COSTING AND QSH REVIEW			2023.12.21
5	ISSUED FOR 40% CONSTRUCTION DOCUMENTS			2023.10.26

File Name: N/A	Author	Designer	Checker	08/22/23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

GUELPH GENERAL HOSPITAL

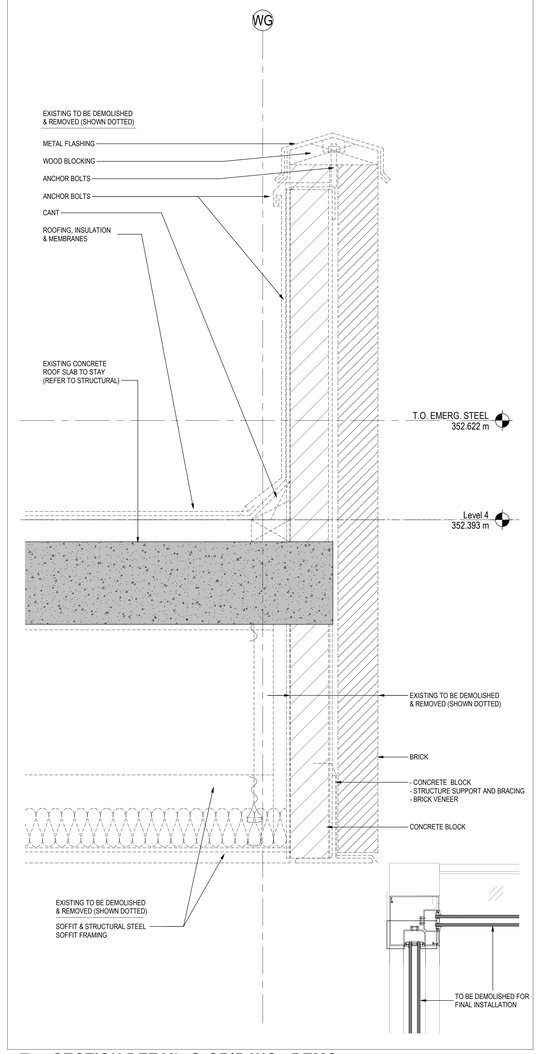
Client/Project
GUELPH GENERAL HOSPITAL

Emergency Mental Health and Addictions Services Relocation and Emergency Department Expansion

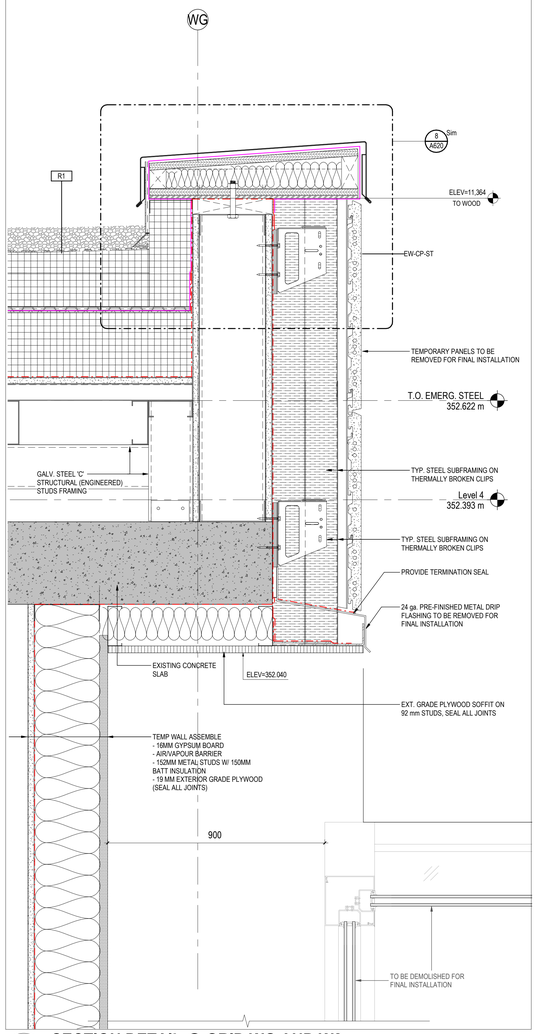
115 DELHI STREET, GUELPH ON N1E 4J4

Title
PHASE 1 - ENVELOPE SECTION DETAILS

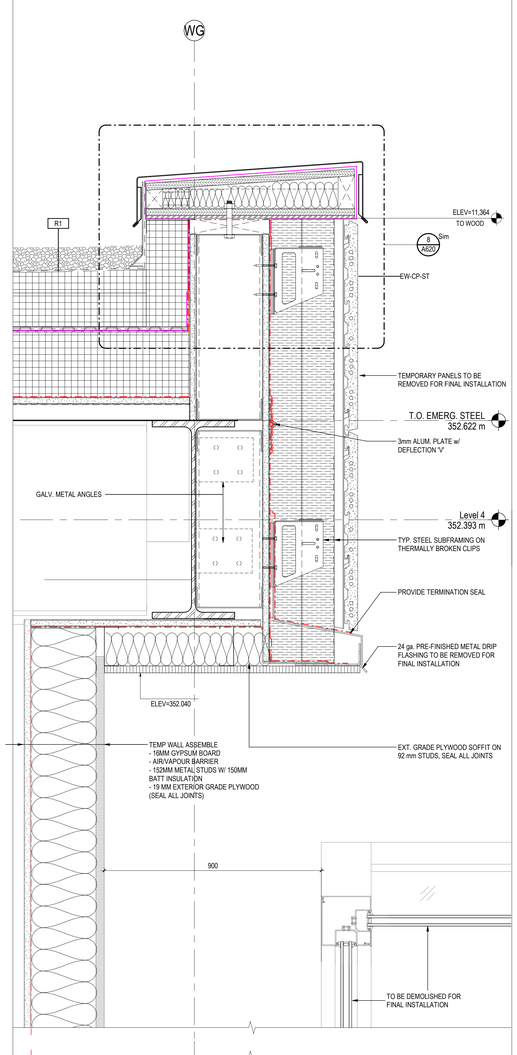
Project No. 140022022
Scale As indicated
Revision 16
Drawing No. **A622**



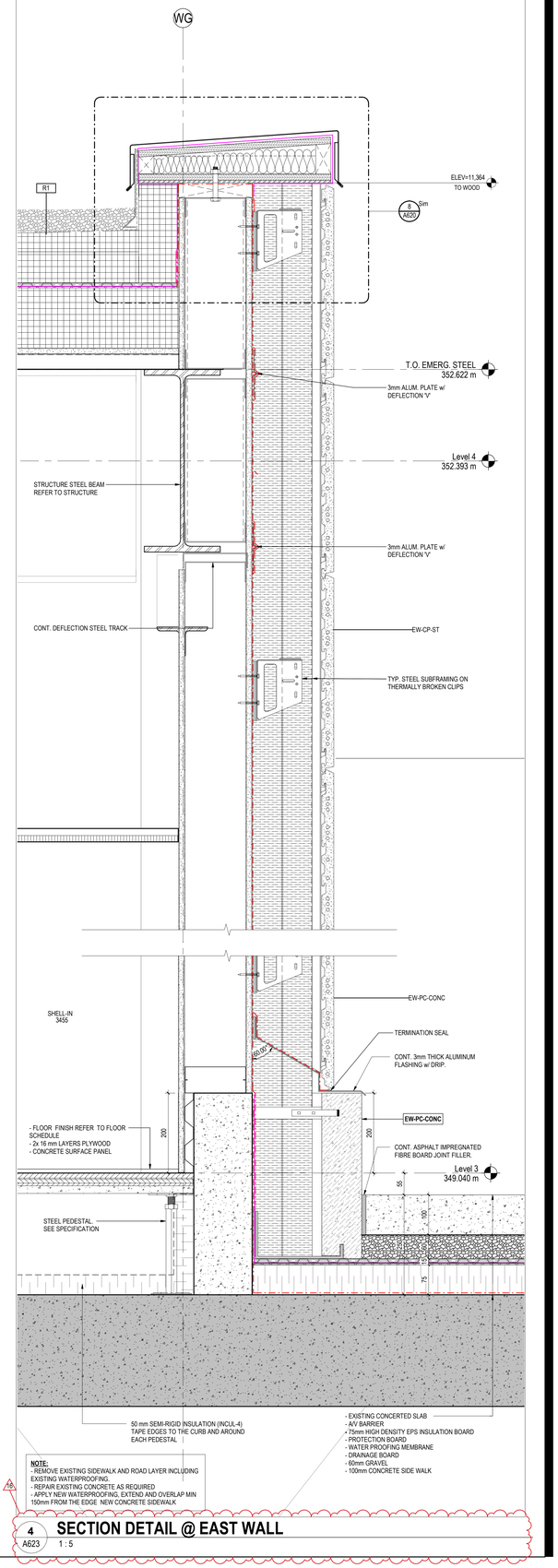
5 A623 **SECTION DETAIL @ GRID WG - DEMO**
1 : 5



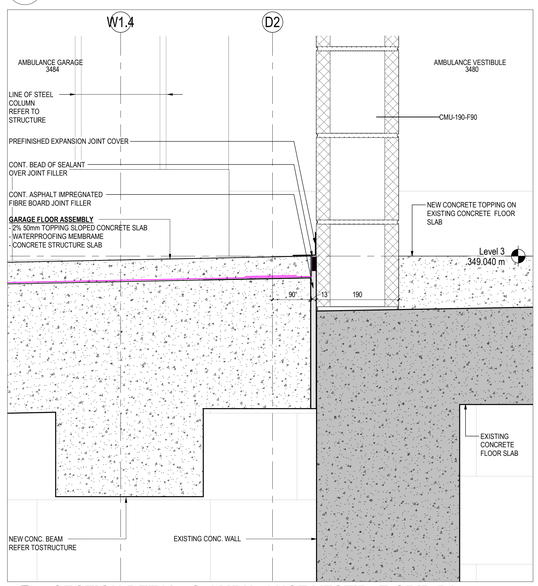
6 A623 **SECTION DETAIL @ GRID WG AND W2** (Temporary closer for east wall @ existing slab)
1 : 5



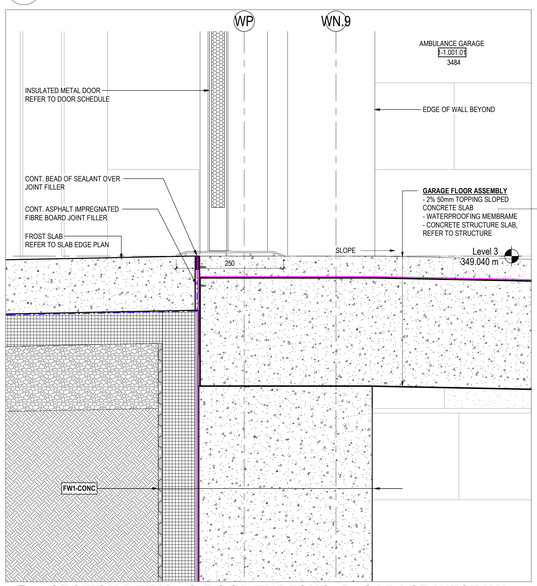
3 A623 **SECTION DETAIL @ GRID WG AND D4** (Temporary closer for east wall at new steel structure)
1 : 5



4 A623 **SECTION DETAIL @ EAST WALL**
1 : 5



1 A623 **SECTION DETAIL @ AMBULANCE VESTIBLE GRID D2**
1 : 5



2 A623 **SECTION DETAIL @ DOOR THRESHOLD, GARAGE WEST WALL**
1 : 5

Consultant

KEY PLAN

Notes

16	ISSUED FOR ADDENDUM No.3			2024.07.05
15	ISSUED FOR ADDENDUM No.2			2024.06.21
12	ISSUED FOR TENDER			2024.06.07
11	ISSUED FOR PRE-TENDER			2024.05.27
9	ISSUED FOR BUILDING PERMIT			2024.03.28
8	ISSUED FOR STAGE 2.3 MOH SUBMISSION			2024.02.23
4	ISSUED FOR COSTING AND QQH REVIEW			2023.12.21
Issued/Revision		By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	12/21/23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

GUELPH GENERAL HOSPITAL

Client/Project

GUELPH GENERAL HOSPITAL

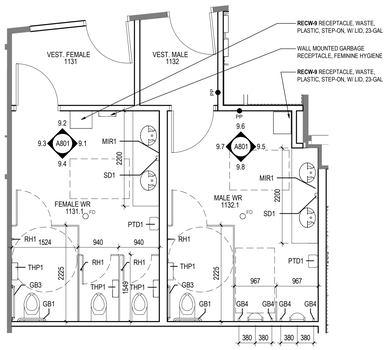
Emergency Mental Health and Addictions Services Relocation and Emergency Department Expansion

115 DELHI STREET, GUELPH ON N1E 4J4

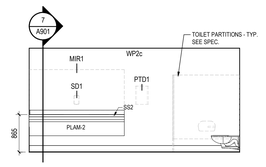
Title

PHASE 1 - ENVELOPE SECTION DETAILS

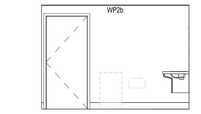
Project No. 140022022	Scale 1 : 5
Revision 16	Drawing No. A623



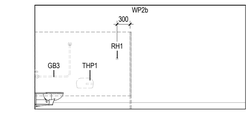
9 A801 FLOOR PLAN - MALE & FEMALE WASHROOMS
1 : 50



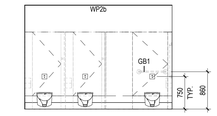
9.1 A801 F WR - EAST ELEV.
1 : 50



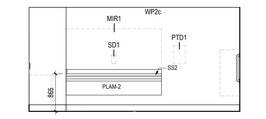
9.2 A801 F WR - NORTH ELEV.
1 : 50



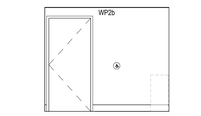
9.3 A801 F WR - WEST ELEV.
1 : 50



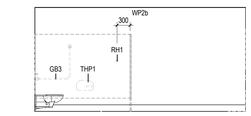
9.4 A801 F WR - SOUTH ELEV.
1 : 50



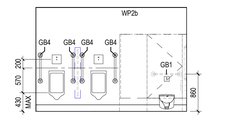
9.5 A801 M WR - EAST ELEV.
1 : 50



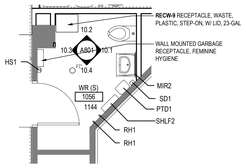
9.6 A801 M WR - NORTH ELEV.
1 : 50



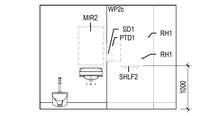
9.7 A801 M WR - WEST ELEV.
1 : 50



9.8 A801 M WR - SOUTH ELEV.
1 : 50

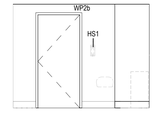


10 A801 FLOOR PLAN - WR
1 : 50



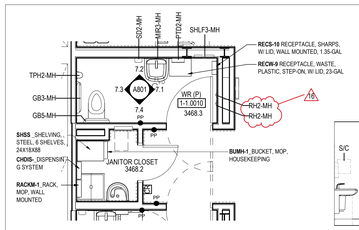
10.1 A801 EAST ELEV.
1 : 50

10.2 A801 WEST ELEV.
1 : 50

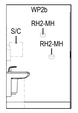


10.3 A801 NORTH ELEV.
1 : 50

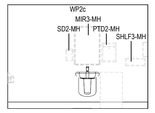
10.4 A801 SOUTH ELEV.
1 : 50



7 A801 FLR PLN-WR PUBLIC - JANITOR CLOSET
1 : 50

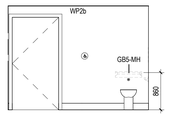


7.1 A801 EAST ELEV.
1 : 50

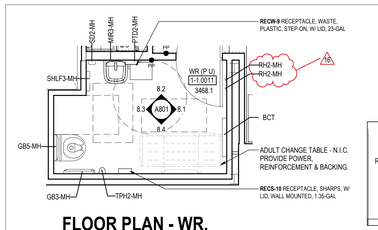


7.2 A801 NORTH ELEV.
1 : 50

7.3 A801 WEST ELEV.
1 : 50

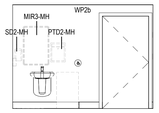


7.4 A801 SOUTH ELEV.
1 : 50

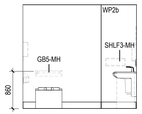


8 A801 FLOOR PLAN - WR, PUBLIC, UNIVERSAL, BARIATRIC
1 : 50

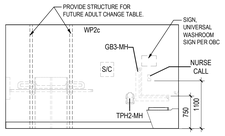
8.1 A801 EAST ELEV.
1 : 50



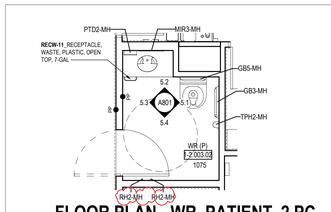
8.2 A801 NORTH ELEV.
1 : 50



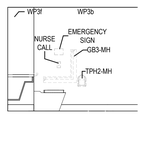
8.3 A801 WEST ELEV.
1 : 50



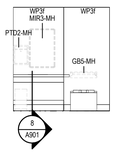
8.4 A801 SOUTH ELEV.
1 : 50



5 A801 FLOOR PLAN - WR, PATIENT, 2 PC, BARIATRIC
1 : 50

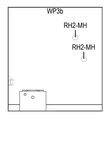


5.1 A801 EAST ELEV.
1 : 50

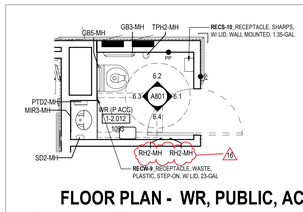


5.2 A801 NORTH ELEV.
1 : 50

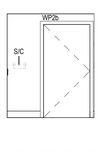
5.3 A801 WEST ELEV.
1 : 50



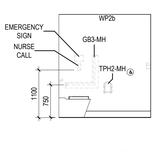
5.4 A801 SOUTH ELEV.
1 : 50



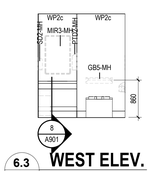
6 A801 FLOOR PLAN - WR, PUBLIC, ACCESS., BARIATRIC
1 : 50



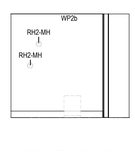
6.1 A801 EAST ELEV.
1 : 50



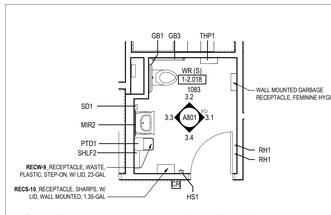
6.2 A801 NORTH ELEV.
1 : 50



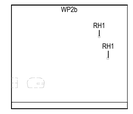
6.3 A801 WEST ELEV.
1 : 50



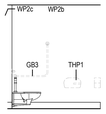
6.4 A801 SOUTH ELEV.
1 : 50



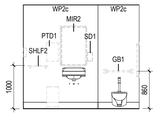
3 A801 FLOOR PLAN - WR, STAFF
1 : 50



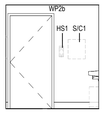
3.1 A801 EAST ELEV.
1 : 50



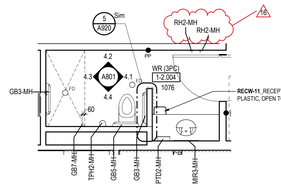
3.2 A801 NORTH ELEV.
1 : 50



3.3 A801 WEST ELEV.
1 : 50

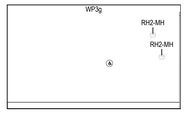


3.4 A801 SOUTH ELEV.
1 : 50

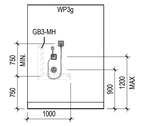


4 A801 FLOOR PLAN - WR, PATIENT, 3 PC
1 : 50

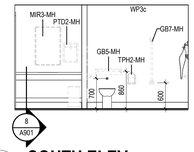
4.1 A801 EAST ELEV.
1 : 50



4.2 A801 NORTH ELEV.
1 : 50



4.3 A801 WEST ELEV.
1 : 50



4.4 A801 SOUTH ELEV.
1 : 50

1 A801 FLOOR PLAN - 3 PC WR ACCESS.
1 : 50

1.1 A801 EAST ELEV.
1 : 50

1.2 A801 NORTH ELEV.
1 : 50

1.3 A801 WEST ELEV.
1 : 50

1.4 A801 SOUTH ELEV.
1 : 50

Stantec

Stantec Architecture Ltd.
100-401 Wellington Street West
Toronto, M5V 1E7
Tel: (416) 596-6686 • www.stantec.com

Consultant

Notes

REFER TO DOOR SCHEDULE FOR DOOR TYPES

14	ISSUED FOR ADDENDUM No.3			2024.07.05
12	ISSUED FOR TENDER			2024.06.07
11	ISSUED FOR PRE-TENDER			2024.05.27
9	ISSUED FOR BUILDING PERMIT			2024.03.28
8	ISSUED FOR STAGE 2.3 MOH SUBMISSION			2024.02.23
6	ISSUED FOR COSTING AND GGH REVIEW			2023.12.21
5	ISSUED FOR 60% CONSTRUCTION DOCUMENTS			2023.10.26
3	ISSUED FOR MOH STAGE 2.2 SUBMISSION			2023.06.09
2	ISSUED FOR DD,COSTING AND CLIENT REVIEW			2023.03.29
Issued/Revision		By	Appd	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	03/07/23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

GUELPH GENERAL HOSPITAL

Client/Project

GUELPH GENERAL HOSPITAL

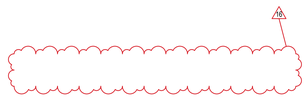
Emergency Mental Health and Addictions Services Relocation and Emergency Department Expansion

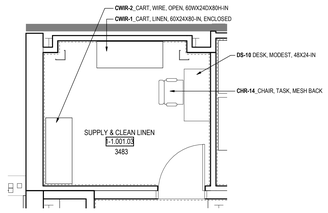
115 DELHI STREET, GUELPH ON N1E 4J4

Title

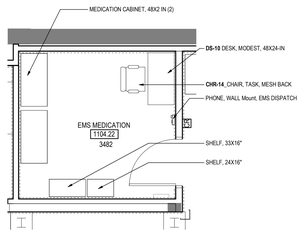
PHASE 1 - ENLARGED WASHROOMS PLANS & ELEVATIONS

Project No.	Scale
140022022	1 : 50
Revision	Drawing No.
16	A801

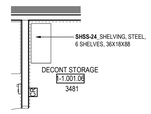




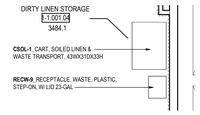
2 A807 **FLOOR PLAN - SUPPLY & CLEAN LINEN STORAGE**
1 : 50



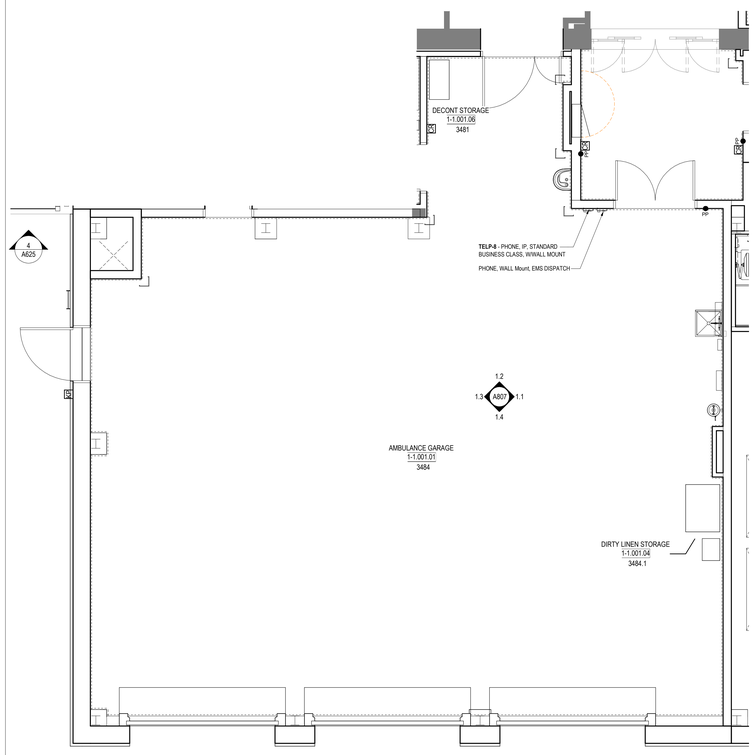
3 A807 **FLOOR OLAN - EMS MEDICATION**
1 : 50



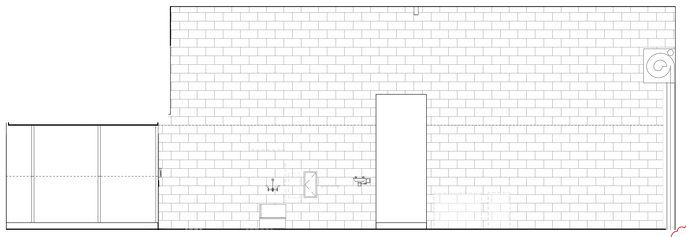
4 A807 **FLOOR PLAN - DECONTAMINATION STORAGE**
1 : 50



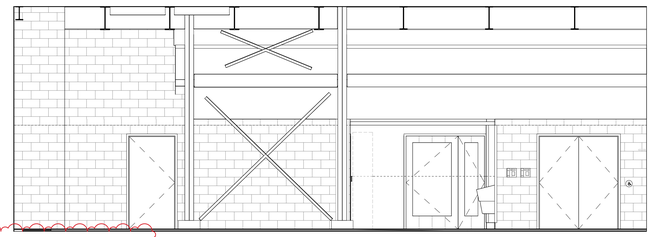
5 A807 **FLOOR PLAN - DIRTY LINEN STORAGE**
1 : 50



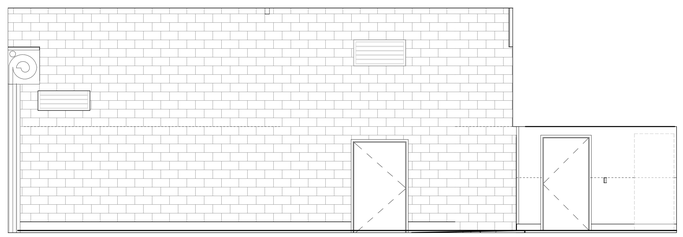
1 A807 **FLOOR PLAN - AMBULANCE GARAGE & STORAGE ALCOVES**
1 : 50



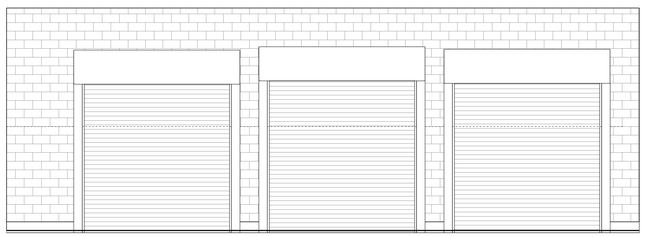
1.1 A807 **EAST ELEV.**
1 : 50



1.2 A807 **NORTH ELEV.**
1 : 50



1.3 A807 **WEST ELEV.**
1 : 50



1.4 A807 **SOUTH ELEV.**
1 : 50

Stantec

Stantec Architecture Ltd.
100-401 Wellington Street West
Toronto, M5V 1E7
Tel: (416) 596-6686 • www.stantec.com

Consultant

Notes

REFER TO DOOR SCHEDULE FOR DOOR TYPES

16	ISSUED FOR ADDENDUM No.3		2024.07.05
12	ISSUED FOR TENDER		2024.06.07
11	ISSUED FOR PRE-TENDER		2024.05.27
9	ISSUED FOR BUILDING PERMIT		2024.03.28
8	ISSUED FOR STAGE 2.3 MOH SUBMISSION		2024.02.23
6	ISSUED FOR COSTING AND GGH REVIEW		2023.12.21
5	ISSUED FOR 60% CONSTRUCTION DOCUMENTS		2023.10.26
3	ISSUED FOR MOH STAGE 2.2 SUBMISSION		2023.06.09
2	ISSUED FOR DD COSTING AND CLIENT REVIEW		2023.03.29
Issued/Revision		By	Appd YYYY.MM.DD

File Name: N/A | Author Own. | Designer Dsgn. | Checker Chkd. | 03/06/23 YYYY.MM.DD

Permit/Seal

Client/Project Logo

GUELPH GENERAL HOSPITAL

Client/Project

GUELPH GENERAL HOSPITAL

Emergency Mental Health and Addictions Services Relocation and Emergency Department Expansion

115 DELHI STREET, GUELPH ON N1E 4J4

Title

PHASE 1 - FF&E ENLARGED PLANS & ELEVATIONS

Project No. 140022022 | Scale 1 : 50

Revision 16 | Drawing No. A807

GGH_ED DOOR SCHEDULE

					Door						Sidelight					Frame											
Level	Door No.	Room:#	Room Name	Phase	Type	Panel 1...	Panel 2...	Height	Thickness	Mat'l	Finish	Glass	DM1 (mm)	DM2 (mm)	DMY (mm)	Glass	Type	Mat'l	Finish	Profile	Detail	Glass	Grille/U/C	Fire Label	HDWR Set	ADO	EHO	Comments
Column1	Column2	Column32	Column4	Column5	Column6	Column7	Column8	Column9	Column10	Column11	Column12	Column13	Column14	Column15	Column16	Column162	Column17	Column18	Column19	Column20	Column21	Column22	Column23	Column24	Column25	Column27	Column28	Column30
Level 1	EX.1057	1057	CORR.	EXISTING					16	ALUM								ALUM	PT2						41		EHO	EXISTING ALUM DOOR TO REMAIN, ADD MAGLOCK, BUSHTO EXIT BUTTON, PULL STATION AND FA DISCONNECT
Level 1	1060.1	1060.1	MECHANICAL ROOM	PHASE 1	D1, D1	915	915	2150	45	HM	PT1						FR1	HM	PT2	FP2	DT4				43			
Level 1	1065	1065	CORRIDOR	PHASE 1	D3	1120		2134	**48**	HM	PLAM1	GL6					FR1	HM	PT2	**FP1A**	DT1			45	23			
Level 1	1065.A	1065	CORRIDOR	PHASE 1	D1,D1	1150	1150	2150	**48**	HM	PLAM1						FR1	HM	PT2	**FP1A**	DT1			45	24			
Level 1	1066	1066	GROUP RM	PHASE 1	D2,D1	965	610	2150	**48**	HM	PLAM1	GL5					FR1	HM	PT2	**FP1A**	DT1				7			SMALL LEAFE D1, LARGE LEAFE D2
Level 1	1066.A	1066	GROUP RM	PHASE 1	D2,D1	965	610	2150	**48**	HM	PLAM1	GL5					FR1	HM	PT2	**FP1A**	DT1				7			SMALL LEAFE D1, LARGE LEAFE D2
Level 1	1070	1070	CORRIDOR	PHASE 1	D3	1220		2150	**48**	HM	PLAM1	GL2					FR1	HM	PT2	**FP1A**	DT1				19			HEAVY DUTY, 16 GAUGE - STEEL STIFFENER DOOR AND 14 GAUGE FRAME, CONTINUOUS WELDED EDGES
Level 1	EX.1070	1070	CORRIDOR	EXISTING		1220		2150	45	HM	PT1						FR1	HM	PT2	FP2	DT4			90	42			EXISTING EXTERIOR DOOR TO REMAIN, NEW CARD READER, REPAINT, REMOVE AND INSTALL NEW THRESHOLD
Level 1	1070.1	1070.1	PATIENT RM	PHASE 1	D2	1220		2150	**48**	HM	PLAM1	GL6					FR2	HM	PT2	**FP1A, FP3**	DT1			45	15			HEAVY DUTY, 16 GAUGE - STEEL STIFFENER DOOR AND 14 GAUGE FRAME, CONTINUOUS WELDED EDGES
Level 1	1070.1A	1070.1	PATIENT RM	PHASE 1	D1	610		2150	**48**	HM	PLAM1							HM	PT2	**FP1A, FP3**	DT1			45	16			HEAVY DUTY, 16 GAUGE - STEEL STIFFENER DOOR AND 14 GAUGE FRAME, CONTINUOUS WELDED EDGES, SAME 1070....
Level 1	1070.2	1070.2	PATIENT RM	PHASE 1	D2	1220		2150	**48**	HM	PLAM1	GL6					FR2	HM	PT2	**FP1A, FP3**	DT1			45	15			HEAVY DUTY, 16 GAUGE - STEEL STIFFENER DOOR AND 14 GAUGE FRAME, CONTINUOUS WELDED EDGES
Level 1	1070.2A	1070.2	PATIENT RM	PHASE 1	D1	610		2150	**48**	HM	PLAM1							HM	PT2	**FP1A, FP3**	DT1			45	16			HEAVY DUTY, 16 GAUGE - STEEL STIFFENER DOOR AND 14 GAUGE FRAME, CONTINUOUS WELDED EDGES, SAME 1070....
Level 1	1070.3	1070.3	PATIENT RM	PHASE 1	D2	1220		2150	**48**	HM	PLAM1	GL6					FR2	HM	PT2	**FP1A, FP3**	DT1			45	15			HEAVY DUTY, 16 GAUGE - STEEL STIFFENER DOOR AND 14 GAUGE FRAME, CONTINUOUS WELDED EDGES
Level 1	1070.3A	1070.3	PATIENT RM	PHASE 2	D1	610		2150	**48**	HM	PLAM1							HM	PT2	**FP1A, FP3**	DT1			45	16			HEAVY DUTY, 16 GAUGE - STEEL STIFFENER DOOR AND 14 GAUGE FRAME, CONTINUOUS WELDED EDGES, SAME 1070....
Level 1	1070.4	1070.4	PATIENT RM	PHASE 1	D2	1220		2150	**48**	HM	PLAM1	GL6					FR2	HM	PT2	**FP1A, FP3**	DT1			45	15			HEAVY DUTY, 16 GAUGE - STEEL STIFFENER DOOR AND 14 GAUGE FRAME, CONTINUOUS WELDED EDGES
Level 1	1070.4A	1070.4	PATIENT RM	PHASE 1	D1	610		2150	**48**	HM	PLAM1							HM	PT2	**FP1A, FP3**	DT1			45	16			HEAVY DUTY, 16 GAUGE - STEEL STIFFENER DOOR AND 14 GAUGE FRAME, CONTINUOUS WELDED EDGES, SAME 1070....
Level 1	1070.5	1070.5	PATIENT RM	PHASE 1	D2	1220		2150	**48**	HM	PLAM1	GL6					FR2	HM	PT2	**FP1A, FP3**	DT1			45	15			HEAVY DUTY, 16 GAUGE - STEEL STIFFENER DOOR AND 14 GAUGE FRAME, CONTINUOUS WELDED EDGES
Level 1	1070.5A	1070.5	PATIENT RM	PHASE 1	D1	610		2150	**48**	HM	PLAM1							HM	PT2	**FP1A, FP3**	DT1			45	16			HEAVY DUTY, 16 GAUGE - STEEL STIFFENER DOOR AND 14 GAUGE FRAME, CONTINUOUS WELDED EDGES, SAME 1070....
Level 1	1070.6	1070.6	PATIENT RM	PHASE 1	D2	1220		2150	**48**	HM	PLAM1	GL6					FR2	HM	PT2	**FP1A, FP3**	DT1			45	15			HEAVY DUTY, 16 GAUGE - STEEL STIFFENER DOOR AND 14 GAUGE FRAME, CONTINUOUS WELDED EDGES
Level 1	1070.6A	1070.6	PATIENT RM	PHASE 1	D1	610		2150	**48**	HM	PLAM1							HM	PT2	**FP1A, FP3**	DT1			45	16			HEAVY DUTY, 16 GAUGE - STEEL STIFFENER DOOR AND 14 GAUGE FRAME, CONTINUOUS WELDED EDGES, SAME 1070....
Level 1	1070.7	1070.7	PATIENT RM	PHASE 1	D2	1220		2150	**48**	HM	PLAM1	GL6					FR2	HM	PT2	**FP1A, FP3**	DT1			45	15			HEAVY DUTY, 16 GAUGE - STEEL STIFFENER DOOR AND 14 GAUGE FRAME, CONTINUOUS WELDED EDGES
Level 1	1070.7A	1070.7	PATIENT RM	PHASE 1	D1	610		2150	**48**	HM	PLAM1							HM	PT2	**FP1A, FP3**	DT1			45	16			HEAVY DUTY, 16 GAUGE - STEEL STIFFENER DOOR AND 14 GAUGE FRAME, CONTINUOUS WELDED EDGES, SAME 1070....
Level 1	1070.8	1070.8	PATIENT RM	PHASE 1	D2	1220		2150	**48**	HM	PLAM1	GL6					FR2	HM	PT2	**FP1A, FP3**	DT1			45	15			HEAVY DUTY, 16 GAUGE - STEEL STIFFENER DOOR AND 14 GAUGE FRAME, CONTINUOUS WELDED EDGES
Level 1	1070.8A	1070.8	PATIENT RM	PHASE 1	D1	610		2150	**48**	HM	PLAM1							HM	PT2	**FP1A, FP3**	DT1			45	16			16 GAUGE - STEEL STIFFENER DOOR AND 14 GAUGE FRAME, CONTINUOUS WELDED EDGES, SAME 1070.8 FRAME
Level 1	1071.1	1071.1	CARE TEAM STN	PHASE 1	D3	1070		2150	**48**	HM	PLAM1	GL2					FR1	HM	PT2	**FP1A**	DT1				17			16 GAUGE - STEEL STIFFENER DOOR AND 14 GAUGE FRAME, CONTINUOUS WELDED EDGES
Level 1	1071.1A	1071.1	CARE TEAM STN	PHASE 1	D3	965		2150	**48**	HM	PLAM1	GL2	1110	2220	760		FR1	HM	PT2	**FP1A**	DT1				18			HEAVY DUTY, 16 GAUGE - STEEL STIFFENER DOOR AND 14 GAUGE FRAME, CONTINUOUS WELDED EDGES
Level 1	1071.2	1071.2	ALC LKRS	PHASE 1	D2	965		2150	**48**	HM	PLAM1	GL2					FR1	HM	PT2	**FP1A**	DT1				10			
Level 1	1072	1072	WR (3PC)	PHASE 1	D1	1070		2150	45	HM	PLAM1						FR1	HM	PT2	FP9	DT1				11	ADO		HEAVY DUTY, 16 GAUGE - STEEL STIFFENER DOOR AND 14 GAUGE FRAME, CONTINUOUS WELDED EDGES
Level 1	1074	1074	CORRIDOR	PHASE 1	D3	1220		2150	**48**	HM	PLAM1	GL2					FR1	HM	PT2	**FP1A**	DT1				13			16 GAUGE - STEEL STIFFENER DOOR AND 14 GAUGE FRAME, CONTINUOUS WELDED EDGES
Level 1	1075	1075	WR (P ACC)	PHASE 1	D1	1070		2150	45	HM	PLAM1						FR1	HM	PT2	FP9	DT2				12	ADO		16 GAUGE - STEEL STIFFENER DOOR AND 14 GAUGE FRAME, CONTINUOUS WELDED EDGES
Level 1	1076	1076	WR (3PC)	PHASE 1	D1	1070		2150	45	HM	PLAM1						FR1	HM	PT2	FP9	DT1				14	ADO		16 GAUGE - STEEL STIFFENER DOOR AND 14 GAUGE FRAME, CONTINUOUS WELDED EDGES
Level 1	1077	1077	STORAGE	PHASE 1	D1	965		2150	45	HM	PT1						FR1	HM	PT2	FP1	DT2				11			
Level 1	1083	1083	WR (S)	PHASE 1	D1	965		2150	**48**	HM	PLAM1						FR1	HM	PT2	**FP1A**	DT1				5			
Level 1	1084	1084	ALC STORAGE	PHASE 1	D1,D1	750	750	2150	45	HM	PT1						FR1	HM	PT2	FP1	DT1				6			
Level 1	1085	1085	STAFF LOUNGE	PHASE 1	D1	965		2150	**48**	HM	PLAM1						FR1	HM	PT2	**FP1A**	DT1				3			
Level 1	1086	1086	SOILED UTILITY	PHASE 1	D1	965		2150	45	HM	PT1						FR1	HM	PT2	FP1	DT1				3			
Level 1	1087	1087	HSKG	PHASE 1	D1	965		2150	45	HM	PT1						FR1	HM	PT2	FP1	DT1			0	2			
Level 1	1088.1	1088.1	OFFICE/ TREAT	PHASE 1	D2,D1	965	535	2150	**48**	HM	PLAM1	GL5					FR1	HM	PT2	**FP1A,FP8**	DT1				1			SMALL LEAFE D1, LARGE LEAFE D2
Level 1	1088.2	1088.2	OFFICE/ TREAT	PHASE 1	D2,D1	965	535	2150	**48**	HM	PLAM1	GL5					FR1	HM	PT2	**FP1A,FP8**	DT1				1			SMALL LEAFE D1, LARGE LEAFE D2
Level 1	1088.3	1088.3	OFFICE/ TREAT	PHASE 1	D2,D1	965	535	2150	**48**	HM	PLAM1	GL5					FR1	HM	PT2	**FP1A,FP8**	DT1				1			SMALL LEAFE D1, LARGE LEAFE D2
Level 1	1088.4	1088.4	OFFICE/ TREAT	PHASE 1	D2,D1	965	535	2150	**48**	HM	PLAM1	GL5					FR1	HM	PT2	**FP1A,FP8**	DT1				1			SMALL LEAFE D1, LARGE LEAFE D2
Level 1	1088.5	1088.5	OFFICE/ TREAT	PHASE 1	D2,D1	965	535	2150	**48**	HM	PLAM1	GL5					FR1	HM	PT2	**FP1A,FP8**	DT1				1			SMALL LEAFE D1, LARGE LEAFE D2
Level 1	1089	1089	IT CLOSET	PHASE 1	D1,D1	750	750	2150	45	HM	PT1						FR1	HM	PT2	FP1	DT1				4			
Level 1	1090.1	1090.1	INJECTION	PHASE 1	D1,D3	965	610	2150	**48**	HM	PLAM1	GL5					FR1	HM	PT2	**FP1A**	DT5				7			SMALL LEAFE D1, LARGE LEAFE D2
Level 1	1090.2	1090.2	MEDICATION	PHASE 1	D1	965		2150	**48**	HM	PLAM1						FR1	HM	PT2	**FP2A**	DT1				3			
Level 1	1092.2A	1090.2	MEDICATION	PHASE 1	D1	965		2150	**48**	HM	PLAM1						FR1	HM	PT2	**FP1A**	DT1				8			
Level 1	1092.2B	1090.2	MEDICATION	PHASE 1	D1	965		2150	**48**	HM	PLAM1						FR1	HM	PT2	**FP1A**	DT5				9	ADO		
Level 1	1092	1092	CORRIDOR	PHASE 1	D3,D3	915	915	2134	**48**	HM	PLAM1	GL6					FR1	HM	PT2	**FP1A**	DT1			45	20			
Level 1	1092.A	1092	CORRIDOR	PHASE 1	D1	1070		2134	**48**	HM	PLAM1		500				FR6	HM	PT2	**FP1A, FP4,FP13, FP10A**	DT1	GL4			21			
Level 1	1093	1093	WR (P ACC)	PHASE 1	D1	1070		2150	45	HM	PLAM1						FR1	HM	PT2	FP9	DT2				22	ADO		HEAVY DUTY, 16 GAUGE - STEEL STIFFENER DOOR AND 14 GAUGE FRAME, CONTINUOUS WELDED EDGES
Level 1	EX.1094	1094	EXIT STAIR A	EXISTING	D1	1100		2150	45	HM	PT1						FR1	HM	PT2	FP2	DT4			90	44			EXISTING DOOR TO REMAIN, NEW CARD READER, REPAINT
Level 1	EX.1098	1098	MAIL ROOM	EXISTING	D1	915		2150	45	WD	PLAM						FR1	HM	PT2	FP1	DT1				45			EXISTING DOOR TO BE RELOCATED, REPAINT
Level 1	EX.1099.1	1099.1	MANAGER, OFFICE	EXISTING	D1	965		2150	45	WD	PLAM							HM	PT2						38			EXISTING DOOR TO REMAIN, NEW CARD READER
Level 1	1099.2	1099.2	SSAU PSY.	PHASE 1	D1	965		2150	45	WD	WP4a						FR1	HM	PT2	FP1	DT1				25			
Level 1	EX.1099	1099.3	CORRIDOR	EXISTING						WD	PLAM							HM	PT2						39			EXISTING DOOR TO REMAIN, REPAINT
Level 1	1131	1131	VEST. FEMALE	PHASE 1	D1	965		2150	**48**	HM	PLAM1						FR1	HM	PT2	**FP1A**	DT1				37			
Level 1	1131.A	1131	VEST. FEMALE	PHASE 1	D1	965		2150	**48**	HM	PLAM1						FR1	HM	PT2	**FP1A**	DT1				36			
Level 1	1132	1132	VEST. MALE	PHASE 1	D1	965		2150	**48**	HM	PLAM1						FR1	HM	PT2	**FP1A**	DT1				36			
Level 1	1132.1	1132.1	MALE WASHROOM	PHASE 1	D1	965		2150	**48**	HM	PLAM1						FR1	HM	PT2	**FP1A**	DT1				35			
Level 1	1133	1133	JANITOR	PHASE 1	D1	915		2150	45	HM	PT1						FR1	HM	PT2	FP1	DT1			0	31			
Level 1	1140	1140	HSKP STAFF LOUNGE	PHASE 1	D1	965		2150	45	WD	WP4a						FR1	HM	PT2	FP1	DT1				32			
Level 1	1141	1141	HSKP	PHASE 1	D1,D1	965	535	2150	45	WD	WP4a						FR1	HM	PT2	FP1	DT1				27			
Level 1	1142	1142	HSKP SUPERVISOR	PHASE 1	D3	695		2150	45	WD	WP4a	GL2					FR1	HM	PT2	FP1	DT1				30			
Level 1	EX.1142.1	1142.1	HUB ROOM	EXISTING	D1					HM	PT1							HM	PT2									EXISTING ALUM DOOR TO REMAIN
Level 1	1143	1143	HSKP OFFICE	PHASE 1	D3	965		2150	45	WD	WP4a	GL2					FR1	HM	PT2	FP1	DT1				28			
Level 1	1144	1144	WR (S)	PHASE 1	D1	965		2150	**48**	HM	PLAM1						FR1	HM	PT2	FP1A	DT1				26			
Level 2	EX.2240.2	2236	STORAGE	EXISTING	D1	915		2150	45	HM	PT1						FR1	HM	PT2	FP2								EXISTING TO REMAIN, REPAINT TO MATCH EXISTING PAINT
Level 2	2840	2840	EXISTING CORRIDOR	PHASE 1	D1,D1	915	915	2150	45	HM	PT1						FR1	HM	PT2	FP2	DT4				46			PAINT TO MATCH EXISTING ADJACENT DOORS
Level 2	EX.2240.1	2840	EXISTING CORRIDOR	EXISTING	D1	900	900	2150	45	HM	PT1							HM	PT2						47A			EXISTING TO REMAIN
Level 3	3153	3153	WAITING	PHASE 1	D5	1100		2150	45	ALUM		GL2						ALUM							69			
Level 3	3275	3275	NOURISH	PHASE 1	D1	1070		2150	45	WD	WP4a						FR1	HM	PT2	FP1	DT1				61			
Level 3	3290	3290	EMS POLICE OFFLOAD	PHASE 1	SPD1	3050		2400	45	ALUM		GL4						ALUM			DT6				65			ACID ETCHED GLAZING START AT 600mm AFF TO 1800mm AFF
Level 3	3450	3450	WALK-IN ENTRANCE VEST.	PHASE 1	SPD2	2400		2400	45	ALUM		GL2						ALUM							49	ADO		AUTOMATIC SLIDING DOORS WITH BREAK-WAY FUNCTION. REFER TO EXTERIOR ELEVATIONS
Level 3	3450.A	3450	WALK-IN ENTRANCE VEST.	PHASE 1	SPD2	2400		2400	45	ALUM		GL2						ALUM							50	ADO		AUTOMATIC SLIDING DOORS WITH BREAK-WAY FUNCTION.
Level 3	3453	3453	PRE-SCREEN	PHASE 1	D3	1070		2150	45	WD	WP4a	GL2					FR1	HM	PT2	FP1	DT1				51			
Level 3	3454	3454	IT	PHASE 1	D1	1070		2150	45	HM	PT1						FR1	HM	PT2	FP1	DT1				48			
Level 3	3455	3455	SHELL-IN	PHASE 1	D1	1070		2150	45	HM	PT1						FR1	HM	PT2	FP1	DT2				51			
Level 3	3456	3456	ELEC	PHASE 1	D1	1070		2150	45	HM	PT1						FR1	HM	PT2	FP1	DT1				51			
Level 3	3457	3457	REGISTRATION	PHASE 1	D3	1070		2150	45	WD	WP4a	GL2					FR1	HM	PT2	FP1	DT1				54			DOOR CLOSER REQUIRED
Level 3	3460	3460	CORRIDOR	PHASE 1	D1,D1	915	915	2150	45	WD	WP4a						FR1	HM	PT2	FP1	DT1				55			
Level 3	3463	3463	ASSESSMENT	PHASE 1	D3	1220		2150	45	WD	WP4a	GL5M	1600		760	GL5M	FR3	HM	PT2	FP1, FP4, FP10	DT1				58			
Level 3	3463.A	3463	ASSESSMENT	PHASE 1	D3	1220		2150	45	WD	WP4a						FR1	HM	PT2	FP1	DT1				60			
Level 3	3464	3464	ASSESSMENT	PHASE 1	D3	1220		2150	45	WD	WP4a	GL5M	1600		760	GL5M	FR3	HM	PT2	FP1, FP4, FP10	DT1				58			
Level 3	3464.A	3464	ASSESSMENT	PHASE 1	D3	1220		2150	45	WD	WP4a						FR1	HM	PT2	FP1	DT1				60			
Level 3	3465	3465	ASSESSMENT	PHASE 1	D3	1220		2150	45	WD	WP4a	GL5M	1600		760	GL5M	FR3	HM	PT2	FP1, FP4, FP10	DT1				58			
Level 3	3465.A	3465	ASSESSMENT	PHASE 1	D3	1220		2150	45	WD	WP4a						FR1	HM	PT2	FP1	DT1				60			
Level 3	3466	3466	CONSULTATION	PHASE 1	D3	1220		2235	45	WD	WP4a	GL5M	600		760	GL5M	FR3	HM	PT2	FP1, FP4, FP10	DT1				59			
Level 3	3466.A	3466	CONSULTATION	PHASE 1	D3	1220		2235	45	WD	WP4a						FR1	HM	PT2	FP1	DT1				60			
Level 3	3468.1	3468.1	WR (P U)	PHASE 1	D1	1070		2150	45	HM	PLAM1						FR1	HM	PT2	FP9	DT2				53	ADO		
Level 3	3468.2	3468.2	JANITOR CLOSET	PHASE 1	D1	812		2150	45	HM	PT1						FR1	HM	PT2	FP1	DT1				62			
Level 3	3468.3	3468.3	WR (P)	PHASE 1	D1	1070		2150	45	HM	PLAM1						FR1	HM	PT2	FP9	DT2				52	ADO		
Level 3	3470.3	3470.3	CORRIDOR	PHASE 1	D2	1070		2150	45	WD	WP4a	GL2					FR1	HM	PT2	FP1	DT1				56			DOOR CLOSER REQUIRED
Level 3	3470.3A	3470.3	CORRIDOR	PHASE 1	D2	1070		2150	45	WD	WP4a	GL2					FR1	HM	PT2	FP1	DT1				57	ADO		
Level 3	3480	3480	AMBULANCE VESTIBULE	PHASE 1	D3,D3	915	915	2150	**48**	HM	PLAM2	GL3					FR1	HM	PT2	**FP2A**	DT4			60	64			
Level 3	3481	3481	DECONT STORAGE	PHASE 1	D3,D1	1200	610	2150	45	HM	PT1	GL3					FR1	HM	PT2	FP2	DT4			60	67A			
Level 3	3482	3482	EMS MEDICATION	PHASE 1	D1	1070		2150	45	HM	PT1						FR1	HM	PT2	FP1	DT1			60	66			
Level 3	3483	3483	SUPPLY & CLEAN LINEN	PHASE 1	D3	1200		2150	45	HM	PT1	GL3					FR2	HM	PT2	FP3	DT5			60	67B			
Level 3	3484	3484	AMBULANCE GARAGE	PHASE 1	D1	1220		2150	**48**	HM	PLAM2						FR1	HM	PT2	**FP2A**	DT4				63			EXTERIOR DOOR
Level 3	EX.3325.1		AMBULANCE VESTIBULE	EXISTING						ALUM								ALUM										EXISTING ALUM DOOR TO REMAIN,
TRAILER	T05.1		TRIAGE CORRIDOR	PHASE 1	D4	1070		**2030**		HM	PT TO MATCH EX.							STEEL	PT TO MATCH EX.					45	68	ADO		TRAILER EXIT DOOR, POLYSTYRENE INSULATED STEEL DOOR, 3 SIDE WELDED STEEL FRAME, FLANGE 3" DOOR SIDE 2"OTHER SIDE, ALUM THRESHOLD, THERMAL FIXED WIRED GLASS, HEAVY DUTY DOOR CLOSER, COLOUR TO MATCH EXISTING

16

Stantec

Stantec Architecture Ltd.
100-401 Wellington Street West
Toronto, M5V 1E7
Tel: (416) 596-6686 • www.stantec.com

Consultant

NOTES:
- REFER TO A380 FOR LIST OF FINISHES ABBREVIATIONS
- REFER TO A001 FOR GIAZING TYPES

Notes

16	ISSUED FOR ADDENDUM No.3		2024.07.05
13	ISSUED FOR ADDENDUM No.1		2024.06.14
12	ISSUED FOR TENDER		2024.06.07
11	ISSUED FOR PRE-TENDER		2024.05.27
9	ISSUED FOR BUILDING PERMIT		2024.03.28
8	ISSUED FOR STAGE 2.3 MOH SUBMISSION		2024.02.23
6	ISSUED FOR COSTING AND QQA REVIEW		2023.12.21
4	ISSUED FOR 40% CONSTRUCTION DOCUMENTS		2023.10.26
Issued/Revision		By	Appd YYYY.MM.DD

File Name: N/A — Author Dwn. — Designer Dsgn. — Checker Chkd. — 07/31/23 YYYY.MM.DD

Permit/Seal

Client/Project Logo

GUELPH GENERAL HOSPITAL

Client/Project
GUELPH GENERAL HOSPITAL

Emergency Mental Health and Addictions Services Relocation and Emergency Department Expansion

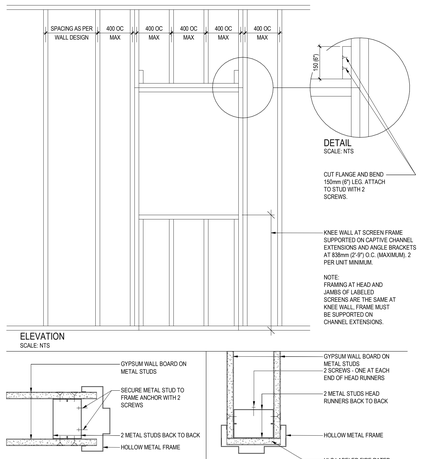
115 DELHI STREET, GUELPH ON N1E 4J4

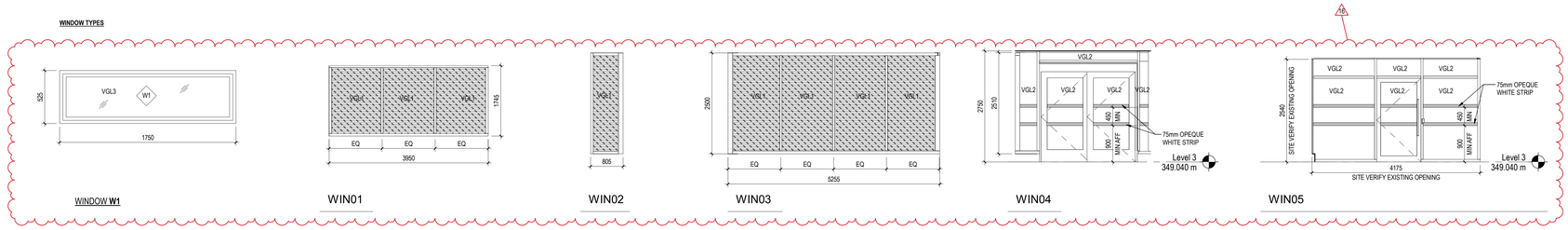
Title
PHASE 1 - SCHEDULE - DOOR

Project No. 140022022 — Scale 1 : 100

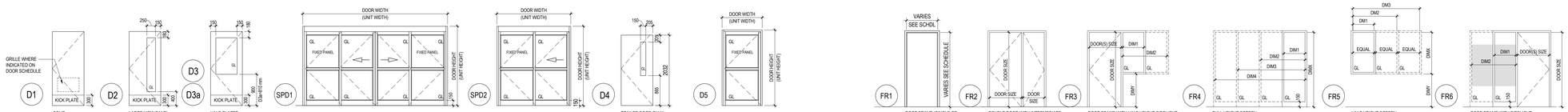
Revision 16 — Drawing No. **A2000**

LEVEL	DOOR/ SCREEN NUMBER	PARENT ROOM NAME	ROOM NAME	FRAME						Glazing STC Requirement	SCREEN/SIDELIGHT/TRANSOM DIMS								FIRE RATING	ROOM STC	REMARKS
				TYPE	MATL.	FINISH	PROFILE	DETAIL	GLASS		Glazing thickness	DIM1	DIM2	DIM3	DIM4	DIM5	DIMX	DIMY			
Level	Mark	Parent Room Number	Parent Room Name	Frame Type	Frame Material	Frame Finish	Frame Profile	Frame Detail	Frame Glazing	Glass STC	Glass thickness	DIM1	DIM2	DIM3	DIM4	DIM5	DIMX	DIMY	Fire Rating	STC	Remarks
LEVEL 1	1070.1B	1070.1	PATIENT RM	-	AL	-			GL14	-	12.7mm	2580					470	2000	-	-	
LEVEL 1	1070.2B	1070.2	PATIENT RM	-	AL	-			GL14	-	12.7mm	2670					470	2000	-	-	
LEVEL 1	1070.3B	1070.3	PATIENT RM	-	AL	-			GL14	-	12.7mm	1400					470	2000	-	-	
LEVEL 1	1070.4B	1070.4	PATIENT RM	-	AL	-			GL14	-	12.7mm	2650					470	2000	-	-	
LEVEL 1	1070.5B	1070.5	PATIENT RM	-	AL	-			GL14	-	12.7mm	2755					470	2000	-	-	
LEVEL 1	1070.6B	1070.6	PATIENT RM	-	AL	-			GL14	-	12.7mm	2350					470		-	-	
LEVEL 1	1071A	1071	RECEPTION	FR5	HM	PT	FP10	DT3	GL2	40	12.7mm	2480					1290	860	-	45	ELECTRONIC COMMUNICATOR - SEE INTERIOR ELEVATION 5.5/A802
LEVEL 1	1071B	1071	RECEPTION	FR5	HM	PT	FP10	DT3	GL2	40	12.7mm		1750				1250	900	-	45	
LEVEL 1	1071.1B	1071.1	CARE TEAM STN	FR5	HM	PT	FP10	DT3	GL2	40	12.7mm				5400		1250	900	-	45	ELECTRONIC COMMUNICATOR - SEE INTERIOR ELEVATION 7.2/A802
LEVEL 1	1071.1C	1071.1	CARE TEAM STN	FR5	HM	PT	FP10	DT3	GL2	40	12.7mm		1700				1250	900	-	45	ELECTRONIC COMMUNICATOR - SEE INTERIOR ELEVATION 7.3/A802
LEVEL 3	3452A	3452	SECURITY	FR5	HM	PT	FP10	DT3	GL11	-	12.7mm	1900					1250	900	-	-	
LEVEL 3	3452B	3452	SECURITY	FR5	HM	PT	FP10	DT3	GL11	-	12.7mm	610					1250	900	-	-	
LEVEL 3	3452C	3452	SECURITY	FR5	HM	PT	FP10	DT3	GL11	-	12.7mm	1900					1250	900	-	-	ELECTRONIC COMMUNICATOR - SEE INTERIOR ELEVATION 4.4/A806.
LEVEL 3	3453A	3453	PRE-SCREEN	FR5	HM	PT	FP10	DT3	GL2	-	12.7mm	1000					1250	900	-	-	
LEVEL 3	3453B	3453	PRE-SCREEN	-	AL	-			GL2	-	12.7mm	1830					1040	760	-	-	ELECTRONIC COMMUNICATOR - SEE INTERIOR ELEVATION 5.3/A806. SEE SPEC - CRL CHANNEL FRAME - 3 SIDES
LEVEL 3	3457A	3457	REGISTRATION	FR5	HM	PT	FP10	DT3	GL2	-	12.7mm	800					1250	900	-	-	
LEVEL 3	3457B	3457	REGISTRATION	-	AL	-			GL2	-	12.7mm	2625					1040	760	-	-	ELECTRONIC COMMUNICATOR - SEE INTERIOR ELEVATION 2.4/A806. SEE SPEC - CRL CHANNEL FRAME - 3 SIDES
LEVEL 3	3450A	3450	WALK-IN ENTRANCE VEST.	FR4	AL	-			GL7	-	12.7mm		2940				2350		-	-	STOREFRONT- NOT THERMALLY BROKEN
LEVEL 3	3462A	3462	WAITING GENERAL	FR4	AL	-			GL8	-	12.7mm		1500				2340		-	-	
LEVEL 3	3462B	3462	WAITING GENERAL	FR4	AL	-			GL8	-	12.7mm		1500				2340		-	-	
LEVEL 3	3462C	3462	WAITING GENERAL	FR4	AL	-			GL8	-	12.7mm		1500				2340		-	-	
LEVEL 3	3462D	3462	WAITING GENERAL	FR4	AL	-			GL7	-	12.7mm			3800			2340		-	-	ELECTRICAL IN SOUTH MULLION FROM CEILING DOWN TO BASE SHOE.
LEVEL 3	3462E	3462	WAITING GENERAL	FR4	AL	-			GL7	-	12.7mm			3800			2340		-	-	ELECTRICAL IN SOUTH MULLION FROM CEILING DOWN TO BASE SHOE.
LEVEL 3	3462F	3462	WAITING GENERAL	FR4	AL	-			GL7	-	12.7mm			3800			2340		-	-	ELECTRICAL IN SOUTH MULLION FROM CEILING DOWN TO BASE SHOE.

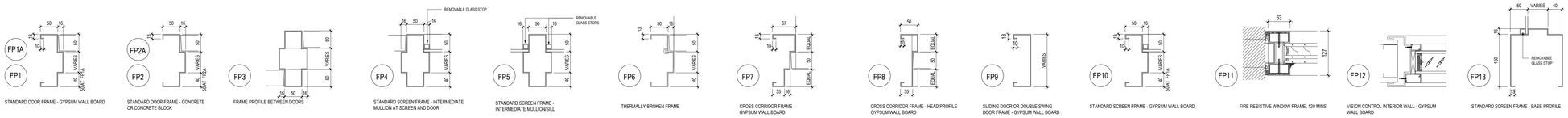




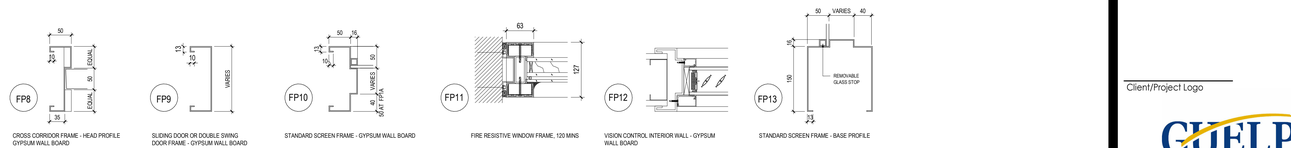
FRAME DETAILS - LABELLED DOORS & SCREENS



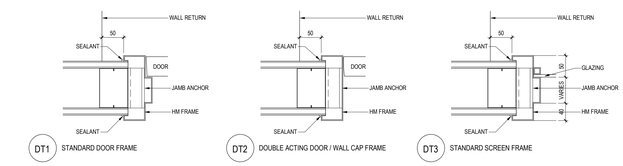
DOOR TYPES



FRAME TYPES



FRAME PROFILES



FRAME DETAILS

Stantec

Stantec Architecture Ltd.
100-401 Wellington Street West
Toronto, M5V 1E7
Tel: (416) 596-6686 • www.stantec.com

Consultant

NOTES:
- REFER TO A380 FOR LIST OF FINISHES ABBREVIATIONS
- REFER TO A001 FOR GLAZING TYPES

Notes

16	ISSUED FOR ADDENDUM No.3		2024.07.05
15	ISSUED FOR ADDENDUM No.1		2024.06.14
12	ISSUED FOR TENDER		2024.06.07
11	ISSUED FOR PRE-TENDER		2024.05.27
9	ISSUED FOR BUILDING PERMIT		2024.05.09
8	ISSUED FOR STAGE 2.3 MOH SUBMISSION		2024.02.23
6	ISSUED FOR COSTING AND QGH REVIEW		2023.12.21
5	ISSUED FOR 60% CONSTRUCTION DOCUMENTS		2023.10.24
	Issued/Revision	By	Appd.	YYYY.MM.DD

File Name: N/A	Author	Designer	Checker	10/24/23
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

GUELPH GENERAL HOSPITAL

Client/Project

GUELPH GENERAL HOSPITAL

Emergency Mental Health and Addictions Services Relocation and Emergency Department Expansion

115 DELHI STREET, GUELPH ON N1E 4J4

Title

SCHEDULE - SCREEN - DOORS TYPES AND FRAME DETAILS

Project No.	Scale
140022022	As indicated
Revision	Drawing No.
16	A2001

July 5, 2024 Stantec Consulting Ltd., Civil

ADDENDUM NO. 3

This Addendum forms part of the Contract Documents and amends the original Drawings, Specifications, Schedules and Details dated June 07, 2024.

---

1 Drawings

1.1 REFER TO SITE PLAN DRAWINGS: SP-1 to SP-3

1.1.1 Removal of fire department connection callout Removal of specifications on the emergency call tower detail.

1.2 REFER TO CIVIL DRAWINGS: SSP-1

1.2.1 Servicing strategy updated to introduce 675mm dia. super-pipe for stormwater quantity storage.
Oil and Grit Seperator Unit has been added (noted as OGS EF04 97) which provides quality control of stormwater prior to exiting the site.

1.3 REFER TO CIVIL DRAWINGS: GP-1

1.3.1 Added a note to ensure no guardrail posts are embedded in the gravity wall section of the retaining wall. Steel Beam Guard Rail (SBGR) to be extended and spliced over this gap where there are no posts.

1.3.2 Grading modified at back of retaining wall to account for new manhole structures. Sections adjacent to manhole structures is now a gravity wall (see Verti-Crete drawings). Whereas remainder of wall uses a tie-back system.
Concrete curbing grades added to back of wall to allow for drainage into proposed catchbasin manhole based on new retaining wall configuration.
Guardrail has been switched to OPSD 912.532 which is an overall thinner guardrail system that is currently present onsite. This provides slightly more clearance from the rail and ambulance garage.

1.3.3 Retaining wall detail updated to show curbing configuration with varying height behind wall and on top block of retaining wall.

1.4 REFER TO RETAINING WALL DRAWINGS: Full Verti-Crete Drawing Set Re-Issued

1.4.1 Revised wall section to gravity wall where manholes are located. Associated details were also revised. Civil Plans detail guardrail configuration.

2 ATTACHMENTS

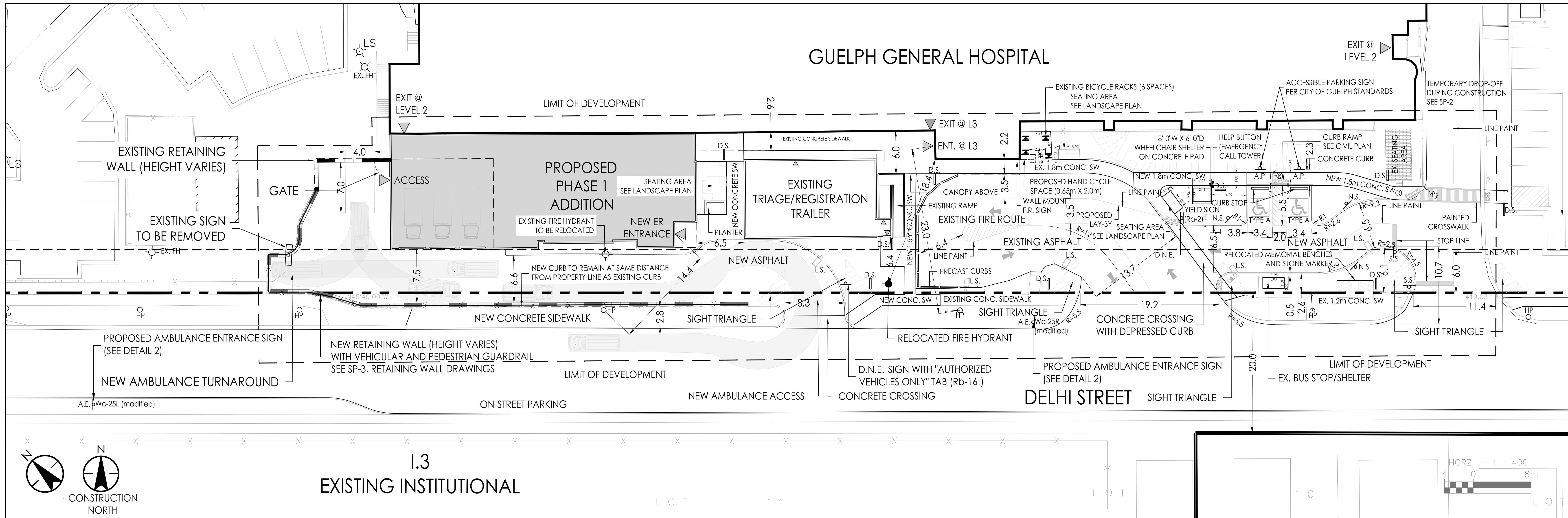
2.1 RE-ISSUED DRAWINGS

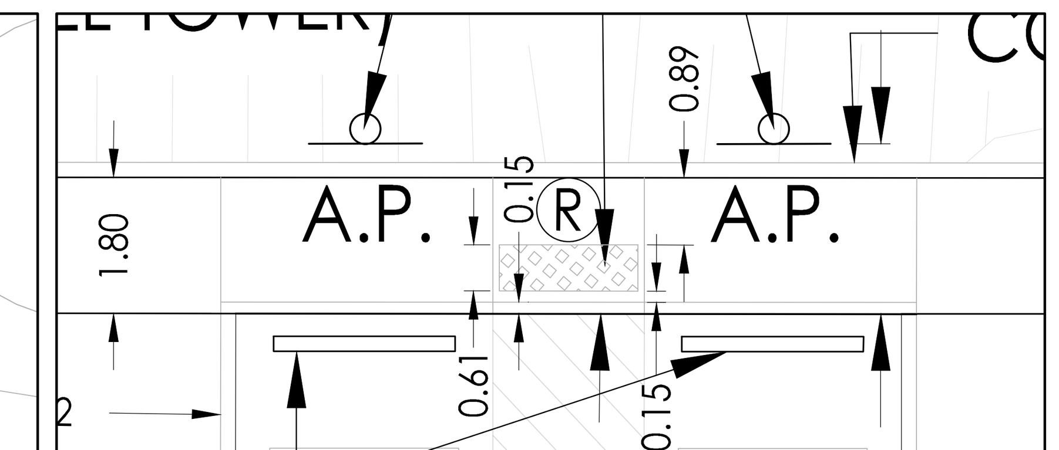
2.1.1 Stantec Site Plan Drawings, SP-1, SP-2, SP-3

2.1.2 Stantec Civil Drawings, SSP-1, GP-1

2.1.3 Verti-Crete Retaining Wall Drawings, COV, A-01, A-02, C-01 to C-03, XS-01 to XS-06

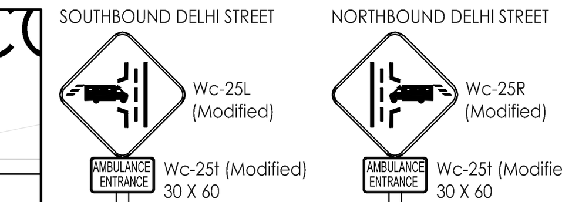
END OF ADDENDUM





D 1 CURB RAMP AT ACCESS AISLE

Scale: 1:100



NOTES:

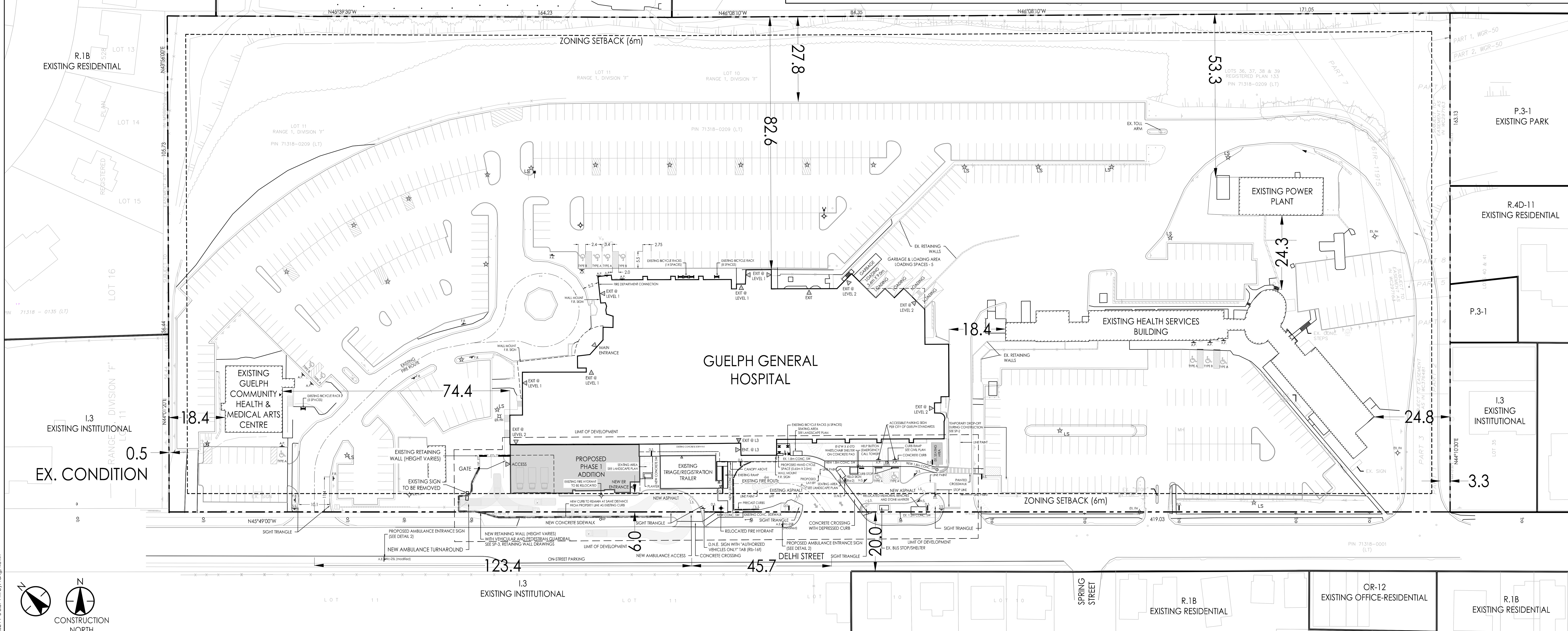
1. Modified WC-25R/L and WC-25t signs to be installed on 14 ft telespar posts and as per OTM Book 6.
2. Wc-25L sign to be installed on southbound Delhi Street.
3. Wc-25R sign to be installed on northbound Delhi Street.

D 2 CUSTOM AMBULANCE ENTRANCE SIGN

Scale: N.T.S.

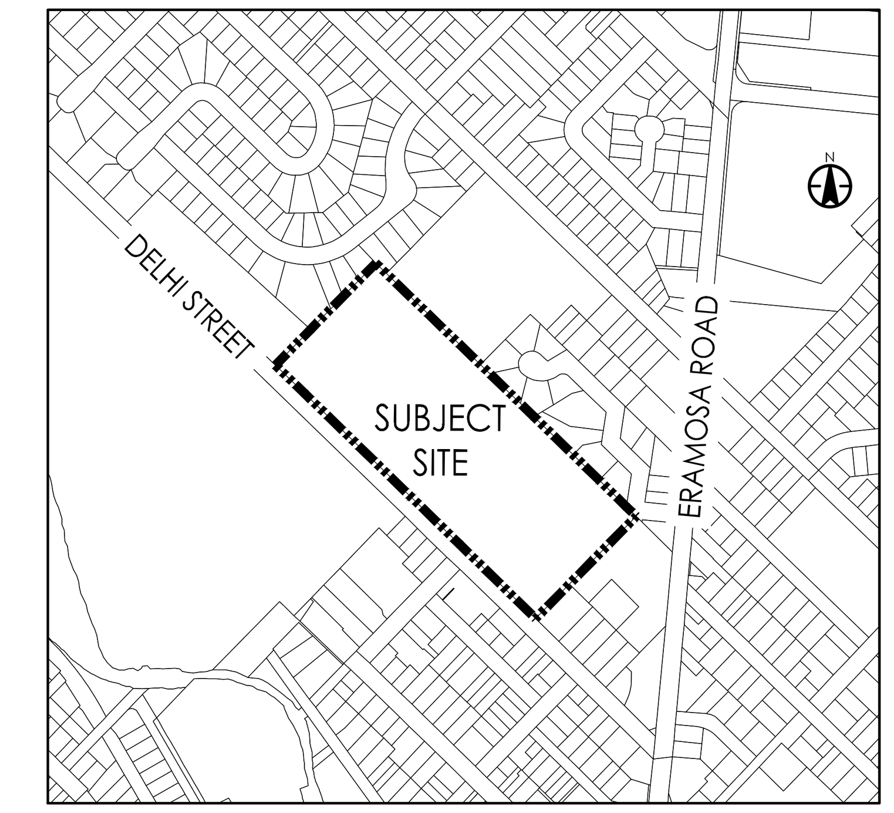
Notes

1. Snow Storage - Snow to be removed from site.



Key Plan

N.T.S.



Legend

- SITE BOUNDARY
- LIMIT OF DEVELOPMENT
- ZONING SETBACK (6m)
- FIRE ROUTE
- RETAINING WALL
- GUARDRAIL
- HANDRAIL
- HP EXISTING HYDRO POLE
- L.S. PROPOSED LIGHT STANDARD
- F.R. FIRE ROUTE SIGN (LIM 9-411)
- S.S. STOP SIGN (OTM Ra-1)
- A.P. ACCESSIBLE PARKING SIGN (OTM Rb-93)
- N.S. NO STOPPING SIGN (OTM Rb-55)
- D.N.E. DO NOT ENTER SIGN (OTM Rb-19)
- D.S. DIRECTIONAL SIGN
- EXISTING FIRE HYDRANT
- RELOCATED FIRE HYDRANT

Contacts

Applicant
Kanchan Ghadge, Senior Urban Planner
2100 Derry Road West, Suite 400
(905)-369-1052
kanchan.ghadge@stantec.com

Owner's Representative
Dan Brzak
Director, Hospital Redevelopment and Planning
Guelph General Hospital
73 Delhi Street, Suite 206B
Guelph, ON
N1E 6L9
(519) 837-6440 ext. 3630
dbrzak@gghorg.ca

Legal Information

FIRSTLY: LOTS 36, 37, 38 AND 39, PLAN 133 AND PART OF LOTS 35, 40 AND 41, PLAN 133 AND PART OF LOTS 10 AND 11, RANGE 1, DIVISION "F", DES AS PARTS 6, 7, 8 AND 9, WGR50, SAVE AND EXCEPT PARTS 1 AND 2, 61R11415; SECONDLY: PART LOT 35, PLAN 133, DES AS PARTS 1 AND 2, 61R11415; AND THIRDLY: PART LOT 11, RANGE 1, DIVISION "F", DES AS PART 10, WGR50; SUBJECT TO AN EASEMENT OVER PT LOTS 35, 36, 40 & 41, PL 133 DES AS PTS 1 TO 6, 61R11415 IN FAVOUR OF PT LOTS 40 & 41, PL 133 DES AS PTS 1, 2 & 3, WGR50 AS IN WC297163 SUBJECT TO AN EASEMENT OVER PT LOTS 35, 36 & 40, PL 133 DES AS PTS 1, 3, 5, 7 & 8, 61R11415 IN FAVOUR OF PT LOTS 40 & 41, PL 133 DES AS PTS 1, 2 & 3, WGR50 AS IN WC297163 TOGETHER WITH AN EASEMENT OVER PT LOT 40, PL 133 DES AS PT 2, WGR50 AS IN WC297164 SUBJECT TO AN EASEMENT OVER LOTS 35, 36 & 40 PL 133 DES AS PTS 1, 2, 3 & 4 PL 61R11415 IN FAVOUR OF LT 34 & PT LT 35 PL 133 AS IN MS2192 AS IN WC376481 CITY OF GUELPH

Stantec

Stantec
600-171 Queens Avenue
London ON N6A 5J7
Tel. 519-645-2007
www.stantec.com

Liability Note

The Contractor shall verify and be responsible for all dimensions.
DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

Design Data

Existing Zone:	Zoning By-law (1995)-14864: INSTITUTIONAL (I.3) ZONE Zoning By-law (2023)-20790: MAJOR INSTITUTIONAL 1(I.1) - GENERAL
Use:	Zoning By-law (1995)-14864: Medical Treatment Facility Zoning By-law (2023)-20790: Hospital
Official Plan Designation	Built-up Area, Major Institutional
Site Area (m²)	67,969 m² / 6.797 ha
Gross Floor Area (m²)	Proposed - 1,094 m² To be demolished - 164 m²

Regulation	Provided	Zoning By-law (1995)	Conformance	Zoning By-law (2023)	Conformance
Minimum Lot Area	67,969 m²	700 m²	Yes	700 m²	Yes
Minimum Front Yard	6.0 m	6.0 m	Yes	6.0 m	Yes
Minimum Exterior Side Yard	N/A	6.0 m	N/A	6.0 m	N/A
Minimum Interior Side Yard	18.4 m	6m or one-half the Building Height, whichever is greater	Yes	6m or one-half the Building Height, whichever is greater	Yes
Minimum Rear Yard	82.6 m	7.5m or one-half the Building Height, whichever is greater	Yes	7.5m or one-half the Building Height, whichever is greater	Yes
Minimum Buffer Strip	3.0 m	Where an Institutional Zone abuts any Residential, Park, Wetland or Urban Reserve Zone, a Buffer Strip shall be developed.	Phase 1 redevelopment and development area subject to SPA is compliant	A 3m wide buffer strip is required adjacent to interior and rear lot lines	Phase 1 redevelopment and development area subject to SPA is compliant
Minimum Landscape Open Space	38%	N/A	Yes	15% The required front yard and exterior side yard, except the driveway, parking areas, or loading areas, shall be landscaped.	Yes
Maximum Building Height	7 storeys	10 storeys, subject to 45 degree angular plane from ROW Centreline	Yes	10 storeys	Yes
Off-street Parking	Parking Spaces: 718 (onsite) Accessible Spaces: 7 Type A and 5 Type B Bicycle Parking spaces: 28 Hand Cycle Parking Spaces: 1	Standard Parking Spaces: 1.25 spaces per bed @ 197 beds total = 247 Accessible Spaces: 3 Bicycle Parking: 3m from any public street	Yes	Parking Spaces: 2 spaces per 100 m² of GFA = 22 Accessible Spaces: 2 accessible parking spaces plus an additional 2% of total spaces with an equal number of Type A and Type B accessible parking spaces = 2 Type A and 2 Type B Bicycle Parking: 8% of required parking spaces, minimum of 4 = 4 spaces	Yes
Accessory Buildings and Structures	No additional Accessory Buildings or Structures are proposed	In accordance with Section 4.5	Yes	In accordance with Section 4.5	Yes
Fences	No additional fences proposed	In accordance with Section 4.20	Yes	In accordance with Section 4.16.5	Yes
Garbage, Refuse Storage and Composters	No additional Garbage, Refuse Storage or Composters proposed	In accordance with Section 4.9	Yes	In accordance with Section 4.9	Yes

Revision	By	Appd.	YY.MM.DD
14. ISSUED FOR ADDENDUM No. 3	KT	EB	24.07.05
13. ISSUED FOR SPA RESUBMISSION	KT	EB	24.06.12
12. ISSUED FOR TENDER	KT	EB	24.06.07
11. ISSUED FOR PRE-TENDER	KT	EB	24.05.27
10. ISSUED FOR RETAINING WALL PERMIT	KT	EB	24.05.24
9. ISSUED FOR SPA SUBMISSION	KT	EB	24.04.22
8. ISSUED FOR BUILDING PERMIT	KT	MD	24.03.28
7. ISSUED FOR STAGE 2.3 MOH SUBMISSION	RT	MD	24.02.23
6. ISSUED FOR SPA SUBMISSION	RT	MD	24.01.15
5. ISSUED FOR COSTING AND GGH REVIEW	RT	MD	23.12.21

Issued	By	Appd.	YY.MM.DD
File Name: 140022022_r-sp_ph1	RT	MD	24.01.15
	Dwn.	Chkd.	Dsgn.

Permit-Seal

Client/Project
GUELPH GENERAL HOSPITAL

EMERGENCY MENTAL HEALTH AND ADDICTIONS SERVICES RELOCATION AND EMERGENCY DEPARTMENT EXPANSION
Guelph, ON Canada

Title
SITE PLAN
SP24-002
PHASE 1

Project No. 140022022

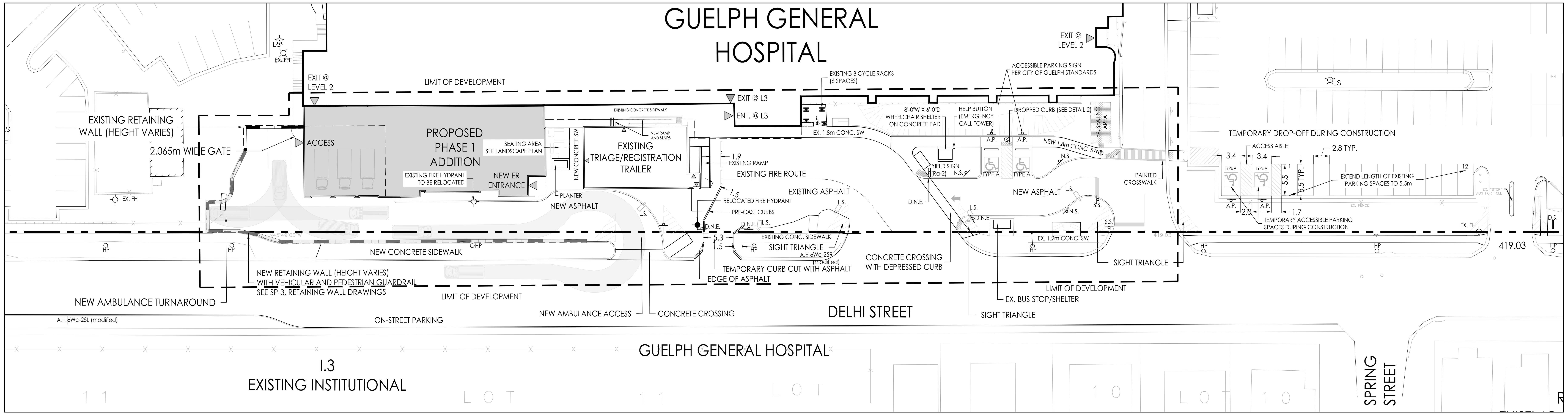
Scale HORZ - 1 : 750

Drawing No. SP-1

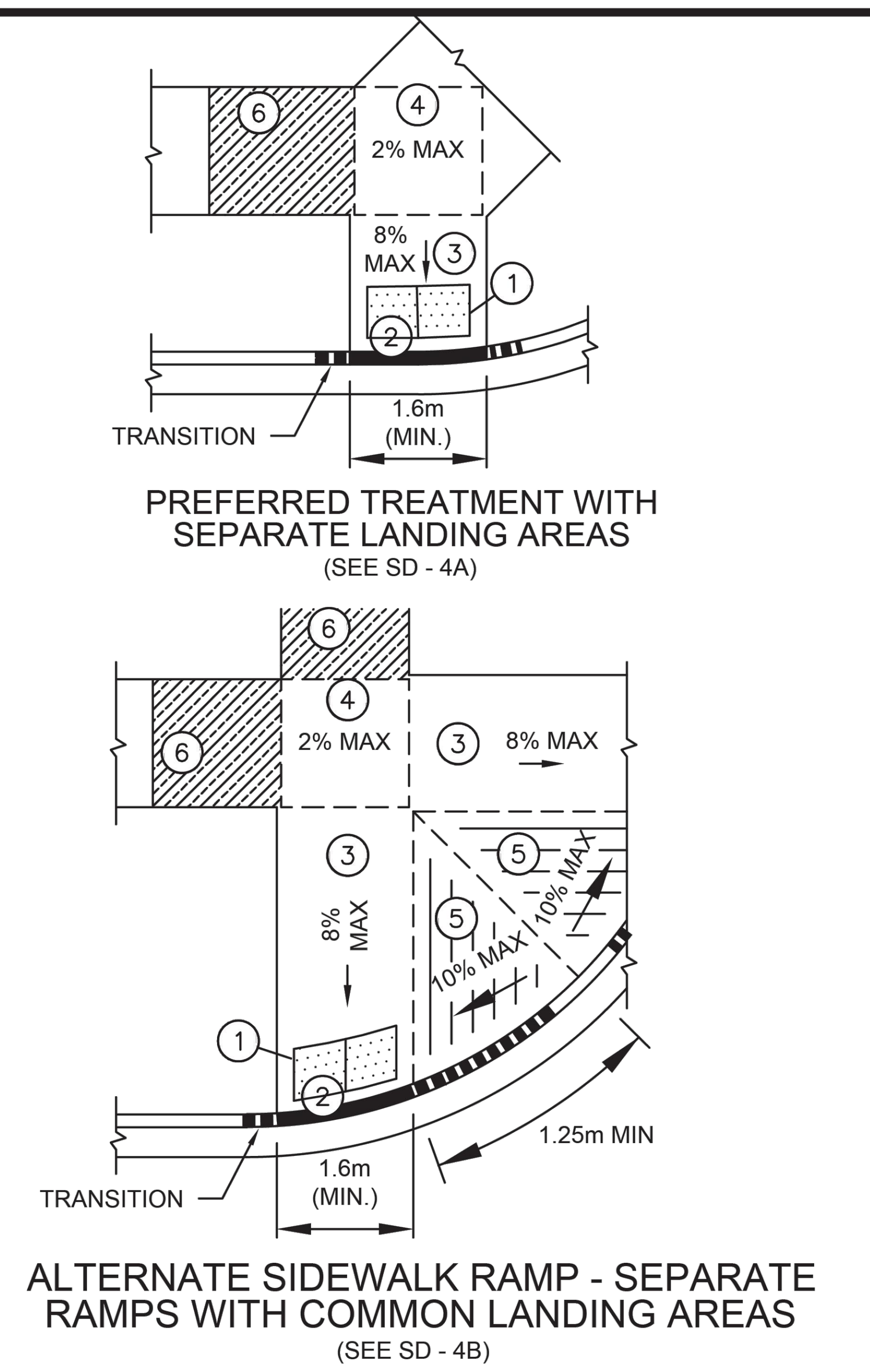
Sheet 1 of 3

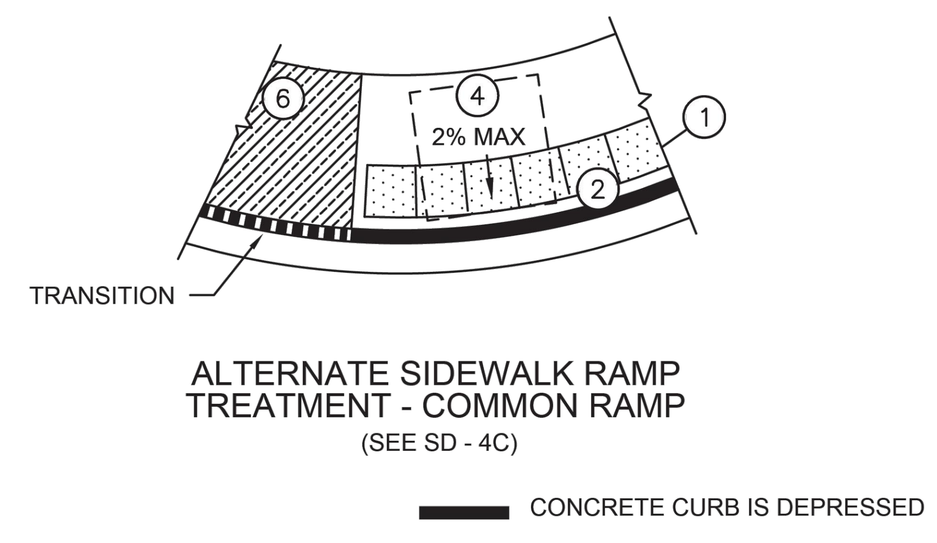
Revision 14

ORIGINAL SHEET - ANSI D



D 1 TEMPORARY ACCESS DURING PHASE 1 CONSTRUCTION
Scale: 1:400





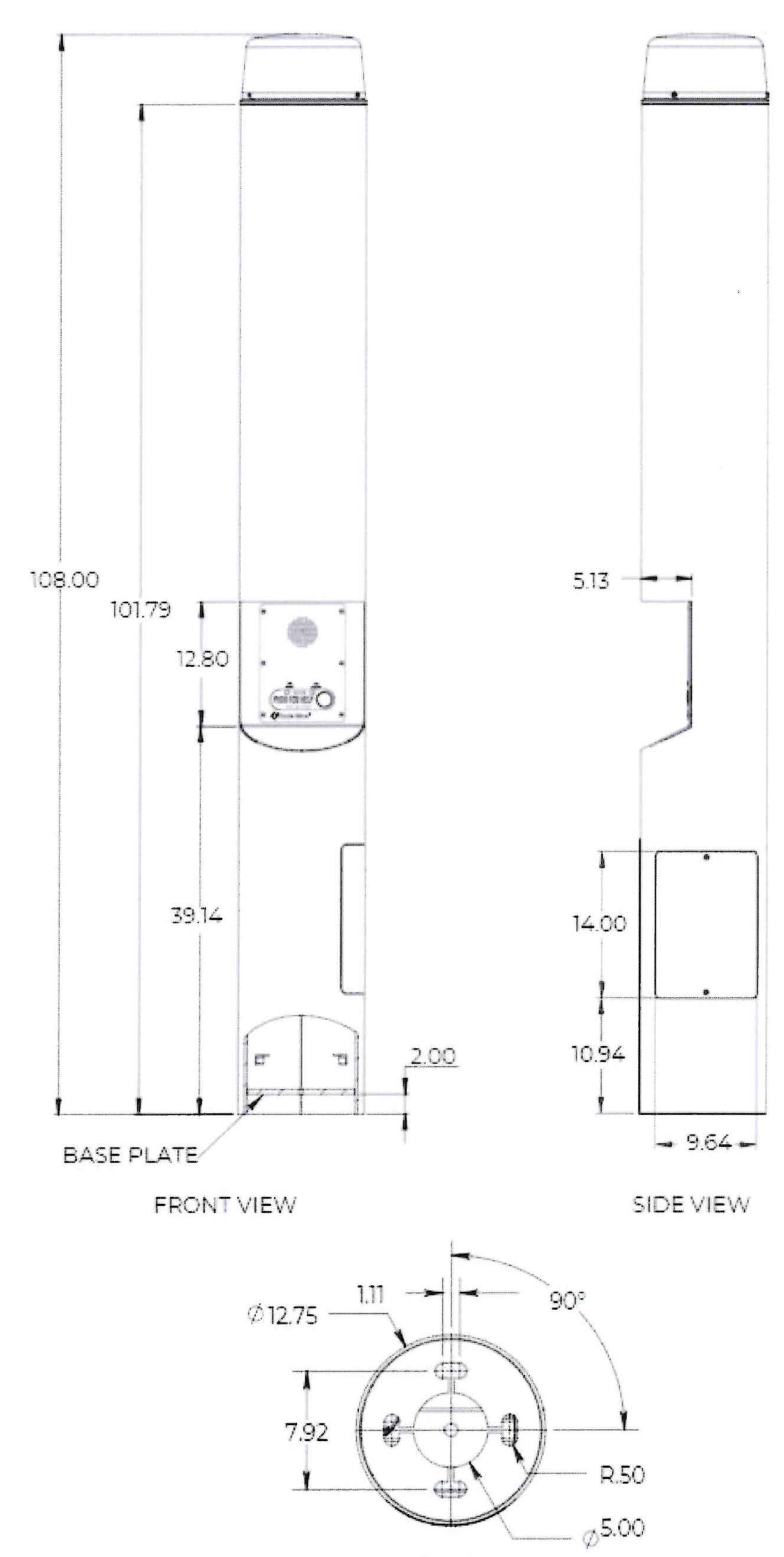
CONCRETE CURB IS DEPRESSED
CONCRETE CURB IS IN TRANSITION

NOTES:

1. ALL TRUNCATED DOME DETECTABLE WARNING PLATE DESIGNS ARE TO BE FINALIZED BY THE PLATE MANUFACTURER. (610mm x 610mm SQUARE OR RADIAL PLATES TO MATCH CURB RADIUS). NUMBER OF WARNING PLATES TO MATCH WIDTH OF PROJECTED SIDEWALK OR TRAIL (For example, 1.8m sidewalk to have 3 plates)
2. TRUNCATED DOME PLATES ARE TO BE PLACED 150mm OFFSET FROM BACK OF CURB (200mm MAXIMUM). MINIMUM 150mm CONCRETE REQUIRED FROM OUTER EDGE OF PLATE ASSEMBLY TO THE EDGE OF SIDEWALK.
3. RAMPS ARE TO BE SLOPED BETWEEN 2% AND 6% DESIRABLE (8.33% MAXIMUM).
4. LANDING AREAS ARE 1.5m X 1.5m MINIMUM AND ARE SLOPED TO A MAXIMUM OF 2%.
5. CONCRETE FLARES ARE SLOPED TO A MAXIMUM OF 10%.
6. SLOPE TRANSITION AREA: MINIMUM LENGTH OF 1.5m AND 4% MAXIMUM SLOPE.

CITY OF GUELPH STANDARD DRAWING	DATE DRAWN: Feb/15	REV. No.: 2	Guelph
TRUNCATED DOME DETECTABLE WARNING PLATES	DESCRIPTION:		ENGINEERING
	REV. DATE: FEB/21	REV. BY: J.B./I.U.	1 - 4
	APPROVED BY: CITY ENGINEER		

D 2 CURB RAMP DETAIL
Scale: N.T.S.



D 3 EMERGENCY CALL TOWER DETAIL
Scale: N.T.S.

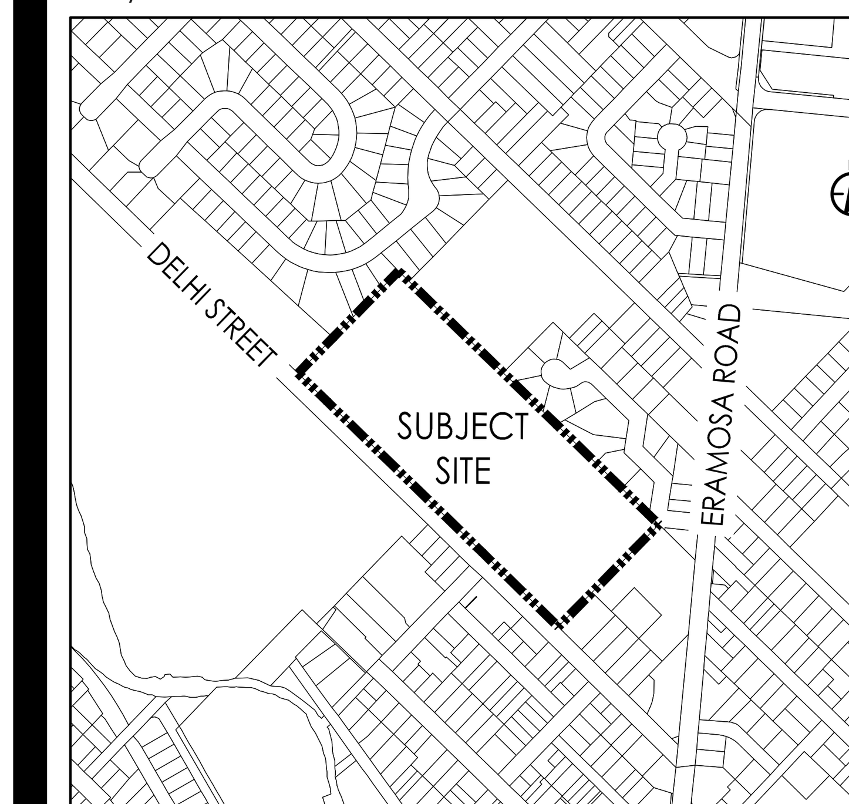
Stantec

Stantec
600-171 Queens Avenue
London ON N6A 5J7
Tel. 519-645-2007
www.stantec.com

Liability Note

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

Key Plan N.T.S.



Legend

- SITE BOUNDARY
- LIMIT OF DEVELOPMENT
- ZONING SETBACK (6m)
- FIRE ROUTE
- RETAINING WALL
- GUARDRAIL
- HANDRAIL
- HP EXISTING HYDRO POLE
- L.S. PROPOSED LIGHT STANDARD
- F.R. FIRE ROUTE SIGN (LIM 9-411)
- S.S. STOP SIGN (OTM Ra-1)
- A.P. ACCESSIBLE PARKING SIGN (OTM Rb-93)
- N.S. NO STOPPING SIGN (OTM Rb-55)
- D.N.E. DO NOT ENTER SIGN (OTM Rb-19)
- D.S. DIRECTIONAL SIGN
- EXISTING FIRE HYDRANT
- RELOCATED FIRE HYDRANT

Revision By Appd. YY.MM.DD

Issued	By	Appd.	YY.MM.DD
6. ISSUED FOR ADDENDUM No. 3	KT	EB	24.07.05
5. ISSUED FOR SPA RESUBMISSION	KT	EB	24.06.12
4. ISSUED FOR TENDER	KT	EB	24.06.07
3. ISSUED FOR PRE-TENDER	KT	EB	24.05.27
2. ISSUED FOR RETAINING WALL PERMIT	KT	EB	24.05.24
1. ISSUED FOR SPA SUBMISSION	KT	EB	24.04.22

File Name: 140022022_r-sp_ph1	KT	EB	EB	24.04.22
	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Permit-Seal

Client/Project

GUELPH GENERAL HOSPITAL

EMERGENCY MENTAL HEALTH AND ADDICTIONS SERVICES RELOCATION AND EMERGENCY DEPARTMENT EXPANSION

Guelph, ON Canada

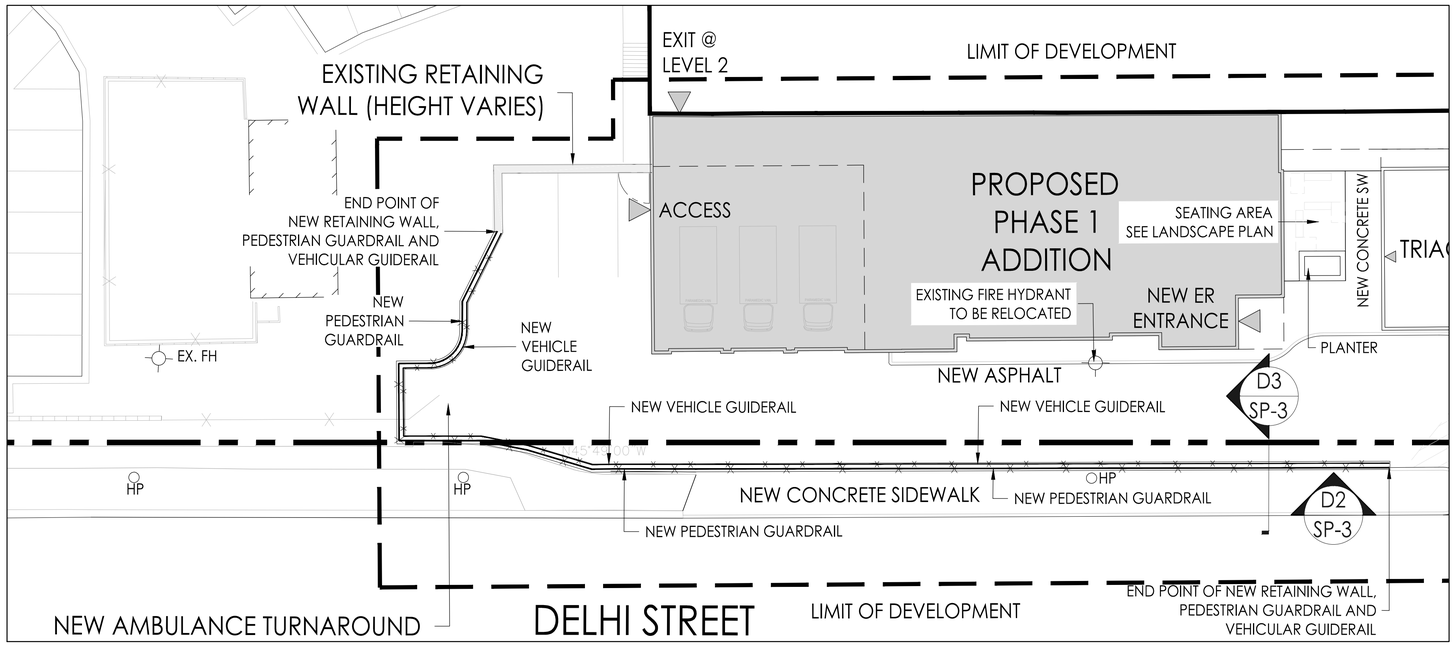
Title

PHASE 1 CONSTRUCTION SITE PLAN/DETAILS
SP24-002
PHASE 1

Project No.	Scale
140022022	HORZ - 1 : 400

Drawing No.	Sheet	Revision
SP-2	2 of 3	6

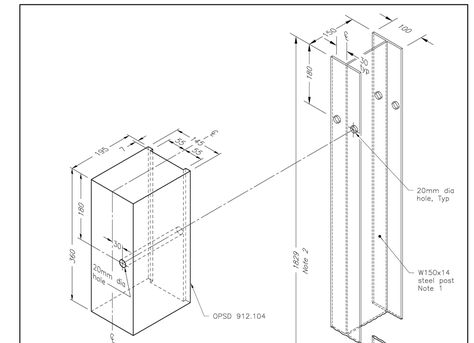
ORIGINAL SHEET - ANSI D



D
1

GUARDRAIL PLAN
Scale: 1:200

N
CONSTRUCTION NORTH



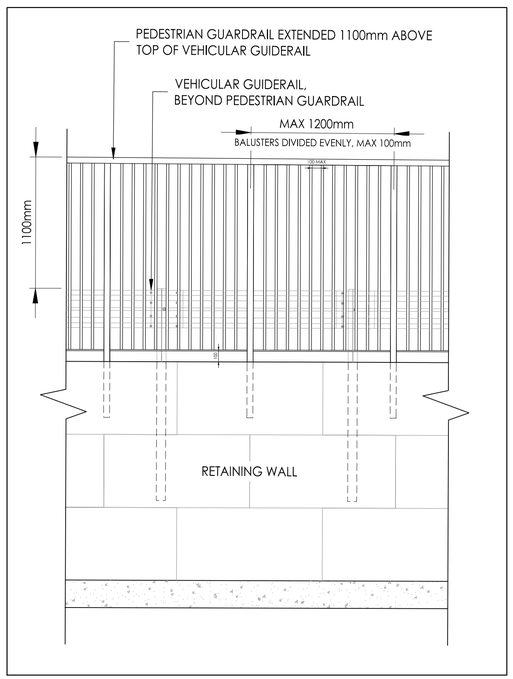
ROUTED WOODEN OFFSET BLOCK (SHOWN)
OR
PLASTIC OFFSET BLOCK
ACCORDING TO OPSD 912.103

NOTES:
1 Imperial size steel sections W6x9 or W6x8.5 are acceptable.
2 Post length shall be 2438mm when specified and when 2438mm long shall be stamped with a 50mm high number "8" in centre of web 50mm below top of post.
A All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2023	Rev 1
GUIDE RAIL SYSTEM, STEEL BEAM M20 STEEL POST WITH OFFSET BLOCK COMPONENT		OPSD 912.127

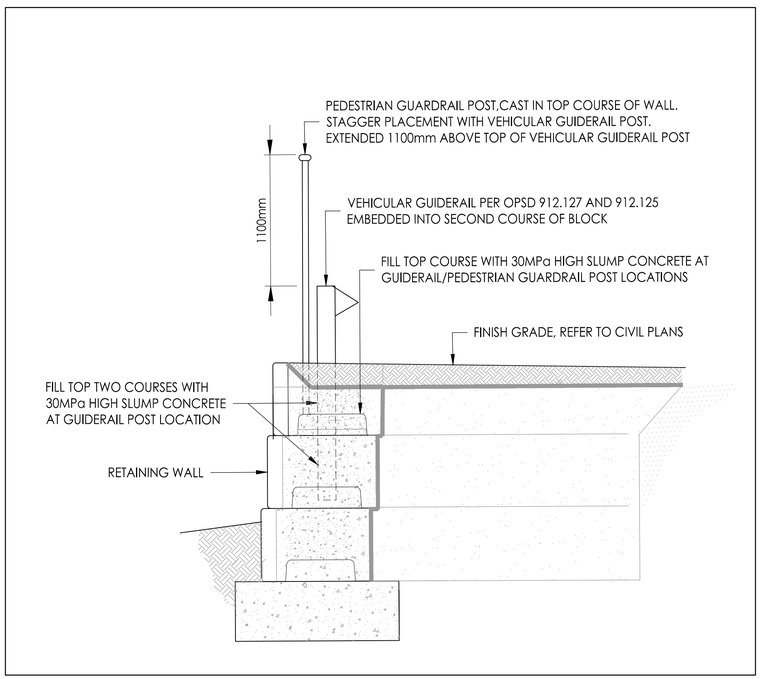
D
4

VEHICLE GUIDERAIL DETAIL - OPSD 912.127
Scale: N.T.S.



D
2

3-COURSE HIGH RETAINING WALL ELEVATION
Scale: 1:25



D
3

3-COURSE HIGH RETAINING WALL SECTION
Scale: 1:25

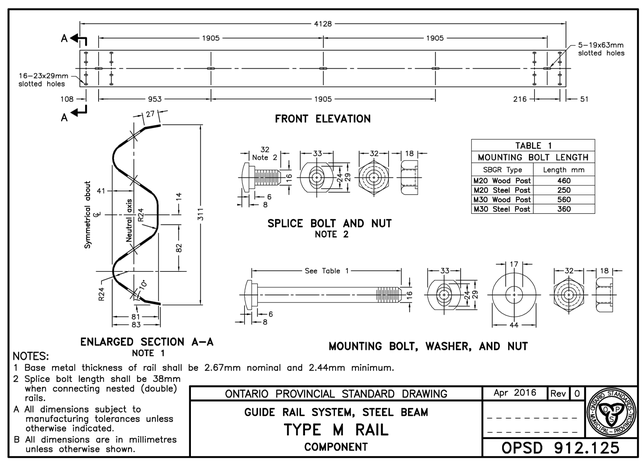


TABLE 1 MOUNTING BOLT LENGTH	
SBGR Type	Length mm
M20 Wood Post	460
M20 Steel Post	250
M30 Wood Post	560
M30 Steel Post	360

NOTES:
1 Base metal thickness of rail shall be 2.67mm nominal and 2.44mm minimum.
2 Splice bolt length shall be 38mm when connecting nested (double) rails.
A All dimensions subject to manufacturing tolerances unless otherwise indicated.
B All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Apr 2016	Rev 0
GUIDE RAIL SYSTEM, STEEL BEAM TYPE M RAIL COMPONENT		OPSD 912.125

D
5

VEHICLE GUIDERAIL DETAIL - OPSD 912.125
Scale: N.T.S.

Stantec
600-171 Queens Avenue
London ON N6A 5J7
Tel. 519-645-2007
www.stantec.com

Revision	By	Appd.	YY.MM.DD
6. ISSUED FOR ADDENDUM No. 3	KT	EB	24.07.05
5. ISSUED FOR SPA RESUBMISSION	KT	EB	24.06.12
4. ISSUED FOR TENDER	KT	EB	24.06.07
3. ISSUED FOR PRE-TENDER	KT	EB	24.05.27
2. ISSUED FOR RETAINING WALL PERMIT	KT	EB	24.05.24
1. ISSUED FOR SPA SUBMISSION	KT	EB	24.04.22

Issued	By	Appd.	YY.MM.DD
File Name: 140022022_rsp_ph1	KT	EB	24.04.22
	Dwn.	Chkd.	Dsgn. YY.MM.DD

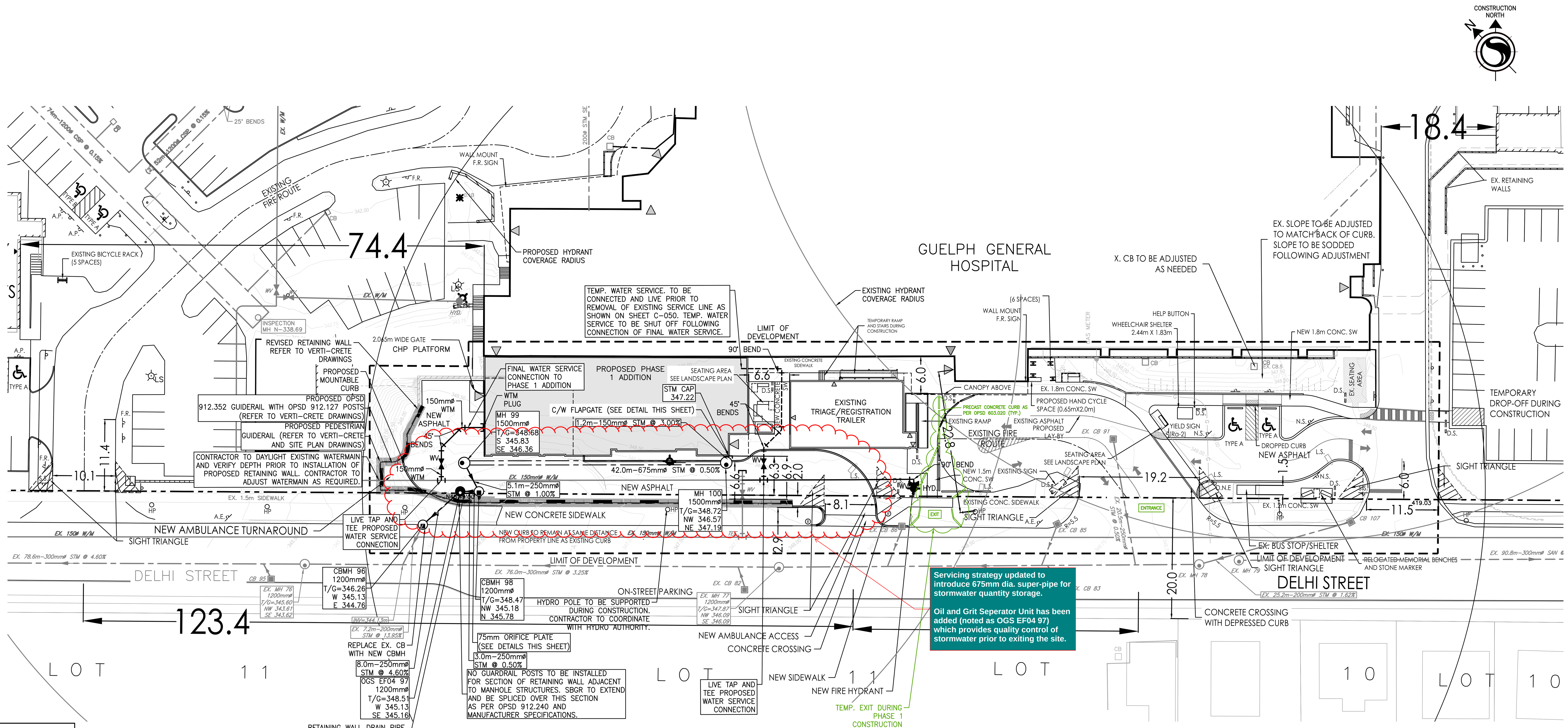
Permit-Seal

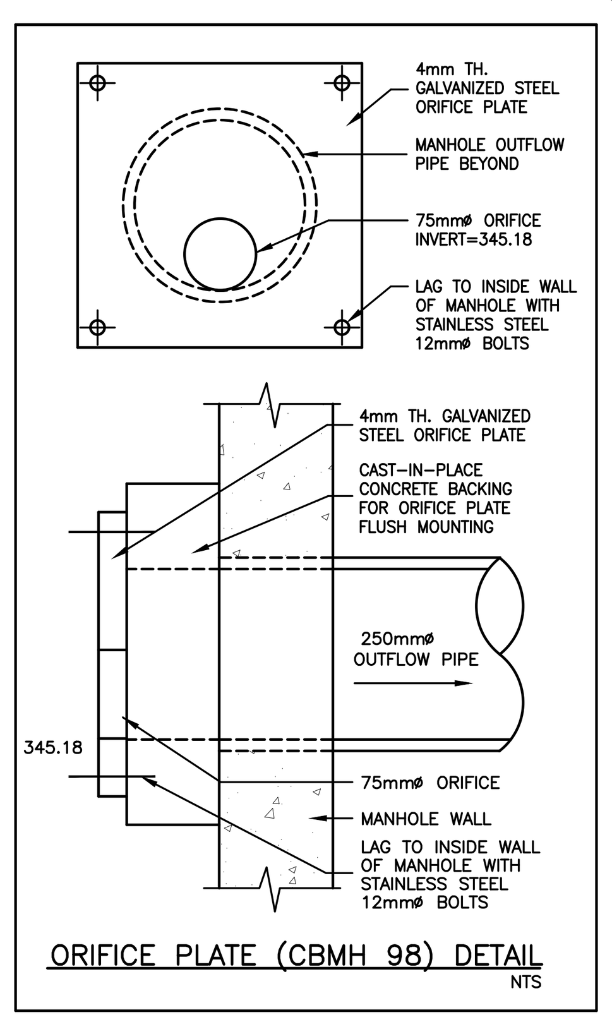
Client/Project
GUELPH GENERAL HOSPITAL

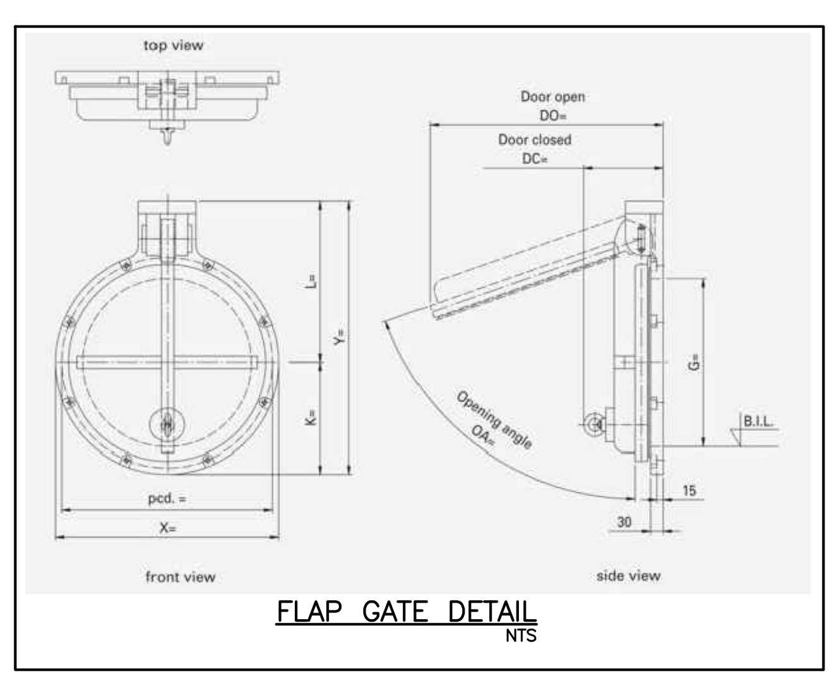
EMERGENCY MENTAL HEALTH AND ADDICTIONS SERVICES RELOCATION AND EMERGENCY DEPARTMENT EXPANSION
Guelph, ON Canada

Title
RETAINING WALL GUARDRAIL DETAILS
SP24-002
PHASE 1

Project No.	Scale	
140022022		
Drawing No.	Sheet	Revision
SP-3	3 of 3	6



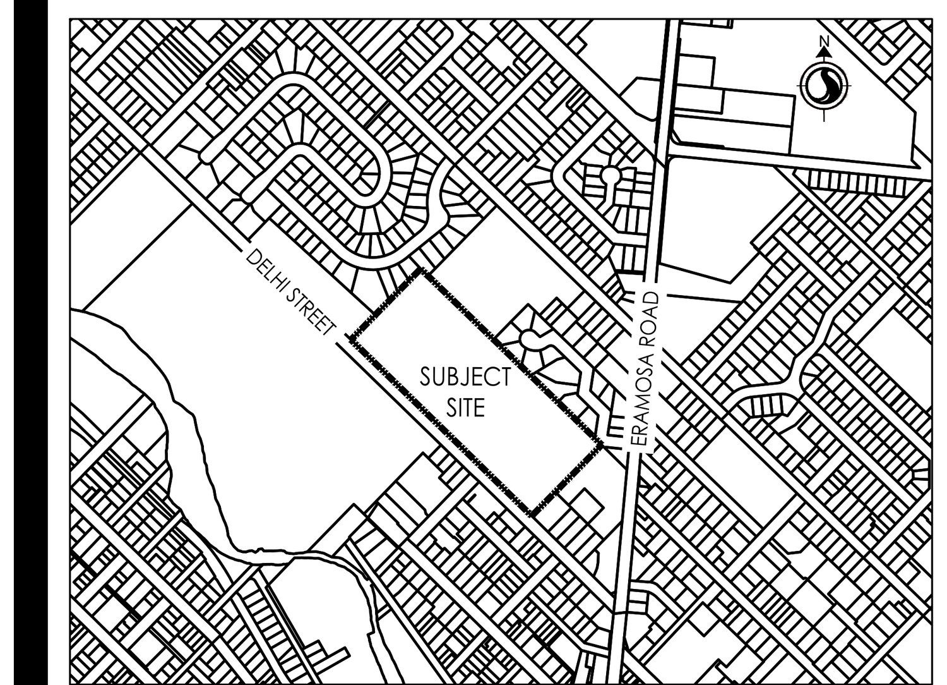




Stantec

Stantec Consulting Ltd.
100-300 Hagey Boulevard
Waterloo ON N2L 0A4
Tel: (519) 579-4410
www.stantec.com

Key Map NTS.



Legend

- PROPERTY BOUNDARY
- RETAINING WALL
- PROPOSED STORM MANHOLE
- PROPOSED STORM CATCHBASIN MANHOLE
- PROPOSED CATCHBASIN
- PROPOSED SANITARY MANHOLE
- PROPOSED VALVE & BOX
- PROPOSED HYDRANT
- PROPOSED STORM SEWER
- PROPOSED SANITARY SEWER
- PROPOSED SANITARY FORCEMAIN
- PROPOSED WATERMAIN
- PROPOSED FENCE

Notes

1. Snow Storage - Snow to be removed from site.

Legal Information

FIRSTLY: LOTS 36, 37, 38 AND 39, PLAN 133 AND PART OF LOTS 35, 40 AND 41, PLAN 133 AND PART OF LOTS 10 AND 11, RANGE 1, DIVISION "F", DES AS PARTS 6, 7, 8 AND 9, WGR50, SAVE AND EXCEPT PARTS 1 AND 2, 61R11415; SECONDLY: PART LOT 35, PLAN 133, DES AS PARTS 1 AND 2, 61R11415; AND THIRDLY: PART LOT 11, RANGE 1, DIVISION "F", DES AS PART 10, WGR50; SUBJECT TO AN EASEMENT OVER PT LOTS 35, 36, 40 & 41, PL 133 DES AS PTS 1 TO 6, 61R11415 IN FAVOUR OF PT LOTS 40 & 41, PL 133 DES AS PTS 1, 2 & 3, WGR50 AS IN WC297163 SUBJECT TO AN EASEMENT OVER PT LOTS 35, 36 & 40, PL 133 DES AS PTS 1, 3, 5, 7 & 8, 61R11415 IN FAVOUR OF PT LOTS 40 & 41, PL 133 DES AS PTS 1, 2 & 3, WGR50 AS IN WC297163 TOGETHER WITH AN EASEMENT OVER PT LOT 40, PL 133 DES AS PT 2, WGR50 AS IN WC297164 SUBJECT TO AN EASEMENT OVER LOTS 35, 36 & 40 PL 133 DES AS PTS 1, 2, 3 & 4 PL 61R11415 IN FAVOUR OF LT 34 & PT LT 35 PL 133 AS IN MS2192 AS IN WC376481 CITY OF GUELPH

	Revision/Issue	By	Appd	YYYY.MM.DD
12.	ISSUED FOR TENDER_ADDENDUM 3	RAS	DM	2024.07.05
11.	RE-ISSUED FOR TENDER	RAS	DM	2024.06.28
10.	ISSUED FOR TENDER	RAS	DM	2024.06.07
9.	ISSUED FOR PRE_TENDER	RAS	DM	2024.05.27
8.	ISSUED FOR SPA SUBMISSION	RAS	DM	2024.04.22
7.	ISSUED FOR BUILDING PERMIT	RAS	DM	2024.03.28
6.	ISSUED FOR STAGE 2.3 MOH SUBMISSION	BWM	TAHF	2024.02.23
5.	ISSUED FOR SPA SUBMISSION	RAS	TAHF	2024.01.15
4.	ISSUED FOR COSTING AND GGH REVIEW	RAS	TAHF	2023.12.21
3.	PROGRESS PLOTS	RAS	TAHF	2023.11.23
2.	ISSUED FOR 60% CONSTRUCTION DOCUMENTS	RAS	TAHF	2023.10.26
1.	ISSUED FOR MOH STAGE 2.2 SUBMISSION	ND/RAS	TAHF	2023.09.28

File Name: 140021022_C-100UG_PH1	NTD	NTD	TAF	2024.06.21
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit-Seal

LICENSED PROFESSIONAL ENGINEER
D. MANOJ
100557881
2024-06-28
PROVINCE OF ONTARIO

Client/Project

GUELPH GENERAL HOSPITAL
EMERGENCY MENTAL HEALTH & ADDICTIONS

SERVICES RELOCATION & EMERGENCY DEPARTMENT EXPANSION

GUELPH, ON CANADA

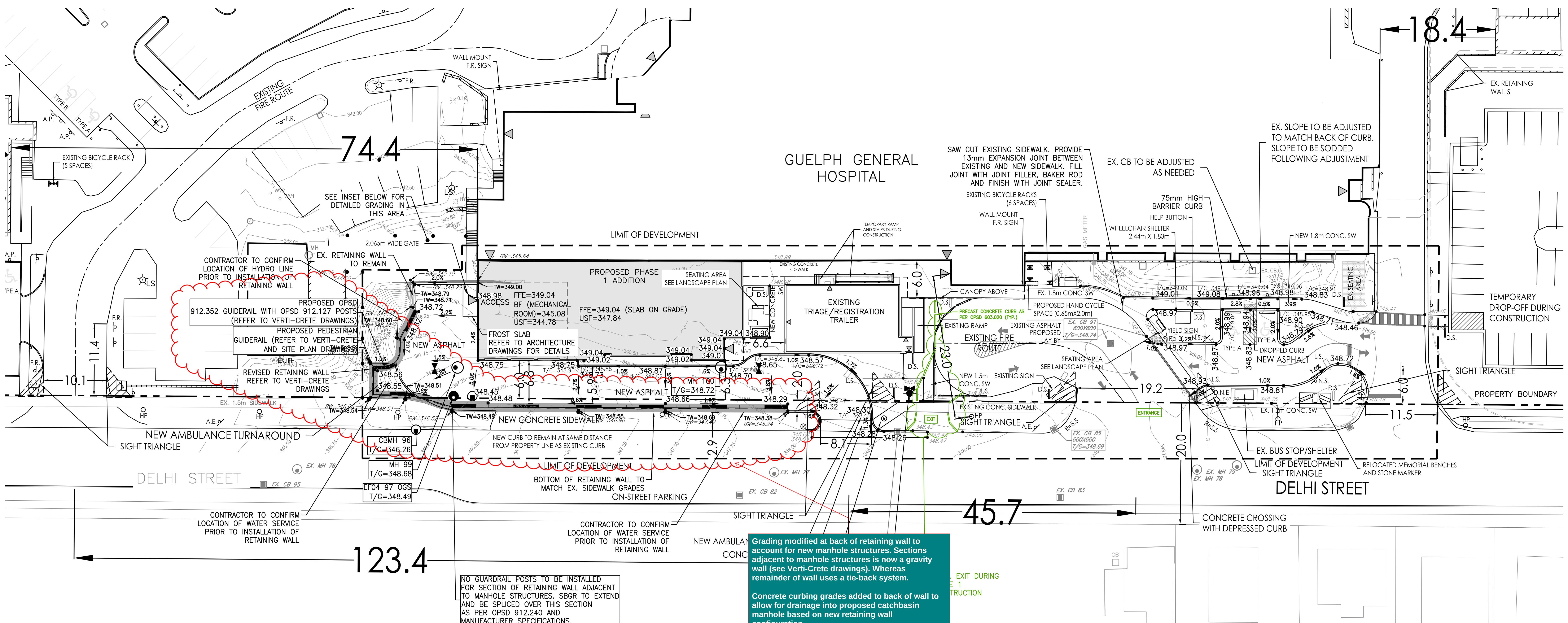
Title

SERVICING PLAN
SP23-015S

Project No.	Scale
140022022	1:400

Revision	Sheet	Drawing No.
12	5 of 10	SSP-1

ORIGINAL SHEET - ARCH D



NO GUARDRAIL POSTS TO BE INSTALLED FOR SECTION OF RETAINING WALL ADJACENT TO MANHOLE STRUCTURES. SBGR TO EXTEND AND BE SPLICED OVER THIS SECTION AS PER OPSD 912.240 AND MANUFACTURER SPECIFICATIONS.

Added a note to ensure no guardrail posts are embedded in the gravity wall section of the retaining wall. Steel Beam Guard Rail (SBGR) to be extended and spliced over this gap where there are no posts

Grading modified at back of retaining wall to account for new manhole structures. Sections adjacent to manhole structures is now a gravity wall (see Verti-Crete drawings). Whereas remainder of wall uses a tie-back system.

Concrete curbing grades added to back of wall to allow for drainage into proposed catchbasin manhole based on new retaining wall configuration.

Guardrail has been switched to OPSD 912.532 which is an overall thinner guardrail system that is currently present onsite. This provides slightly more clearance from the rail and ambulance garage.

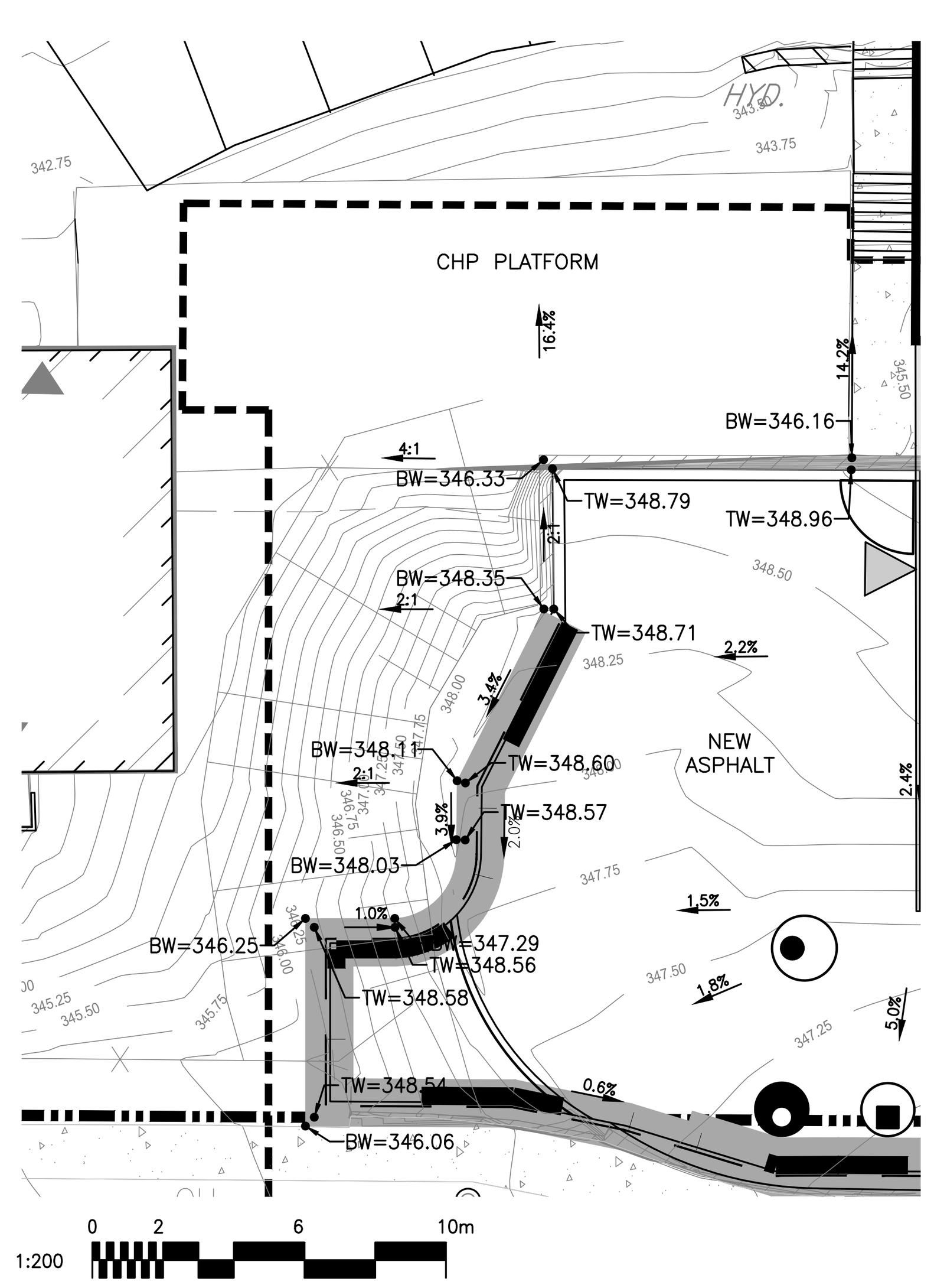
ALL PROPOSED CURBS TO BE OPSD 600.110, UNLESS OTHERWISE SPECIFIED

PAVEMENT DESIGN AS FOLLOWS:

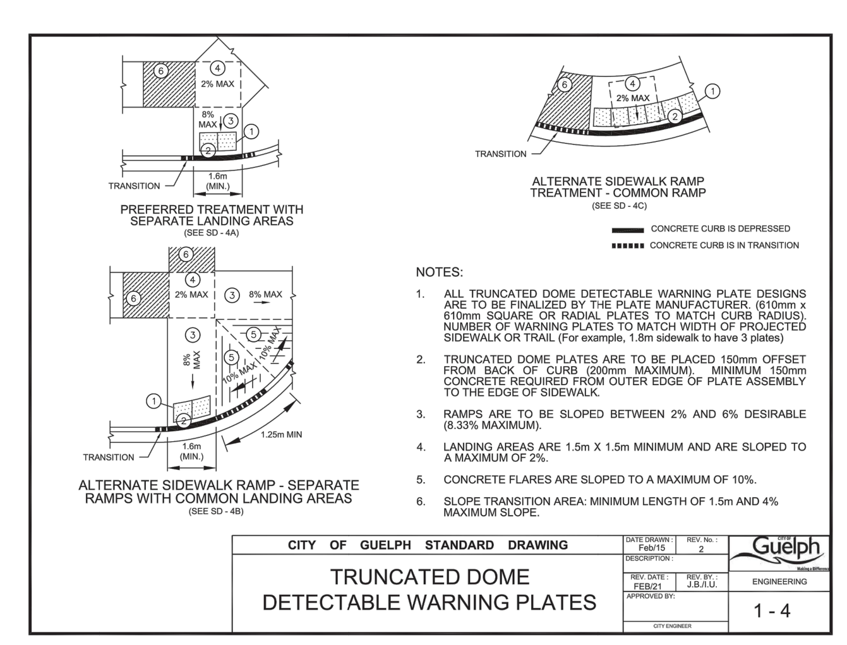
HL3 SURFACE ASPHALT	40mm
HL4 BASE ASPHALT	50mm
GRANULAR 'A'	150mm
GRANULAR 'B'	450mm

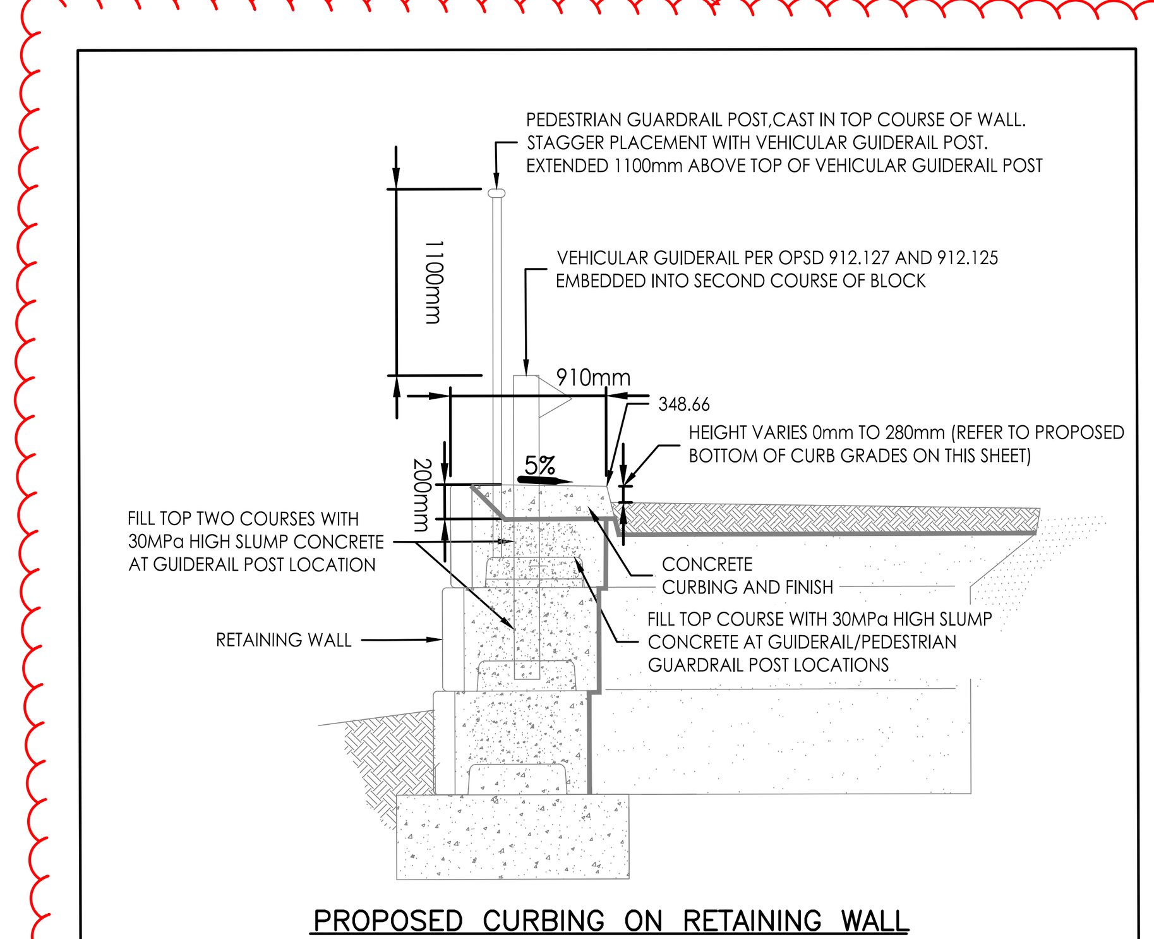
REFER TO GEOTECHNICAL REPORT FOR MORE INFORMATION.

Retaining wall detail updated to show curbing configuration with varying height behind wall and on top block of retaining wall



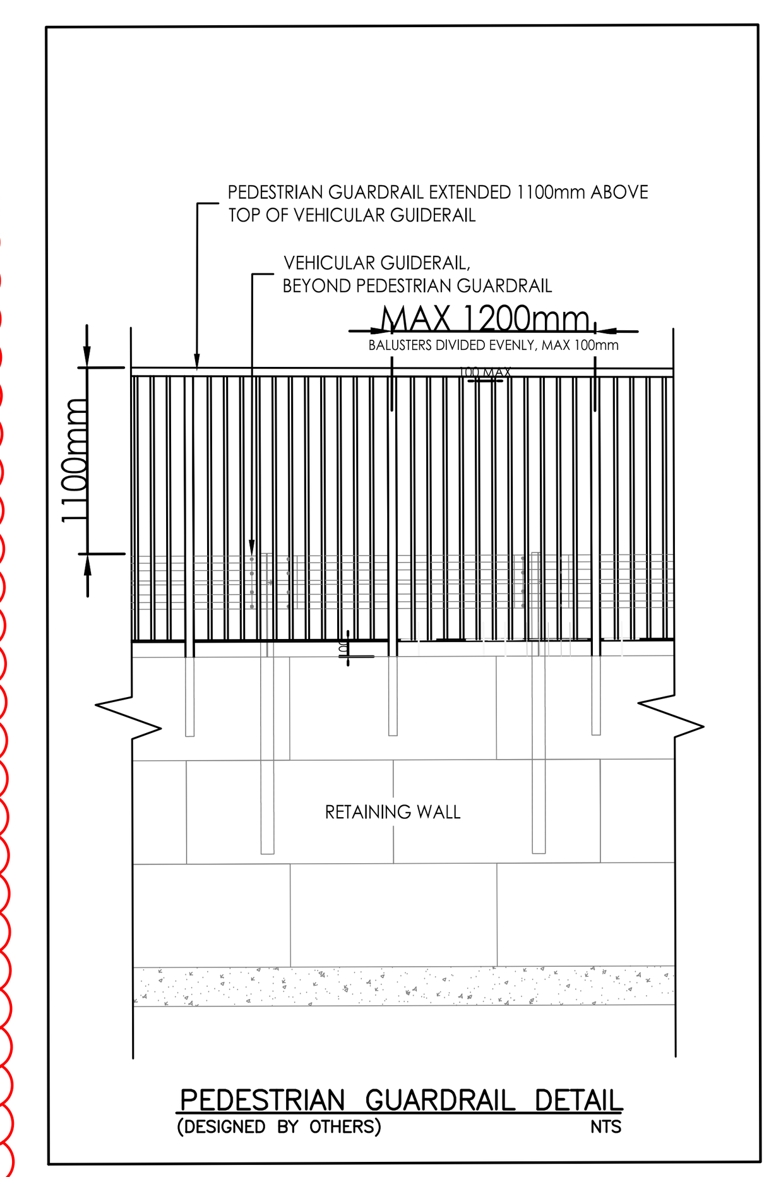
RETAINING WALL GRADING INSET





PROPOSED CURBING ON RETAINING WALL

NTS



PEDESTRIAN GUARDRAIL DETAIL

(DESIGNED BY OTHERS)

NTS

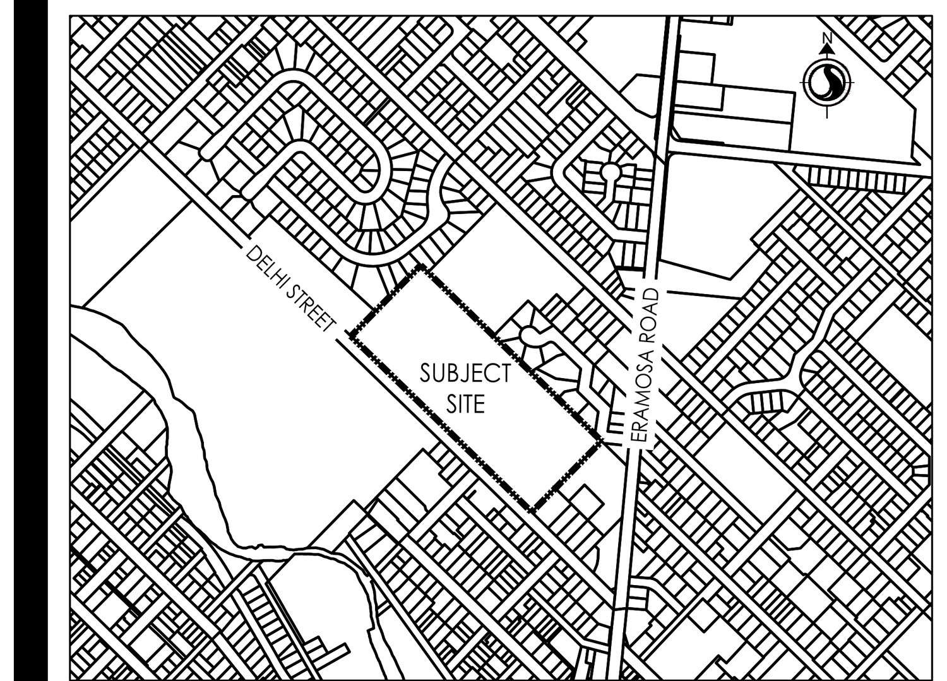
1:400 0 4 12 20m

ORIGINAL SHEET - ARCH D

Stantec

Stantec Consulting Ltd.
100-300 Hagey Boulevard
Waterloo ON N2L 0A4
Tel: (519) 579-4410
www.stantec.com

Key Map NTS.



Legend

PROPERTY BOUNDARY
352.82 EXISTING ELEVATION
352.92 PROPOSED ELEVATION
5.0% 2.0% FLOW DIRECTION
INFILTRATION REQUIRED ON LOT IF GEOTECHNICAL CONSULTANT DEEMS SOIL TO BE SUITABLE (SEE DETAIL DWG C-500)
349.00 EXISTING CONTOUR
RETAINING WALL
PROPOSED STORM MANHOLE
PROPOSED STORM CATCHBASIN MANHOLE
PROPOSED CATCHBASIN
PROPOSED SANITARY MANHOLE
PROPOSED VALVE & BOX
PROPOSED HYDRANT
BH BORE HOLE
TP TEST PIT
HH HAND HOLE

Notes

1. Snow Storage - Snow to be removed from site.

Legal Information

FIRSTLY: LOTS 36, 37, 38 AND 39, PLAN 133 AND PART OF LOTS 35, 40 AND 41, PLAN 133 AND PART OF LOTS 10 AND 11, RANGE 1, DIVISION "F", DES AS PARTS 6, 7, 8 AND 9, WGR50, SAVE AND EXCEPT PARTS 1 AND 2, 61R11415; SECONDLY: PART LOT 35, PLAN 133, DES AS PARTS 1 AND 2, 61R11415; AND THIRDLY: PART LOT 11, RANGE 1, DIVISION "F", DES AS PART 10, WGR50; SUBJECT TO AN EASEMENT OVER PT LOTS 35, 36, 40 & 41, PL 133 DES AS PTS 1 TO 6, 61R11415 IN FAVOUR OF PT LOTS 40 & 41, PL 133 DES AS PTS 1, 2 & 3, WGR50 AS IN WC297163 SUBJECT TO AN EASEMENT OVER PT LOTS 35, 36 & 40, PL 133 DES AS PTS 1, 3, 5, 7 & 8, 61R11415 IN FAVOUR OF PT LOTS 40 & 41, PL 133 DES AS PTS 1, 2 & 3, WGR50 AS IN WC297163 TOGETHER WITH AN EASEMENT OVER PT LOT 40, PL 133 DES AS PT 2, WGR50 AS IN WC297164 SUBJECT TO AN EASEMENT OVER LOTS 35, 36 & 40 PL 133 DES AS PTS 1, 2, 3 & 4 PL 61R11415 IN FAVOUR OF LT 34 & PT LT 35 PL 133 AS IN MS2192 AS IN WC376481 CITY OF GUELPH

12.	ISSUED FOR TENDER_ADDENDUM 3	RAS	DM	2024.07.05
11.	RE-ISSUED FOR TENDER	RAS	DM	2024.06.28
10.	ISSUED FOR TENDER	RAS	DM	2024.06.07
9.	ISSUED FOR PRE_TENDER	RAS	DM	2024.05.27
8.	ISSUED FOR SPA SUBMISSION	RAS	DM	2024.04.22
7.	ISSUED FOR BUILDING PERMIT	RAS	DM	2024.03.28
6.	ISSUED FOR STAGE 2.3 MOH SUBMISSION	BWM	TAHF	2024.02.23
5.	ISSUED FOR SPA SUBMISSION	RAS	TAHF	2024.01.15
4.	ISSUED FOR COSTING AND GGH REVIEW	RAS	TAHF	2023.12.21
3.	PROGRESS PLOTS	RAS	TAHF	2023.11.23
2.	ISSUED FOR 60% CONSTRUCTION DOCUMENTS	RAS	TAHF	2023.10.26
1.	ISSUED FOR MOH STAGE 2.2 SUBMISSION	ND/RAS	TAHF	2023.09.28
	Revision/Issue	By	Appd	YYYY.MM.DD

File Name: 140021022_C-400GP_PH1	NTD	NTD	TAF	2024.06.28
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit-Seal

LICENSED PROFESSIONAL ENGINEER
D. MANOJ
100557881
2024-06-28
PROVINCE OF ONTARIO

Client/Project

GUELPH GENERAL HOSPITAL
EMERGENCY MENTAL HEALTH & ADDICTIONS

SERVICES RELOCATION & EMERGENCY DEPARTMENT EXPANSION

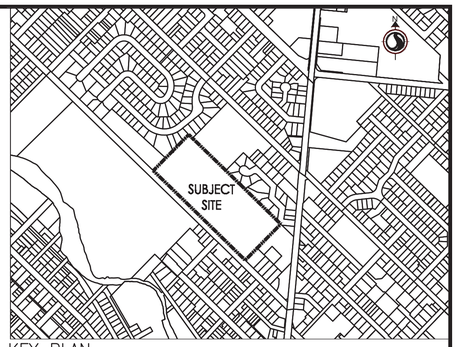
GUELPH, ON CANADA

Title

GRADING PLAN
SP23-015S

Project No.	Scale	
140022022	1:400 0 4 12 20m	

Revision	Sheet	Drawing No.
12	7 of 10	GP-1



KEY PLAN

PROJECT TYPE : VERTI-BLOCK RETAINING WALL

PROJECT NAME : GUELPH GENERAL HOSPITAL (ISSUED FOR TENDER)

JOB NO. & ADDRESS : 2023-VC-228~ GUELPH, ONTARIO

NOTES

1. ALL DIMENSION ARE IN MM
2. ALL ELEVATIONS & STATIONS ARE IN M UNLESS OTHERWISE NOTED
3. READ THESE DRAWINGS IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS.
4. CONTRACTOR TO VERIFY EXISTING CONDITION ON SITE PRIOR TO INSTALLATION FOR EXACT FIT. NOTIFY CONSULTANT / ENGINEER REGARDING ANY DISCREPANCIES.
5. DON'T SCALE DRAWINGS

LICENSED PROFESSIONAL ENGINEER
#231245
26-JUN-24
T. T.L. CHEUNG
100212242
STRUCTURAL
PROVINCE OF ONTARIO

A-D Engineering Group Ltd.
Consulting Engineers
45 Eric T Smith Way - Unit 6, Aurora, Ontario, L4G 3Z8
905-898-3514 Free 1-855-998-3514 Fax 905-898-1998
Email: info@adengineering.ca www.adengineering.ca

SABSTONE

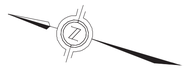
DRAWING INDEX

SHEET	DRAWING DESCRIPTION	Rev.	DATE
COV	COVER SHEET		2024-06-25
A-01	LEGEND & ABBREVIATIONS	0	2024-06-25
A-02	SITE PLAN	0	2024-06-25
C-01~03	WALL PLAN, PROFILE & BLOCKS ARRANGEMENT	0	2024-06-25
XS-01~06	WALL CROSS-SECTION	0	2024-06-25

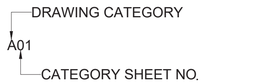
VERTI-CRETE of TORONTO
56 QUEEN ST N, Bolton, Ontario,L7E 5B8
Phone: 905.857.8572
Fax:905.857.0865
www.verticreteto.com

1- GENERAL SYMBOLS

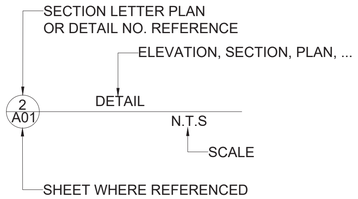
A- NORTH ARROW



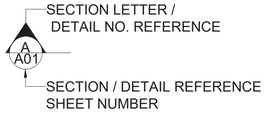
B- DRAWING NUMBER



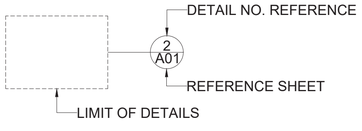
C- DRAWING TITLE



D- SECTION INDICATOR



E- PARTIAL DETAIL



F- HYPERLINK

2- GRADING LEGEND

205.00 EXISTING CONTOUR
× 265.15 EXISTING GRADE
× 265.15 PROPOSED GRADE
278.69 SPECIFIED HOUSE GRADE
EXISTING STORM MANHOLE
EXISTING SANITARY MANHOLE
EXISTING CATCH BASIN
PROPOSED STORM MANHOLE
PROPOSED STORM BOX MANHOLE
PROPOSED SANITARY MANHOLE
CATCH BASIN - NO ICD
PROPOSED DOUBLE CATCH BASIN
PROPOSED WATER VALVE/ VALVE AND BOX CHAMBER
PROPOSED HYDRANT AND VALVE
PROPOSED DRIVEWAY
PHASE LIMIT
DEAD END BARRICADE PER OPSD 912.532
PROPOSED CHAIN LINK FENCE
PROPOSED ACOUSTIC FENCE
PROPOSED POST AND RAIL FENCE
PROPOSED PRIVACY FENCE
PROPOSED RETAINING WALL
135 PROPOSED LOT NUMBERS
F PROPOSED FRONT DRAINAGE LOT
S PROPOSED SPLIT DRAINAGE LOT
D PROPOSED DECK LOT
WO PROPOSED WALKOUT LOT
Tr TRANSITION LOT
B2B BACK TO BACK
ENGINEERED FILL
PROPOSED DITCH OR SWALE
PROPOSED 3:1 SLOPE
OVERLAND FLOW DIRECTION
EXISTING OVERLAND FLOW DIRECTION
LOTS REQUIRING RAIN BARRELS
DRIVEWAY
TREE PROTECTION FENCE AS PER NMS - 503.00
CANADA POST MAILBOX
100Yr PONDING LIMIT
EXISTING TREE TO BE REMOVED
EXISTING TREE TO BE REMOVED REQUIRE ADJACENT OWNER WRITTEN APPROVAL
EXISTING TREE TO BE PRESERVED
EXISTING TREE TO BE TRANSPLANTED
274.56 MINIMUM BASEMENT FLOOR ELEVATION
VALVE AND BOX
WATER SAMPLING STATION

3- GENERAL ABBREVIATIONS

TG.	TOP GRADE (PROPOSED TOP OF WALL)
BG.	BOTTOM GRADE (PROPOSED BOTTOM OF WALL)
TOW.	TOP OF WALL
BOW.	BOTTOM OF WALL
DWG.	DRAWING
R.C.	REINFORCED CONCRETE
CONC.	CONCRETE
CL.	CENTER LINE
SEC.	SECTION
DTL.	DETAIL
SYMM.	SYMMETRICAL
VERT.	VERTICAL
HOR.	HORIZONTAL
LGTH.	LENGTH
EXT.	EXTERIOR
INT.	INTERIOR
EX. EL.	EXISTING ELEVATION
FIN. EL.	FINISH ELEVATION
REINF.	REINFORCEMENT
DIA.	DIAMETER
T	TOP
B	BOTTOM
FF	FRONT FACE
BF	BACK FACE
SP	SPACING
EQ	EQUAL
N.G.L.	NATURAL GROUND LEVEL
N.T.S	NOT TO SCALE
R.C.W	RIGHT CARRIAGEWAY
L.C.W	LEFT CARRIAGEWAY
N.J	NEW JERSEY BARRIER
STD.	STANDARD

4- BLOCKS SYMBOLS & ABBREVIATIONS

A- Block height = 2 ft

TS2		2' TOP STANDARD
SB2		2' STANDARD
TCL2	TCL2	2' TOP CORNER LEFT
TCR2	TCR2	2' TOP CORNER RIGHT
CR2	CR2	2' STD. CORNER RIGHT
CL2	CL2	2' STD. CORNER LEFT
SH2		2' STANDARD HALF
TH2		2' TOP STANDARD HALF
ME5		2' MASS EXTENDER 5' WIDTH
TDSB2		2' TOP STANDARD DOUBLE SIDED
TTSB2		2' TOP STANDARD TRIPLE SIDED
DSB2		2' STANDARD DOUBLE SIDED
TSB2		2' STANDARD TRIPLE SIDED
DSH2		2' STANDARD HALF DOUBLE SIDED
TSH2		2' STANDARD HALF TRIPLE SIDED

B- Block height = 1 ft

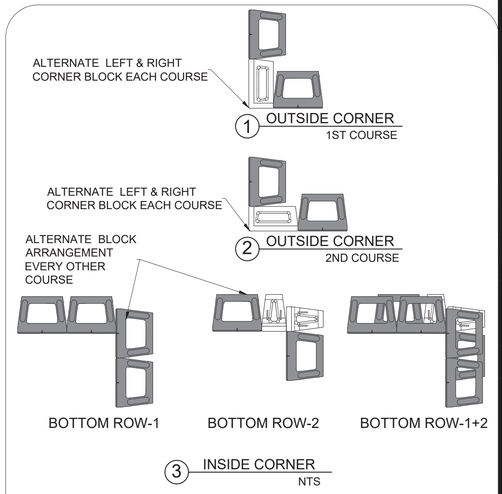
TS1		1' TOP STANDARD
SB1		1' STANDARD
TCL1	TCL1	1' TOP CORNER LEFT
TCR1	TCR1	1' TOP CORNER RIGHT
CR1	CR1	1' STD. CORNER RIGHT
CL1	CL1	1' STD. CORNER LEFT
SH1		1' STANDARD HALF
TH1		1' TOP STANDARD HALF
TDSB1		1' TOP STANDARD DOUBLE SIDED
TTSB1		1' TOP STANDARD TRIPLE SIDED
DSB1		1' STANDARD DOUBLE SIDED
TSB1		1' STANDARD TRIPLE SIDED
DSH1		1' STANDARD HALF DOUBLE SIDED
TSH1		1' STANDARD HALF TRIPLE SIDED

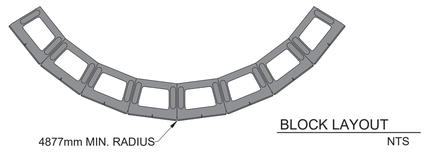
C- COPING

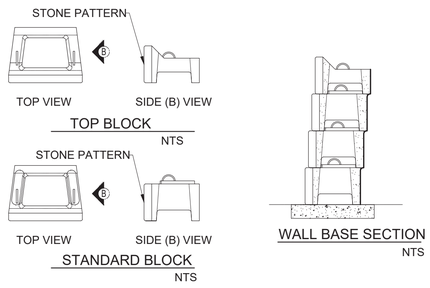
COPING (2 OR 3 SIDED)

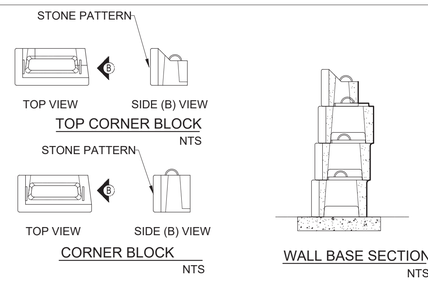
5- WALL PATTERN

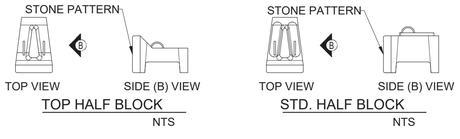
6- STANDARD DETAILS







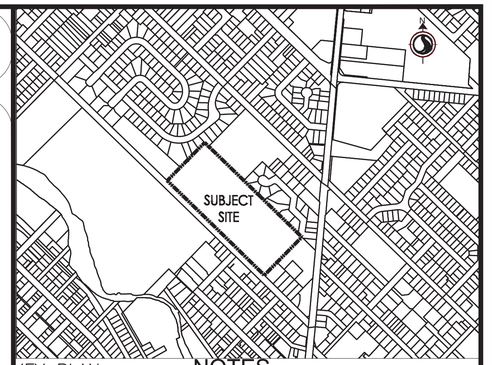




FOR MORE INFORMATION

DOWNLOAD DESIGN MANUALS & BROCHURE

HYPERLINK



KEY PLAN

NOTES

1. ALL DIMENSIONS ARE IN Mm
2. ALL ELEVATIONS & STATIONS ARE IN M UNLESS OTHERWISE NOTED

DISCLAIMER

1. VERTI-CRETE OF TORONTO IS THE AUTHOR OF THESE DRAWINGS AND RETAIN ALL COMMON LAW, STATUTORY, AND OTHER RESERVED RIGHTS INCLUDING THE COPYRIGHT.
2. LIMITED LICENSE IS GRANTED TO COPY, REPRODUCE, OR MODIFY THE DETAILS TO PREPARE CONSTRUCTION DOCUMENTS VERTI- CRETE FENCES AND RETAINING WALLS.
3. VERTI-CRETE OF TORONTO MAKES NO WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, AND ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY, SUITABILITY, OR COMPLETENESS OF INFORMATION CONTAINED HEREIN.

No.	REVISIONS	DATE	BY	REVIEWED
0	FIRST SUBMISSION	2024-06-24	K.R.	A-D ENG.

REFERENCE DRAWINGS

TITLE	JOB NO.	Rev. NO.	DATE
GRADING PLAN SP23-015S	140022022	10	2024-06-07

STAMP

LICENSED PROFESSIONAL ENGINEER
#231245
26-JUN-24
T. T.L. CHEUNG
100212242
STRUCTURAL
PROVINCE OF ONTARIO

JOB NO. 2023-VC-228

PROJECT

GUELPH GENERAL HOSPITAL

SITE ADDRESS GUELPH, ONTARIO

A-D Engineering Group Ltd.
Consulting Engineers
45 Eric T Smith Way - Unit 6, Aurora, Ontario, L4G 3Z8
905-898-3514 Free 1-855-998-3514 Fax 905-898-1998
Email: info@adengineering.ca www.adengineering.ca

VERTI-CRETE of TORONTO
SABSTONE
56 QUEEN ST N, Bolton, Ontario,L7E 5B8
Phone: 905.857.8572
Fax:905.857.0865
www.verticreteto.com

DESIGNED BY:KIRAN RAWAT

PENG APPROVAL:

DATE: 2024-06-24

LEGEND, ABBREVIATIONS & STANDARD DETAILS

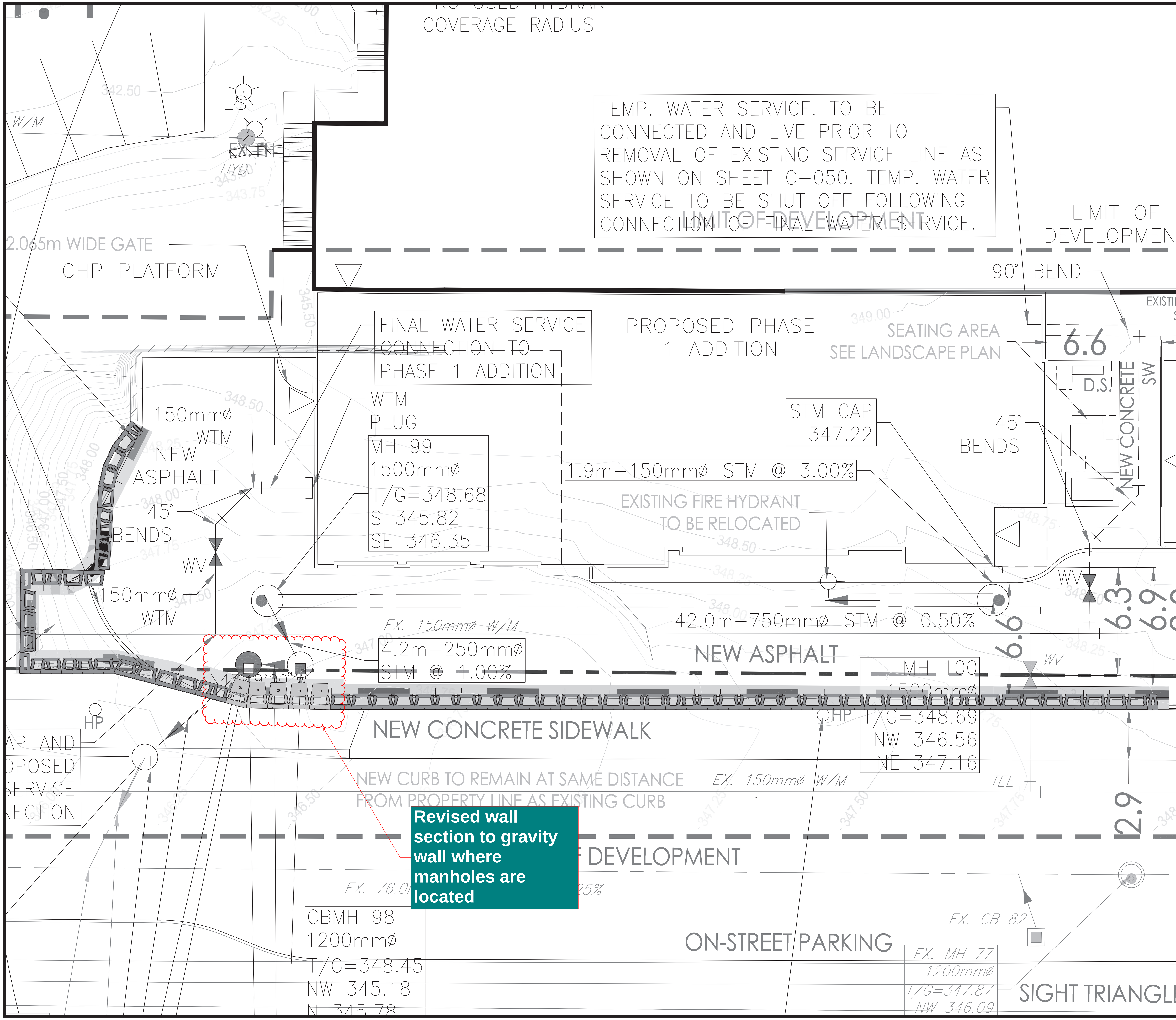
PROJECT TYPE: VERTI-BLOCK

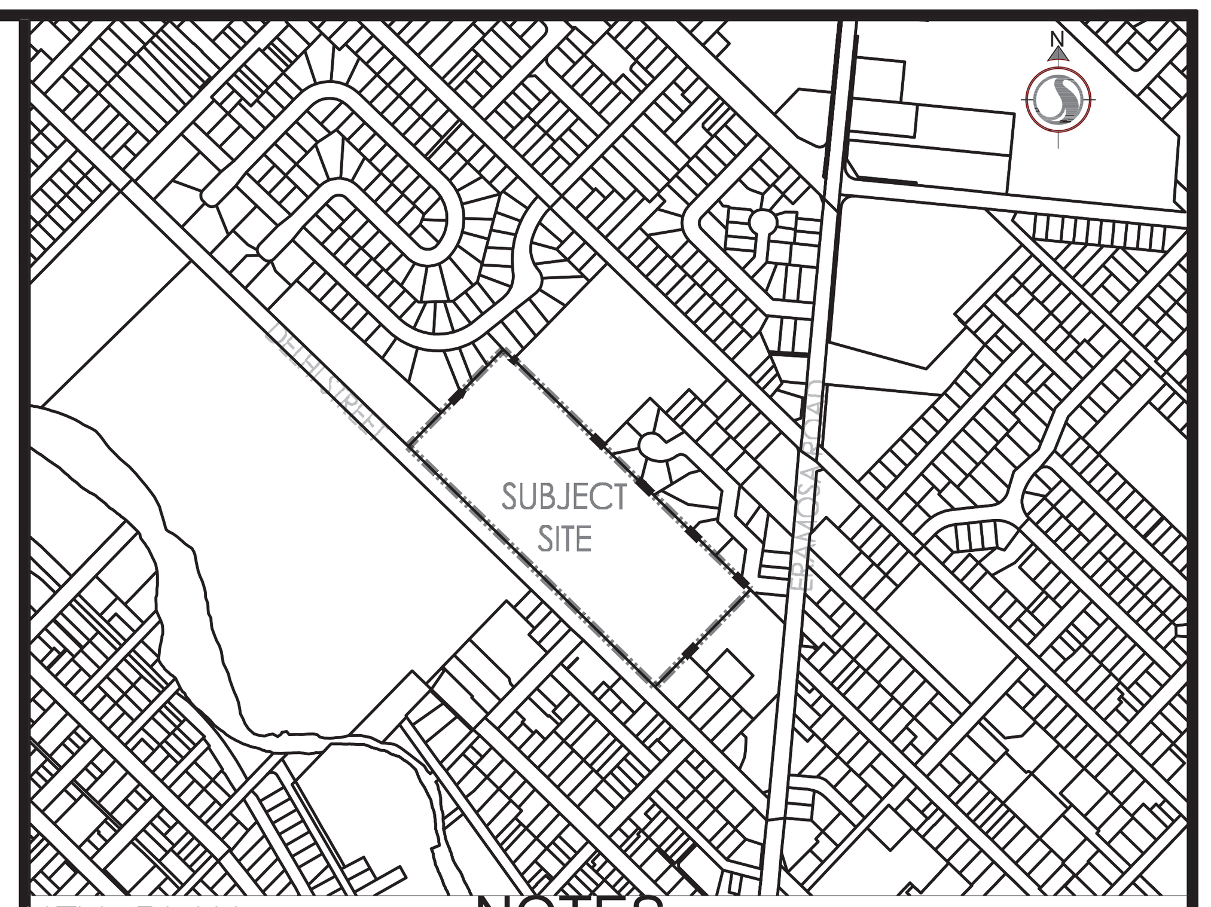
SCALE: n.t.s.

A-01

REV. 0

CAD FILE: C:\Users\Vicino\Documents\Projects\2023\2023-VC-228 - Guelph General Hospital - RW\2023-VC -228 -Guelph General Hospital -Stamped.dwg





NOTES

1. ALL DIMENSIONS ARE IN Mm
2. ALL ELEVATIONS & STATIONS ARE IN M UNLESS OTHERWISE NOTED

DISCLAIMER

1. VERTI-CRETE OF TORONTO IS THE AUTHOR OF THESE DRAWINGS AND RETAIN ALL COMMON LAW, STATUTORY, AND OTHER RESERVED RIGHTS INCLUDING THE COPYRIGHT.
2. LIMITED LICENSE IS GRANTED TO COPY, REPRODUCE, OR MODIFY THE DETAILS TO PREPARE CONSTRUCTION DOCUMENTS VERTI- CRETE FENCES AND RETAINING WALLS.
3. VERTI-CRETE OF TORONTO MAKES NO WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, AND ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY, SUITABILITY, OR COMPLETENESS OF INFORMATION CONTAINED HEREIN.

No.	REVISIONS	DATE	BY	REVIEWED
0	FIRST SUBMISSION	2024-06-25	K.R.	A.D. ENG.

REFERENCE DRAWINGS

TITLE	JOB NO.	Rev. NO.	DATE
GRADING PLAN SP23-012S	140022022	10	2024-06-07

STAMP

LICENSED PROFESSIONAL ENGINEER #231245 26-JUN-24 T. T. L. CHEUNG 100212242 STRUCTURAL PROVINCE OF ONTARIO

PROJECT NUMBER ~ SITE ADDRESS

2023-VC-228~ GUELPH GENERAL HOSPITAL

A-D Engineering Group Ltd.
Consulting Engineers
45 Eric T Smith Way - Unit 6, Aurora, Ontario, L4G 3Z8
905-898-3514 Free 1-855-998-3514 Fax 905-898-1998
Email: info@adengineering.ca www.adengineering.ca

VERTI-CRETE of TORONTO
SABSTONE
56 QUEEN ST N, Bolton, Ontario,L7E 5B8
Phone: 905.857.8572
Fax:905.857.0865
www.verticreteto.com

DESIGNED BY:KIRAN RAWAT
PENG APPROVAL:

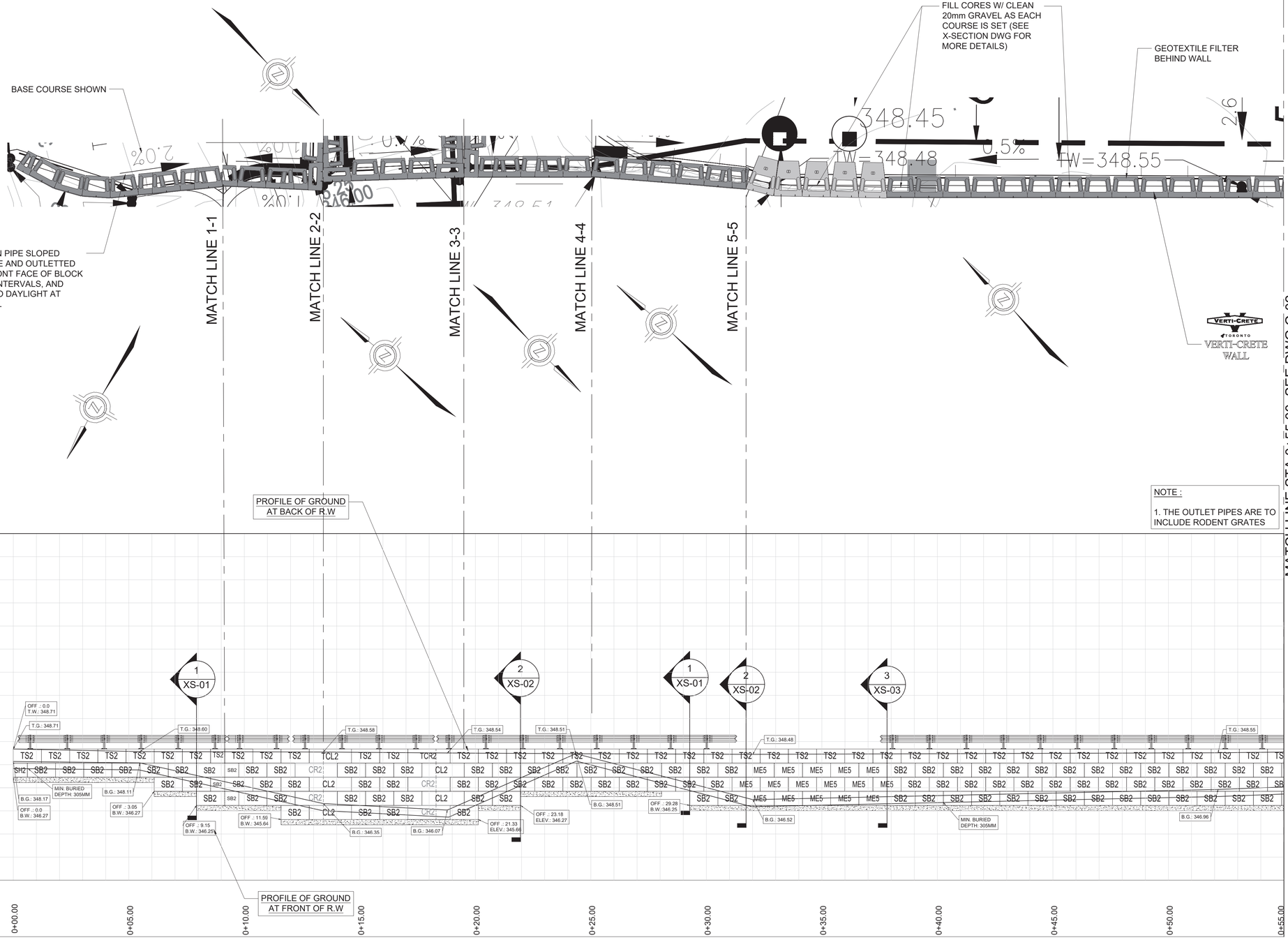
SITE PLAN

PROJECT TYPE: VERTI-BLOCK

DATE: 2024-06-25 SCALE: 1:200

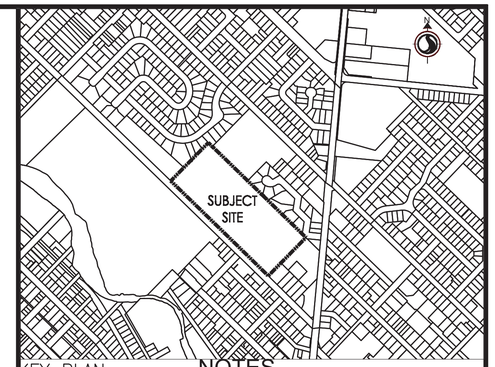
A-02

REV. 0



NOTE :

1. THE OUTLET PIPES ARE TO INCLUDE RODENT GRATES



KEY PLAN

NOTES

1. ALL DIMENSIONS ARE IN Mm
2. ALL ELEVATIONS & STATIONS ARE IN M UNLESS OTHERWISE NOTED

DISCLAIMER

1. VERTI-CRETE OF TORONTO IS THE AUTHOR OF THESE DRAWINGS AND RETAIN ALL COMMON LAW, STATUTORY, AND OTHER RESERVED RIGHTS INCLUDING THE COPYRIGHT.
2. LIMITED LICENSE IS GRANTED TO COPY, REPRODUCE, OR MODIFY THE DETAILS TO PREPARE CONSTRUCTION DOCUMENTS VERTI- CRETE FENCES AND RETAINING WALLS.
3. VERTI-CRETE OF TORONTO MAKES NO WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, AND ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY, SUITABILITY, OR COMPLETENESS OF INFORMATION CONTAINED HEREIN.

No.	REVISIONS	DATE	BY	REVIEWED
0	FIRST SUBMISSION	2024-06-25	K.R.	A.D. ENG.

REFERENCE DRAWINGS

TITLE	JOB NO.	Rev. NO.	DATE
GRADING PLAN SP23-012S	140022022	10	2024-06-07

STAMP

LICENSED PROFESSIONAL ENGINEER #231245 26-JUN-24 T. T.L. CHEUNG 100212242 STRUCTURAL PROVINCE OF ONTARIO

PROJECT NUMBER ~ SITE ADDRESS

2023-VC -228 -GUELPH GENERAL HOSPITAL

A-D Engineering Group Ltd.
Consulting Engineers
45 Eric T Smith Way - Unit 6, Aurora, Ontario, L4G 3Z8
905-898-3514 Free 1-855-998-3514 Fax 905-898-1998
Email: info@adengineering.ca www.adengineering.ca

VERTI-CRETE of TORONTO
SABSTONE

56 QUEEN ST N, Bolton, Ontario,L7E 5B8
Phone: 905.857.8572
Fax:905.857.0865
www.verticreteto.com

DESIGNED BY:KIRAN RAWAT
PENG APPROVAL:

WALL "A" PLAN & PROFILE

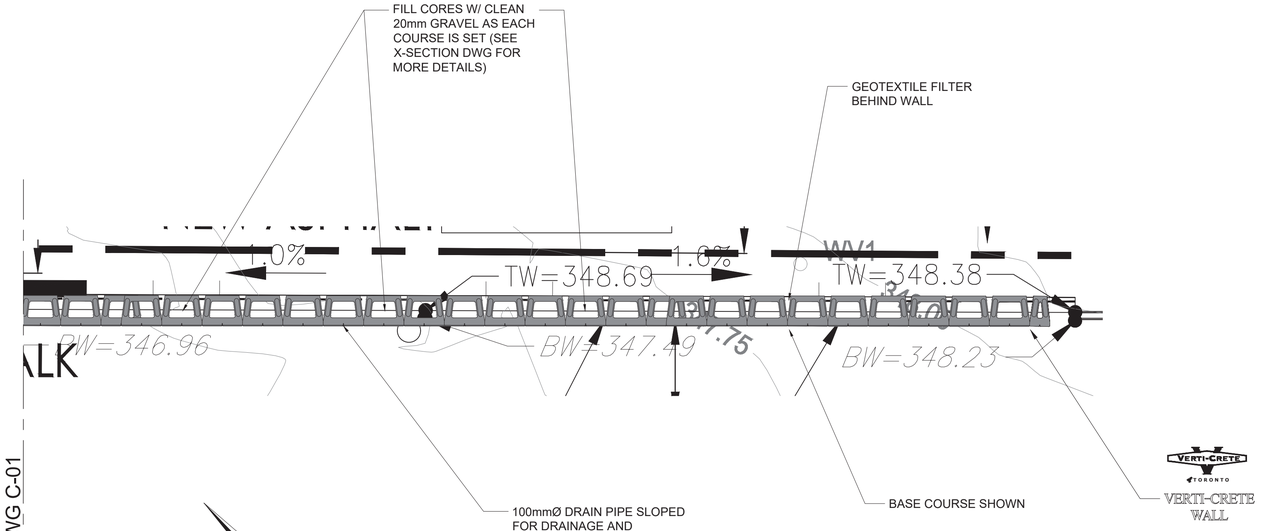
PROJECT TYPE: VERTI-BLOCK

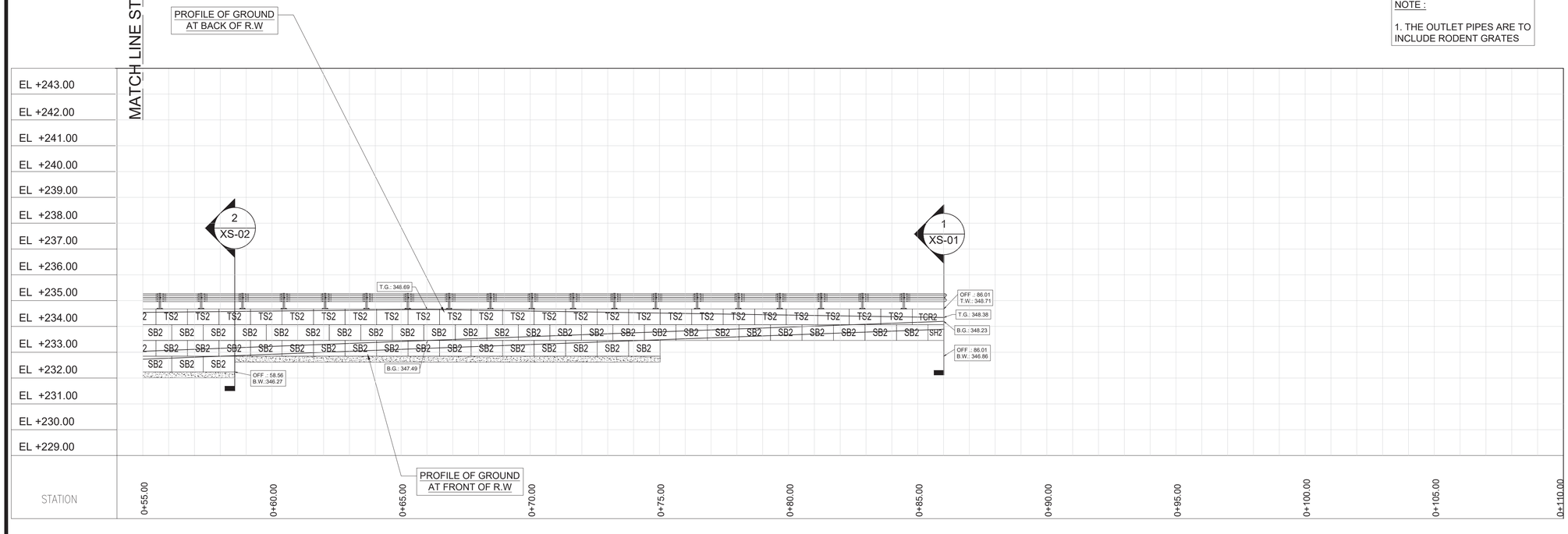
DATE:2024-06-25 SCALE: 1:100

C-01

REV. 0

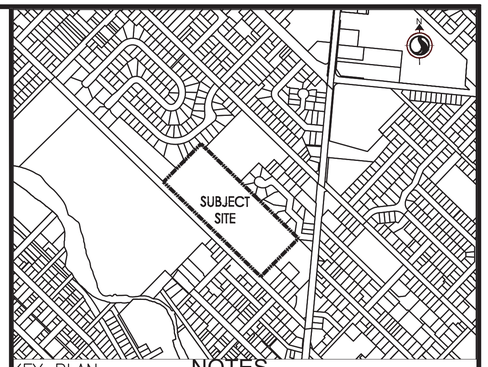
CAD FILE: C:\Users\rcho\Documents\Projects\2023\2023-VC -228 – Guelph General Hospital – RW\2023-VC -228 –Guelph General Hospital – Stamped.dwg





NOTE :

1. THE OUTLET PIPES ARE TO INCLUDE RODENT GRATES



KEY PLAN

NOTES

1. ALL DIMENSIONS ARE IN Mm
2. ALL ELEVATIONS & STATIONS ARE IN M UNLESS OTHERWISE NOTED

DISCLAIMER

1. VERTI-CRETE OF TORONTO IS THE AUTHOR OF THESE DRAWINGS AND RETAIN ALL COMMON LAW, STATUTORY, AND OTHER RESERVED RIGHTS INCLUDING THE COPYRIGHT.
2. LIMITED LICENSE IS GRANTED TO COPY, REPRODUCE, OR MODIFY THE DETAILS TO PREPARE CONSTRUCTION DOCUMENTS VERTI- CRETE FENCES AND RETAINING WALLS.
3. VERTI-CRETE OF TORONTO MAKES NO WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, AND ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY, SUITABILITY, OR COMPLETENESS OF INFORMATION CONTAINED HEREIN.

No.	REVISIONS	DATE	BY	REVIEWED
0	FIRST SUBMISSION	2024-06-25	K.R.	A.D. ENG.

REFERENCE DRAWINGS

TITLE	JOB NO.	Rev. NO.	DATE
GRADING PLAN SP23-012S	140022022	10	2024-06-07

STAMP

LICENSED PROFESSIONAL ENGINEER
#231245
26-JUN-24
T. T.L. CHEUNG
100212242
STRUCTURAL
PROVINCE OF ONTARIO

PROJECT NUMBER ~ SITE ADDRESS

2023-VC -228 -GUELPH GENERAL HOSPITAL

A-D Engineering Group Ltd.
Consulting Engineers
45 Eric T Smith Way - Unit 6, Aurora, Ontario, L4G 3Z8
905-898-3514 Free 1-855-998-3514 Fax 905-898-1998
Email: info@adengineering.ca www.adengineering.ca

VERTI-CRETE of TORONTO
SABSTONE

56 QUEEN ST N, Bolton, Ontario,L7E 5B8
Phone: 905.857.8572
Fax:905.857.0865
www.verticreteto.com

DESIGNED BY:KIRAN RAWAT
PENG APPROVAL:
DATE: 2024-06-25

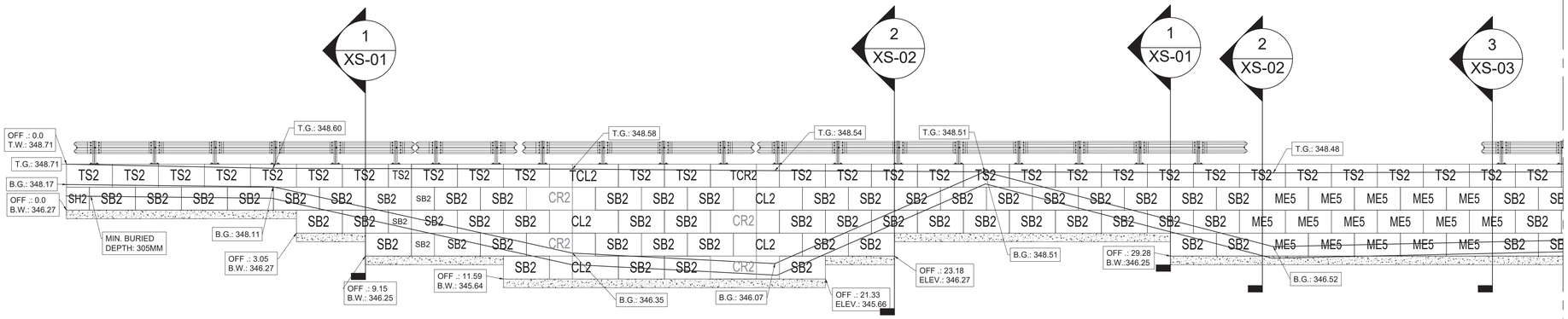
WALL "A" PLAN & PROFILE

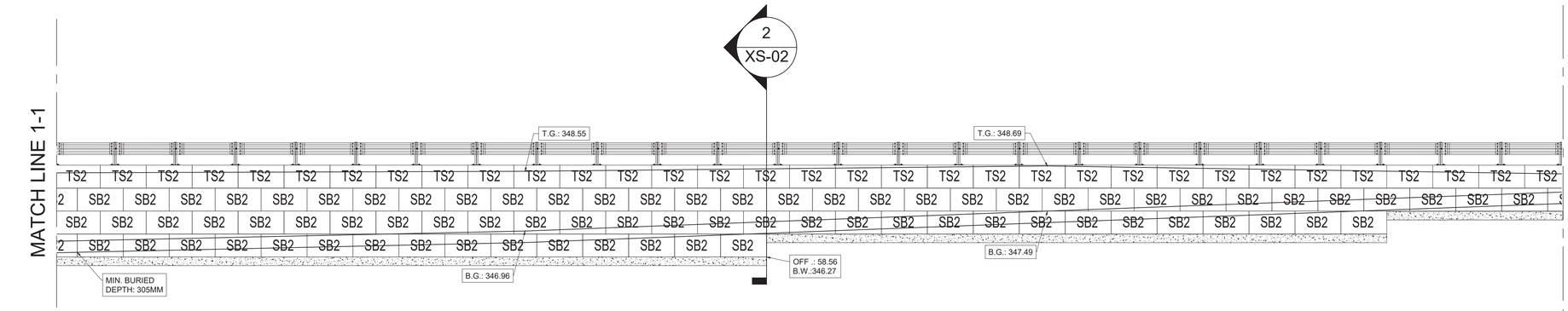
PROJECT TYPE: VERTI-BLOCK
SCALE: 1:100

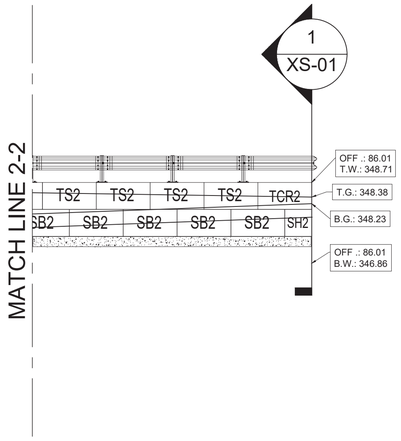
C-02

REV. 0

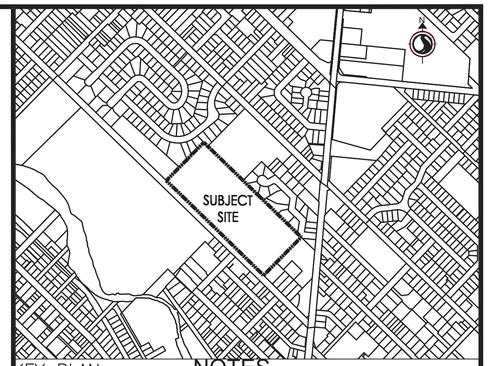
CAD FILE: C:\Users\vicho\Documents\Projects\2023\2023--VC--228 -- Guelph General Hospital -- R\V\2023--VC --228 --Guelph General Hospital --Stamped.dwg







WALL A		
BLOCK DESCRIPTION	**ID**	**QTY**
2' Top Standard	**TS2**	66
2' Top Corner Right	**TCR2**	2
2' Top Corner Left	**TCL2**	1
2' Standard	**SB2**	136
2' Standard Half	**SH2**	1
2' Std. Corner Right	**CR2**	4
2' Std. Corner Left	**CL2**	4
2' x 5' Mass Extender	**ME5**	16
TOTAL BLOCK COUNT		230



KEY PLAN

NOTES

1. ALL DIMENSIONS ARE IN Mm
2. ALL ELEVATIONS & STATIONS ARE IN M UNLESS OTHERWISE NOTED

DISCLAIMER

1. VERTI-CRETE OF TORONTO IS THE AUTHOR OF THESE DRAWINGS AND RETAIN ALL COMMON LAW, STATUTORY, AND OTHER RESERVED RIGHTS INCLUDING THE COPYRIGHT.
2. LIMITED LICENSE IS GRANTED TO COPY, REPRODUCE, OR MODIFY THE DETAILS TO PREPARE CONSTRUCTION DOCUMENTS VERTI- CRETE FENCES AND RETAINING WALLS.
3. VERTI-CRETE OF TORONTO MAKES NO WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, AND ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY, SUITABILITY, OR COMPLETENESS OF INFORMATION CONTAINED HEREIN.

No.	REVISIONS	DATE	BY	REVIEWED
0	FIRST SUBMISSION	2024-06-25	K.R.	A.D. ENG.

REFERENCE DRAWINGS

TITLE	JOB NO.	Rev. NO.	DATE
GRADING PLAN SP23-012S	140022022	10	2024-06-07

STAMP

LICENSED PROFESSIONAL ENGINEER #231245 26-JUN-24 T. T.L. CHEUNG 100212242 STRUCTURAL PROVINCE OF ONTARIO

PROJECT NUMBER ~ SITE ADDRESS

2023-VC -228 -GUELPH GENERAL HOSPITAL

A-D Engineering Group Ltd.
Consulting Engineers
45 Eric T Smith Way - Unit 6, Aurora, Ontario, L4G 3Z8
905-898-3514 Free 1-855-998-3514 Fax 905-898-1998
Email: info@adengineering.ca www.adengineering.ca

VERTI-CRETE of TORONTO
SABSTONE
56 QUEEN ST N, Bolton, Ontario,L7E 5B8
Phone: 905.857.8572
Fax:905.857.0865
www.verticreteto.com

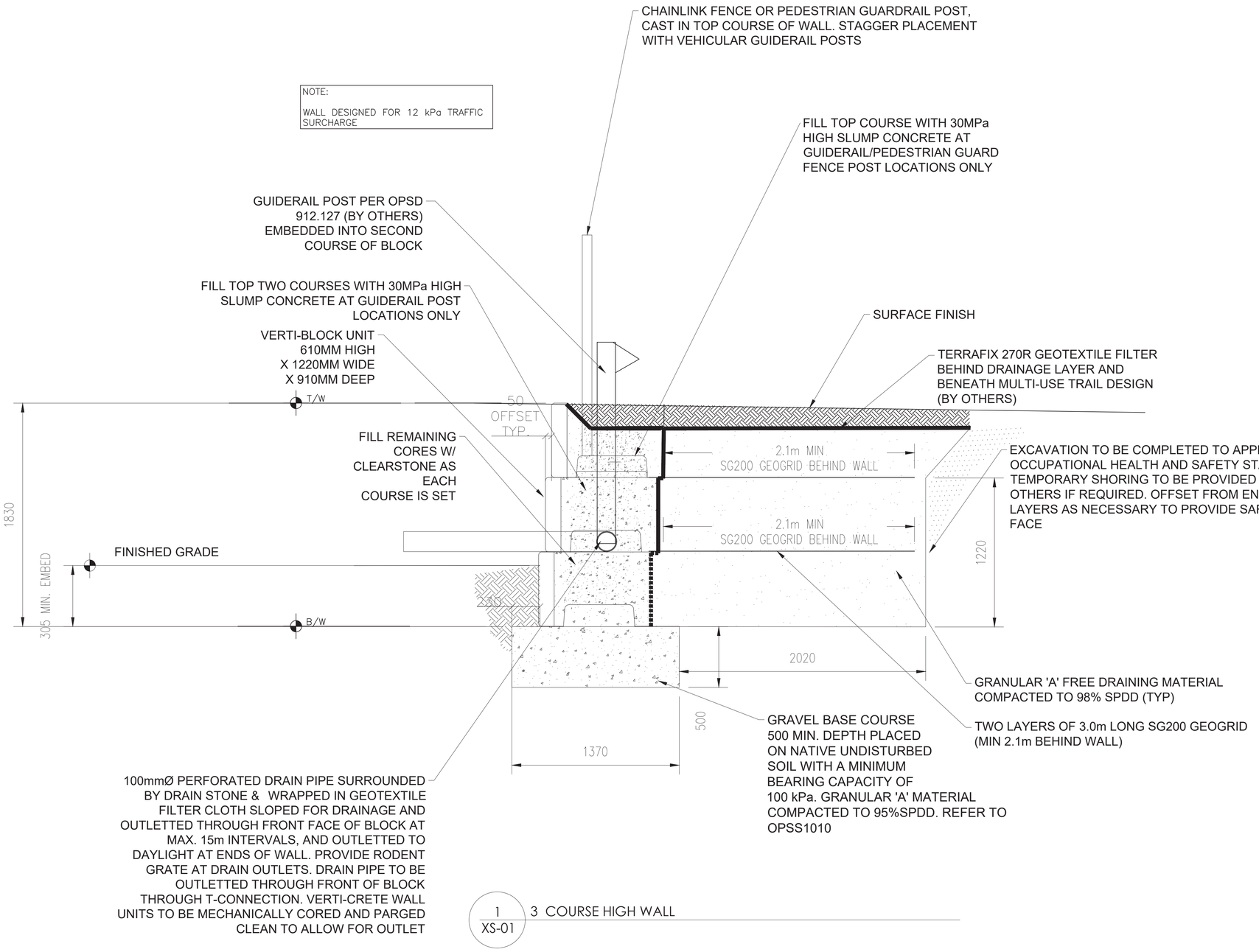
DESIGNED BY:KIRAN RAWAT
PENG APPROVAL:
DATE: 2024-06-25

WALL "A" BLOCKS ARRANGEMENT

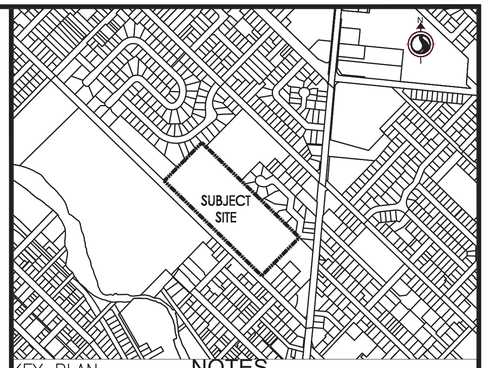
PROJECT TYPE: VERTI-BLOCK
SCALE: 1:75

C-03

REV. 0



1 / XS-01 3 COURSE HIGH WALL



KEY PLAN

NOTES

1. ALL DIMENSIONS ARE IN Mm
2. ALL ELEVATIONS & STATIONS ARE IN M UNLESS OTHERWISE NOTED

DISCLAIMER

1. VERTI-CRETE OF TORONTO IS THE AUTHOR OF THESE DRAWINGS AND RETAIN ALL COMMON LAW, STATUTORY, AND OTHER RESERVED RIGHTS INCLUDING THE COPYRIGHT.
2. LIMITED LICENSE IS GRANTED TO COPY, REPRODUCE, OR MODIFY THE DETAILS TO PREPARE CONSTRUCTION DOCUMENTS VERTI- CRETE FENCES AND RETAINING WALLS.
3. VERTI-CRETE OF TORONTO MAKES NO WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, AND ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY, SUITABILITY, OR COMPLETENESS OF INFORMATION CONTAINED HEREIN.

No.	REVISIONS	DATE	BY	REVIEWED
0	FIRST SUBMISSION	2024-06-25	K.R.	A.D. ENG.

REFERENCE DRAWINGS

TITLE	JOB NO.	Rev. NO.	DATE
GRADING PLAN SP23-012S	140022022	10	2024-06-07

STAMP

LICENSED PROFESSIONAL ENGINEER #231245 26-JUN-24 T. T.L. CHEUNG 100212242 STRUCTURAL PROVINCE OF ONTARIO

PROJECT NUMBER ~ SITE ADDRESS

2023-VC -228 -GUELPH GENERAL HOSPITAL

A-D Engineering Group Ltd.
Consulting Engineers
45 Eric T Smith Way - Unit 6, Aurora, Ontario, L4G 3Z8
905-898-3514 Free 1-855-998-3514 Fax 905-898-1998
Email: info@adengineering.ca www.adengineering.ca

VERTI-CRETE of TORONTO
SABSTONE
56 QUEEN ST N, Bolton, Ontario,L7E 5B8
Phone: 905.857.8572
Fax:905.857.0865
www.verticreteto.com

DESIGNED BY:KIRAN RAWAT
PENG APPROVAL:
DATE:2024-06-25

WALL X-SECTIONS

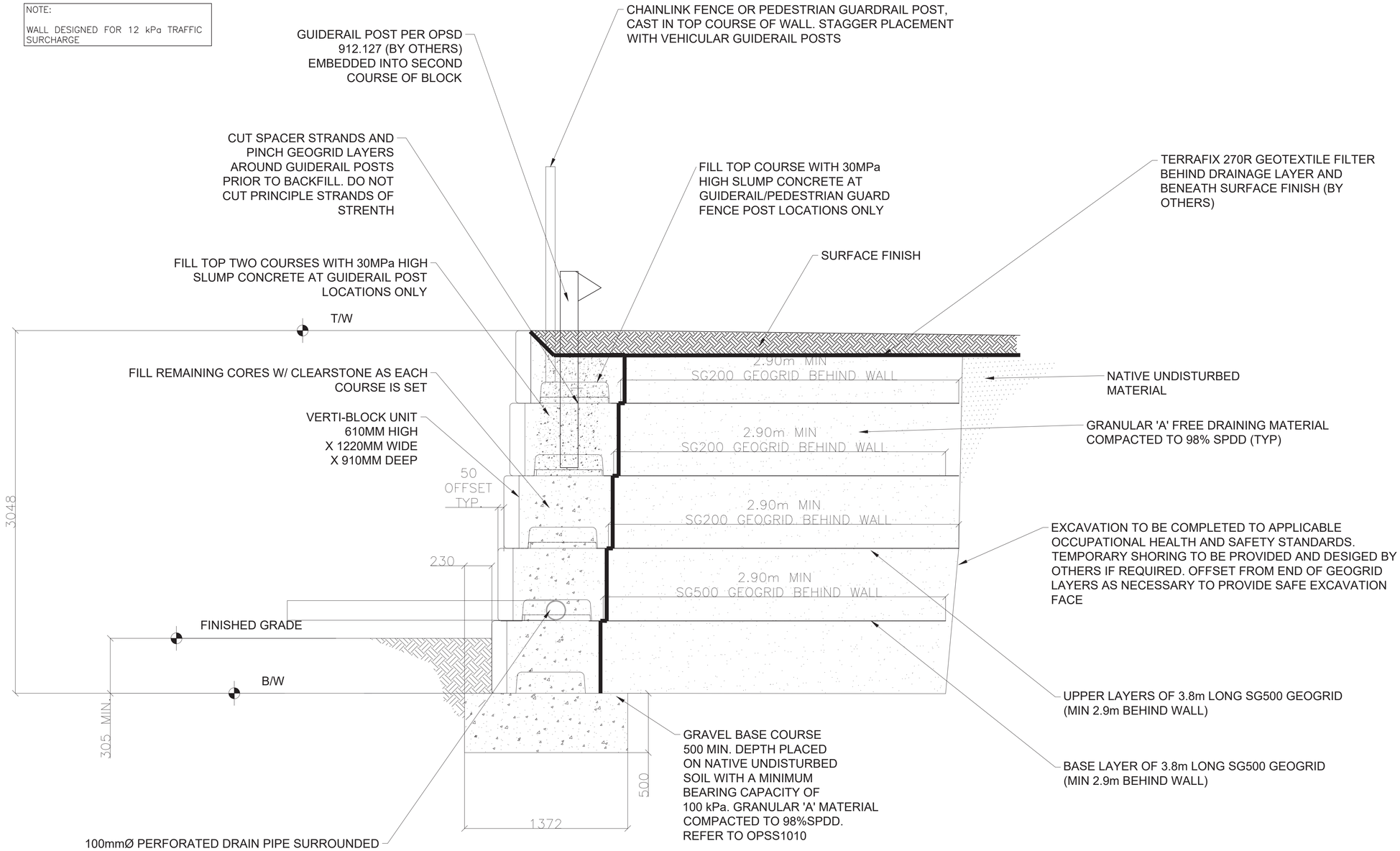
PROJECT TYPE: VERTI-BLOCK
SCALE: N.T.S.

XS-01

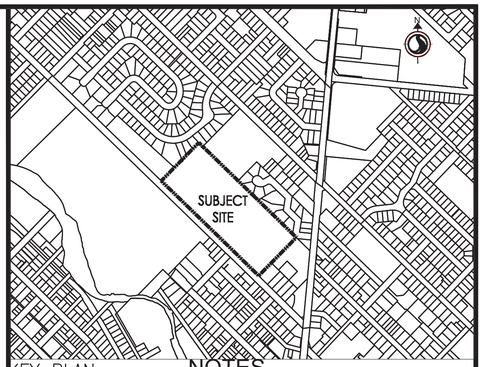
REV. 0

NOTE:

WALL DESIGNED FOR 12 kPa TRAFFIC SURCHARGE



2 / XS-02 REINFORCED WALL, 4 TO 5 COURSES HIGH



KEY PLAN

NOTES

1. ALL DIMENSIONS ARE IN Mm
2. ALL ELEVATIONS & STATIONS ARE IN M UNLESS OTHERWISE NOTED

DISCLAIMER

1. VERTI-CRETE OF TORONTO IS THE AUTHOR OF THESE DRAWINGS AND RETAIN ALL COMMON LAW, STATUTORY, AND OTHER RESERVED RIGHTS INCLUDING THE COPYRIGHT.
2. LIMITED LICENSE IS GRANTED TO COPY, REPRODUCE, OR MODIFY THE DETAILS TO PREPARE CONSTRUCTION DOCUMENTS VERTI- CRETE FENCES AND RETAINING WALLS.
3. VERTI-CRETE OF TORONTO MAKES NO WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, AND ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY, SUITABILITY, OR COMPLETENESS OF INFORMATION CONTAINED HEREIN.

No.	REVISIONS	DATE	BY	REVIEWED
0	FIRST SUBMISSION	2024-06-25	K.R.	A.D. ENG.

REFERENCE DRAWINGS

TITLE	JOB NO.	Rev. NO.	DATE
GRADING PLAN SP23-012S	140022022	10	2024-06-07

STAMP

LICENSED PROFESSIONAL ENGINEER #231245 26-JUN-24 T. T.L. CHEUNG 100212242 STRUCTURAL PROVINCE OF ONTARIO

PROJECT NUMBER ~ SITE ADDRESS

2023-VC -228 -GUELPH GENERAL HOSPITAL

A-D Engineering Group Ltd.
Consulting Engineers
45 Eric T Smith Way - Unit 6, Aurora, Ontario, L4G 3Z8
905-898-3514 Free 1-855-998-3514 Fax 905-898-1998
Email: info@adengineering.ca www.adengineering.ca

VERTI-CRETE of TORONTO
SABSTONE

56 QUEEN ST N, Bolton, Ontario,L7E 5B8
Phone: 905.857.8572
Fax:905.857.0865
www.verticreteto.com

DESIGNED BY:KIRAN RAWAT
PENG APPROVAL:

WALL X-SECTIONS

PROJECT TYPE: VERTI-BLOCK

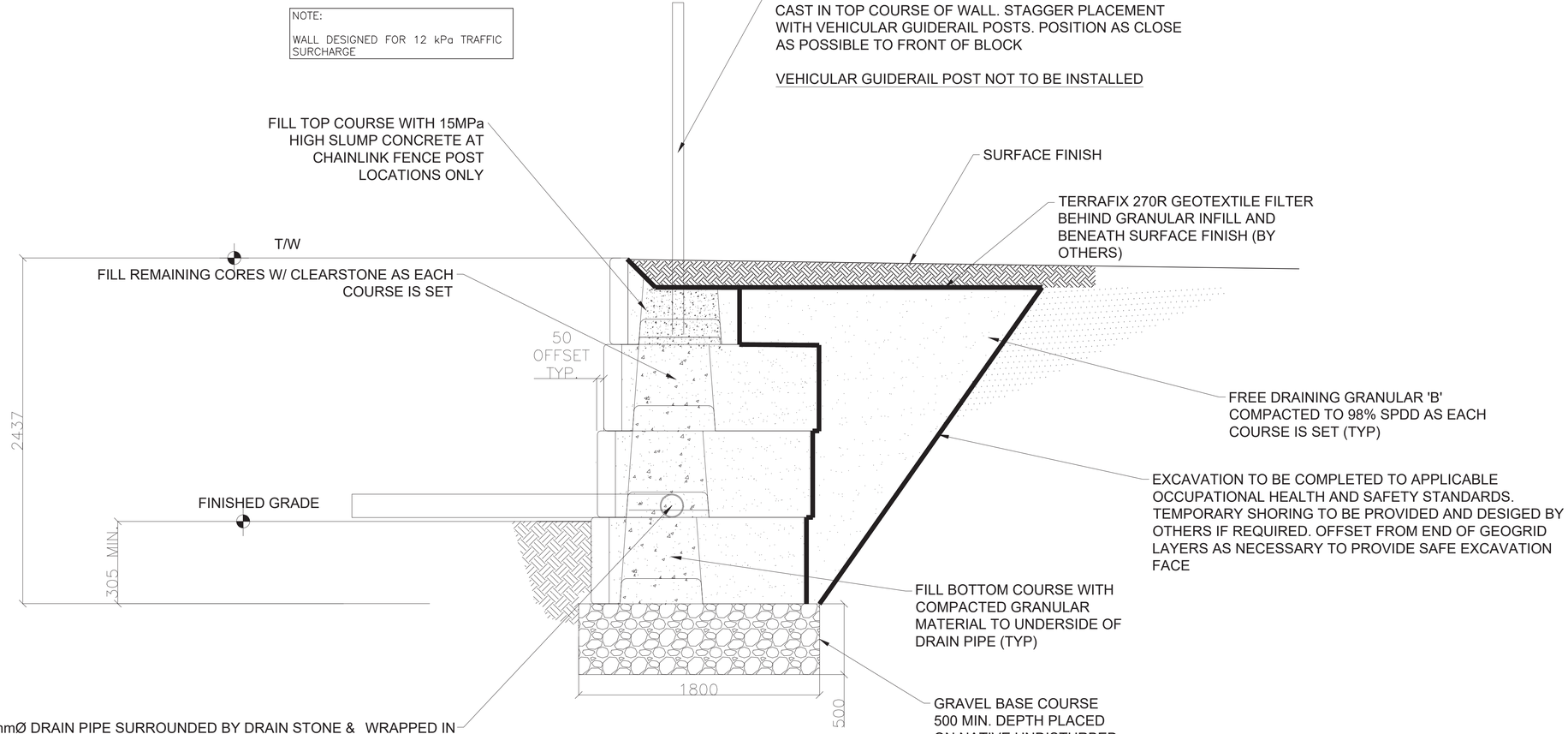
XS-02

REV. 0

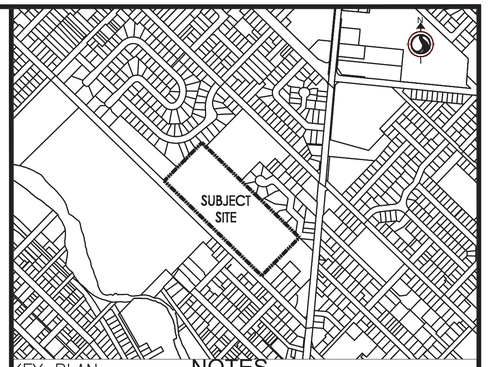
DATE: 2024-06-25

SCALE: N.T.S.

CAD FILE: C:\Users\vincho\Documents\Projects\2023\2023-VC-228 - Guelph General Hospital - RW\2023-VC -228 -Guelph General Hospital -Stamped.dwg



3 / XS-03 — 4 COURSE HIGH WALL AT "STORMCEPTER"



KEY PLAN

NOTES

1. ALL DIMENSIONS ARE IN Mm
2. ALL ELEVATIONS & STATIONS ARE IN M UNLESS OTHERWISE NOTED

DISCLAIMER

1. VERTI-CRETE OF TORONTO IS THE AUTHOR OF THESE DRAWINGS AND RETAIN ALL COMMON LAW, STATUTORY, AND OTHER RESERVED RIGHTS INCLUDING THE COPYRIGHT.
2. LIMITED LICENSE IS GRANTED TO COPY, REPRODUCE, OR MODIFY THE DETAILS TO PREPARE CONSTRUCTION DOCUMENTS VERTI- CRETE FENCES AND RETAINING WALLS.
3. VERTI-CRETE OF TORONTO MAKES NO WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, AND ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY, SUITABILITY, OR COMPLETENESS OF INFORMATION CONTAINED HEREIN.

No.	REVISIONS	DATE	BY	REVIEWED
0	FIRST SUBMISSION	2024-06-25	K.R.	A.D. ENG.

REFERENCE DRAWINGS

TITLE	JOB NO.	Rev. NO.	DATE
GRADING PLAN SP23-012S	140022022	10	2024-06-07

STAMP

LICENSED PROFESSIONAL ENGINEER #231245 26-JUN-24 T. T.L. CHEUNG 100212242 STRUCTURAL PROVINCE OF ONTARIO

PROJECT NUMBER ~ SITE ADDRESS

2023-VC -228 -GUELPH GENERAL HOSPITAL

A-D Engineering Group Ltd.
Consulting Engineers
45 Eric T Smith Way - Unit 6, Aurora, Ontario, L4G 3Z8
905-898-3514 Free 1-855-998-3514 Fax 905-898-1998
Email: info@adengineering.ca www.adengineering.ca

VERTI-CRETE of TORONTO
SABSTONE

56 QUEEN ST N, Bolton, Ontario,L7E 5B8
Phone: 905.857.8572
Fax:905.857.0865
www.verticreteto.com

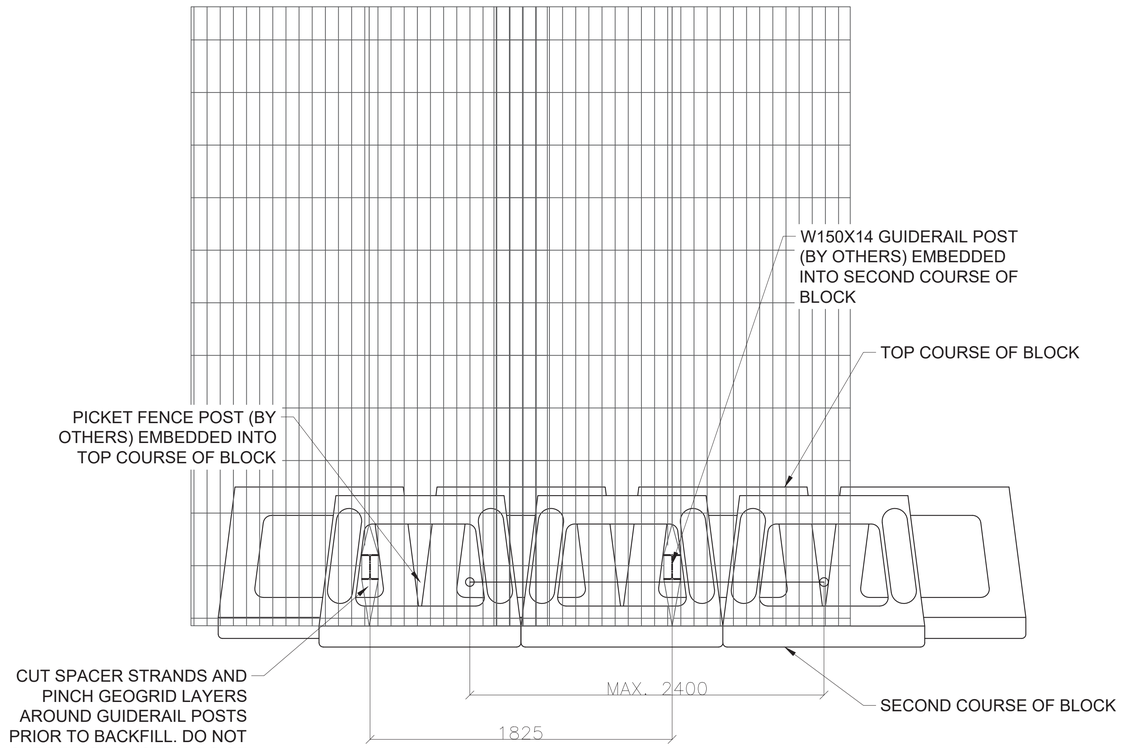
DESIGNED BY:KIRAN RAWAT
PENG APPROVAL:
DATE: 2024-06-25

WALL X-SECTIONS

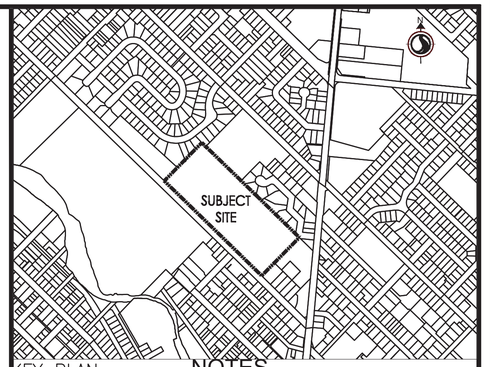
PROJECT TYPE: VERTI-BLOCK
SCALE: N.T.S.

XS-03

REV. 0



VERTI-BLOCK PLAN DETAIL



KEY PLAN

NOTES

1. ALL DIMENSIONS ARE IN Mm
2. ALL ELEVATIONS & STATIONS ARE IN M UNLESS OTHERWISE NOTED

DISCLAIMER

1. VERTI-CRETE OF TORONTO IS THE AUTHOR OF THESE DRAWINGS AND RETAIN ALL COMMON LAW, STATUTORY, AND OTHER RESERVED RIGHTS INCLUDING THE COPYRIGHT.
2. LIMITED LICENSE IS GRANTED TO COPY, REPRODUCE, OR MODIFY THE DETAILS TO PREPARE CONSTRUCTION DOCUMENTS VERTI- CRETE FENCES AND RETAINING WALLS.
3. VERTI-CRETE OF TORONTO MAKES NO WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, AND ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY, SUITABILITY, OR COMPLETENESS OF INFORMATION CONTAINED HEREIN.

No.	REVISIONS	DATE	BY	REVIEWED
0	FIRST SUBMISSION	2024-06-25	K.R.	A.D. ENG.

REFERENCE DRAWINGS

TITLE	JOB NO.	Rev. NO.	DATE
GRADING PLAN SP23-012S	140022022	10	2024-06-07

STAMP

LICENSED PROFESSIONAL ENGINEER
#231245
26-JUN-24
T. T.L. CHEUNG
100212242
STRUCTURAL
PROVINCE OF ONTARIO

PROJECT NUMBER ~ SITE ADDRESS

2023-VC -228 -GUELPH GENERAL HOSPITAL

A-D Engineering Group Ltd.
Consulting Engineers
45 Eric T Smith Way - Unit 6, Aurora, Ontario, L4G 3Z8
905-898-3514 Free 1-855-998-3514 Fax 905-898-1998
Email: info@adengineering.ca www.adengineering.ca

VERTI-CRETE of TORONTO
SABSTONE

56 QUEEN ST N, Bolton, Ontario,L7E 5B8
Phone: 905.857.8572
Fax:905.857.0865
www.verticreteto.com

DESIGNED BY:KIRAN RAWAT
PENG APPROVAL:

WALL X-SECTIONS

PROJECT TYPE: VERTI-BLOCK

XS-04

REV. 0

DATE: 2024-06-25
SCALE: N.T.S.

CAD FILE: C:\Users\Vricho\Documents\Projects\2023\2023-VC-228 - Guelph General Hospital - RW\2023-VC -228 -Guelph General Hospital - Stamped.dwg

VERTI–BLOCK RETAINING WALL SYSTEMS

1. RETAINING WALL TO BE USED AGAINST ENGINEERED FILL MATERIAL IN ACCORDANCE TO PROJECT DOCUMENTS.

2. EXCAVATIONS IN ACCORDANCE WITH APPLICABLE OCCUPATIONAL HEALTH AND SAFETY ACT REGULATIONS.

3. RETAINING WALLS TO BE VERTI–BLOCK SYSTEM (COLOUR NATURAL GREY) WITH APPROXIMATE DIMENSIONS OF STANDARD VERTI–BLOCK UNIT:
   LENGTH = 1220mm
   WIDTH = 915mm
   HEIGHT = 610mm

4. WALL SYSTEMS TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATION.

5. FIRST COURSE OF BLOCKS TO BE FOUNDED ON MINIMUM 500mm OF GRANULAR "A" BASE MATERIAL COMPACTED TO 98% SPDD OVER UNDISTURBED NATIVE SOIL OR AS NOTED ON DRAWINGS.

6. WHERE REQUIRED, BACKFILL MATERIAL IS TO BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING 200mm IN THICKNESS. REQUIRED COMPACTION: 98% OF THE STANDARD PROCTOR DENSITY OF THE MATERIAL.

7. THE FOUNDATIONS HAVE BEEN DESIGNED FOR A REQUIRED SLS BEARING CAPACITY OF 100 kPa (2000 psf) TO BE CONFIRMED BY GEOTECHNICAL ENGINEER. FOUND ALL FOUNDATIONS ON NATURAL UNDISTURBED INORGANIC SOIL.

8. A SOILS CONSULTANT SHALL APPROVE ON SITE THE ASSIGNED SAFE NET BEARING PRESSURE FOR EACH FOOTING. IF THE SAFE NET BEARING PRESSURE USED FOR DESIGN IS NOT APPROVED, ENGINEER TO BE NOTIFIED FOR REVISION OF RETAINING WALL DESIGN.

9. ASSUMED SOIL PROPERTIES (TO BE CONFIRMED AND APPROVED BY SOILS CONSULTANT):

   INTERNAL FRICTION ANGLE = 30°
   UNIT WEIGHT OF SOIL (DRAINED) = 20kN/m (128pcf)
   ACTIVE PRESSURE COEFFICIENT (Ka) = 0.28 (LEVEL BACKSLOPE)

10. DESIGN SURCHARGE = 12 kPa (UNLESS NOTED OTHERWISE)

11. GEOGRID SHALL BE STRATAGRID SG200 OR HIGHER FOR RETAINING WALL, UNLESS NOTED OTHERWISE ON DRAWINGS. GRID SHOULD BE EMEDDED FULLY TO FRONT FACE OF BLOCK. SLOPE REINFORCEMENT BY OTHERS.

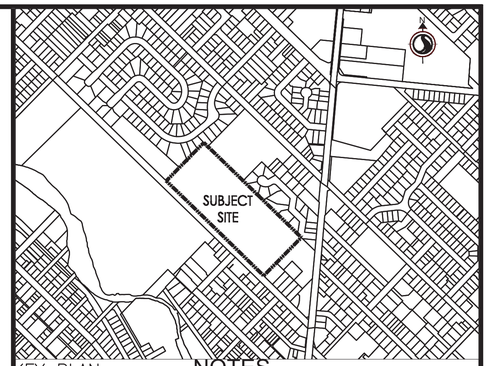
12. CONTRACTOR IS RESPONSIBLE FOR RETAINING WALL LAYOUT.

13. RETAINING WALLS HAVE DESIGNED IN ACCORDANCE w/ LATEST EDITION OF ONTARIO BUILDING CODE, ONTARIO REG. 332/12 AND THE DESIGN MANUAL FOR SEGMENTAL RETAINING WALLS, 3rd EDITION BY THE NATIONAL CONCRETE MASONRY ASSOCIATION.

14. RETAINING WALLS HAVE BEEN DESIGNED TO BE ADEQUATE FOR EXTERNAL AND INTERNAL STABILITY. WITH CONSIDERATION TO DRAINED SOIL CONDITION, LIVE LOAD SURCHARGE = 12 kPA .

    GLOBAL STABILITY IS OUTSIDE THE AREA OF EXPERTISE FOR A–D ENGINEERING GROUP LTD. AND SHALL BE CHECKED BY A LICENSED GEOTECHNICAL ENGINEER.

15. REFER TO OPSD 3121.150 "WALLS RETAINING, BACKFILL MINIMUM GRANULAR REQUIREMENTS" FOR BACKFILL REQUIREMENTS.



KEY PLAN

NOTES

1. ALL DIMENSIONS ARE IN Mm
2. ALL ELEVATIONS & STATIONS ARE IN M UNLESS OTHERWISE NOTED

DISCLAIMER

No.	REVISIONS	DATE	BY	REVIEWED
0	FIRST SUBMISSION	2024-06-25	K.R.	A.D. ENG.

REFERENCE DRAWINGS

TITLE	JOB NO.	Rev. NO.	DATE
GRADING PLAN SP23-012S	140022022	10	2024-06-07

STAMP

LICENSED PROFESSIONAL ENGINEER
#231245
26-JUN-24
T. T.L. CHEUNG
100212242
STRUCTURAL
PROVINCE OF ONTARIO

PROJECT NUMBER ~ SITE ADDRESS

2023-VC -228 -GUELPH GENERAL HOSPITAL

A-D Engineering Group Ltd.
Consulting Engineers
45 Eric T Smith Way - Unit 6, Aurora, Ontario, L4G 3Z8
905-898-3514 Free 1-855-998-3514 Fax 905-898-1998
Email: info@adengineering.ca www.adengineering.ca

VERTI-CRETE of TORONTO
SABSTONE
56 QUEEN ST N, Bolton, Ontario,L7E 5B8
Phone: 905.857.8572
Fax:905.857.0865
www.verticreteto.com

DESIGNED BY:KIRAN RAWAT
PENG APPROVAL:

WALL X-SECTIONS

PROJECT TYPE: VERTI-BLOCK

XS-05

REV. 0

DATE:2024-06-25

SCALE: N.T.S.

PROPER ORIENTATION OF GEOGRID AND PLACEMENT

- **CUT GEOSYNTHETIC REINFORCEMENT TO DESIGN LENGTH (L) AS SHOWN ON THE PLANS AND INSTALL WITH DESIGN STRENGTH DIRECTION PERPENDICULAR TO THE WALL FACE. BRING GEOSYNTHETIC TO THE FRONT OF THE BLOCK AND SECURE FOLLOWING MANUFACTURER'S DETAILS WITH THE UPPER BLOCK. TYPICALLY THE GEOGRID SHOULD EXTEND TO NO LESS THAN 1 in. (203 mm) FROM THE FACE OF THE WALL.**

- **FOR STRAIGHT WALLS, PLACEMENT OF ADJACENT SHEETS OF REINFORCEMENT SHOULD BE SIDE-BY-SIDE WITHOUT ANY OVERLAP.**

- **FOR WALLS WITH CORNERS OR CURVES AS SHOWN BELOW, THE FOLLOWING ARE RECOMMENED PRACTICES FOR GEOGRID PLACEMENT:**

  - FOR OUTSIDE CORNERS, TO AVOID OVERLAPPING GEOGRID LAYERS, GEOGRIDS SHOULD BE STAGGERED BY ONE COURSE ON EITHER SIDE OF THE CORNER, WEAVING THE STRONG DIRECTION FROM BOTTOM TO TOP OF WALL.

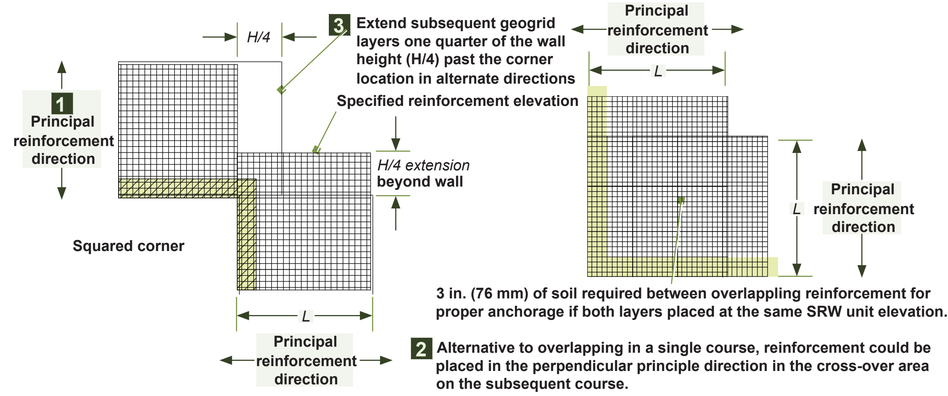
  - FOR INSIDE CORNERS, EXTEND THE GEOGRID LAYER INTO THE CORNER FROM ONE SODE A DISTANCE EQUAL TO 25% OF THE TOTAL WALL HEIGHT. ALTERNATE EXTENDED GEOGRID LAYER FROM SIDE TO SIDE PER COURSE TO CREATE A GEOGRID WEAVE AS THE WALL IS BUILT.

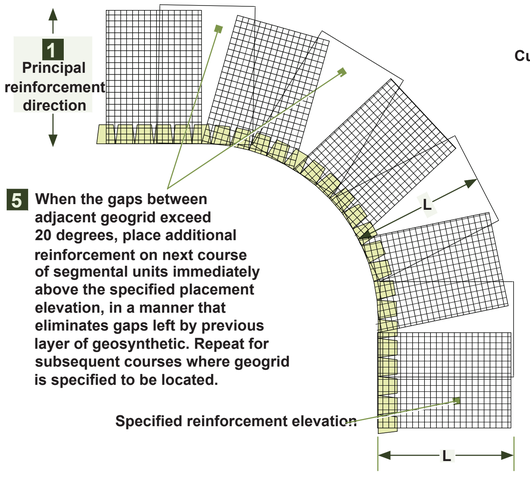
  - FOR OUTSIDE CURVES, WHERE GEOGRID TAILS OVERLAP NATURALLY, PLACE ROUGHLY 3 in (75 mm) OF GRAVEL FILL OR REINFORCED SOIL BETWEEN THE OVERLAPPING LAYERS.

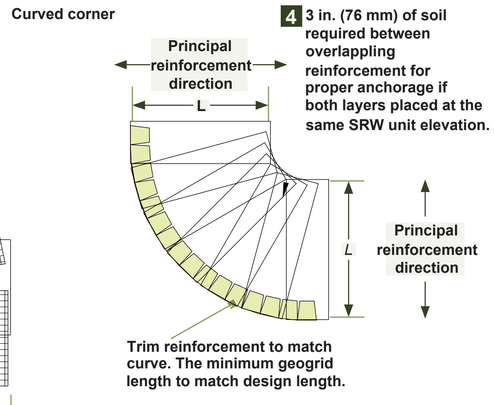
  - FOR INSIDE CURVES, WHERE GEOGRID LAYERS FAN APART AND THE GAP ANGLE EXCEEDS 20 DEGREES, PLACE A SECONDARY, EQUAL LENGTH, LAYER OF GEOGRID ON THE NEXT COURSE ABOVE THE FANNED GAP.

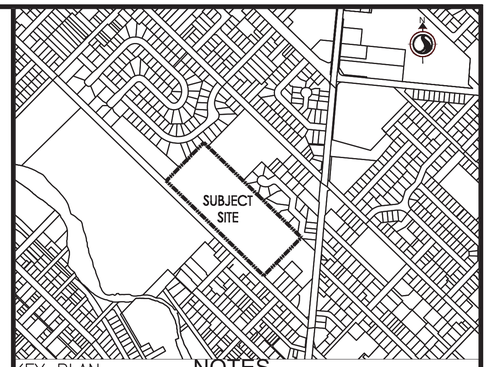
Notes: Alternate placement of reinforcement extension on specified reinforcement elevations.

L: Geosynthetic reinforcement design length
H: Total finished wall height









KEY PLAN

NOTES

1. ALL DIMENSIONS ARE IN Mm
2. ALL ELEVATIONS & STATIONS ARE IN M UNLESS OTHERWISE NOTED

DISCLAIMER

No.	REVISIONS	DATE	BY	REVIEWED
0	FIRST SUBMISSION	2024-06-25	K.R.	A.D. ENG.

REFERENCE DRAWINGS

TITLE	JOB NO.	Rev. NO.	DATE
GRADING PLAN SP23-012S	140022022	10	2024-06-07

STAMP

LICENSED PROFESSIONAL ENGINEER
#231245
26-JUN-24
T. T.L. CHEUNG
100212242
STRUCTURAL
PROVINCE OF ONTARIO

PROJECT NUMBER ~ SITE ADDRESS

2023-VC -228 -GUELPH GENERAL HOSPITAL

A-D Engineering Group Ltd.
Consulting Engineers
45 Eric T Smith Way - Unit 6, Aurora, Ontario, L4G 3Z8
905-898-3514 Free 1-855-998-3514 Fax 905-898-1998
Email: info@adengineering.ca www.adengineering.ca

VERTI-CRETE of TORONTO
SABSTONE

56 QUEEN ST N, Bolton, Ontario,L7E 5B8
Phone: 905.857.8572
Fax:905.857.0865
www.verticreteto.com

DESIGNED BY:KIRAN RAWAT
PENG APPROVAL:

GEO-GRID INSTALLATION

PROJECT TYPE: VERTI-BLOCK

XS-06

REV. 0

DATE: 2024-06-25

SCALE: N.T.S.

Plus: Re-issued Drawings M102, M301, M601, M905, M910, E201, E302, E404 & E603

ADDENDUM NO. 3

Make the following amendments and additions to the Drawings and Specifications, and include this cost in the Contract Price.

1. **MECHANICAL DRAWINGS**

    1. **Drawing M102 – Mechanical Schedules**

        1. Revise Pressure Reducing Valve Schedule and Heat Exchanger Schedule as shown on attached re-issued drawing M102.

    2. **Drawing M301 – Phase 1 – Part Level 1 Floor Plan – Fire Protection**

        1. REFER to reissued drawing, attached.

    3. **Drawing M601 – Phase 1 – Part Level 1 Floor Plan – Air Distribution**

        1. REFER to reissued drawing, attached.

    4. **Drawing M905 – Phase 1 – Part Level 1 Floor Plan – Fire Protection Demolition**

        1. REFER to reissued drawing, attached.

    5. **Drawing M910 – Phase 1 – Part Level 1 Floor Plan – Air Distribution Demolition**

        1. REFER to reissued drawing, attached.

2. **ELECTRICAL SPECIFICATIONS**

    1. **Section 26 05 00 – Common Work Results for Electrical**

        1. 3.24.1 – REVISE the price to $366,910.46.

        2. 3.25.1 – REVISE the price to $75,517.50.

    2. **Section 27 10 00 – Structured Cabling**

        1. REVISE 1.2 to read: “Preapproved Manufacturers”

        2. In 1.2.1, ADD Leviton as a Preapproved Manufacturer.

3. **ELECTRICAL DRAWINGS**

1. **Drawing E102 – Electrical Schedules**

1. Luminaire Schedule – ADD “PACO” to equal manufactures for fixture types A6, B6, and E6

2. Luminaire Schedule – ADD “Waldmann” to equal manufactures for fixture type M1

3. Luminaire Schedule – ADD “PAL” to equal manufactures for fixture types R5, R6, R8, R8A, and R12

4. Luminaire Schedule – ADD “Health Care Lighting” to equal manufactures for fixture type S1

5. Luminaire Schedule – ADD “Lithonia” to equal manufactures for fixture types S3, S4, and S5

6. Luminaire Schedule – ADD “Liteline” to equal manufactures for fixture types A1, A2, and B1

7. Luminaire Schedule – ADD “Certolux” to equal manufactures for fixture types A6, B6, and E6.

8. Luminaire Schedule – ADD “Lightolier” to equal manufactures for fixture types E1, E2, and G1.

9. Luminaire Schedule – ADD “CFI” to equal manufactures for fixture type K1.

10. Luminaire Schedule – ADD “Gardco” to equal manufactures for fixture types X2A, X2B, XFA, XFB, W1, W2, W3, W4, WFA, and WFB.

11. Luminanire Schedule – ADD note “Provide light support per the manufacturers requirements/instruction” to fixture type M1.

2. **Drawing E201 – Phase 1 – Part Level 1 Floor Plan – Lighting and Fire Alarm**

1. REFER to reissued drawing, attached.

3. **Drawing E301 – Phase 1 – Part Level 1 Floor Plan – Power**

1. DELETE new receptacle in new under stair storage. New storage room deleted from scope.

4. **Drawing E302 – Phase 1 – Part Level 3 Floor Plan – Power**

1. REFER to reissued drawing, attached.

5. **Drawing E304 – Phase 1 - Level 3 Floor Plan – Systems**

1. At Door 3153 leading outside from Waiting Room 3153, provide the following door access controls devices: C, R, T, and S.

6. **Drawing E404 – Phase 1 - Level 1 Mechanical Room Details**

    1. REFER to reissued drawing, attached.

7. **Drawing E601 – Part Distribution Riser Level 1**

    1. ADD Note 2 as follows: “Allow for reworking existing circuits into new Panels LP-1W-ED and LP-1W-D. Refer to panel schedules for quantity of existing circuits to rework into new panels (to replace existing).”

8. **Drawing E603 – Electrical Details**

    1. REFER to reissued drawing, attached.

END OF ADDENDUM NO. 3

AIR HANDLING UNITS - SUPPLY FANS (PRETENDERED)*

DRAWING REFERENCE	SERVICE	MANUFACTURER	TOTAL AIR QUANTITY (L/S)	SUPPLY FAN																		MIN. TOTAL UNIT OUTSIDE AIR (L/S)
				DRAWING REFERENCE	FAN MANUFACTURER	NUMBER OF FANS	FAN MODEL	AIR QUANTITY PER FAN (L/S)	ESP (Pa)	TSP (Pa)	FAN RPM	ELECTRICAL			FAN OUTLET SOUND POWER LEVELS (dB)							
												BRAKE HP	MOTOR HP	V/Ph/Hz	1	2	3	4	5	6	7	8	
AHU-103A	L1	HAAKON	6140	SF-103A1/A2	HAAKON	2	18TCEPFN	3070	375	1250	2582	7.5	2 @ 15	575/3/60	86	86	98	97	92	89	85	78	3305
AHU-103B	L1	HAAKON	6140	SF-103B1/B2	HAAKON	2	18TCEPFN	3070	375	1250	2582	7.5	2 @ 15	575/3/60	86	86	98	97	92	89	85	78	3305
AHU-124A	L3 ADDITION	HAAKON	4720	SF-124A1/A2	HAAKON	2	18TCEPQN	2360	375	950	2101	4.4	2 @ 5	575/3/60	86	83	89	91	86	83	78	70	1375
AHU-124B	L3 ADDITION	HAAKON	4720	SF-124B1/B2	HAAKON	2	18TCEPQN	2360	375	950	2101	4.4	2 @ 5	575/3/60	86	83	89	91	86	83	78	70	1375

AHU-124A/B AIR QUANTITIES SHOWN ARE FUTURE AIR QUANTITIES. CURRENT AIR QUANTITIES ARE: 3325 L/S TOTAL S.A., 2150 L/S O.A., 1175 L/S R.A., 2385 L/S E.A. (THROUGH ERV) *UNIT SUPPLY IN CONTRACT. REFER TO SPECIFICATION 21 05 01.

AIR HANDLING UNITS - RETURN FANS (PRETENDERED)

DRAWING REFERENCE	FAN MANUFACTURER	TOTAL AIR QUANTITY (L/S)	NUMBER OF FANS	FAN MODEL	AIR QUANTITY PER FAN (L/S)	ESP (Pa)	TSP (Pa)	FAN RPM	ELECTRICAL			INLET SOUND POWER LEVELS (dB)								REMARKS
									BRAKE HP	MOTOR HP	V/Ph/Hz	1	2	3	4	5	6	7	8	
RETURN/EXHAUST FAN																				
RF-203A - EXTERNAL TO UNIT - NOT INCLUDED IN PRETENDER. REFER TO FAN SCHEDULE BELOW																				VFD'S BY DIV 26, DESIGN FREQUENCY = 45 Hz
RF-203B - EXTERNAL TO UNIT - NOT INCLUDED IN PRETENDER. REFER TO FAN SCHEDULE BELOW																				VFD'S BY DIV 26, DESIGN FREQUENCY = 45 Hz
RF-224A1/A2	HAAKON	4720	2	18TCEPFN	2360	375	500	1800	2.5	2 @ 3	575/3/60	78	84	92	84	78	76	71	63	VFD'S BY DIV 26, SUPPLY FAN DESIGN FREQUENCY = 72 Hz, RETURN FAN = 61 Hz
RF-224B1/B2	HAAKON	4720	2	18TCEPFN	2360	375	500	1800	2.5	2 @ 3	575/3/60	78	84	92	84	78	76	71	63	VFD'S BY DIV 26, SUPPLY FAN DESIGN FREQUENCY = 72 Hz, RETURN FAN = 61 Hz

AIR HANDLING UNIT - CHILLED WATER COILS (PRETENDERED)

DRAWING REFERENCE	SERVICE	MANUFACTURER	CHILLED WATER COOLING COIL											REMARKS
			COIL MANUFACTURER	NUMBER OF COILS	MODEL NUMBER	ROWS/ FPI	FLUID - CHILLED WATER				AIR			
							FLOW PER COIL (L/S)	PRESSURE DROP (kPa)	EWT (°C)	LWT (°C)	FLOW PER COIL (L/S)	FACE VELOCITY (FPM)	PRESSURE DROP (Pa)	EAT DB/WB (°C)	LAT DB/WB (°C)	
AHU-103A	L1	HAAKON	HAAKON	1	5WM1006B	6/10	9.14	46	5.5	11.9	6135	543	210	31/23	13/12.7	
AHU-103B	L1	HAAKON	HAAKON	1	5WM1006B	6/10	9.14	46	5.5	11.9	6135	543	210	31/23	13/12.7	
AHU-124A	L3 ADDITION	HAAKON	HAAKON	1	5WM0906B	6/9	6.62	28	5.5	12.1	4720	430	140	29/23	13/12.7	
AHU-124B	L3 ADDITION	HAAKON	HAAKON	1	5WM0906B	6/9	6.62	28	5.5	12.1	4720	430	140	29/23	13/12.7	

AIR HANDLING UNIT - HOT WATER HEATING COILS (PRETENDERED)

DRAWING REFERENCE	SERVICE	MANUFACTURER	HEATING COIL											REMARKS
			COIL MANUFACTURER	NUMBER OF COILS	MODEL NUMBER	ROWS/ FPI	FLUID - 40% PROPYLENE GLYCOL				AIR					
							FLOW PER COIL (L/S)	PRESSURE DROP (kPa)	EWT (°C)	LWT (°C)	FLOW PER COIL (L/S)	FACE VELOCITY (FPM)	PRESSURE DROP (Pa)	EAT (°C)	LAT (°C)	
AHU-103A	L1	HAAKON	HAAKON	1	5WS1202C	2/12	6.19	55.6	48.9	37.8	6135	543	102	-20	16	-
AHU-103B	L1	HAAKON	HAAKON	1	5WS1202C	2/12	6.19	55.6	48.9	37.8	6135	543	102	-20	16	-
AHU-124A/B	L3 ADDITION	HAAKON	HAAKON	1	5WS1002C	2/10	4.76	43	48.9	37.8	4720	440	65	-20	16	
AHU-124A/B	L3 ADDITION	HAAKON	HAAKON	1	5WS1002C	2/10	4.76	43	48.9	37.8	4720	440	65	-20	16	

ENERGY RECOVERY VENTILATOR - SUPPLY FAN (PRETENDERED)*

DRAWING REFERENCE	SERVICE	MANUFACTURER	SUPPLY FAN																			
			DRAWING REFERENCE	FAN MANUFACTURER	NUMBER OF FANS	FAN MODEL	AIR QUANTITY PER FAN (L/S)	ESP (Pa)	TSP (Pa)	FAN RPM	ELECTRICAL			FAN OUTLET SOUND POWER LEVELS (dB)								
											BRAKE HP	MOTOR HP	V/Ph/Hz	1	2	3	4	5	6	7	8
ERV-521	AHU-124A/B	HAAKON	SF-521	HAAKON	1	20TCEPF	3305	250	685	1977	5.1	7.5	575/3/60	86	86	95	91	89	85	80	73

*UNIT SUPPLY IN CONTRACT. REFER TO SPECIFICATION 21 05 01.

ENERGY RECOVERY VENTILATOR - EXHAUST FAN (PRETENDERED)

DRAWING REFERENCE	SERVICE	MANUFACTURER	EXHAUST FAN																	REMARKS
			DRAWING REFERENCE	FAN MANUFACTURER	NUMBER OF FANS	FAN MODEL	AIR QUANTITY PER FAN (L/S)	ESP (Pa)	TSP (Pa)	FAN RPM	ELECTRICAL			FAN INLET SOUND POWER LEVELS (dB)								
											BRAKE HP	MOTOR HP	V/Ph/Hz	1	2	3	4	5	6	7	8	
ERV-521	AHU-124A/B	HAAKON	EF-521	HAAKON	1	18TCEPF	3305	250	685	2422	5.6	7.5	575/3/60	83	83	94	92	84	81	79	72	INVERTER DUTY FAN MOTORS - VFD BY DIV. 26

ENERGY RECOVERY UNIT - FIXED CORE (PRETENDERED)

DRAWING REFERENCE	SERVICE	MANUFACTURER	MODEL	DIM. (LxWxD)	MAX. PRESSURE DROP (Pa)		AIR VOLUME (L/S)		WINTER HEAT RECOVERY				SUMMER HEAT RECOVERY				REMARKS
									SUPPLY TEMPERATURE (°C)		EXHAUST TEMPERATURE (°C)		SUPPLY TEMPERATURE (°C)		EXHAUST TEMPERATURE (°C)		
					SUPPLY AIR	EXHAUST AIR	SUPPLY AIR	EXHAUST AIR	ENTERING	LEAVING	ENTERING	LEAVING	ENTERING	LEAVING	ENTERING	LEAVING	
									DB	WB	DB	WB	DB	WB	DB	WB	DB	WB	DB	WB	
ERV-521	AHU-124A/B	AIROTOR	XLT-H 50(24)-48	1200x1200x1200	265	265	3305	3305	-20	-20	8.7	-0.6	21	12	-2.2	-2.2	31	23	26	22	24	17	28	18	PROVIDE 120V CIRCUIT FOR CABINET LIGHTING

GRILLES, REGISTERS AND DIFFUSERS

DRAWING REFERENCE	MANUFACTURER	MODEL	PANEL SIZE (mm)	NECK SIZE (mm)	AIR VOLUME (L/S)	REMARKS
SUPPLY DIFFUSERS						
SD-1	PRICE	PDS/B12	610 x 610	150Ø	0-55	EXTRUDED ALUMINUM CONSTRUCTION, QUICK RELEASE, HINGED REMOVABLE FACE, PERFORATED FACE, AIR PATTERN CONTROLLER, C/W EQUALIZING GRID
SD-2	PRICE	PDS/B12	610 x 610	200Ø	56-85	EXTRUDED ALUMINUM CONSTRUCTION, QUICK RELEASE, HINGED REMOVABLE FACE, PERFORATED FACE, AIR PATTERN CONTROLLER, C/W EQUALIZING GRID
SD-3	PRICE	PDS/B12	610 x 610	250Ø	86-120	EXTRUDED ALUMINUM CONSTRUCTION, QUICK RELEASE, HINGED REMOVABLE FACE, PERFORATED FACE, AIR PATTERN CONTROLLER, C/W EQUALIZING GRID
SD-4	PRICE	PDS/B12	610 x 610	300Ø	121-150	EXTRUDED ALUMINUM CONSTRUCTION, QUICK RELEASE, HINGED REMOVABLE FACE, PERFORATED FACE, AIR PATTERN CONTROLLER, C/W EQUALIZING GRID
SD-5	PRICE	PDS/B12	610 x 610	350Ø	151-190	EXTRUDED ALUMINUM CONSTRUCTION, QUICK RELEASE, HINGED REMOVABLE FACE, PERFORATED FACE, AIR PATTERN CONTROLLER, C/W EQUALIZING GRID
SD-6	PRICE	PDS/B12	300 x 300	150Ø	0-55	EXTRUDED ALUMINUM CONSTRUCTION, QUICK RELEASE, HINGED REMOVABLE FACE, PERFORATED FACE, AIR PATTERN CONTROLLER, C/W EQUALIZING GRID
SD-7	PRICE	HCF/B12	610 x 610	250Ø	95-235	EXTRUDED ALUMINUM CONSTRUCTION, PERFORATED FACE, QUICK RELEASE
SD-8	PRICE	MSRRCD	300 x 300	300 x 300	0 - 150	MAXIMUM SECURITY RISK RESISTANT CEILING DIFFUSER
SUPPLY GRILLES						
SG-1	PRICE	520DF/FL/A/B15	-	250 x 150	0-100	STEEL CONSTRUCTION SIDEWALL GRILLE, VOLUME DAMPER, DOUBLE DEFLECTION, FLAT BORDER, SHORT FRONT BLADES, COUNTERSUNK SCREWHOLES, ALUMINUM FINISH
SG-2	PRICE	520DF/FL/A/B15	-	300 x 200	0-175	STEEL CONSTRUCTION SIDEWALL GRILLE, VOLUME DAMPER, DOUBLE DEFLECTION, FLAT BORDER, SHORT FRONT BLADES, COUNTERSUNK SCREWHOLES, ALUMINUM FINISH
SG-3	PRICE	SDGE/B12	-	300 x 200	0-150	EXTRUDED ALUMINUM CONSTRUCTION, CURVED FACE DUCT GRILLE, DOUBLE DEFLECTION CORE, CLOSED CELL FOAM GASKET.
SG-4	PRICE	SDGE/B12	-	400 x 200	0-225	EXTRUDED ALUMINUM CONSTRUCTION, CURVED FACE DUCT GRILLE, DOUBLE DEFLECTION CORE, CLOSED CELL FOAM GASKET.
LINEAR SUPPLY DIFFUSERS						
SL-1	PRICE	SDB/75/4/18	1830 L WITH 1500L PLENUM	150Ø	0 - 150	EXTRUDED ALUMINUM CONSTRUCTION, 4 SLOTS, C/W 1500mm LONG INSULATED PLENUM, BLANK OFF PANELS FOR INACTIVE SECTIONS OF LINEAR DIFFUSER, OPTIONAL FACE OPERATED REMOTE DAMPER, WHITE FINISH
RETURN AIR REGISTERS						
RR-1	PRICE	APDDR/B12	300 x 600	250 x 250	0-190	ALUMINUM CONSTRUCTION PERFORATED FACE GRILLE, HINGED FACE, WHITE FINISH
RR-2	PRICE	APDDR/B12	600 x 600	250 x 250	0-190	ALUMINUM CONSTRUCTION PERFORATED FACE GRILLE, HINGED FACE, WHITE FINISH
RR-3	PRICE	APDDR/B12	600 x 600	350 x 350	0-375	ALUMINUM CONSTRUCTION PERFORATED FACE GRILLE, HINGED FACE, WHITE FINISH
RR-4	PRICE	MSRRP	300 x 300	300 x 300	0 - 150	MAXIMUM SECURITY RISK RESISTANT CEILING GRILLE
RETURN GRILLES						
RG-1	PRICE	530DF/FL/C/B15	-	250 x 150	0-75	STEEL CONSTRUCTION, 45° FIXED BLADES, CONCEALED FASTENING. VOLUME DAMPER, ALUMINUM FINISH.
RG-2	PRICE	530DF/FL/C/B15	-	300 x 200	0-150	STEEL CONSTRUCTION, 45° FIXED BLADES, CONCEALED FASTENING. VOLUME DAMPER, ALUMINUM FINISH.
RG-3	PRICE	530DF/FL/C/B15	-	400 x 250	0-175	STEEL CONSTRUCTION, 45° FIXED BLADES, CONCEALED FASTENING. VOLUME DAMPER, ALUMINUM FINISH.
RG-4	PRICE	530DF/FL/C/B15	-	500 x 400	0-400	STEEL CONSTRUCTION, 45° FIXED BLADES, CONCEALED FASTENING. VOLUME DAMPER, ALUMINUM FINISH.
EXHAUST GRILLES						
EG-1	PRICE	80/B12	300 x 300	250 x 250	0-200	EXTRUDED ALUMINUM CONSTRUCTION, ALUMINUM GRID CORE, CONCEALED FASTENING.
EG-2	PRICE	630DF/FL/C/B15	-	500 x 350	0 - 360	ALUMINUM CONSTRUCTION, 45° FIXED BLADES, CONCEALED FASTENING. VOLUME DAMPER, ALUMINUM FINISH.
EG-3	PRICE	MSRRP	300 x 300	250 x 250	0 - 190	MAXIMUM SECURITY RISK RESISTANT CEILING GRILLE
EXHAUST REGISTERS						
ER-1	PRICE	APDDR/B12	600 x 600	250 x 250	0-190	ALUMINUM CONSTRUCTION PERFORATED FACE GRILLE, HINGED FACE, WHITE FINISH
ER-2	PRICE	APDDR/B12	600 x 600	450 x 450	0-400	ALUMINUM CONSTRUCTION PERFORATED FACE GRILLE, HINGED FACE, WHITE FINISH
ER-3	PRICE	APDDR/B12 - CUSTOM	750 x 750	450 x 450	0-450	ALUMINUM CONSTRUCTION PERFORATED FACE GRILLE, HINGED FACE, WHITE FINISH - CUSTOM SIZED TO SUIT LARGE FORMAT 750 x 750 CEILING SYSTEM.
CO-ORDINATE FRAME SELECTION WITH CEILING TYPE.						

VIBRATION ISOLATION EQUIPMENT

DRAWING REFERENCE	MANUFACTURER	TYPE	STATIC DEFLECTION [in]	REMARKS
CP-338 & 339	VIBROACOUSTICS	NSN	-	SEE FLEXIBLE CONNECTORS, SPECIFICATION SECTION 23 20 00
EF, AC, HP	VIBROACOUSTICS	SHR	1	ALL SUSPENDED EQUIPMENT
AHU-103 & 124	VIBROACOUSTICS	N	-	
PIPING WHERE SPECIFIED	VIBROACOUSTICS	SRH	1	FIRST THREE SUPPORT POINTS FOR PIPING CONNECTED TO VIBRATING EQUIPMENT

SPLIT AIR CONDITIONING SYSTEMS

DRAWING REFERENCE	LOCATION (RM NO)	MANUFACTURER	MODEL	COOLING CAPACITY [kW]	ELECTRICAL	MCA	REMARKS
INDOOR UNIT							
AC-541	GARAGE	MITSUBISHI	PEFY-P96NMHSU	28.1	208/1/60	8.2	DUCTED FAN COIL UNIT C/W FBH4-4 FILTER BOX
AC-542	GARAGE	MITSUBISHI	PEFY-P96NMHSU	28.1	208/1/60	8.2	DUCTED FAN COIL UNIT C/W FBH4-4 FILTER BOX
OUTDOOR UNIT							
CU-641	ROOF	MITSUBISHI	PUHY-HP120	35.1	208/3/60	47	C/W HYPERHEAT LOW AMBIENT HEATING, PPH SIESMIC SUPPORTS (SEE SPECIFICATIONS)
CU-642	ROOF	MITSUBISHI	PUHY-HP120	35.1	208/3/60	47	C/W HYPERHEAT LOW AMBIENT HEATING, PPH SIESMIC SUPPORTS (SEE SPECIFICATIONS)

C/W LOW AMBIENT KIT AND WIND BAFFLES FOR COOLING OPERATION DOWN TO -40°C.

HEATING UNITS

DRAWING REFERENCE	MANUFACTURER	MODEL	DIMENSIONS [WxHxD mm]	CAPACITY [kW]	ELECTRICAL	REMARKS
FF-420	SIGMA	SFF06	1000 W X 700 H X 250 D	11.6	120/1/60	RECESSED, UNDUCTED CEILING CABINET
UH-430	SIGMA	062H	750 W X 500 H X 500 D	7.3	120/1/60	HORIZONTAL THROW UNIT HEATER
RP-1	SIGMA	SLC	600 W X WALL TO WALL	4.68kW/M	-	600W PANELS, 4 PASS, LENGTH TO FIT ROOM. PROVIDE INACTIVE ACCESS PANEL WHERE INSTALLED IN HARD CEILINGS. SEE DETAILS ON DRAWING M504.
RP-2	SIGMA	SLC	600 W X WALL TO WALL	4.68kW/M	-	600W PANELS, 4 PASS, SECURITY TYPE PANEL WITH TORX FASTENERS. SEE DETAILS ON DRAWING M504.

NOTES: FORCE FLOW & UNIT HEATER SELECTIONS BASED ON 18°C EAT, 82°C EWT & 65°C LWT

DOOR HEATERS/AIR CURTAINS

DRAWING REFERENCE	MANUFACTURER	MODEL NUMBER	NOZZLE LENGTH (mm)	CAPACITY (kW)	WATER FLOW (L/S)	ELECTRICAL		REMARKS
						VOLTAGE	MCA	
DH-450	BERNER	AE08-2096W	2438	24.1	0.57	120	8.8	WALL MOUNTED, CUSTOM COLOUR SELECTED BY ARCHITECT
DH-451A	BERNER	A110-E-3132A	3352	N/A	N/A	120	25.5	EXPOSED MOUNTING, CUSTOM COLOUR SELECTED BY ARCHITECT, AMBIENT (UNHEATED)
DH-451B	BERNER	A110-E-3132A	3352	N/A	N/A	120	25.5	EXPOSED MOUNTING, CUSTOM COLOUR SELECTED BY ARCHITECT, AMBIENT (UNHEATED)
DH-451C	BERNER	A110-E-3132A	3352	N/A	N/A	120	25.5	EXPOSED MOUNTING, CUSTOM COLOUR SELECTED BY ARCHITECT, AMBIENT (UNHEATED)

NOTES: AIR CURTAIN SELECTION BASED ON 82°C EWT/71°C LWT - 18°C EAT

PUMPS

DRAWING REFERENCE	SERVICE	MANUFACTURER	MODEL	FLOW [L/S]	HEAD [kPa]	EFF. [%]	RPM	BHP	HP	ELECTRICAL [V/Ph/Hz]
CP-338 & CP-339	GLYCOL HEATING COILS	BELL & GOSSETT	80SC - 4x4x9.5B	27.1	104	70	1800	5.34	7.5	575/3/60

* MOTOR TO BE SUITABLE FOR VFD

HEAT EXCHANGERS - STEAM TO GLYCOL

DRAWING REFERENCE	SERVICE	MANUFACTURER	MODEL	TYPE	CAPACITY (kW)	HOT SIDE - STEAM		COLD SIDE				REMARKS
						CAPACITY (LB/HR)	INLET PRESSURE (kPa)	MEDIA	FLOW RATE (L/s)	PRESSURE DROP (kPa)	TEMPERATURE EWT (°C)	TEMPERATURE LWT (°C)	
HX-3A/B	AHU'S & IN FLOOR	AIC	JAD XK 12.114.08.05	TUBE/SHELL	1180.6	4265	103	40% GLYCOL	27.1	35	60	71.1	

PRESSURE REDUCING VALVE AND RELIEF VALVES - STEAM

DRAWING REFERENCE	SERVICE	MANUFACTURER	PRESSURE REDUCING VALVE				SAFETY RELIEF VALVE						REMARKS
			MODEL NUMBER	PRESSURE (kPa)		CAPACITY LB/H	MANUFACTURER	MODEL NUMBER	RELIEF CAPACITY (LB/HR)	SET PRESS. (kPa)	SIZE (mm)		
				INLET	OUTLET						INLET	OUTLET	
PRV-4	HEATING	FISHER	92B NPS 2	689	90	4400	KUNKLE	6252KPM	11,963	138	100	150	PROVIDES RELIEF FOR BOTH VALVES
PRV-5	HEATING	FISHER	92B NPS 1.5	689	103	2200	FISHER						

HEAT PUMPS

DRAWING REFERENCE	MANUFACTURER	MODEL	COOLING CAPACITY		AIR QUANTITY (L/s)	EXTERNAL STATIC PRESSURE (Pa)	WATER FLOW (L/s)	MAX. WATER PRESSURE DROP (kPa)	HEATING CAPACITY (kW)	ELECTRICAL		MINIMUM EER
			TOTAL (kW)	SENSIBLE (kW)						V/Ph/Hz	MCA	
HP-431	DAIKIN	WGSH 009	2.6	2.0	145	75	0.09	29	3.7	208/1/60	5.6	12.8
HP-432	DAIKIN	WGSH 024	7.1	5.5	375	75	0.25	24	8.5	208/3/60	11.9	15.4

SELECTION BASED ON: COOLING: 23.9°C DB EAT, 17.2°C WB; 32.2°C EWT
HEATING: 21.2°C DB EAT, 21.2°C EWT
MAXIMUM PRESSURE DROP INCLUDES LOSSES THROUGH SUPPLY AND RETURN HOSES

SOUND ATTENUATORS

ATTENUATOR NUMBER	SYSTEM NUMBER	MANUFACTURER	MODEL NUMBER	DIMENSIONS - (mm)			FLOW (L/s)	PRESS. DROP (Pa)	PRESS. DROP W/ SYS. EFFECT (IN WG)	ATTENUATION dB								REMARKS
				L	W	H				1	2	3	4	5	6	7	8	
SA-103A	103 - SUPPLY	KINETICS	400 KCRS-F-TF/3	1525	450	400	475	7	20	2	7	16	21	28	25	14	8	FILM LINED
SA-103B	103 - RETURN	KINETICS	400 KCRS-F-TF/2.5	1525	400	250	285	15	25	5	9	21	23	29	24	15	8	FILM LINED
SA-124A	124 - SUPPLY	KINETICS	750 KCRS-F-TF/5.5	2300	1850	750	9440	10	35	4	7	16	21	12	10	7	6	FILM LINED
SA-124B	124 - RETURN	KINETICS	700 KCRS-F-TF/5	2300	1400	450	5050	25	87	8	11	20	21	15	12	9	6	FILM LINED

CONSTANT VOLUME AIR TERMINAL UNITS

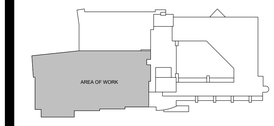
DRAWING REFERENCE	MANUFACTURER	MODEL	INLET SIZE (MM)	RANGE (L/s)	CASING DIMENSIONS (MM)			HEATING COIL						SUPPLY DUCT SIZE TO UNIT (MM)	REMARKS
					LENGTH	WIDTH	HEIGHT	ROWS	AIR		WATER				
									L/s	EAT (°C)	LAT (°C)	FLOW (L/s)	EWT (°C)	LWT (°C)	
CB-1	E.H. PRICE	SDV-5000	100	0-70	550	300	200	4	0-70	12.8	29.4	0.04	37.7	27.2	150Ø	OVERSIZED CASING, 4 ROW COIL, ATTENUATOR
CB-2	E.H. PRICE	SDV-5000	150	71-140	550	300	250	4	71-140	12.8	29.4	0.06	37.7	27.2	200Ø	OVERSIZED CASING, 4 ROW COIL, ATTENUATOR
CB-3	E.H. PRICE	SDV-5000	175	141-235	500	350	315	4	141-235	12.8	29.4	0.12	37.7	28.0	225Ø	OVERSIZED CASING, 4 ROW COIL, ATTENUATOR
CB-4	E.H. PRICE	SDV-5000	225	236-375	500	400	375	4	236-375	12.8	29.4	0.20	37.7	29.0	275Ø	OVERSIZED CASING, 4 ROW COIL, ATTENUATOR
CB-5	E.H. PRICE	SDV-5000	300	376-610	585	500	435	4	376-610	12.8	29.4	0.35	37.7	29.2	450x300	OVERSIZED CASING, 4 ROW COIL, ATTENUATOR
CB-6	E.H. PRICE	SDV-5000	350	611-850	585	600	450	4	611-850	12.8	29.4	0.53	37.7	30.0	600x300	OVERSIZED CASING, 4 ROW COIL, ATTENUATOR
CB-7	E.H. PRICE	SDV-5000	400	851-1200	475	950	450	4	851-1200	12.8	29.4	0.54	37.7	27.3	600x350	OVERSIZED CASING, 4 ROW COIL, ATTENUATOR

FANS

FAN NUMBER	SERVICE	MANUFACTURER	MODEL	AIR VOLUME [L/S]	STATIC PRESSURE [Pa]	FAN RPM	HP	ELECTRICAL [V/Ph/Hz]	INLET SOUND POWER LEVELS [dB]								REMARKS
									1	2	3	4	5	6	7	8	
EF-19	DISHWASHER	GREENHECK	CUE-095-VG	235	190	1723	1/6	120/1/60	75	76	75	68	59	60	55	36	C/W SPEED CONTROLLER, NON-STICK ALUMINUM WHEEL
EF-20	DISHWASHER	GREENHECK	CUE-140	885	400	1717	1.5	575/3/60	77	53	80	81	66	52	58	58	INVERTER DUTY MOTOR, NON-STICK ALUMINUM WHEEL
EF-33	GARAGE EXHAUST	GREENHECK	SQ-160-VG	710/1420	185	1295	1	575/3/60	74	74	79	79	71	67	62	58	INVERTER DUTY MOTOR
EF-34	WASHROOM EXHAUST	GREENHECK	G-098-VG	140	185	1377	1/4	120/1/60	72	72	71	62	57	54	48	44	C/W SPEED CONTROLLER
RF-203A/B	AHU-103	GREENHECK	QEI-30	6140	435	965	7.5	575/3/60	77	84	79	77	75	72	68	63	INVERTER DUTY MOTOR

Chorley+Bisset CONSULTING ENGINEERS
201 QUEENS AVE., UNIT 800 LONDON ON, N6A 1J1
250 CITY CENTRE AVE., SUITE 403 OTTAWA ON, K1R 6K7

Key Plan



KEY PLAN
NTS

10	ISSUED FOR ADDENDUM			2024.07.05
9	ISSUED FOR TENDER			2024.06.07
8	ISSUED FOR PRE-TENDER			2024.05.27
7	ISSUED FOR BUILDING PERMIT			2024.03.28
6	ISSUED FOR STAGE 2.3 MOH SUBMISSION			2024.02.23
5	ISSUED FOR COSTING AND GGH REVIEW			2023.12.21
4	ISSUED FOR 60% CONSTRUCTION DOCUMENTS			2023.10.26
3	ISSUED FOR MOH STAGE 2.2 SUBMISSION	C.A.B	C.A.B	2023.06.09
2	ISSUED FOR DD COSTING AND CLIENT REVIEW	C.A.B	C.A.B	2023.03.29
1	ISSUED FOR 100% SCHEMATIC DESIGN	C.A.B	C.A.B	2022.11.02
Issued/Revision		By	Appd	YYYY.MM.DD
File Name:		EDS	JHE	DBV	2024.06.07
		Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

LICENSED PROFESSIONAL ENGINEER D. B. VAKARAS PROVINCE OF ONTARIO

Client/Project Logo

GUELPH GENERAL HOSPITAL

Client/Project
GUELPH GENERAL HOSPITAL

EMERGENCY MENTAL HEALTH AND ADDICTIONS SERVICES RELOCATION AND EMERGENCY DEPARTMENT EXPANSION

115 DELHI ST, GUELPH, ON, N1E 4J4

Title
MECHANICAL SCHEDULES

Project No. 9609
Scale AS NOTED
Revision
Drawing No. M102

ORIGINAL SHEET - ISO A0

PHASE 1 - PART LEVEL 1 FLOOR PLAN - FIRE PROTECTION

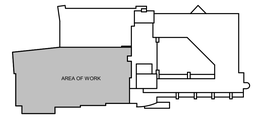
SCALE 1 : 100

NOTES:

1. PROVIDE A WET PIPE SPRINKLER SYSTEM TO NFPA 13 TO COMPLETELY PROTECT ALL AREAS OF THE BUILDING AS SHOWN.
2. SPRINKLER IN STAIRS AND SHAFTS NOT SHOWN. PROVIDE COVERAGE IN ACCORDANCE WITH NFPA 13 AND OBC.

Chorley + Bisset
CONSULTING ENGINEERS
201 QUEENS AVE., UNIT 800 LONDON ON, N6A 1J1
250 CITY CENTRE AVE., SUITE 403 OTTAWA ON, K1R 6K7

Key Plan



KEY PLAN
NTS

13	ISSUED FOR ADDENDUM #3			2024.07.05
10	ISSUED FOR TENDER			2024.06.07
9	ISSUED FOR PRE-TENDER			2024.05.27
7	ISSUED FOR BUILDING PERMIT			2024.03.28
6	ISSUED FOR STAGE 2.3 MOH SUBMISSION			2024.02.23
5	ISSUED FOR COSTING AND IGOH REVIEW			2023.12.21
4	ISSUED FOR 60% CONSTRUCTION DOCUMENTS			2023.10.26
3	ISSUED FOR MOH STAGE 2.2 SUBMISSION	C&B	C&B	2023.06.09
2	ISSUED FOR DD COSTING AND CLIENT REVIEW	C&B	C&B	2023.03.29
1	ISSUED FOR 100% SCHEMATIC DESIGN	C&B	C&B	2022.11.02
Issued/Revision		By	Appd	YYYY.MM.DD
File Name: N/A		EDS Dwn.	JHE Dsgn.	DBV Chkd.	2024.06.07 YYYY.MM.DD

Permit/Seal

Client/Project Logo

GUELPH GENERAL HOSPITAL

Client/Project

GUELPH GENERAL HOSPITAL

EMERGENCY MENTAL HEALTH AND ADDICTIONS SERVICES RELOCATION AND EMERGENCY DEPARTMENT EXPANSION

115 DELHI ST, GUELPH, ON, N1E 4J4

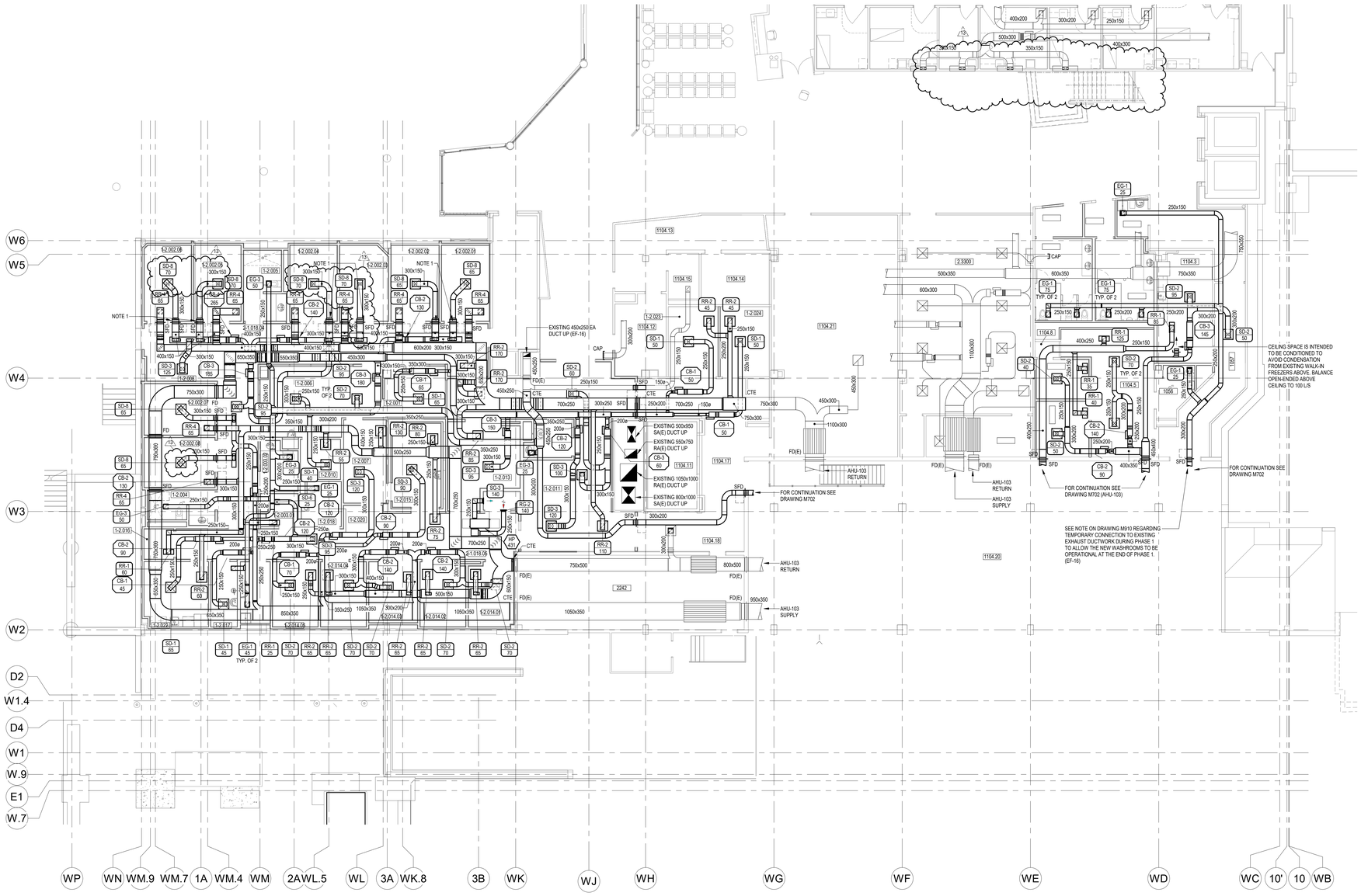
Title

PHASE 1 - PART LEVEL 1 FLOOR PLAN - FIRE PROTECTION

Project No.	Scale
9609	1 : 100
Revision 13	Drawing No. M301

12/2/2024 2:29:28 PM

ORIGINAL SHEET - ISO A0



PHASE 1 - PART LEVEL 1 FLOOR PLAN - AIR DISTRIBUTION

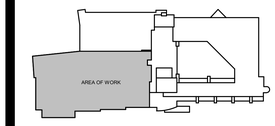
SCALE 1 : 100

NOTES:

1. ACCESS TO SMOKE FIRE DAMPER MUST BE FROM THE CORRIDOR CEILING SPACE. A SEPARAT SMOKE DAMPER AND FIRE DAMPER INSTALLATION WILL BE REQUIRED FOR THESE DUCTS. SEE DETAILS ON DRAWING M605.

Chorley + Bisset
CONSULTING ENGINEERS
201 QUEENS AVE., UNIT 800 LONDON ON, N6A 1J1
250 CITY CENTRE AVE., SUITE 403 OTTAWA ON, K1R 6K7

Key Plan



KEY PLAN
NTS

13	ISSUED FOR ADDENDUM #3			2024.07.05
10	ISSUED FOR TENDER			2024.06.07
9	ISSUED FOR PRE-TENDER			2024.05.27
7	ISSUED FOR BUILDING PERMIT			2024.03.28
6	ISSUED FOR STAGE 2.3 MOH SUBMISSION			2024.02.23
5	ISSUED FOR COSTING AND GGH REVIEW			2023.12.21
4	ISSUED FOR 60% CONSTRUCTION DOCUMENTS			2023.10.26
3	ISSUED FOR MOH STAGE 2.2 SUBMISSION	C&B	C&B	2023.06.09
2	ISSUED FOR DD COSTING AND CLIENT REVIEW	C&B	C&B	2023.03.29
1	ISSUED FOR 100% SCHEMATIC DESIGN	C&B	C&B	2022.11.02
Issued/Revision		By	Appd	YYYY.MM.DD
File Name: N/A		EDS	JHE	DBV 2024.06.07
		Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Permit/Seal

Client/Project Logo

GUELPH GENERAL HOSPITAL

Client/Project

GUELPH GENERAL HOSPITAL

EMERGENCY MENTAL HEALTH AND ADDICTIONS SERVICES RELOCATION AND EMERGENCY DEPARTMENT EXPANSION

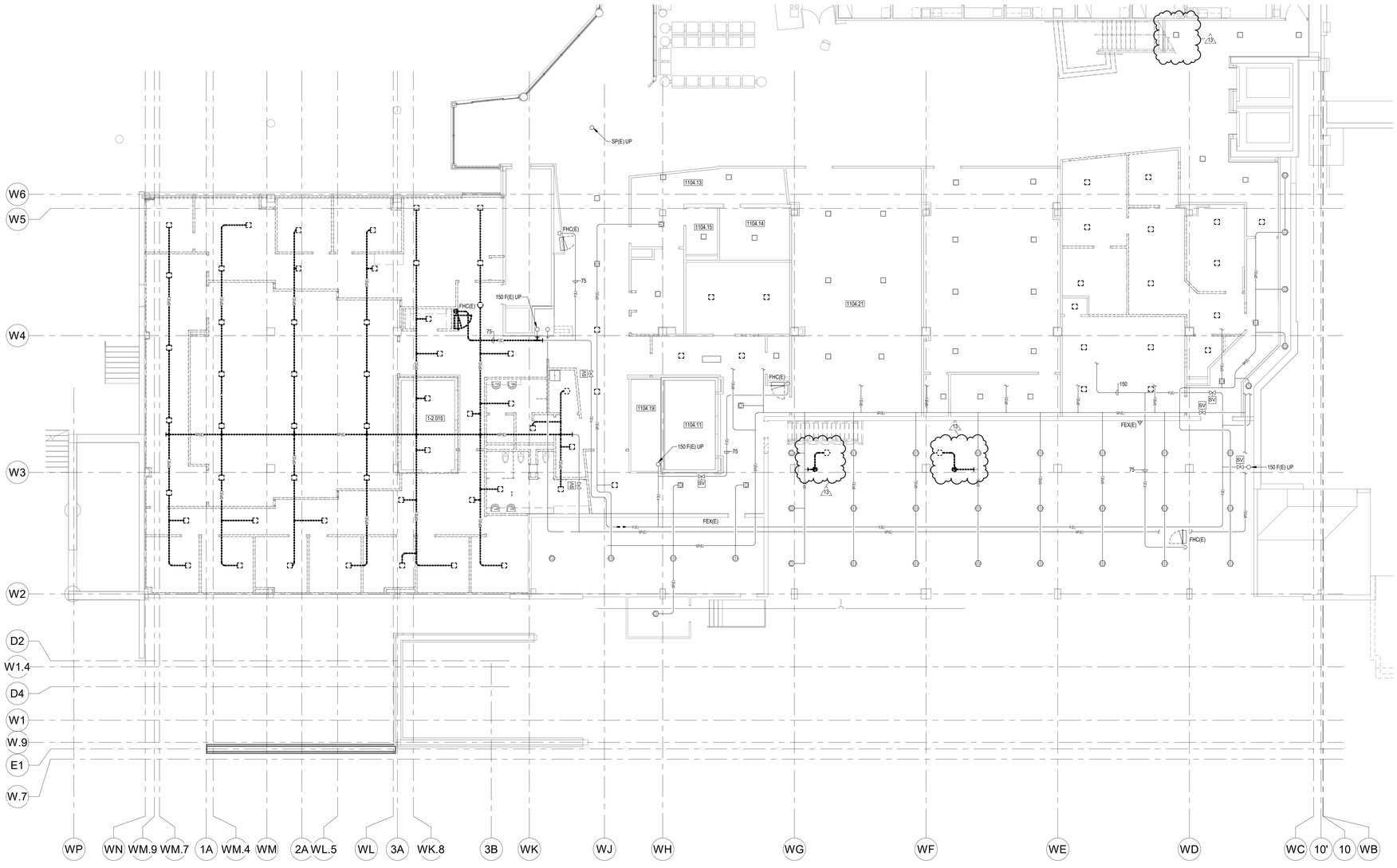
115 DELHI ST, GUELPH, ON, N1E 4J4

Title

PHASE 1 - PART LEVEL 1 FLOOR PLAN - AIR DISTRIBUTION

Project No.	Scale
9609	1 : 100
Revision 13	Drawing No. M601

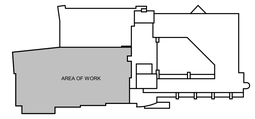
ORIGINAL SHEET - ISO A0



PHASE 1 - PART LEVEL 1 FLOOR PLAN - FIRE PROTECTION DEMOLITION
SCALE 1 : 100

Chorley + Bisset
CONSULTING ENGINEERS
201 QUEENS AVE., UNIT 800 LONDON ON, N6A 1J1
250 CITY CENTRE AVE., SUITE 403 OTTAWA ON, K1R 6K7

Key Plan



KEY PLAN
NTS

13	ISSUED FOR ADDENDUM #3			2024.07.05
10	ISSUED FOR TENDER			2024.06.07
9	ISSUED FOR PRE-TENDER			2024.05.27
7	ISSUED FOR BUILDING PERMIT			2024.03.28
6	ISSUED FOR STAGE 2.3 MOH SUBMISSION			2024.02.23
5	ISSUED FOR COSTING AND GGH REVIEW			2023.12.21
4	ISSUED FOR 60% CONSTRUCTION DOCUMENTS			2023.10.26
3	ISSUED FOR MOH STAGE 2.2 SUBMISSION	C&B	C&B	2023.06.09
2	ISSUED FOR DD COSTING AND CLIENT REVIEW	C&B	C&B	2023.03.29
1	ISSUED FOR 100% SCHEMATIC DESIGN	C&B	C&B	2022.11.02
Issued/Revision		By	Appd	YYYY.MM.DD

File Name: N/A		EDS	JHE	DBV	2024.06.07
		Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

GUELPH GENERAL HOSPITAL

Client/Project

GUELPH GENERAL HOSPITAL

EMERGENCY MENTAL HEALTH AND ADDICTIONS SERVICES RELOCATION AND EMERGENCY DEPARTMENT EXPANSION

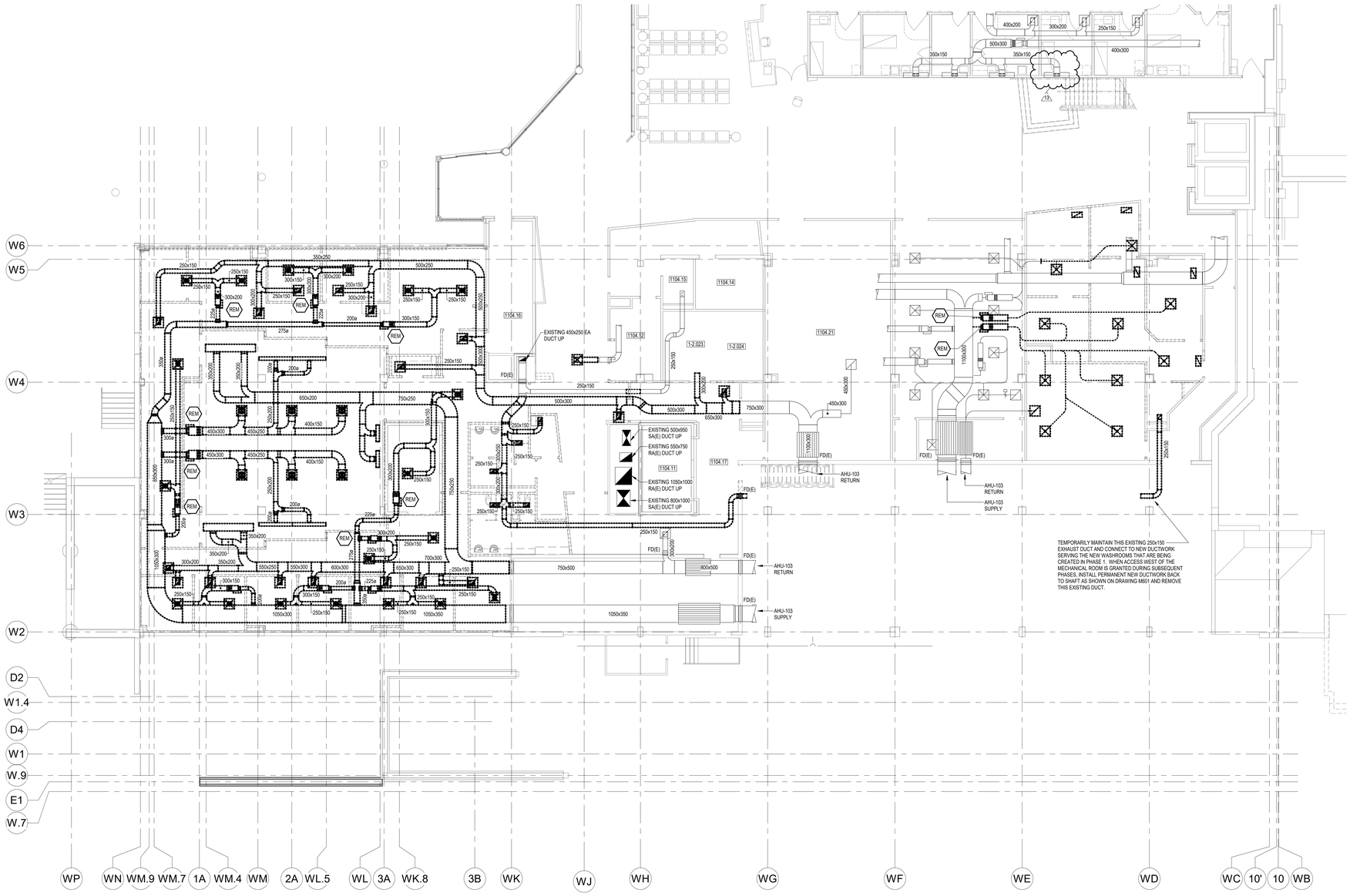
115 DELHI ST, GUELPH, ON, N1E 4J4

Title

PHASE 1 - PART LEVEL 1 FLOOR PLAN - FIRE PROTECTION DEMOLITION

Project No. 9609	Scale 1 : 100
Revision 13	Drawing No. M905

ORIGINAL SHEET - ISO A2



PHASE 1 - PART LEVEL 1 FLOOR PLAN - AIR DISTRIBUTION DEMOLITION

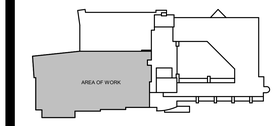
SCALE 1 : 100

Chorley + Bisset
CONSULTING ENGINEERS

201 QUEENS AVE., UNIT 800
LONDON ON, N6A 1J1

250 CITY CENTRE AVE., SUITE 403
OTTAWA ON, K1R 6K7

Key Plan



KEY PLAN
NTS

13	ISSUED FOR ADDENDUM #3			2024.07.05
10	ISSUED FOR TENDER			2024.06.07
9	ISSUED FOR PRE-TENDER			2024.05.27
7	ISSUED FOR BUILDING PERMIT			2024.03.28
6	ISSUED FOR STAGE 2.3 MOH SUBMISSION			2024.02.23
5	ISSUED FOR COSTING AND QGH REVIEW			2023.12.21
4	ISSUED FOR 60% CONSTRUCTION DOCUMENTS			2023.10.26
3	ISSUED FOR MOH STAGE 2.2 SUBMISSION	C&B	C&B	2023.06.09
2	ISSUED FOR DD COSTING AND CLIENT REVIEW	C&B	C&B	2023.03.29
1	ISSUED FOR 100% SCHEMATIC DESIGN	C&B	C&B	2022.11.02
Issued/Revision		By	Appd	YYYY.MM.DD
File Name: N/A		EDS	JHE	DBV	2024.06.07
		Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

Client/Project Logo

GUELPH GENERAL HOSPITAL

Client/Project

GUELPH GENERAL HOSPITAL

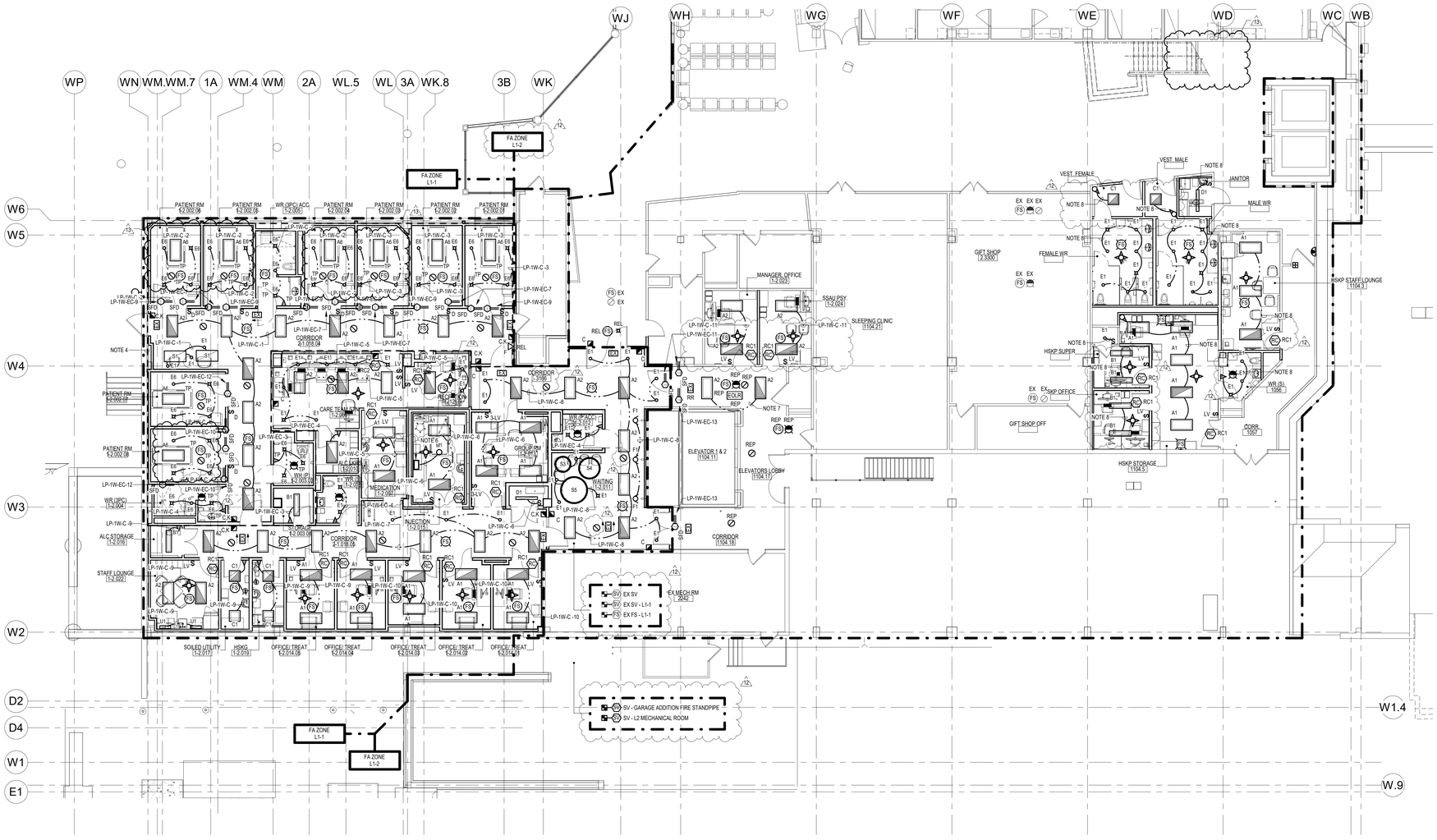
EMERGENCY MENTAL HEALTH AND ADDICTIONS SERVICES RELOCATION AND EMERGENCY DEPARTMENT EXPANSION

115 DELHI ST, GUELPH, ON, N1E 4J4

Title

PHASE 1 - PART LEVEL 1 FLOOR PLAN - AIR DISTRIBUTION DEMOLITION

Project No.	Scale
9609	1 : 100
Revision	Drawing No.
13	M910



PHASE 1 - PART LEVEL 1 FLOOR PLAN - LIGHTING AND FIRE ALARM

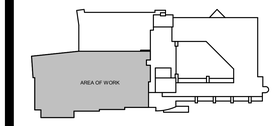
SCALE 1 : 100

NOTES:

1. CONNECT NEW FIRE ALARM DEVICES TO THE EXISTING SIGNALING AND INITIATING ZONES SERVING THE AREA.
2. EXIT SIGNS TO BE CONNECTED TO EXIT SIGN CIRCUIT LP-1W-EC - 8.
3. PROVIDE UL-924 SHUNT RELAY FOR ALL EMERGENCY LIGHTING. REFER TO DETAIL.
4. ALL DEVICES WITHIN THE OUTLINED AREA TO BE TAMPER PROOF AND/OR PROVIDED WITH TAMPER PROOF COVERS AND HARDWARE.
5. EXISTING FIRE ALARM SYSTEM HAS ACTIVE GRAPHIC. PROVIDE UPDATED ACTIVE GRAPHIC.
6. PROVIDE EXAM LIGHT CONTROLLER ON WALL.
7. REWORK/EXTEND EXISTING NORMAL POWER AND EMERGENCY LIGHTING CIRCUITS SERVING THE CORRIDOR TO SUIT.
8. REWORK/EXTEND EXISTING NORMAL POWER AND EMERGENCY LIGHTING CIRCUITS SERVING THE AREA TO SUIT.
9. CONNECT EMERGENCY LIGHTING IN EACH SPACE TO CIRCUITS AS NOTED BELOW:
   - LP-1W-EC - 1: CORRIDOR 18.04
   - LP-1W-EC - 2: ROOMS 2.01, 2.02, 2.03, 2.04, 2.005, 2.05, 2.06
   - LP-1W-EC - 3: ROOMS 2.004, 2.07, 2.08, 3.01, 3.02
   - LP-1W-EC - 4: ROOMS 2.001, 2.006, 2.007, 2.010, 2.012, 2.013, 2.015, 2.018
   - LP-1W-EC - 5: CORRIDOR 18.05, 3166, WAITING 2.011
   - LP-1W-EC - 6: ROOMS 2.016, 2.017, 2.019, 2.022, 14.01, 14.02, 14.03, 14.04, 14.05

Chorley + Bisset
CONSULTING ENGINEERS
201 QUEENS AVE., UNIT 800 LONDON ON, N6A 1J1
250 CITY CENTRE AVE., SUITE 403 OTTAWA ON, K1R 6K7

Key Plan



KEY PLAN
NTS

13	ISSUED FOR ADDENDUM #3			2024.07.05
12	ISSUED FOR ADDENDUM #2			2024.06.21
10	ISSUED FOR TENDER			2024.04.07
9	ISSUED FOR PRE-TENDER			2024.05.27
7	ISSUED FOR BUILDING PERMIT			2024.03.28
6	ISSUED FOR STAGE 2.3 MOH SUBMISSION			2024.02.23
5	ISSUED FOR COSTING AND GGH REVIEW			2023.12.21
4	ISSUED FOR 60% CONSTRUCTION DOCUMENTS			2023.10.26
3	ISSUED FOR MOH STAGE 2.2 SUBMISSION	C&B	C&B	2023.06.09
2	ISSUED FOR DD COSTING AND CLIENT REVIEW	C&B	C&B	2023.03.29
1	ISSUED FOR 100% SCHEMATIC DESIGN	C&B	C&B	2022.11.02
	Issued/Revision		By	Appd YYYY.MM.DD

File Name: N/A	AS	AS	MFM 2024.06.07
	Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Permit/Seal

Client/Project Logo

GUELPH GENERAL HOSPITAL

Client/Project

GUELPH GENERAL HOSPITAL

EMERGENCY MENTAL HEALTH AND ADDICTIONS SERVICES RELOCATION AND EMERGENCY DEPARTMENT EXPANSION

115 DELHI ST, GUELPH, ON, N1E 4J4

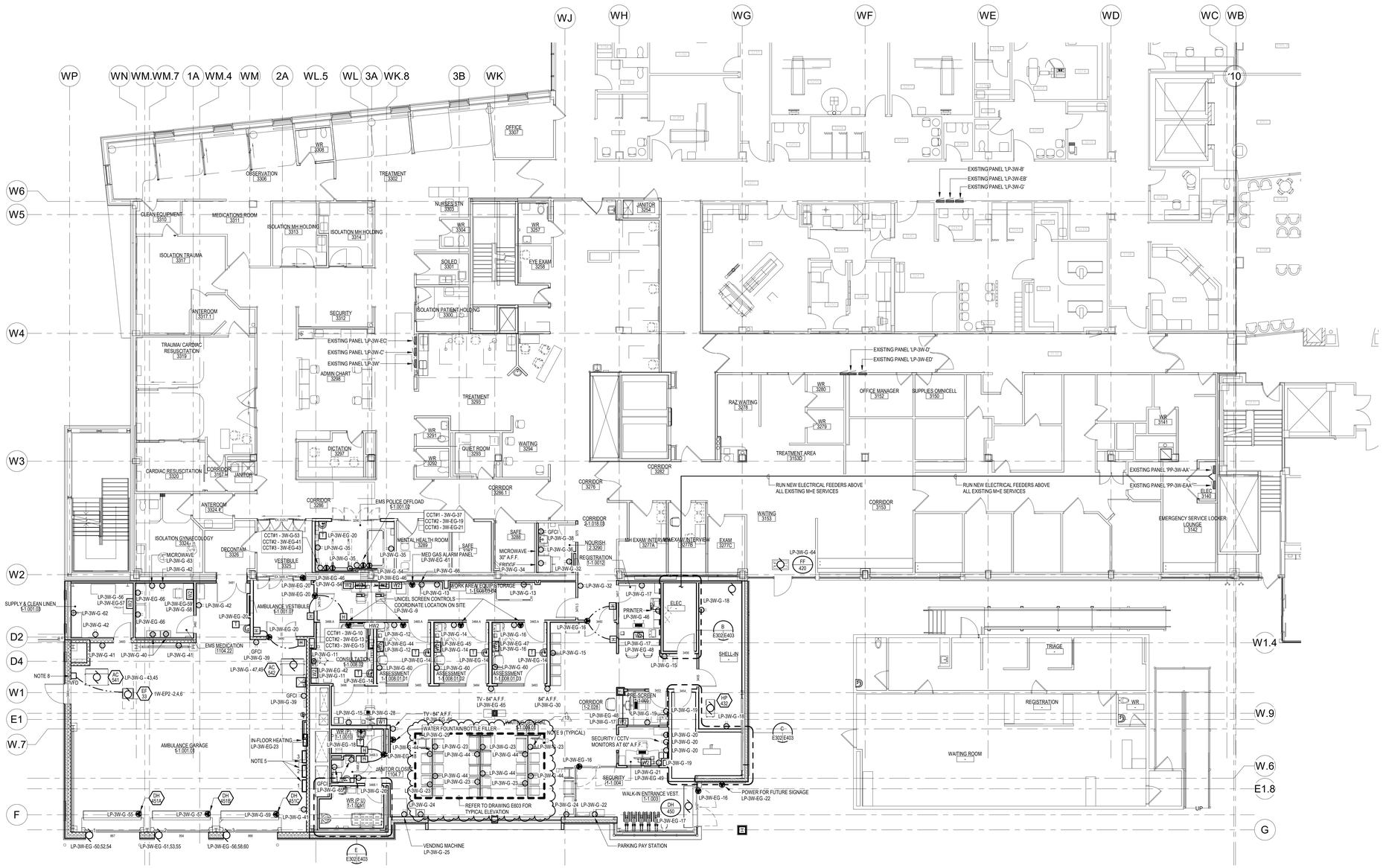
Title

PHASE 1 - PART LEVEL 1 FLOOR PLAN - LIGHTING AND FIRE ALARM

Project No.	Scale
9609	1 : 100
Revision 13	Drawing No. E201

7/3/2024 8:46:28 AM

ORIGINAL SHEET - ISO A0



PHASE 1 - PART LEVEL 3 FLOOR PLAN - POWER

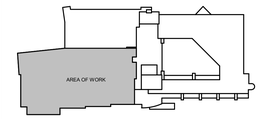
SCALE 1 : 100

NOTES:

1. NOT USED.
2. COORDINATE ACCESS CONTROLS, PANIC ALARMS, AND CCTV WITH BULLDOG SECURITY AND OWNER. REFER TO SPECIFICATION.
3. COORDINATE ALL DEVICE LOCATIONS WITH GGH PRIOR TO ROUGH-IN.
4. ALL CLOCKS TO BE LOCATED AS SITE DIRECTED PRIOR TO ROUGH-IN.
5. PROVIDE A DEDICATED 15A 3P CIRCUIT FOR EACH GARAGE DOOR CONTROLLER. WIRE TO EACH 3PH FOOR MOTOR.
6. SEE HEADWALL ELEVATION HW-1 DETAIL ON DRAWING E602.
7. REFER TO PATIENT CARE ROOM CLASSIFICATION TABLE ON DRAWING E101. WIRE ALL DEVICES (POWER AND LIGHTING) TO PATIENT CARE STANDARDS IN ROOM AS NOTED.
8. PROVIDE SMOKE EVAC CONTROLS FOR EF-33. SEE DETAIL ON E601.
9. PROVIDE WIREMOLD FROM CEILING DOWN TO RECEPTACLES AS SHOWN IN DETAIL FOR 6 LOCATIONS.

Chorley + Bisset
CONSULTING ENGINEERS
201 QUEENS AVE., UNIT 800
LONDON ON, N6A 1J1
250 CITY CENTRE AVE., SUITE 403
OTTAWA ON, K1R 6K7

Key Plan



KEY PLAN
NTS

13	ISSUED FOR ADDENDUM #3			2024.07.05
10	ISSUED FOR TENDER			2024.06.07
9	ISSUED FOR PRE-TENDER			2024.05.27
7	ISSUED FOR BUILDING PERMIT			2024.03.28
6	ISSUED FOR STAGE 2.3 MOH SUBMISSION			2024.02.23
5	ISSUED FOR COSTING AND GGH REVIEW			2023.12.21
4	ISSUED FOR 40% CONSTRUCTION DOCUMENTS			2023.10.24
3	ISSUED FOR MOH STAGE 2.2 SUBMISSION	C&B	C&B	2023.06.09
2	ISSUED FOR DD COSTING AND CLIENT REVIEW	C&B	C&B	2023.03.29
1	ISSUED FOR 100% SCHEMATIC DESIGN	C&B	C&B	2022.11.02
Issued/Revision		By	Appd	YYYY.MM.DD
File Name: N/A		AS	AS	MFM 2024.04.07
		Dwn.	Dsgn.	Chkd. YYYY.MM.DD

Permit/Seal

Client/Project Logo

GUELPH GENERAL HOSPITAL

Client/Project

GUELPH GENERAL HOSPITAL

EMERGENCY MENTAL HEALTH AND ADDICTIONS SERVICES RELOCATION AND EMERGENCY DEPARTMENT EXPANSION

115 DELHI ST, GUELPH, ON, N1E 4J4

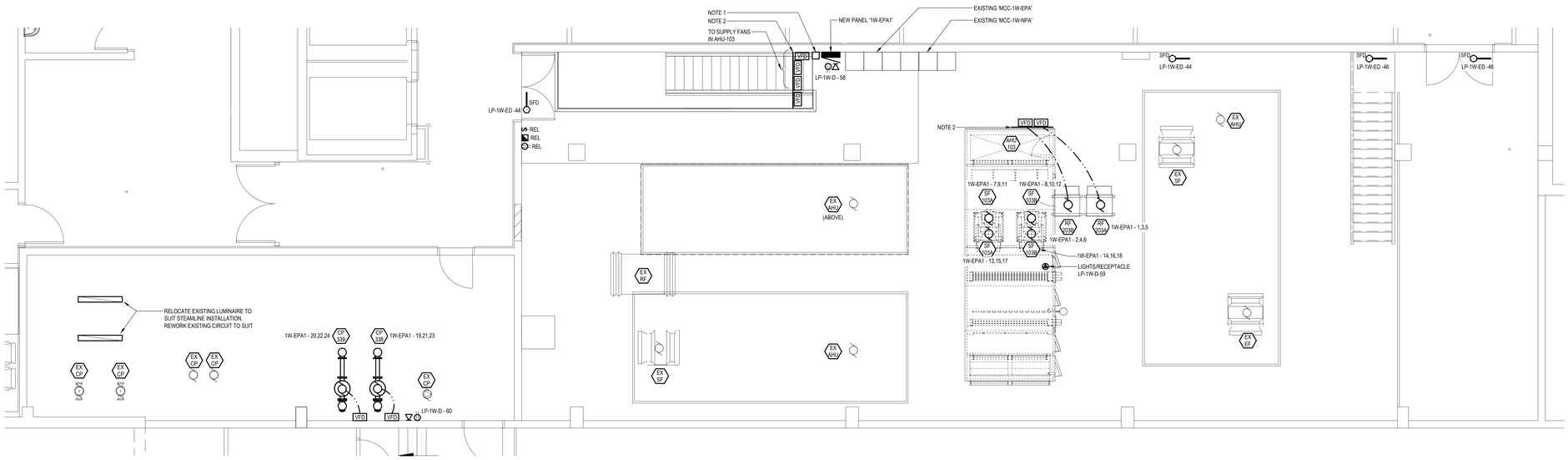
Title

PHASE 1 - PART LEVEL 3 FLOOR PLAN - POWER

Project No.	Scale
9609	1 : 100
Revision	Drawing No.
13	E302

7/17/2024 8:47:57 AM

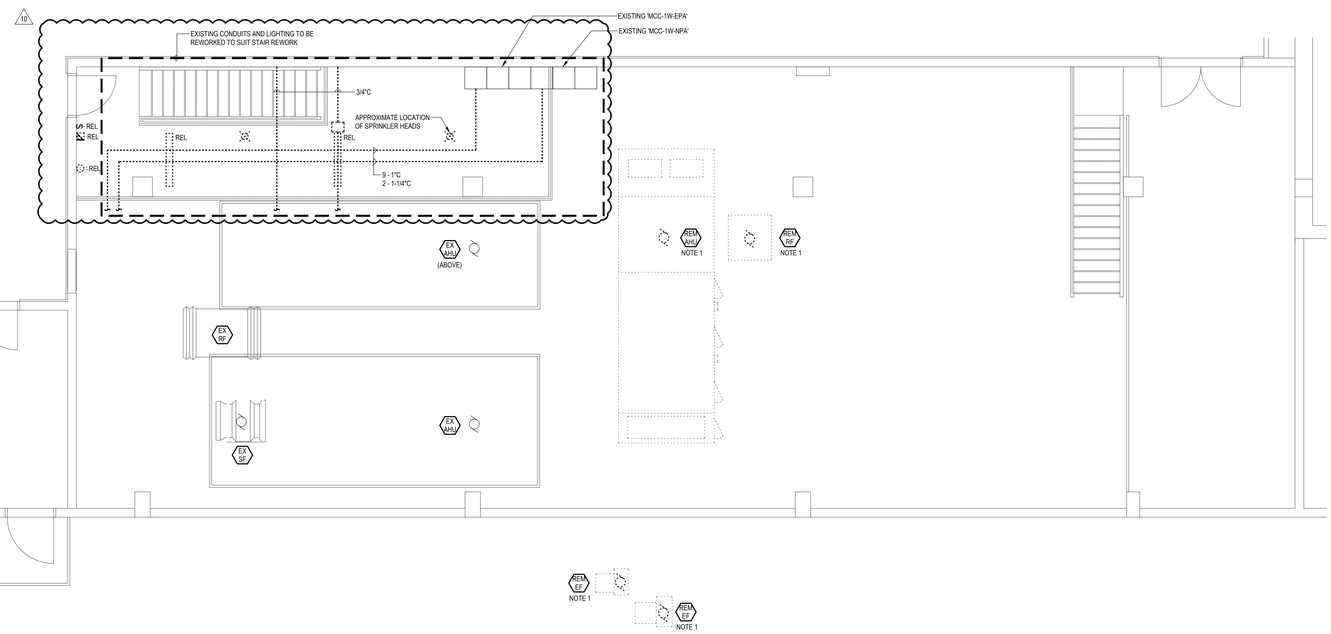
ORIGINAL SHEET - ISO A0



LEVEL 1 WEST MECHANICAL ROOM - ELECTRICAL

SCALE: 1:50

1. PROVIDE SMOKE EVAC FAN CONTROLS HERE. REFER TO DETAIL ON E601. PROVIDE ALL FIRE ALARM CONTROL AND MONITOR MODULES IN A SINGLE LOCATION. SEE DETAILS ON DRAWING E601.
2. MOUNT EQUIPMENT TO PLYWOOD BACKBOARD. PROVIDE PLYWOOD G1S C/W FIRE RETARDANT PAINT. PROVIDE UNISTRUT FRAME TO SUIT.



LEVEL 1 WEST MECHANICAL ROOM - ELECTRICAL DEMOLITION

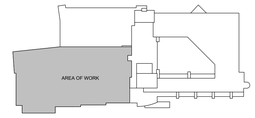
SCALE: 1:50

NOTES:

1. DISCONNECT AND MAKE SAFE FOR REMOVAL BY DIVISION 25. REMOVE ALL REDUNDANT CABLING, CONDUIT, STARTERS, AND DISCONNECTS.

Chorley+Bisset
CONSULTING ENGINEERS
201 QUEENS AVE., UNIT 800
LONDON ON, N6A 1J1
250 CITY CENTRE AVE., SUITE 403
OTTAWA ON, K1R 6K7

Key Plan



KEY PLAN
NTS

10	ISSUED FOR ADDENDUM #3			2024.07.03
9	ISSUED FOR TENDER			2024.06.07
8	ISSUED FOR PRE-TENDER			2024.05.27
7	ISSUED FOR BUILDING PERMIT			2024.03.28
6	ISSUED FOR STAGE 2.3 MOH SUBMISSION			2024.02.23
5	ISSUED FOR COSTING AND GGH REVIEW			2023.12.21
4	ISSUED FOR 60% CONSTRUCTION DOCUMENTS			2023.10.26
3	ISSUED FOR MOH STAGE 2.2 SUBMISSION	C&B	C&B	2023.06.09
2	ISSUED FOR DD COSTING AND CLIENT REVIEW	C&B	C&B	2023.03.29
1	ISSUED FOR 100% SCHEMATIC DESIGN	C&B	C&B	2022.11.02
Issued/Revision		By	Appd	YYYY.MM.DD

File Name: Dwn. Dsgn. Chkd. 2024.06.07 YYYY.MM.DD

Permit/Seal

Client/Project Logo

GUELPH GENERAL HOSPITAL

Client/Project

GUELPH GENERAL HOSPITAL

EMERGENCY MENTAL HEALTH AND ADDICTIONS SERVICES RELOCATION AND EMERGENCY DEPARTMENT EXPANSION

115 DELHI ST, GUELPH, ON, N1E 4J4

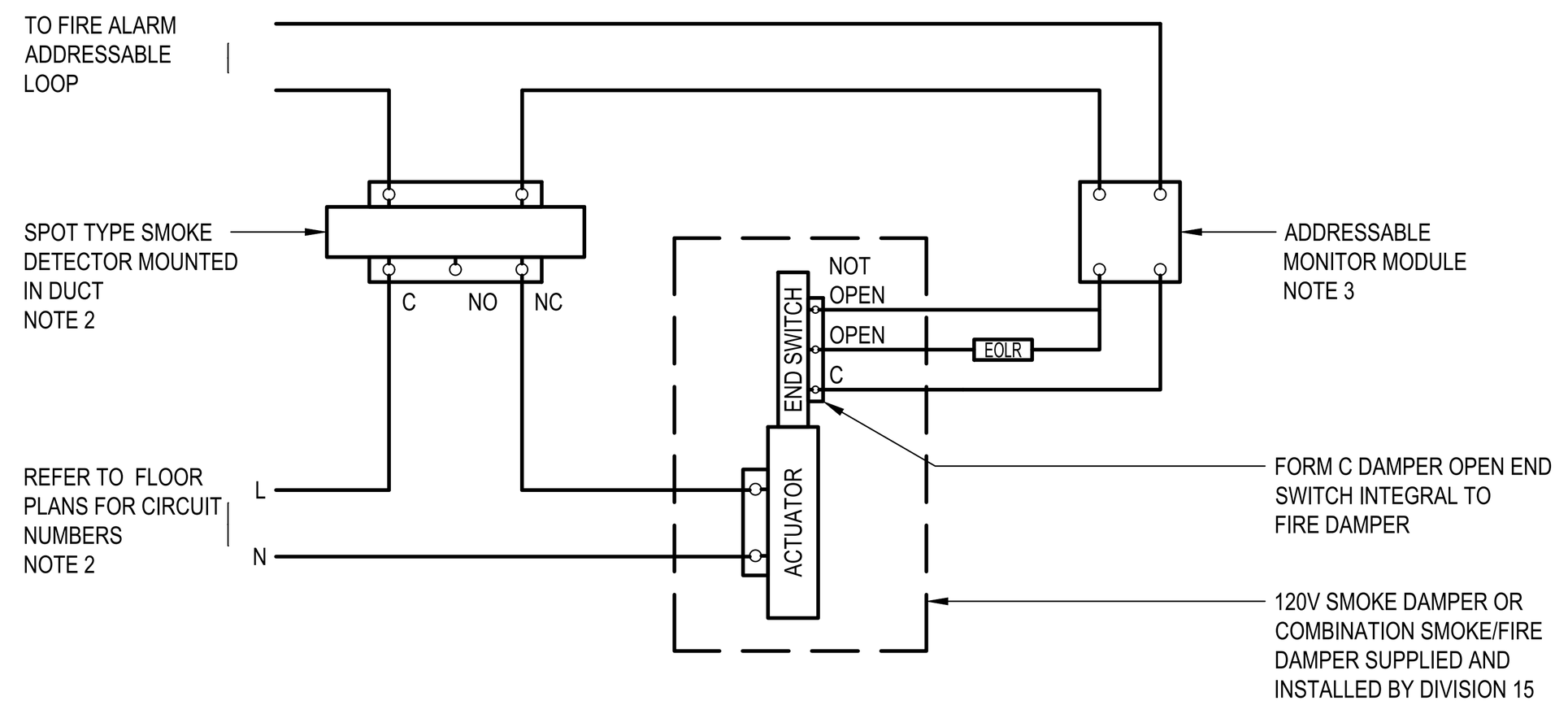
Title

PHASE 1 - LEVEL 1
MECHANICAL ROOM DETAILS

Project No. 9609 | Scale

Revision | Drawing No. **E404**

ORIGINAL SHEET - ISO A0



SMOKE DAMPER SCHEMATIC

N.T.S.

NOTES:

1. REFER TO FIRE ALARM FLOOR PLAN DRAWINGS FOR CIRCUIT NUMBERS AND LOCATIONS OF SMOKE OR COMBINATION SMOKE FIRE DAMPERS.
2. GROUP SMOKE DAMPER END SWITCHES ZONES ON PER FLOOR BASIS. ACTIVATION TO INITIATE SUPERVISORY ALARM. NAME ZONES AS FOLLOWS:

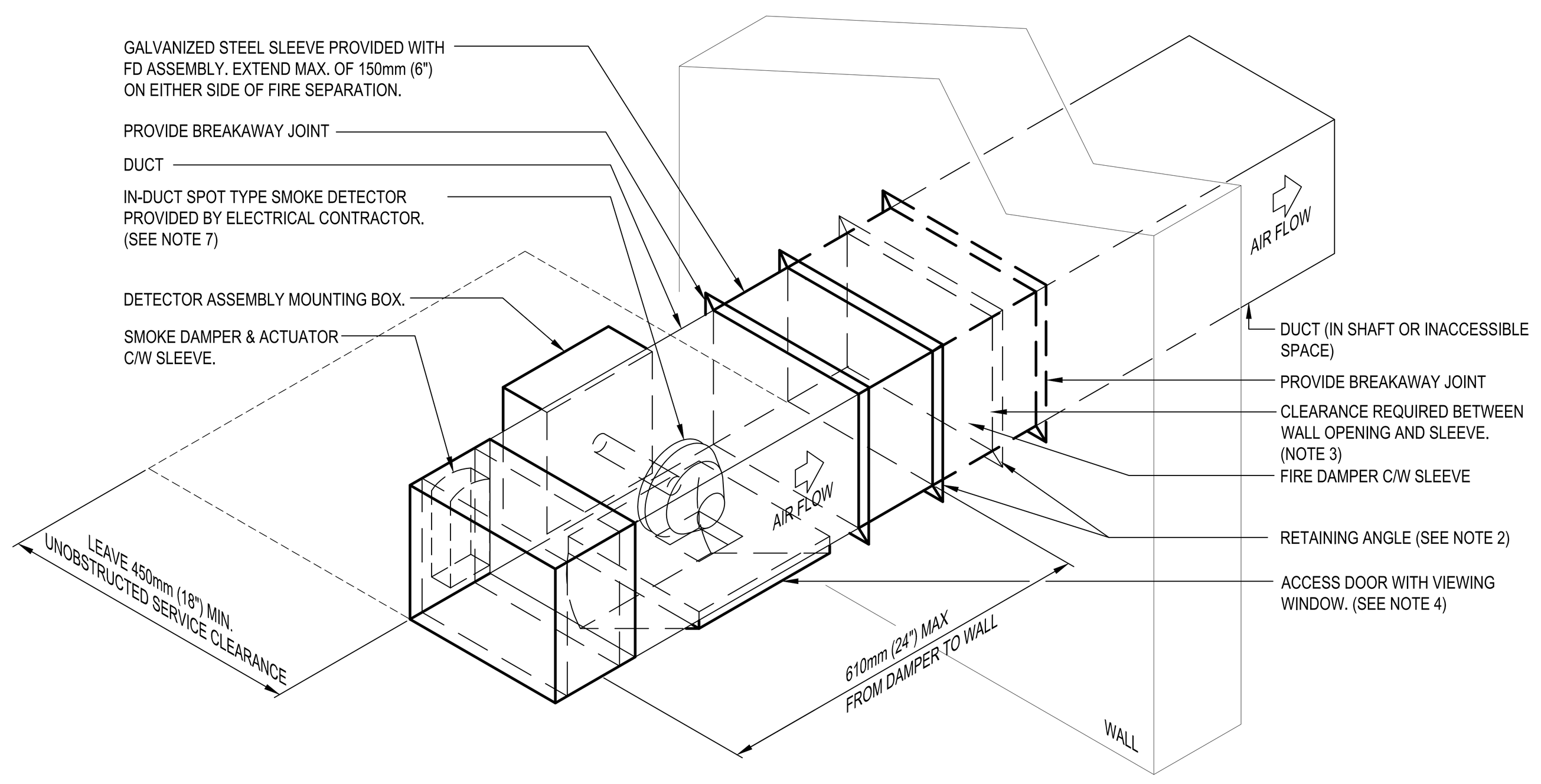
   FLOOR x SMOKE DAMPER(S) - DAMPER CLOSED
   EG: FLOOR 1 SMOKE DAMPER(S) - DAMPER CLOSED

   PROGRAM EACH DEVICE DESCRIPTOR AS FOLLOWS:

   DMPR LOC'N xxxxxx (SRVS xxxxx) - DAMPER CLOSED
   EG: DMPR RM 217 (SRVS RM 218) - DAMPER CLOSED
3. SMOKE DAMPER SMOKE DETECTORS TO INITIATE SUPERVISORY ALARM (NOT GENERAL ALARM) ON THE SAME ZONE AS THE DAMPER END SWITCH INDICATED IN NOTE 2.

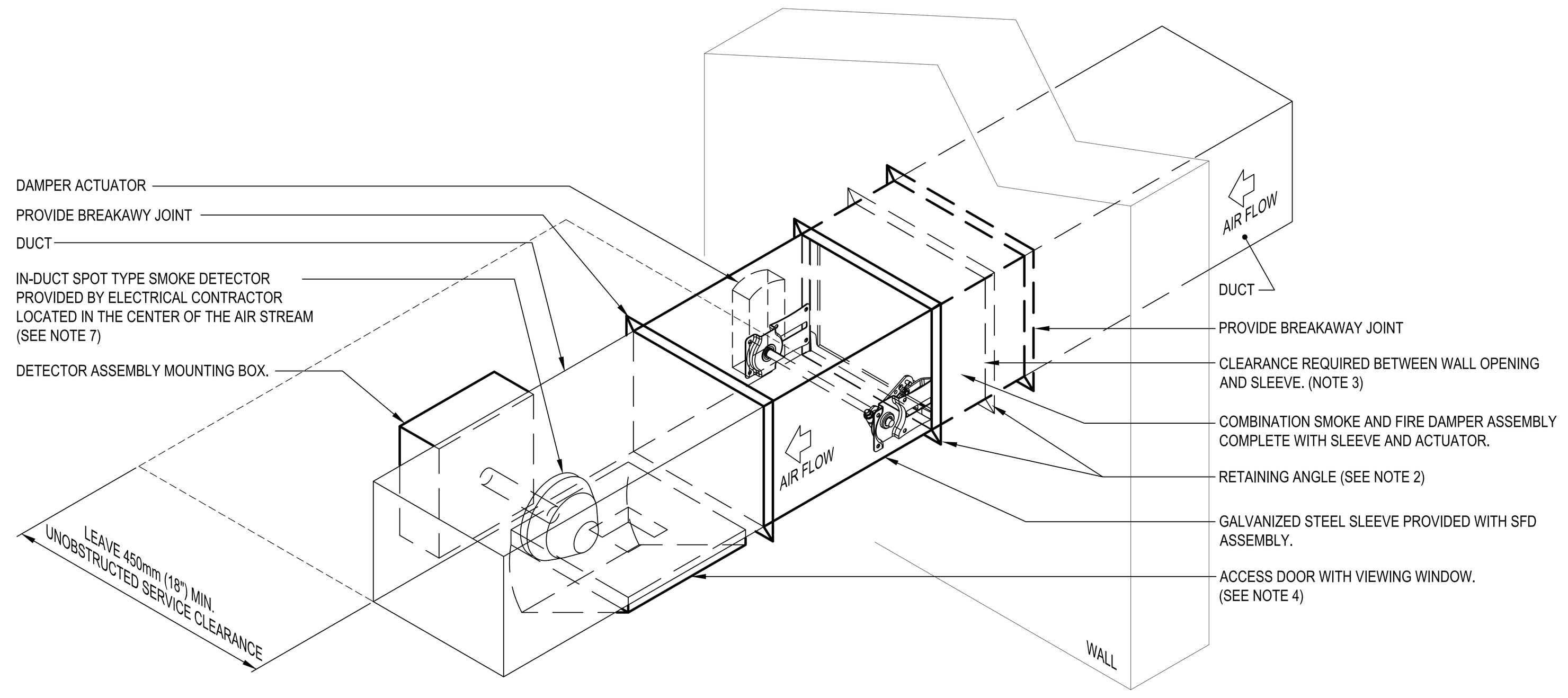
   PROGRAM EACH DEVICE DESCRIPTOR AS FOLLOWS:

   DMPR LOC'N XXXXXX (SRVS XXXXX) - SMOKE ALARM
   EG: DMPR RM 217 (SRVS RM 218) - SMOKE ALARM
4. PROVIDE BREAKER LOCKS ON ALL CIRCUITS SERVING SMOKE DAMPERS.
5. ALL WIRING BY DIVISION 26.
6. SPOT TYPE DETECTORS TO BE CONVENTIONAL TYPE BY SIEMENS.



SMOKE DAMPER AND FIRE DAMPER INSTALLATION AT RATED SEPARATION WALL

N.T.S.

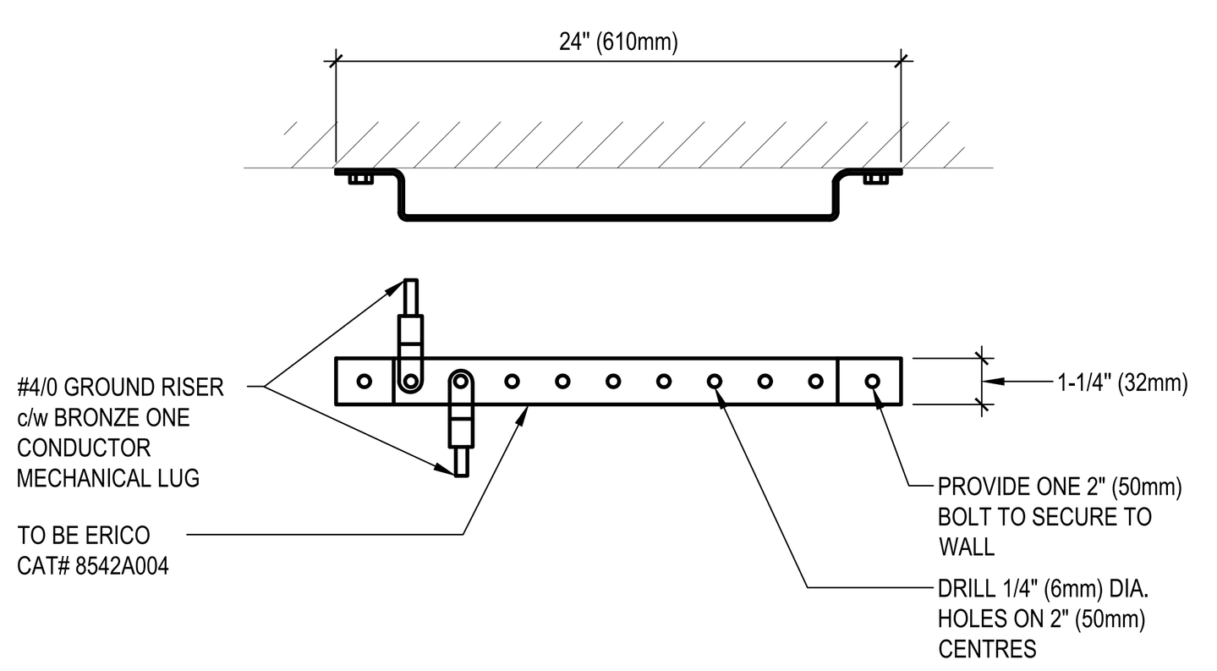


COMBINATION SMOKE AND FIRE DAMPER INSTALLATION AT RATED SEPARATION WALL

N.T.S.

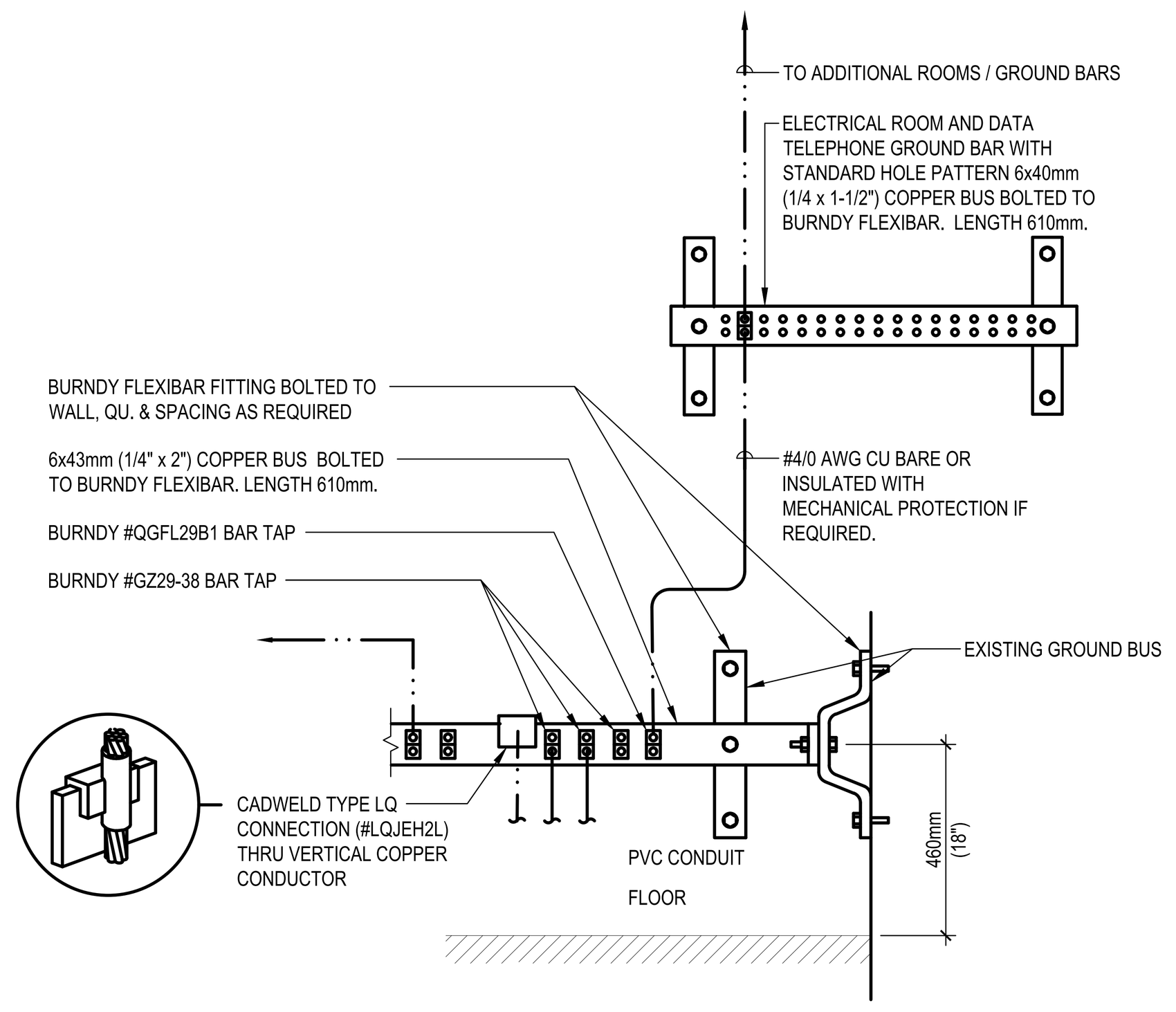
GENERAL NOTES:

1. SMOKE DETECTOR MUST BE INSTALLED DOWNSTREAM OF SMOKE DAMPER PER OBC 3.1.8.9A(3)b, IN AN ACCESSIBLE LOCATION FOR SERVICE AND TESTING. WHERE THE DUCTWORK DOWNSTREAM OF THE FIRE SEPARATION IS ACCESSIBLE THE COMBINATION SMOKE AND FIRE DAMPER DETAIL (SHOWN ON THE LEFT) WILL APPLY. WHERE THE DUCTWORK DOWNSTREAM OF THE FIRE SEPARATION IS NOT ACCESSIBLE (IN A SHAFT FOR INSTANCE) THE SMOKE DAMPER AND FIRE DAMPER INSTALLATION DETAIL (SHOWN ON THE RIGHT) WILL APPLY.
2. PROVIDE RETAINING ANGLES IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS - MINIMUM 40 x 40 x 1.37mm (1 1/2" x 1 1/2" x 0.54" (16 GA)). ANGLES TO OVERLAP STRUCTURE A MINIMUM OF 25mm (1") ALL SIDES.
3. PROVIDE 10mm (1/8") PER LINEAL M (FT) CLEARANCE ON ALL SIDES, OR AS SPECIFIED IN ULC DETAIL.
4. INSTALL HINGED ACCESS DOOR WITH VIEWING WINDOW ON BOTTOM OF DUCT.
5. INSTALL SMOKE DETECTOR OFFSET FROM CENTRE OF ACCESS DOOR TO ALLOW FOR EASY SERVICE ACCESS, BUT ALSO ALLOW CLEARANCE FOR INSPECTION OF DAMPER THROUGH THE ACCESS DOOR.
6. DAMPER TO BE POWERED OPEN AND TO CLOSE UPON SMOKE DETECTION OR BY HEAT ACTUATOR RELEASE DEVICE. DAMPER COMPLETE WITH TEST SWITCH AND POSITION INDICATING LEDS.
7. PROVIDE ADDITIONAL SPOT TYPE DUCT DETECTORS FOR DUCTS WITH ONE OR MORE DIMENSIONS EXCEEDING 915mm x 915mm (36" x 36") SUCH THAT EACH DETECTOR COVERS A CROSS SECTIONAL AREA NOT EXCEEDING 915mm x 915mm (36" x 36"). SPORT TYPE DETECTORS TO BE CONVENTIONAL TYPE BY SIEMENS.
8. MECHANICAL TRADES ARE RESPONSIBLE FOR TESTING DAMPER OPERATION PRIOR TO FIRE ALARM VERIFICATION. ELECTRICAL TRADES ARE RESPONSIBLE FOR INTEGRATED TESTING OF ASSEMBLY. REFER TO SPECIFICATIONS.
9. MANUFACTURER U.L. APPROVED INSTALLATION PROCEDURES MUST BE FOLLOWED.
10. SMOKE DAMPERS FOR TRANSFER DUCTS MUST BE INSTALLED WITHIN THE PLANE OF THE FIRE SEPARATION PER OBC.



ELECTRICAL ROOM AND I.T. GROUND BUS DETAIL

N.T.S.

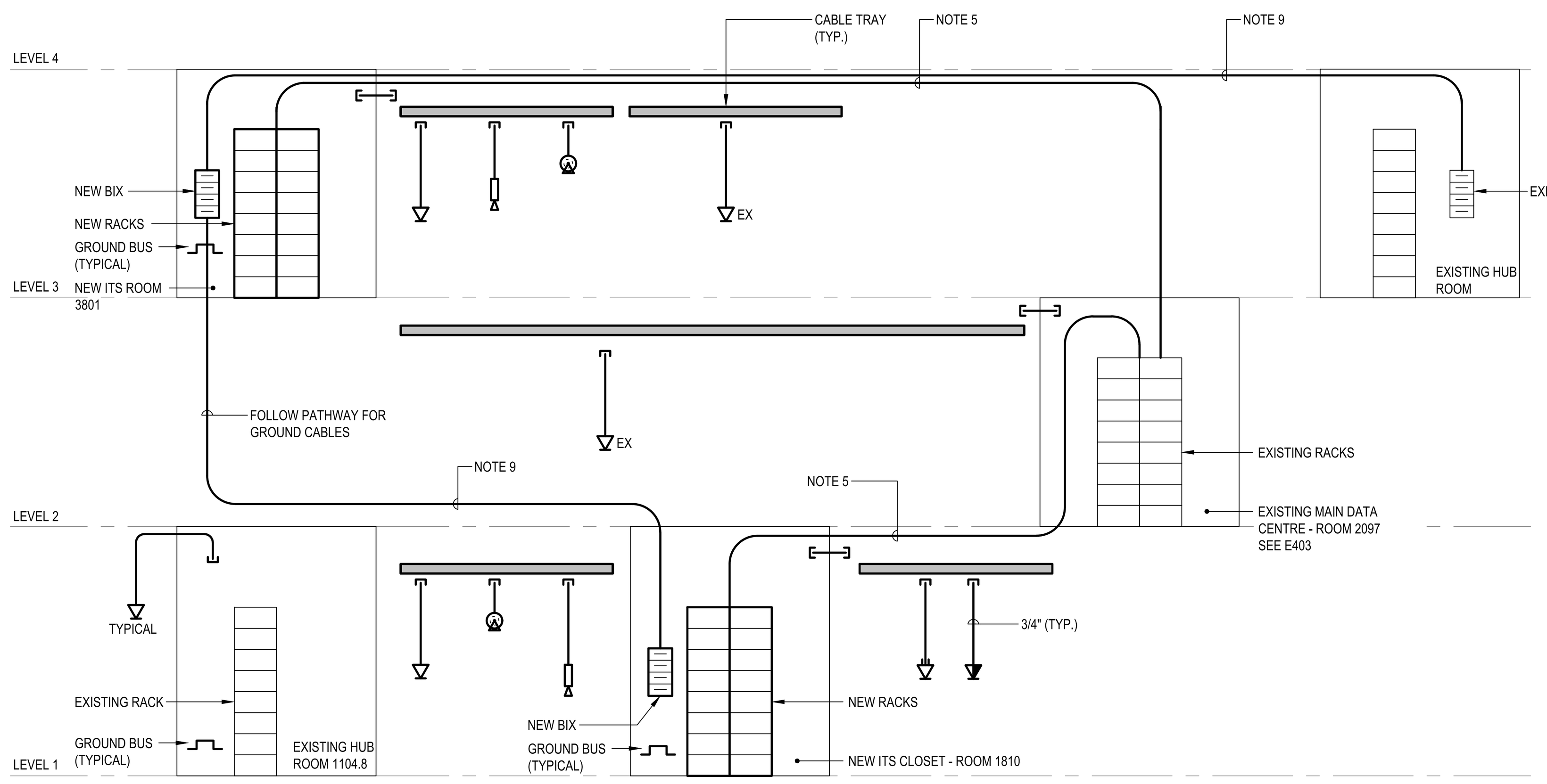


GROUNDING BONDING ARRANGEMENT

N.T.S.

NOTES:

1. USE LARGE RADIUS BENDS ON ALL GROUNDING AND BONDING CONDUCTORS.
2. REFER TO FLOOR PLANS FOR LOCATIONS OF GROUND BUS.
3. PROVIDE ADDITIONAL GROUND ELECTRODES IF REQUIRED TO LOWER RESISTANCE TO GROUND BELOW 5 OHM.



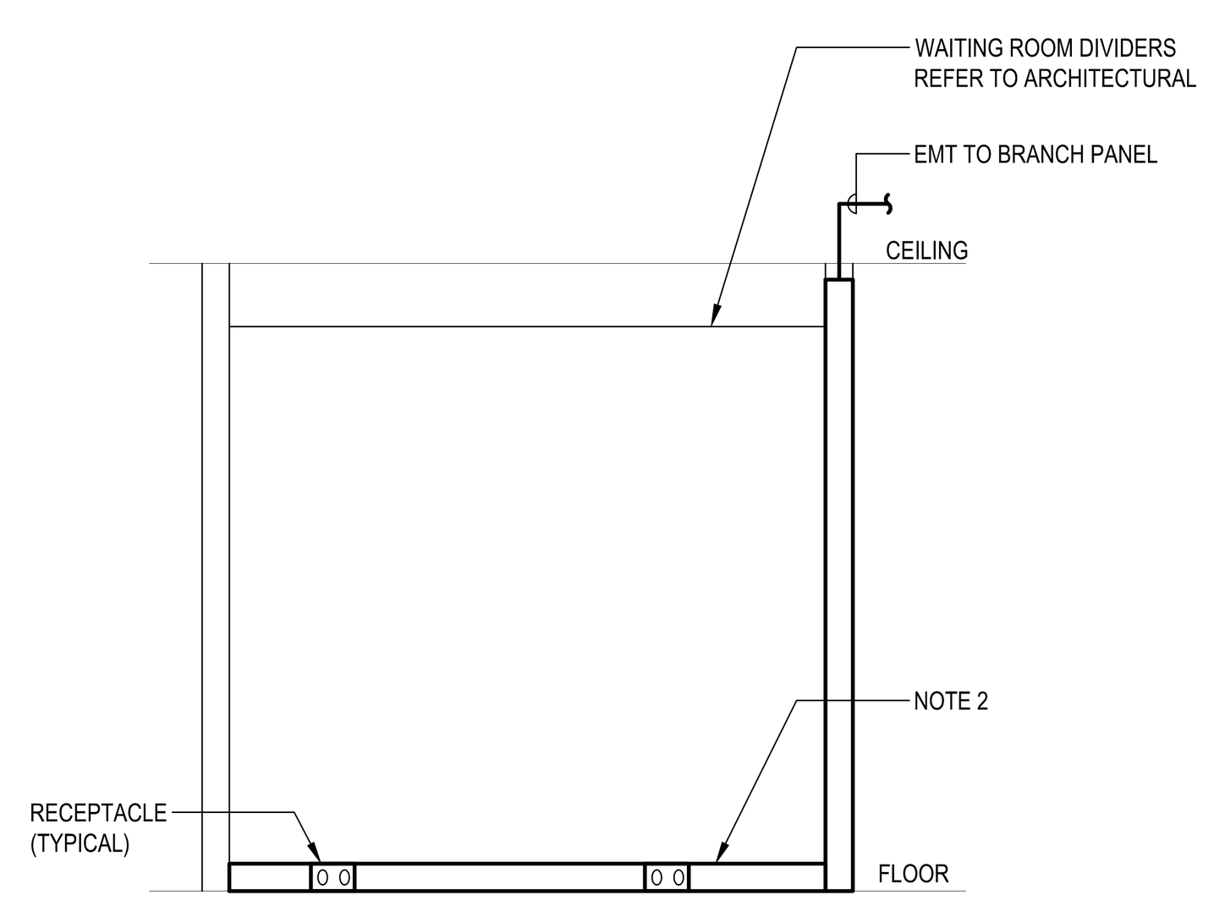
STRUCTURED CABLING RISER

N.T.S.

NOTES:

1. PROVIDE PULL CORDS IN ALL CONDUITS REFER TO SPECIFICATION FOR ALL CABLING REQUIREMENTS.
2. SEE FLOOR PLANS FOR LOCATION. REFER TO SPECIFICATIONS FOR ADDITIONAL CLOSET AND RACK DETAILS.
3. PROVIDE I.T. GROUND BUS IN COMMUNICATIONS ROOMS. REFER TO SPECIFICATIONS AND GROUNDING DETAIL.
4. MINIMUM CONDUIT SIZE IS 21mm. REFER TO SPECIFICATION SECTION 27 05 28 FOR CONDUIT SIZES.
5. PROVIDE 12 STRAND OM4 FIBRE. TERMINATE BOTH ENDS ON FIBRE EXPRESS PATCH PANELS. PROVIDE 1-1/2" EMT FOR ENTIRE RUN. RUN BOTH CONDUITS TO THE LEVEL 2 ELECTRICAL ROOM. PROVIDE PULL BOXES EVERY 50'.
6. SEE RACK ELEVATIONS ON THIS SHEET.
7. PROVIDE CROSS CONNECT FROM PUNCH DOWN TO VOICE PATCH PANEL.
8. CABLING SYSTEM: CAT 6 - PROVIDE COMPLETE CAT 6 CABLING SYSTEM.
9. PROVIDE A 12 STRAND CAT 5e FROM EXISTING BIX IN EXISTING HUB ROOM AND TERMINATE ON NEW BIX IN NEW ITS ROOMS 3801 AND 1104B.

10

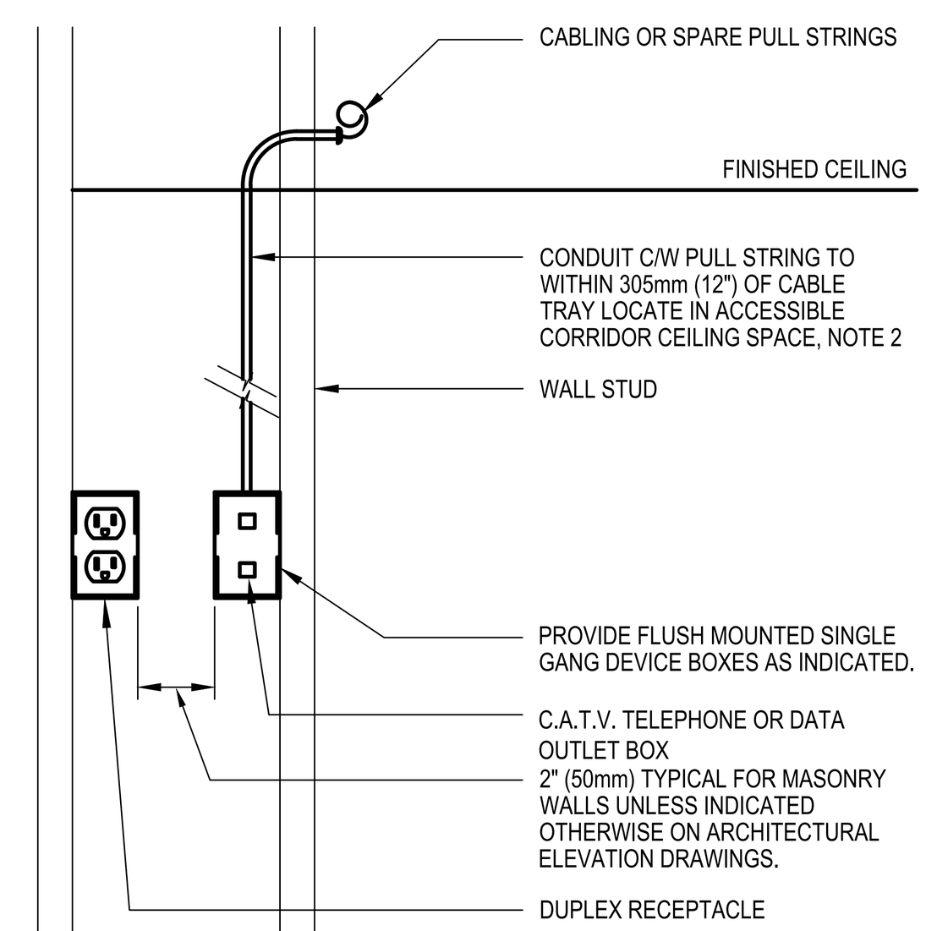


TYPICAL WAITING ROOM DIVIDER SURFACE MOUNT RACEWAY ELEVATION

N.T.S.

NOTES:

1. REFER TO FLOOR PLANS FOR LOCATION AND QUANTITY OF DEVICES AND CIRCUITING.
2. PROVIDE WIREMOLD 3000 SERIES PRE-WIRED STEEL RACEWAY OR EQUIVALENT. PROVIDE ALL FITTINGS, ACCESSORIES, WORK, AND MATERIALS FOR A COMPLETE INSTALLATION.

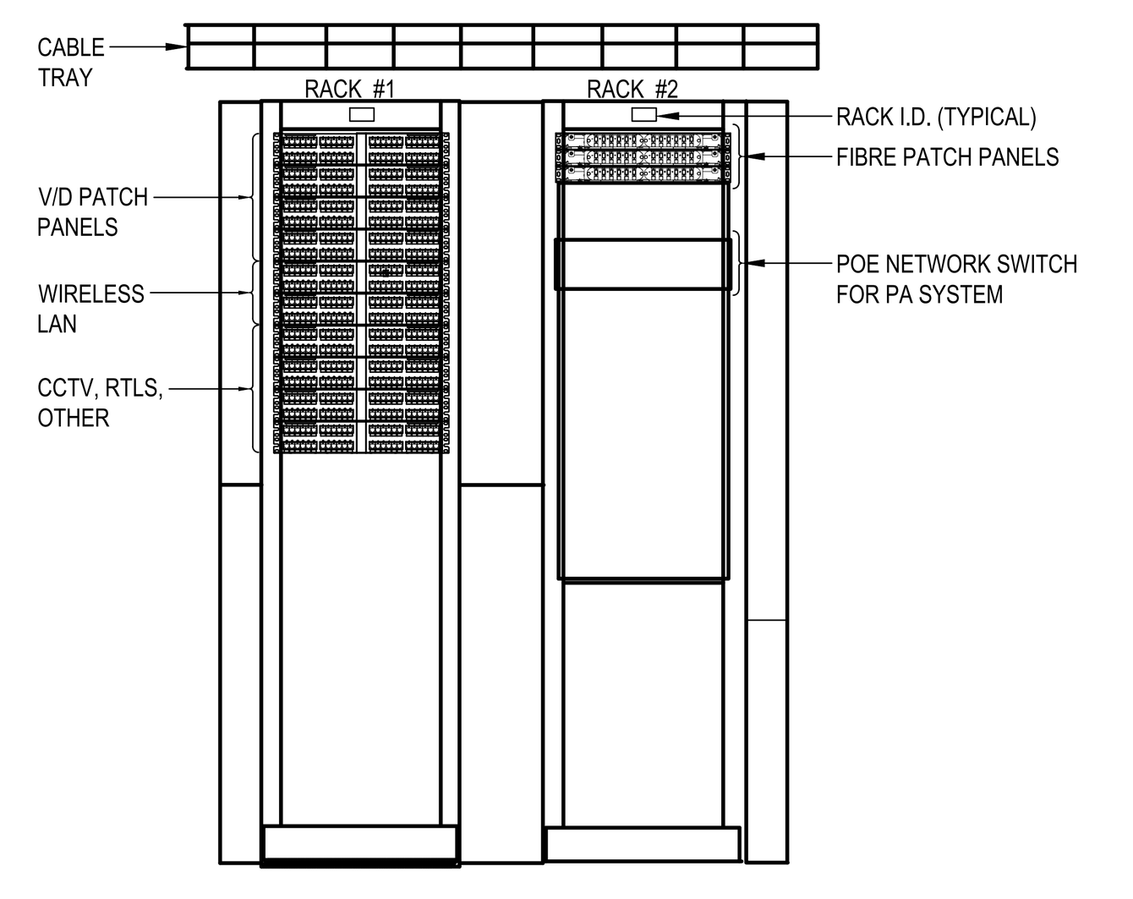


TYPICAL COMMUNICATION OUTLET AND RECEPTACLE MOUNTING

N.T.S.

NOTES:

1. REFER TO FLOOR PLANS FOR LOCATION, TYPE AND QUANTITY OF DEVICES.
2. REFER TO SPECIFICATION FOR COMMUNICATION CONDUIT SIZES.

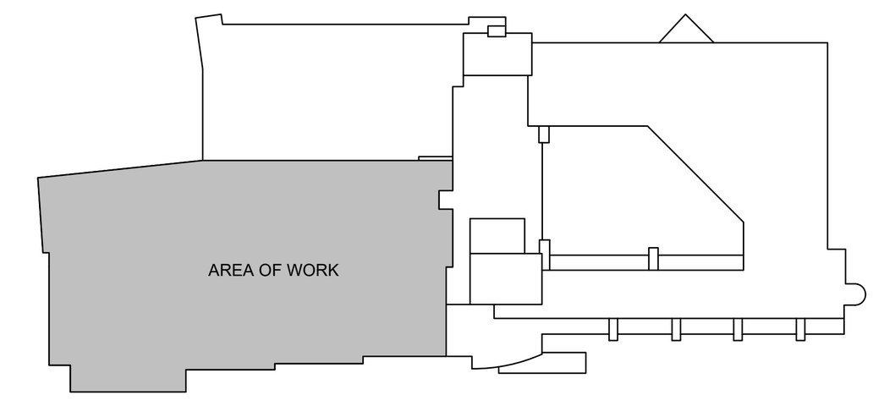


TYPICAL IT ROOM RACKS

N.T.S.

Chorley+Bisset
CONSULTING ENGINEERS
201 QUEENS AVE., UNIT 800
LONDON ON, N6A 1J1
250 CITY CENTRE AVE., SUITE 403
OTTAWA ON, K1R 6K7

Key Plan



KEY PLAN
NTS

10	ISSUED FOR ADDENDUM #3			2024.07.03
9	ISSUED FOR TENDER			2024.06.07
8	ISSUED FOR PRE-TENDER			2024.05.27
7	ISSUED FOR BUILDING PERMIT			2024.03.28
6	ISSUED FOR STAGE 2.3 MOH SUBMISSION			2024.02.23
5	ISSUED FOR COSTING AND GGH REVIEW			2023.12.21
4	ISSUED FOR 60% CONSTRUCTION DOCUMENTS			2023.10.26
3	ISSUED FOR MOH STAGE 2.2 SUBMISSION	C&B	C&B	2023.06.09
2	ISSUED FOR DD COSTING AND CLIENT REVIEW	C&B	C&B	2023.03.29
1	ISSUED FOR 100% SCHEMATIC DESIGN	C&B	C&B	2022.11.02
Issued/Revision		By	Appd	YYYY.MM.DD

File Name:	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
				2024.06.07

Permit/Seal

LICENSED PROFESSIONAL ENGINEER
M. F. MYATT
100097735
PROVINCE OF ONTARIO

Client/Project Logo

GUELPH GENERAL HOSPITAL

Client/Project
GUELPH GENERAL HOSPITAL
EMERGENCY MENTAL HEALTH AND ADDICTIONS SERVICES RELOCATION AND EMERGENCY DEPARTMENT EXPANSION
115 DELHI ST, GUELPH, ON, N1E 4J4

Title
ELECTRICAL DETAILS

Project No. 9609
Scale AS NOTED
Revision
Drawing No. E603

Questions and Responses			
Question #	**Question**	**Response**	**Addendum # of response**
1	Will the hospital be issuing any prequalified trades for this tender?	No, we do not have prequalified trades. (We could however post our preferred vendors for some trades?	N/A
2	Does this certification have to be in place at time of closing, or can it be achieved if awarded the tender prior to construction start-up?	This is a Mandatory Requirement and must be in place at Tender closing for proponents to be considered.	N/A
3	Could you please provide the list of GC's and subcontractors that attended the mandatory walkthrough?	Yes, this has been posted on Bonfire.	N/A
4	Limitation of Liability and Waiver of Consequential Damages – CCDC 2(2020) contains a limitation of liability and waiver of consequential damages, but these may be limited to indemnity obligations as such limitation and waiver only reference GC 13.1.1. However, GC 13.1.2 has been deleted in its entirety with new proposed language added in the Supplementary Conditions. The Proponent requests the reinstatement of GC 13.1.2 with a revision as follows "The obligation of either party to indemnify as set forth in paragraph 13.1.1 and for any other claims, liabilities, costs and damages shall be limited as follows:" A limitation of liability and waiver of consequential damages are of paramount	The Hospital is not prepared to accept the proposed change; however, the Hospital has made some changes to GC 13.1.1 in the attached updated Supplementary Conditions.	**#3**
5	CCDC 2(2020) contains a fault-based indemnity that is limited to direct damages. The GC 13.1 indemnification changes in the Supplementary Conditions replace that indemnity with a performance-based indemnity in favour of both the Owner and the Consultant. The Proponent requests the reinstatement of the indemnity found in GC 13.1.1 of CCDC 2 (2020).	The Hospital is not prepared to accept the proposed change; however, the Hospital has made some changes to GC 13.1.1 in the attached updated Supplementary Conditions.	**#3**
6	6.Force Majure – The Proponent requests that GC 6.5.3.3 not be deleted, but that it be revised as follows ".3 abnormally adverse weather conditions, epidemics, and pandemics, or".	The Hospital is prepared to accept the proposed change and has modified GC 6.5.3.3 in the attached updated the Supplementary Conditions to read as follows:	**#3**
7	Site Conditions – GC 6.4.1 of CCDC 2 (2020) grants the Contractor relief to the extent that site conditions differ from those indicated in the Contract documents. Supplementary Conditions 6.4.1; 6.4.5; and 6.4.6 add ambiguity to that concept as it requires the Contractor to investigate the place of work. The Proponent requests the replacement of GC 6.4.1 in CCDC 2 (2020) and that Supplementary Conditions GC 6.4.5 and GC 6.4.6 not be added	The Hospital does not agree with the comment raised and is not prepared to accept the proposed revisions. However, the Hospital has made a change to GC 6.4.1 in the attached updated Supplementary Conditions.	**#3**
8	As per a previous response, there are to be no prequalified contractors working on this project. However, when reviewing Division 28 Security, it appears that all work will be completed by Bulldog Security. If there are no prequalified contractors, is Division 28 Security available for all Security companies to submit a bid?	In order to ensure compatibility with the existing hospital security system, Bulldog Security is to be the vendor for this work.	N/A
9	What is the minimum score required in Stage 1 to advance to Stage 2?	As per specification section 00 21 13, article 1.19.7.5.1,The minimum score is 70 points in Stage 1 to proceed to Stage 2.	N/A
10	How many companies will advance to Stage 2 of the evaluation?	Any vendor that achieves a minimum score of 70 points in Stage 1 will advance to Stage 2.	N/A
~~11~~	~~From my email this morning , do we need to add something about how trades/other work is to be quoted for this project?)~~	~~na/~~	~~N/A~~
12	Change of dates officially noted in the addendum?	GGH to provide a preferred length of time for the evaluation. When that is confirmed, SAL will update Division 0.	**#3**
13	Please let us know the project budget in order for us to provide our reference projects and CCDC-11 accordingly.	All reference projects should be similar in scale and complexity to what has been tendered.	N/A
14	Please clarify which wall assembly should be applied for the parapet wall at Grid D2 (Drawing 3/A561)	Please refer to detail 1/A621, reference call out 3/A561 added in an upcoming addendum.	**#3**
15	The soffit between Grid W2 & D2 at Block 1 – Level 2 RCP is shown SF2. Please provide the wall assembly for SF2 if it is in the scope.	SF2 will be added to A001 in an upcoming addendum.	**#3**
16	Please provide the plan detail for the parapet corner joint above window. (Dwg-A303.1L, Grids WH & F)	The parapet at this corner is for the same wall type EC-CP-ST. Can you clarify what you are looking for/concerns?	N/A
17	Please clarify if temporary panels and continuous pre-finished formed metal bent plate removals are done by GC.	yes	N/A
18	Please let us know if perforated metal screen on roof is included in scope. Please provide material specifications and details.	Yes, it is inculded. Refer to details 1,5,&9/A631 in an upcoming addendum.	**#3**
19	Emailed question from Steris - I have been asked by a couple of electrical contractors to bid on some exam lights for Guelph General Hospital. It appears to be part of a larger renovation. I'm trying to get clarity on whether a structural amount will be required to hang these lights. Do you know who the general contractor is for the project. If I add structural amounts to all of the lights Cost to the hospital will be substantially larger. If they are already accounted for I will leave them out. I can't find detail on that in the electrical specifications.	- There is only one exam light in injection room 1090.1; the light doesn't need structure support and installation per the manufacturer's requirements and instructions. - Successful bidder to be selected - Installation per manufacturer will be added to addendum #3	**#3**
20	Re. HX-3A/3B , Spec Section 23 70 00- 2.3.1 : •The specified heat exchanger is rated for 250 PSIG while the steam safety valve serving these heat exchangers is set at 20 PSIG (138 kPa). Would it be acceptable to use a heat exchanger rated for 150 PSIG ? •Is AIC the only accepted heat exchanger manufacturer? Would it be possible to allow the use of plate & frame or shell & tube steam heat exchangers? Plate & frame has been serving the Guelph General Hospital for domestic hot water purpose.	We would accept Spirax Sarco shell and tube heat exchangers with a minimum 150 psig pressure rating in lieu of the specified AIC shell and coil heat exchangers, provided the alternative assembly does not take up any more floor space in the mechanical room than the base specified units. The contracting team would be responsible for making any adjustments required in order to ensure adequate service clearance for all new and existing equipment that might be affected by this change, in accordance with Specification Section 21 05 01 Clause 1.12 "Material and Equipment"	N/A
21	Re. PRV-4,5 Schedule on Dwg-M102: •Could you please verify and advise the inlet and outlet pressures on the schedule? Outlet pressure on PRV-5 is higher than the inlet. And HX-3A/3B is scheduled to receive 103 kPa which is higher than the PRV 4,5 inlet.	These items will be addressed in a future addendum.	**#3**

22	Please consider adding Genyk 'Boreal Elite' (CCMC #14140-L) to your 07 21 29 Spray-Applied Foamed-In-Place Insulation specification. We believe our environmentally responsible material would be a benefit to the Guelph General Hospital and all of your projects moving forward. Genyk is a Canadian manufacturer that specializes in environmentally responsible sprayed urethane foam products. Enclosed is a Technical Data Sheet for 'Boreal Elite'. Our product is a plant (lavender) based polyurethane insulation material using the GWP-friendly HFO blowing agent. 'Boreal Elite' surpasses the minimum standard represented by the currently specified	We will add to next addendum	**#3**
23	This is Vihit here from Vodaland Canada. We would be interested in proposing an alternate Trench drain product in lieu of what is specified in Section 22 10 00 Clause 2.5 para 7. Vodaland's proposal is MEGA 200FC with Load Class F. I have attached the technical product documentation for the Mechanical Engineer's review.	The product will be acceptable as equivalent, subject to section 21 05 01 Clause "Material and Equipment"	N/A
24	Please provide the missed specification for the acoustic ceiling tile ACT-3, 4, and 5.C32	We will add to next addendum	**#3**
25	Emailed question Nelson Industries Linear Metal Panels - Demonstrating Equivalency - Guelph General Hospital - EMHAS Relocation & ED Expansion Hi Please find attached a document from Nelson Industries demonstrating equivalency of their Linear Metal Panels (spec section 09 54 23 - CLD-WDLK) of the Guelph General Hospital - EMHAS Relocation & ED Expansion project that tenders July 16, 2024. Nelson is a Canadian manufacturer, based in Pickering, Ontario	Please provide CAN/ULC S102 testing. substitution per section 01 25 00	N/A
26	Door schedule • Door T05.1 is not located on the plans. The schedule reads door height at 203. Please advise. • Please provide a wood door specification. • Please confirm the finish of HM doors – the schedule reads plastic laminate. • Screen schedule notes STC glass. Are any frames and doors required to have an STC rating?	• Refer to Sheet # 303.4 for door location, door height is 2030mm, which will be revised in the next addendum • There are no wood doors in the project all doors are HM or Aluminum • Where indicated in the door schedule PLAM the doors finishes is HPL (heigh presure lamiante). • Doors and screen frames not required to have STC rating	**#3**
27	Washroom accessories • GB7 located at rooms 1-2.004 and 1-2.005 are not specified. • Specified robe hook RH-2MH not located.	• GB7-MH Will be added to the next addendum • Patient washroom robe hooks will be revised to RH-2MH	**#3**
28	Headwalls • Please provide the location of the headwalls.	Refer to sheets A805 deatil 5 and A806 detail 3 for headwall locations	N/A
30	Expansion joint • Please provide the location of floor joints and soffit joints.	Refer to A373 for floor expansion joint, there are no soffit expansion joint	N/A
31	Please advise on where I can find the excel sheet for the mandatory requirements checklist.	• Mandatory requirement are listed in the instruction to bidders	N/A
33	Belroc alternates for corener gardes CG2 and CG3 stainless steel corner guard CG4 and CG5 stainless steel end wall guard CG6 stainless corner guard CR3/BR3 stainless steel crash rail SS bumper rail	SS bumper rail 61SS is not acceptable, height is too low, other substitution per section 01 25 00	N/A