



Royal Canadian Gendarmerie royale  
Mounted Police du Canada

**RETURN BIDS TO :**

**RETOURNER LES SOUMISSIONS :**

RCMP-GRC

Bid Receiving/Réception des sousmissions

Attention: Jordan McKenna

Mail Stop/Arrêt postal 15

73 chemin Leikin Drive,

Ottawa, ON K1A 0R2

**AMENDMENT TO THE INVITATION TO TENDER**

Royal Canadian Mounted Police

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services and construction listed herein and on any attached sheets at the price(s) set out therefore.

**MODIFICATION À L'APPEL D'OFFRES**

Gendarmerie royale du Canada

Nous offrons par la présente de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens, services et construction énumérés ici sur toute feuille ci-annexée, au(x) prix indiqué(s).

Comments – Commentaries

Vendor/Firm Name and Address

Raison sociale et adresse du fournisseur/de l'entrepreneur

Telephone No. – No de téléphone:

( )

Facsimile No. – No de télécopieur:

( )

<b>Title-Sujet</b> Construction - Bâtiment A		
<b>Solicitation No. – No. de l'invitation</b> 201801002	<b>Amend. – Modif.</b> No. : 6	<b>Date</b> 24 juillet, 2018
<b>Client Reference No. - No. de Référence du Client</b> 201801002		
<b>GETS Reference No. – No de Référence du SEAG</b>		
<b>Solicitation Closes – L'invitation prend fin</b> <b>at – à 2:00 P.M. EDT</b> <b>on – July 31<sup>st</sup>, 2018.</b>		
<b>F.O.B. - F.A.B.</b> Destination		
<b>Address Enquiries to: - Adresser toute questions à :</b> Jordan McKenna		
<b>Telephone No. - No de telephone</b> 613-843-5518	<b>Fax:</b> 613-825-0082	
<b>Destination of Goods - Destinations des biens: See Herein</b>		
<b>Instructions : See Herein / Voir aux présentes</b>		
<b>Delivery Required – Livraison exigée: See Herein</b>		
<b>Name and Title of person authorized to sign on behalf of Vendor/Firm.</b> <b>Nom et titre de la personne autorisée à signer au nom du fournisseur/de l'entrepreneur</b>		

---

**Modification N° 6**

Construction – Bâtiment A  
N° D'APPEL D'OFFRES : 201801002

Date : 24 juillet 2018

---

**La modification no 6 a été émise pour répondre à des questions et publier l'addenda 1.**

---

- 1) Voir les questions et réponses ci-dessous
- 2) Voir l'addenda 1 ci-dessous

**LES DOCUMENTS DE L'APPEL D'OFFRES ONT FAIT L'OBJET DES CHANGEMENTS SUIVANTS, QUI ENTRENT EN VIGUEUR IMMÉDIATEMENT.**

**Q1** - Les ouvertures de portes 110.1 et 110.2 ont des portes de type D et des bâtis de type 3, mais ne sont pas indiqués comme des portes RF SHIELDED DOOR dans les commentaires et ont aussi un groupe de quincaillerie et les autres RF SHIELDED DOOR n'en ont pas. S'agit-il d'ouvertures standards ou de portes RF SHIELDED DOOR ?

**A1** - Voir la modification A-01

**Q2** - Les ouvertures de porte 125A.1 et 125B.1 ont des portes de type A et des bâtis de type 1, les commentaires indiquent qu'il s'agit de portes RF SHIELDED DOOR. Ces ouvertures ne devraient –elles pas être de type D et avoir des bâtis de type 3 ?

**A2** - Voir la modification A-01.

**Q3** - L'ouverture de porte 141.1 a une porte de type D, devrait-elle être de type A comme l'ouverture 140.1 ?

**A3** - Voir la modification A-01.

**Q4** - L'ouverture de porte 141.2 a une porte de type A, devrait-elle être de type D comme l'ouverture 140.2 puisqu'il s'agit d'une porte RF SHIELDED ?

**A4** - Voir la modification A-01.

**Q5** - En outre, les paysagistes se demandaient s'il y aurait un dessin de paysage dédié, ou si nous devons obtenir la portée des travaux depuis la page C3 seulement.

**A5** - Il n'y a pas d'architecte paysagiste dédié à l'heure actuelle. Vous devrez vous référer à l'étendue des travaux sur le dessin C3.

**TOUTES LES AUTRES MODALITÉS DEMEURENT INCHANGÉES.  
FIN**

This addendum is an integral part of the tender documents and the contractor will have to indicate receipt of it in the tender form.

**PART 1 DEVIS ARCHITECTURE**

- .1 00 00 10 – Table of content
  - .1 Delete 07 81 00 Applied Fireproofing
- .2 01 11 00 - Summary of Work.
  - .1 Refer to attached revised section 01 11 00.
- .3 01 14 00 - Work restrictions
  - .1 Add article 1.5.2.6 :  
“Refer to Tender Contractor Security Requirement appended to this section.”
  - .2 Add attached Tender Contractors Security Requirement.
- .4 01 29 83 - Payment procedures for testing laboratory services
  - .1 Add article 1.1.3  
“Departmental Representative will appoint and pay for services related to RF testing 18-3505-TP.”
  - .2 Add article 1.1.4  
“Departmental Representative will appoint and pay for services related to Acoustic Testing.”
- .5 01 45 00 - Quality control
  - .1 Add article 1.1.5  
“Departmental Representative will conduct three (3) RF shielding tests and two (2) acoustic tests during the construction of the building. The Contractor and his subtrade will have to vacate the site while these tests are under way. One week per RF testing and 2 days per acoustic tests will be required. Contractor is to allow for these periods of times in his schedule.”
- .6 07 11 13 - Bituminous Dampproofing
  - .1 Refer to attached revised section 07 11 13.
- .7 07 27 00 - Air Barriers
  - .1 Refer to attached revised section 07 27 00.
- .8 07 81 00 - Applied Fireproofing
  - .1 Delete section 07 81 00 – applied fireproofing

**PART 2 ARCHITECTURAL DRAWINGS**

- .1 Drawing A002 – Site Plan
  - .1 Change note “Generator on concrete slab” to:  
“Generator on concrete slab. Generator to be supplied by owner and installed by Contractor. Concrete Slab to be supplied and installed by Contractor.”

- .2 Drawing A100 – Ground Floor Plan
  - .1 Refer to attached revised drawings A100.
- .3 Drawing A110 – Ground Floor Plan
  - .1 Refer to attached revised drawings A110.
- .4 Drawing A201 – Elevations - exterior cladding
  - .1 Refer to attached revised drawings A201.
- .5 Drawing A202 – Elevations - exterior cladding
  - .1 Refer to attached revised drawings A202.
- .6 Drawing A300 – Ground Floor Plan
  - .1 Change note 7 to:  
“RF shielded rooms 125A and 125B to be supplied and installed by Owner.”
- .7 Drawing A605 – Ground Floor Plan
  - .1 Refer to attached revised drawings A605.
- .8 Drawing A800 – Ground Floor Plan
  - .1 Refer to attached revised drawings A800.

**PART 3 MECHANICAL**

**3.1 ADDENDUM CIMA+ M01**

- .1 Refer to attached CIMA+ mechanical addendum M01 dated July 19, 2017.

**PART 4 ELECTRICAL**

**4.1 ADDENDUM CIMA+ E01**

- .1 Refer to attached CIMA+ mechanical addendum E01 dated July 12, 2017.

**PART 5 STRUCTURAL**

**5.1 STRUCTURAL ADDENDUM**

- .1 Refer to attached Structural addendum.

**End of the Addendum N° A-01**

**PART 1 GENERAL****1.1 WORK COVERED BY CONTRACT DOCUMENTS**

- .1 Work of this Contract comprises general construction of a building, located in Ottawa (East End), Ontario; and further identified as Building A.

**1.2 FEES, PERMITS AND CERTIFICATES**

- .1 Pay all fees and obtain all permits. Provide authorities with plans and information for acceptance certificates. Provide inspection certificates as evidence that work conforms to requirements of Authority having jurisdiction.

**1.3 CONTRACT METHOD**

- .1 Construct Work under design-bid-build contract.

**1.4 WORK BY OTHERS**

- .1 Work of Project executed prior to start of Work of this Contract, and which is specifically excluded from this Contract:
  - .1 Trees removal had been completed.

**1.5 CONTRACTOR USE OF PREMISES**

- .1 Unrestricted use of construction site until Substantial Performance.
- .2 Co-ordinate use of premises under direction of Departmental Representative.

**1.6 EXISTING SERVICES**

- .1 Notify, Departmental Representative and utility companies of intended interruption of services and obtain required permission.
- .2 Where Work involves breaking into or connecting to existing services, give Departmental Representative 5 calendar days' notice for necessary interruption of mechanical or electrical service throughout course of work. Minimize duration of interruptions. Carry out work at times as directed by governing authorities with minimum disturbance to pedestrian, vehicular traffic or owner's operations.
- .3 Provide alternative routes for personnel and vehicular traffic.
- .4 Establish location and extent of service lines in area of work before starting Work. Notify Departmental Representative of findings.
- .5 Submit schedule to and obtain approval from Departmental Representative for any shut-down or closure of active service or facility including power and communications services. Adhere to approved schedule and provide notice to affected parties.
- .6 Provide temporary services when directed by Departmental Representative to maintain critical building and owner systems.
- .7 Provide adequate bridging over trenches which cross sidewalks or roads to permit normal traffic.
- .8 Where unknown services are encountered, immediately advise Departmental Representative and confirm findings in writing.

## Summary of Work

- .9 Protect, relocate or maintain existing active services. When inactive services are encountered, cap off in manner approved by authorities having jurisdiction.
- .10 Record locations of maintained, re-routed and abandoned service lines.
- .11 Construct barriers in accordance with Section 01 56 00 - Temporary Barriers and Enclosures.

**1.7 DOCUMENTS REQUIRED**

- .1 Maintain at job site, one copy each document as follows:
  - .1 Contract Drawings.
  - .2 Specifications.
  - .3 Addenda.
  - .4 Reviewed Shop Drawings.
  - .5 List of Outstanding Shop Drawings.
  - .6 Change Orders.
  - .7 Other Modifications to Contract.
  - .8 Field Test Reports.
  - .9 Copy of Approved Work Schedule.
  - .10 Health and Safety Plan and Other Safety Related Documents.
  - .11 Other documents as specified.

**PART 2 PRODUCTS****2.1 NOT USED**

- .1 Not used.

**PART 3 EXECUTION****3.1 NOT USED**

- .1 Not used.

**END OF SECTION**

# **Tender Contractors Security Requirement**

All contractors employed on this contract must support the RCMP's security environment by complying with the directives described in this document.

## **General Security Requirements**

1. The information disclosed under this contract will be administered, maintained, and disposed of in accordance with RCMP Security Policies and the Policy on Government Security.
2. The contractor will promptly notify the RCMP of any unauthorized use or disclosure of the information exchanged under this contract and will furnish the RCMP with details of the unauthorized use or disclosure.

## **Physical Security**

1. Physical access to the facilities is restricted to those specific areas required to meet the contract objective.
2. The contractors cleared to ERS do not required escort to the site.
3. Contractors cleared to FA2 require escort at all times on site.
4. Contractors with no security clearance are not allowed on site.

## **Document Processing and Storage**

1. The contractor will only be issued sanitized documents.
2. All documents shall be stored on site or at the contractor's office.
3. No sensitive information, Protected A or higher, shall be transmitted to or processed at the contractor's site.
4. No sensitive electronic information or assets, Protected A or higher, shall be removed from RCMP network or propriety

## **Site Access**

To gain access to the site, the contractor will be required to follow the following procedures:

1. All contractors are required to have a minimum of FA2 security clearance.
2. For ease of access to the site, ProSec will create Red contractor badges for non-ERS cleared contractors/workers (FA2 cleared) assigned to the project and working on site.
3. A list of cleared contractors will be distributed the CMRE Security Checkpoints.
4. The contractor is to follow the procedures noted below:
  - a. Upon entry to site, the contractor /worker will proceed to the security desk, produce a Government Issued photo ID (e.g. driver's license, birth certificate, etc.), to be verified against the CMRE's list. Once verified, the contractor/worker

surrenders their Government-issued ID, signs out their red contractor badge, and turns in their electronic devices. Any workers who are not on the list or in the RCMP system will not be allowed to access the construction compound; the GC will be contacted.

- b. Parking of personal/work vehicles will be permitted on site in assigned contractor's parking areas only.
- c. At the end of the shift, the workers will report back to the security desk, return the red or green contractor badge and any issued communications devices and cameras, retrieve their Government Issued ID and personal electronic devices and then exit the site.
- d. Contractors/workers will be capable of retrieving their Government Issue ID during daytime and afterhours.

### **Electronic Devices**

1. No contractors are allowed to carry their personal electronic devices while on site, regardless of security clearance.
2. To provide for communication at the construction site, authorized construction personnel will be issued cell phones on a daily basis by RCMP Security.
  - a. The RCMP NPDO Project Manager (PM) will provide a list of cleared contractors to ProSec for distribution to the CMRE Security Checkpoints.
  - b. The authorized personnel will sign out the cell phone at the same time as he/she enters the site, and return it at the end of their shift.

### **Photography**

1. The use of personal cameras or devices with photographic capability for contractors with FA2 clearance only will not be permitted on site. RCMP security will provide cameras for use on site by authorized personnel.
2. The approved contractor will:
  - a. Sign out a camera from the building security desk.
  - b. Return camera to building security desk to have the picture vetted by CMRE.
  - c. CMRE will send out pictures from the computer at the security desk.

### **Delivery**

1. Construction deliveries are permitted to and on the site.
2. Prior to any deliveries to the site, ProSec requires the following from the General Contractor:
  - a. A minimum of 24 hour notification prior to the delivery with the following information:
  - b. The name and company name of the delivery personnel (driver and helpers if applicable).



- c. Brief description of what is being delivered and the approximate time of arrival to the site.

### **Vehicle Access**

1. Contractor vehicle access and parking on site is permitted following the rules listed below:
  - a. The worker's vehicle must be parked in designated contractor parking areas only.
  - b. Only vehicles used for work (e.g. tools, etc.) can be used on site, outside of the designated contractor parking area.

**PART 1 GENERAL****1.1 RELATED REQUIREMENTS**

- .1 Division 03 - Concrete
- .2 Section 07 21 13 - Board Insulation
- .3 Section 07 26 16 - Under Slab Vapor Barrier

**1.2 REFERENCES**

- .1 Canadian General Standards Board (CGSB)
  - .1 CAN/CGSB-37.2-M88, Emulsified Asphalt, Mineral-Colloid Type, Unfilled, for Dampproofing and Waterproofing and for Roof Coatings.
  - .2 CAN/CGSB-37.3-M89, Application of Emulsified Asphalts for Dampproofing or Waterproofing.
  - .3 CAN/CGSB-37.5-M89, Cutback Asphalt Plastic Cement.
  - .4 CGSB 37-GP-6Ma-83, Asphalt, Cutback, Unfilled, for Dampproofing.
  - .5 CGSB 37-GP-9Ma-83, Primer, Asphalt, Unfilled, for Asphalt Roofing, Dampproofing and Waterproofing.
  - .6 CGSB 37-GP-11M-76(R1984), Application of Cutback Asphalt Plastic Cement.
  - .7 CGSB 37-GP-12Ma-84, Application of Unfilled Cutback Asphalt for Dampproofing.
  - .8 CGSB 37-GP-15M-76(R1984), Application of Asphalt Primer for Asphalt Roofing, Dampproofing and Waterproofing.
  - .9 CAN/CGSB-37.16-M89, Filled, Cutback, Asphalt for Dampproofing and Waterproofing.
  - .10 CAN/CGSB-37.28-M89, Reinforced Mineral Colloid Type, Emulsified Asphalt for Roof Coatings and for Waterproofing.
  - .11 CGSB 37-GP-36M-76, Application of Filled Cutback Asphalts for Dampproofing and Waterproofing.
  - .12 CGSB 37-GP-37M-77, Application of Hot Asphalt for Dampproofing or Waterproofing.
- .2 CSA International
  - .1 CAN/CSA-A123.4-04(R2008), Asphalt for Construction of Built-Up Roof Coverings and Waterproofing Systems.
- .3 Health Canada
  - .1 Workplace Hazardous Materials Information System (WHMIS)
    - .1 Material Safety Data Sheets (MSDS).

**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 bituminous dampproofing application and include product characteristics, performance criteria, physical size, finish and limitations.
- .2 Submit 2 copies of WHMIS MSDS in accordance with Section 01 35 29.06 - Health and Safety Requirements and 01 35 43 - Environmental Procedures.
- .3 Manufacturer's Instructions: provide to indicate special handling criteria, installation sequence and cleaning procedures.

#### **1.4 DELIVERY, STORAGE AND HANDLING**

- .1 Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements and with manufacturer's written instructions.
- .2 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
- .3 Storage and Handling Requirements:
  - .1 Store materials off ground, indoors, in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
  - .2 Store and protect dampproofing materials from nicks, scratches, and blemishes.
  - .3 Replace defective or damaged materials with new.

#### **1.5 SITE CONDITIONS**

- .1 Ambient Conditions: temperature, relative humidity, moisture content.
  - .1 Apply dampproofing materials only when surfaces and ambient temperatures are within manufacturers' prescribed limits.
  - .2 Do not proceed with Work when wind chill effect would tend to set bitumen before proper curing takes place.
  - .3 Maintain air temperature and substrate temperature at dampproofing installation area above 5 degrees C for 24 hours before, during and 24 hours after installation.
  - .4 Do not apply dampproofing in wet weather.
- .2 Safety: comply with requirements of Workplace Hazardous Materials Information System (WHMIS) regarding use, handling, storage, and disposal of asphalt, sealing compounds, primers and caulking materials.
- .3 Ventilation:
  - .1 Ventilate enclosed spaces in accordance with Section 01 51 00 - Temporary Utilities.
  - .2 Provide continuous ventilation during and after dampproofing application. Run ventilation system 24 hours per day during installation; provide continuous ventilation for 7 days after completion of dampproofing installation.

### **PART 2 PRODUCTS**

#### **2.1 MATERIALS**

- .1 Acceptable products: use only products from the same manufacturer for the work of each system in this section.

- .2 Geotextile: Bentonite geotextile waterproofing with integrated polyethylene liner, acceptable products: "Voltex DS" by cetco or equivalent approved by the architect.
- .3 Drainage Board (vertical): Three-dimensional polymeric core drain board with non-woven geotextile fabric fully bonded to the top dimples of the core.
  - .1 Water flow Rate (ASTM D-4716): 211L/min/m
  - .2 Acceptable products: Bakor DB 2000, W.R. Meadows Mel-Drain 5035 or equivalent approved by the architect.
- .4 Fluid Applied Bituminous Dampproofing Membrane
  - .1 Liquid applied, dampproofing emulsion composed of vacuum-reduced asphalt dispersed in a mineral colloid emulsifier, designed for use and cure at temperatures above 5 degrees Celsius, in compliance with CAN/CGSB 37.2.
    - .1 Colour: Black
    - .2 Solids by Volume: 54%
    - .3 Application Temperature: 5 deg C (40 deg F) minimum.
    - .4 Maximum VOC: 0 g/L
    - .5 Water Vapour Permeance (ASTM E96): 8 ng/Pa.m<sup>2</sup>.s. (0.14 perms)
    - .6 Acceptable products: 700-01 Dampproofing and Waterproofing Asphalt Emulsion by Henry Company, W.R. Meadows 520 Sealastic or equivalent approved by the architect.
  - .2 Liquid applied medium consistency, solvent type waterproofing and dampproofing compound of selected asphalts and fibres permitting application in thick films; designed for use and cure at temperatures between 0 degree Celsius and 5 degrees Celsius, in compliance with CAN/CGSB 37.16-M89.
    - .1 Colour: Black
    - .2 Solids by Volume: 54%
    - .3 Application Temperature: Ambient (Thickens at low temperature).
    - .4 Water Vapour Permeance (ASTM E96): 2.9 ng/Pa.m<sup>2</sup>.s. (0.05 perms)
    - .5 Acceptable products: 710-11 Dampproofing and Waterproofing Asphalt Coating by Henry Company, W.R. Meadows 501 Sealastic or equivalent approved by the architect.
- .5 Sealing Compound: Polybitume sealing compound complying with CAN / CGSB-37.29
  - .1 Color: black
  - .2 Solids by volume: ± 70%
  - .3 Weight: ± 1.0 kg / l
  - .4 Coverage: at 3mm thickness 0.3 m<sup>2</sup> / l
  - .5 Drying time: at 50% RH, 20 ° C, ± 4 hours
  - .6 Permeability to water vapor: 2.9 ng / Pa.m<sup>2</sup>.s
  - .7 Acceptable products: Bakor 570-05, W.R. Meadows Pointing Mastic or equivalent approved by the architect.
- .6 Asphalt primer: to CAN/CGSB-37.2.
- .7 Accessories: According to the manufacturer's recommendations

**PART 3 EXECUTION****3.1 EXAMINATION**

- .1 Verification of Conditions: verify that conditions of substrate previously installed under other Sections or Contracts are acceptable for bituminous dampproofing application installation in accordance with manufacturer's written instructions.
  - .1 Visually inspect substrate in presence of Departmental Representative.
  - .2 Inform Departmental Representative 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 Departmental Representative.

**3.2 WORKMANSHIP**

- .1 Keep hot asphalt:
  - .1 Below its flash point.
  - .2 At or below its final blowing temperature.
  - .3 Within its equiviscous temperature range at place of application.

**3.3 PREPARATION**

- .1 Before applying dampproofing:
  - .1 Seal exterior joints between foundation walls and footings, joints between concrete floor slab and foundation and around penetrations through dampproofing with sealing compound.

**3.4 APPLICATION**

- .1 Do dampproofing in accordance with CAN/CGSB-37.3.
- .2 Do sealing work in accordance with CGSB 37-GP-11M.
- .3 Do priming of surface in accordance with CGSB 37-GP-15M.
- .4 Apply primer to CGSB primer standard.
- .5 Apply dampproofing in accordance with applicable CGSB application standard.

Material	Application	
CAN/CGSB-37.2	use	CAN/CGSB-37.3
CGSB 37-GP-6Ma	use	CGSB 37-GP-12M
CAN/CGSB-37.16	use	CGSB 37-GP-36M
CAN/CGSB-37.28	use	CAN/CGSB-37.3
CSA A123.4	use	CGSB 37-GP-37M

**3.5 SCHEDULE**

- .1 Apply continuous, uniform coating to entire exterior faces of foundation walls from 50 mm below finished grade level to and including tops of foundation wall footings.
- .2 Apply continuous, uniform coating to exterior side of foundation walls enclosing rooms below finished grade. Include exterior portion of interior walls where floors in adjacent rooms are at different elevations.

- .3 Apply two additional coats of dampproofing to vertical corners and construction joints for a minimum width of 230 mm on each side, and all around and for 230 mm along pipes passing through walls.

### **3.6 CLEANING**

- .1 Progress Cleaning: clean in accordance with Section 01 74 11 - 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 11 - Cleaning.
- .3 Waste Management: separate waste materials for reuse and/or recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
  - .1 Remove recycling containers and bins from site and dispose of materials at appropriate facility.

### **3.7 PROTECTION**

- .1 Protect installed products and components from damage during construction.
- .2 Repair damage to adjacent materials caused by dampproofing application.

**END OF SECTION**

**PART 1 GENERAL****1.1 RELATED REQUIREMENTS**

- .1 Section 07 21 16 – Blanket Insulation
- .2 Section 07 42 43 – Composite Wall Panels
- .3 Section 07 92 00 – Joint sealants
- .4 Section 08 11 00 – Metal Doors and Frames
- .5 Section 08 50 00 – Windows
- .6 Section 09 21 16 – Gypsum Board Assemblies
- .7 Structure drawings, concrete and steel

**1.2 REFERENCES**

- .1 American Society for Testing and Materials International (ASTM)
  - .1 ASTM D4541-02, Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers.
  - .2 ASTM E330-02, Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls, by Uniform Static Air Pressure Difference.
  - .3 ASTM E783-02, Standard Test Method for Field Measurement of Air Leakage Through Installed Exterior Windows and Doors.
  - .4 ASTM E1186-03, Standard Practices for Air Leakage Site Detection in Building Envelope and Air Retarder Systems.

**1.3 ACTION AND INFORMATIONAL SUBMITTALS**

- .1 Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
  - .1 Submit manufacturer's printed product literature, specifications and datasheet and include product characteristics, performance criteria, physical size, finish and limitations.
  - .2 Submit WHMIS MSDS - Material Safety Data Sheets.
- .3 Submit drawings stamped and signed by professional engineer registered or licensed in Province of Ontario, Canada.
  - .1 Certificates: submit certificates signed by manufacturer certifying that materials comply with specified performance characteristics and physical properties.
  - .2 Manufacturer's Instructions: submit manufacturer's installation instructions and special handling criteria, installation sequence and cleaning procedures.

**1.4 QUALITY ASSURANCE**

- .1 Qualifications:
  - .1 Applicator: company specializing in performing work of this section with minimum 5 years documented experience with installation of air/vapour barrier systems.

- .1 Completed installation must be approved by the material manufacturer.
- .2 Applicator: company:
  - .1 Currently licensed by National Air Barrier Association, Canadian Urethane Foam Contractor's Association or certifying organization.
  - .2 Must maintain their license throughout the duration of the project.
- .2 Mock-Up:
  - .1 Construct mock-up in accordance with Section 01 45 00 - Quality Control.
  - .2 Construct typical exterior wall panel, 3 m long by 3 m wide, incorporating window frame and sill, insulation, building corner condition, junction with roof system; illustrating materials interface and seals.
  - .3 Locate where directed.
  - .4 Mock-up may remain as part of finished work.
  - .5 Allow 48 hours for inspection of mock-up by Departmental Representative before proceeding with air/vapour barrier Work.

#### **1.5 DELIVERY, STORAGE AND HANDLING**

- .1 Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements.
- .2 Deliver, store and handle materials in accordance with manufacturer's written instructions.
- .3 Avoid spillage: immediately notify Departmental Representative if spillage occurs and start clean up procedures.
- .4 Clean spills and leave area as it was prior to spill.

#### **1.6 WASTE MANAGEMENT AND DISPOSAL**

- .1 Separate waste materials for reuse and recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
- .2 Place materials defined as hazardous or toxic waste in designated containers.
- .3 Ensure emptied containers are sealed and stored safely for disposal away from children.

#### **1.7 AMBIENT CONDITIONS**

- .1 Install solvent curing sealants and vapour release adhesive materials in open spaces with ventilation.
- .2 Ventilate enclosed spaces in accordance with Section 01 51 00 - Temporary Utilities.
- .3 Maintain temperature and humidity recommended by materials manufactures before, during and after installation.

#### **1.8 SEQUENCING**

- .1 Sequence work in accordance with Section 01 32 16.07 - Construction Progress Schedules - Bar (GANTT) Charts.
- .2 Sequence work to permit installation of materials in conjunction with related materials and seals.



**PART 2 PRODUCTS****2.1 MEMBRANES**

- .1 Primary sheet air/vapor barrier membrane: SBS modified bitumen, self-adhering sheet membrane complete with a engineered thermoplastic film. Membrane shall have the following physical properties:
- .1 ASTM E2357: Standard Test Method for Determining Air Leakage of Air Barrier Assemblies,
  - .2 Air leakage: <math>0.0001\text{ CFM/ft}^2\text{ @ }1.6\text{ lbs/ft}^2\text{ to ASTM E2178 and ASTM E283}</math> and have no increased air leakage when subjected to a sustained wind load of 10.5 lbs/ft<sup>2</sup> for 1 hour and gust wind load pressure of 62.8 lbs/ft<sup>2</sup> for 10 seconds when tested at 1.6 lbs/ft<sup>2</sup> to ASTM E331,
  - .3 Vapour permeance: 0.03 perms to ASTM E96 (Desiccant Method),
  - .4 Vapour permeance: 0.08 perms to ASTM E96 (Wet Cup Method),
  - .5 Membrane Thickness: 40 mils,
  - .6 Low temperature flexibility: -30°C to CGSB 37-GP-56M,
  - .7 Elongation: 200% to ASTM D412-modified,
  - .8 Meets CAN/CGSB-51-33 Type I Water Vapour Permeance requirements
  - .9 Acceptable Products: Blueskin<sup>®</sup> SA manufactured by Henry, Air-Shield manufactured by W.R. Meadows or equivalent approved by the architect.

**2.2 ACCESSORIES**

- .1 Primer for self-adhering membranes at temperatures above -4° Celsius: polymer emulsion based adhesive, quick setting. Primer shall have the following physical properties:
- .1 Weight: 8.7 lbs/gal,
  - .2 Solids by weight: 53%,
  - .3 Water based, no solvent odors,
  - .4 Drying time (initial set): 30 minutes at 50% RH and 70 degrees F
  - .5 Acceptable Products: Aquatac<sup>™</sup> Primer manufactured by Henry, Mel-Prime W/B manufactured by W.R. Meadows or equivalent approved by the architect.
- .2 Adhesive for self-adhering membranes at all temperatures: synthetic rubber based adhesive, quick setting, having the following physical properties:
- .1 Weight: 6 lbs/gal,
  - .2 Solids by weight: 35%,
  - .3 Drying time (initial set): 30 minutes
  - .4 Acceptable Products: Blueskin<sup>®</sup> Adhesive manufactured by Henry or equivalent approved by the architect.
- .3 Substrate cleaner: non corrosive, compatible with adjoining materials
- .4 Insulation adhesive: synthetic, trowel applied, rubber based adhesive, having the following physical properties:
- .1 Compatibility: With air barrier membrane, substrate and insulation,
  - .2 Air leakage: 0.0026 CFM/ft<sup>2</sup> @ 2.1 lbs/ft<sup>2</sup> to ASTM E283,
  - .3 Water vapor permeance: 0.03 perms to ASTM E96,

.4 Long term flexibility: CGSB 71-GP-24M

.5 Acceptable Products: Air-Bloc 21 Insulation Adhesive manufactured by Henry, Air-Shield manufactured by W.R. Meadows or equivalent approved by the architect.

### **PART 3 EXECUTION**

#### **3.1 MANUFACTURER'S INSTRUCTIONS**

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

#### **3.2 GENERAL**

- .1 Perform Work in accordance with Sealant and Waterproofer's Institute - Sealant and Caulking Guide Specification requirements for materials and installation.
- .2 Perform Work in accordance with National Air Barrier Association - Professional Contractor Quality Assurance Program and requirements for materials and installation.
- .3 Perform Work in accordance with Canadian Urethane Foam Contractor's Association - Professional Contractor Quality Assurance Program and requirements for materials and installation.

#### **3.3 EXAMINATION**

- .1 Verify that surfaces and conditions are ready to accept work of this section.
- .2 Ensure surfaces are clean, dry, sound, smooth, continuous and comply with air barrier manufacturer's requirements.
- .3 Report unsatisfactory conditions to Departmental Representative in writing.
- .4 Do not start work until deficiencies have been corrected.
  - .1 Beginning of Work implies acceptance of conditions.

#### **3.4 PREPARATION**

- .1 Remove loose or foreign matter, which might impair adhesion of materials.
- .2 Ensure substrates are clean of oil or excess dust; masonry joints struck flush, and open joints filled; and concrete surfaces free of large voids, spalled areas or sharp protrusions.
- .3 Ensure substrates are free of surface moisture prior to application of self-adhesive membrane and primer.
- .4 Ensure metal closures are free of sharp edges and burrs.
- .5 Prime substrate surfaces to receive adhesive or sealants in accordance with manufacturer's instructions.

#### **3.5 INSTALLATION**

- .1 Inside and outside corners
  - .1 Seal inside and outside corners of sheathing boards with a strip of self-adhering air/vapor barrier membrane extending a minimum of 3 inches on either side of the corner detail.

- .1 Prime surfaces as per manufacturers' instructions and allow to dry.
- .2 Align and position self-adhering transition membrane, remove protective film and press firmly into place. Ensure minimum 2 inches overlap at all end and side laps of membrane.
- .3 Roll all laps and membrane with a counter top roller to ensure seal.
- .2 Transition areas
  - .1 Tie-in to structural beams, columns, floor slabs and intermittent floors, parapet curbs, foundation walls, roofing systems and at the interface of dissimilar materials as indicated in drawings with self-adhering air/vapor barrier membrane.
    - .1 Prime surfaces as per manufacturers' instructions and allow to dry.
    - .2 Align and position self-adhering transition membrane, remove protective film and press firmly into place. Provide minimum 3 inch lap to all substrates.
    - .3 Ensure minimum 2 inch overlap at all end and side laps of membrane.
    - .4 Roll all laps and membrane with a counter top roller to ensure seal.
- .3 Windows and rough openings
  - .1 Wrap rough openings with self-adhered air/vapor barrier membrane as detailed.
    - .1 Prime surfaces as per manufacturers' instructions and allow to dry.
    - .2 Align and position self-adhering transition membrane, remove protective film and press firmly into place. Ensure minimum 2 inch overlap at all end and side laps of membrane.
    - .3 Roll all laps and membrane with a counter top roller to ensure seal.
- .4 Primary air barrier
  - .1 Apply self-adhering air/vapour barrier membrane complete and continuous to prepared and primed substrate in an overlapping shingle fashion and in accordance with manufacturer's recommendations and written instructions. Stagger all vertical joints.
    - .1 Prime surfaces as per manufacturers' instructions and allow to dry.
    - .2 Align and position self-adhering air/vapour barrier membrane, remove protective film and press firmly into place. Ensure minimum 2 inch overlap at all end and side laps of membrane.
    - .3 Roll all laps and membrane with a counter top roller to ensure seal.
    - .4 At the end of each days work seal the top edge of the membrane where it meets the substrate with termination sealant. Trowel apply a feathered edge to seal termination and shed water.

### 3.6 CLEANING

- .1 Proceed in accordance with Section 01 74 11 - Cleaning.
- .2 On completion and verification of performance of installation, remove surplus materials, excess materials, rubbish, tools and equipment.

### 3.7 PROTECTION OF WORK

- .1 Protect finished work in accordance with Section 01 61 00 - Common Product Requirements.
- .2 Do not permit adjacent work to damage work of this section.

- .3 Ensure finished work is protected from climatic conditions.

**END OF SECTION**



<b>Project Ref Number :</b>	A000566B
<b>Project Title :</b>	Building A
<b>Client :</b>	DFS
<b>Date :</b>	2018/07/19

CIMA 240, Catherine Street, Suite 110, Ottawa ON, K2P 2G8, Tel.: (613) 860-2462 Fax: (613) 860-1870

This document must be integrated in the contract documents and shall be read with them.

The bidders must ensure that the addendum(s) is (are) listed on the Tender Form and that the associated costs are included in the Tender Price.

## **DESCRIPTION**

This addendum, comprising 2 pages, 2 annexes and 2 sections, modifies the contract documents as follows:

### **1. SPECIFICATIONS DOCUMENT**

- 1.1 Add section 08 31 00.01, see attached section.
- 1.2 Add section 10 44 16.19, see attached section.
- 1.3 Section 23 73 11 paragraph 2.4.1 modify to read; 50 mm MERV 8 pre filters complete with 4" MERV 13 final filters.
- 1.4 Section 25 01 12 paragraph 1.2.3 to read; "submit reports within one week after completion of Phase 1 that training has been satisfactorily completed.
- 1.5 Section 25 01 12 paragraph 1.9; modify .1 to read; To be in 1 phase over 3 month period and in accordance with section 01 91 41 – Commissioning: Training.
- 1.6 Section 25 01 12 paragraph 1.9.2; modify to read; Phase 1: ½ day program to begin before 30 day test period at time mutually agreeable to contractor and departmental representative.
- 1.7 Section 25 01 12 paragraph 1.9; delete .3
- 1.8 Section 25 05 01 paragraph 1.7; add; .4 or approved equivalent.
- 1.9 Section 25 90 01 paragraph 2.2 to be modified with annex B.

### **2. DRAWINGS**

#### **2.1 Drawing M100, M200, M201, M300**

- 2.1.1 Corridor 135 to be renumbered to read; Corridor 111.
- 2.1.2 Add FE-2 in room 107, see specification section 10 44 16.19 for additional detail

#### **2.2 Drawing M300**

- 2.2.1 Modify note tag 8 (located by grid 2A and grid 2F) to be note tag 7.
- 2.2.2 Add note tag 8 and point to AC-1&2 in room 124

#### **2.3 Drawing M400**

- 2.3.1 Replace rooftop unit schedule with the schedule in annex A.
- 2.3.2 Add the following note to the Evaporator Schedule and Condenser Schedule; 4. Split-Ac units to be model FTK24NMVJU & RK24NMVJU or approved equivalent.
- 2.3.3 Condenser Schedule notes to be 1, 2 and 4.

## Addendum N° M01

---

Project Number: A000566B

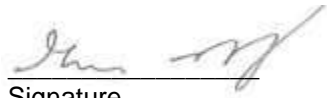
Project Title: Building A

---

- 2.3.4 Modify detail 2/M400 and 3/400 space 135 to be space 111.
- 2.3.5 Modify title of detail 5/M400 to read; Exhaust fan Schematic for 107 and 101
- 2.3.6 Modify VAV Boxes Schedule note 1 to read; Complete with actuator and heating/cooling with automatic changeover (by manufacturer).
- 2.3.7 Add note 2 to VAV boxes Schedule (applies to all VAV's); Model E.H. Price SDV or approved equivalent

- END OF ADDENDUM -

Issued by: Guillaume Tremblay



Signature

## Annex A

ROOF TOP UNIT SCHEDULE																						
TAG	EVAPORATOR FAN				COOLING					EFFICIENCY		NATURAL GAS HEATING				ELECTRICAL			REF.	APX. WEIGHT	NOTES	MODEL (OR APPROVED EQUIVALENT)
	FLOW		MOTOR	EXT. STATIC P.	CAP. TOTAL KW	EAT		LAT		EER	IEER	KW	STAGES	EDB (°F)	LDB (°F)	VOLTAGE	MCA	MOP				
	SA (L/s)	OA (L/s)				EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)													
RTU-1	2124	318	4 HP	500 Pa	36	26.4	18.6	13.3	13	12	18.6	46.9	10:1	6.6	27.3	575-3-60	19.3	25	R-410A	2857	1,2,3,4,5	DPS010A
RTU-2	1180	177	1.3 HP	500 Pa	18	26.4	18.6	13.3	13	12.8	18.2	18.8	5:1	6.6	23.2	208-3-60	30.2	40	R-410A	1487	1,2,3,4,5	DPS005A
RTU-3	2124	318	4 HP	500 Pa	36	26.4	18.6	13.3	13	12	18.6	46.9	10:1	6.6	27.3	575-3-60	19.3	25	R-410A	2857	1,2,3,4,5	DPS010A
1. COMPLETE WITH CUSTOM FABRICATED ROOF CURB FOR HORIZONTAL DISCHARGE 2. COMPLETE WITH RETURN AIR FAN AT 250 Pa ESP. SUPPLY AND RETURN AIR FANS TO BE COMPLETE WITH EC MOTORS 3. ECONOMIZER TO RUN AT 100% OF AIRFLOW AND CONTROLLED BY THE RETURN FAN 4. REVIEW ARCHITECTURAL DRAWINGS AND LOCATION ON SLOPED ROOF PROVIDE CURB ADAPTOR TO MAINTAIN UNIT LEVEL INSTALLATION 5. COOLING COMPRESSOR; MODULATING CONTROL WITH INVERTER COMPRESSORS																						

## Annex B

### .1 Air Handling Units:

#### .1 General:

.1 The variable volume air handling unit consists of a mixed air section with outdoor air, exhaust air and return air dampers, pre-filter, gas heating section, DX cooling, and return fans with EC motors. The unit shall be capable of accepting EMCS control signals.

.2 The air handling unit is scheduled for automatic operation on a time of day basis for Occupied and Unoccupied modes.

.3 The air handling unit is controlled by manufacturer built-in control package. EMCS contractor to provide start/stop (adjustable) schedule, status and alarm Signals.

#### .2 Cooling Units:

.1 The cooling units is controlled by manufacturer built-in control package. EMCS contractor to provide start/stop (adjustable) schedule, status and alarm signals.

#### .3 Exhaust Fans:

.1 EF-4 to be tied to EMCS schedule.

#### .4 Terminal Devices:

##### .1 VAV Box:

.1 The cooling variable volume (VAV) terminal unit is controlled independent of system pressure fluctuations by an application specific DDC controller using electric actuation. The space served by the VAV terminal unit is controlled in Occupied and Unoccupied modes as follows:

##### .1 Occupied:

.1 The VAV terminal unit is controlled within user defined maximum and minimum supply air volume settings. The controller monitors the room temperature sensor and air velocity sensor and modulates the supply air damper.

##### .2 Unoccupied:

.1 The terminal unit is controlled using the night set point. The controller may reset to the Occupied mode for a predetermined time period upon a signal from the control system or manually at the room sensor.

#### .5 Domestic Hot Water Re-circulation System:

.1 The DDC system shall start the domestic hot water re-circulation pump based on time of day.

.2 Pump status shall be indicated at the BACnet router.

#### .6 Building Power Consumption:

.1 DDC system to monitor incoming electrical system power consumption.



PART 1 - GENERAL

- 1.1 Related Sections
- .1 Section 01 11 00 - Summary of work.
  - .2 Section 01 33 00 - Submittal Procedures.
  - .3 Section 01 35 29.06 - Health and Safety Requirements.
  - .4 Section 01 74 21 - Construction/Demolition Waste Management And Disposal.
  - .5 Section 01 78 00 - Closeout Submittals.
  - .6 Section 09 21 16 - Gypsum Board Assemblies.
  - .7 Section 09 30 13 - Ceramic Tiling.
  - .8 Section 23 05 00 - Common Work Results - Mechanical.
- 1.2 Quality Assurance
- .1 Health and Safety:
    - .1 Do construction occupational health and safety in accordance with Section 01 35 29.06 - Health and Safety Requirements.
- 1.3 Submittals
- .1 Submittals in accordance with Section 01 33 00 - Submittal Procedures.
  - .2 Submit data for following:
    - .1 Access Doors.
  - .3 Submit one sample of each type of hand entry access door.
  - .4 Submit one 300 x 300 mm corner sample of each type of body entry door.
- 1.4 Closeout Submittals
- .1 Provide maintenance data for incorporation into manual specified in section 01 78 00 - Closeout Submittals.
-

- 1.5 Waste Management and Disposal .1 Separate and recycle waste materials in accordance with section 01 74 21 - Construction/Demolition Waste Management and Disposal
- 1.6 Delivery Storage and Handling .1 While delivering materials to site follow requirements of section 23 05 00 - Common Work Results - Mechanical.

PART 2 - PRODUCTS

- 2.1 Access Doors .1 Sizes: Except as indicated otherwise, to be minimum sizes as follows:  
.1 For body entry: 800 x 800 mm.  
.2 For hand entry: 450 x 450 mm.
- .2 Construction: Rounded safety corners, concealed hinges, screwdriver latch, anchor straps, able to open 180°.
- .3 Materials:  
.1 Tiled or marble surfaces and other special areas: Stainless steel with brushed satin or polished finish.  
.2 Other areas: Prime coated steel.
- 2.2 Exclusions .1 Lay-in tile ceilings: use unobtrusive identification locators.

PART 3 - EXECUTION

- 3.1 Installation .1 Installation:  
.1 Tiled or marble surfaces: to Section 09 30 13 - Ceramic Tiling.  
.2 Drywall surfaces: to Section 09 21 16 - Gypsum Board Assemblies.
-

- 3.2 Location
- .1 Location: Ensure that equipment is within view and accessible for operating, inspecting, adjusting, servicing without using special tools.
  - .2 Review architectural drawings for room finishes and ceiling installation. Coordinate mechanical components location to minimize number of access doors maintaining sufficient access to service or replace all components.
  - .3 Each element of mechanical system that require service and is located in conceal space shall be equipped with access doors. Contractor to demonstrate the service task is menagable.

PART 1 - GENERAL

- 1.1 Related Sections
- .1 Section 01 11 00 - Summary of work.
  - .2 Section 01 33 00 - Submittal Procedures.
  - .3 Section 01 35 29.06 - Health and Safety Requirements.
  - .4 Section 01 74 21 - Construction/Demolition Waste Management And Disposal.
  - .5 Section 01 78 00 - Closeout Submittals.
  - .6 Section 23 05 00 - Common Work Results - Mechanical.
- 1.2 References
- .1 American National Standards Institute (ANSI)
    - .1 ANSI/NFPA 10-2007, Portable Fire Extinguishers.
- 1.3 Quality Assurance
- .1 Health and Safety:
    - .1 Do construction occupational health and safety in accordance with Section 01 35 29.06 - Health and Safety Requirements.
- 1.4 Submittals
- .1 Submittals in accordance with Section 01 33 00 - Submittal Procedures.
  - .2 Shop Drawings:
    - .1 Submit shop drawings to indicate materials, finishes, method of installation, dimensions construction and assembly details, submit manufacturer's installation instructions and accessories list.
  - .3 Certificates: submit certificates signed by manufacturer certifying that materials comply with specified performance characteristics and physical properties.
-

- 1.5 Closeout Submittals .1 Provide maintenance data for incorporation into manual specified in Section 01 78 00 - Closeout Submittals include:  
.1 Description of fixtures and accessories, giving manufacturers name, type, model, year and rating.
- 1.6 Waste Management and Disposal .1 Separate and recycle waste materials in accordance with Section 01 74 21 - Construction/Demolition Waste Management And Disposal.
- 1.7 Delivery Storage and Handling .1 While delivering materials to site follow requirements of section 23 05 00 - Common Work Results - Mechanical.

PART 2 - PRODUCTS

- 2.1 Materials .1 Stored pressure rechargeable type with hose and nozzle, ULC labelled for A, B and C Class.
- .1 FE-1  
.1 Cabinet: fully-recessed extinguisher cabinet, 200 mm x 425 mm x 125 mm deep, constructed of cold rolled steel with 25 mm turn back. Premier electro-statically applied oven catch baked primer with pull ring catch and reinforced piano hinges. Doors with fitted clear plastic bubble canopy. Complete with 5kg 3A 10BC extinguisher by NFE or approved equivalent.
- .2 FE-2  
.1 Wall hung fire extinguisher 5kg 3A 10BC by NFE or approved equivalent.
- 2.2 Extinguisher Brackets .1 Type recommend by extinguisher manufacturer.
-

- 2.3 Identification
- .1 Identify extinguishers in accordance with recommendations of ANSI/NFPA 10.
  - .2 Attach bilingual tag or label to extinguishers, indicating month and year of installation. Provide space for service dates.

PART 3 - EXECUTION

- 3.1 Installation
- .1 Install or mount extinguishers in cabinets or on brackets as indicated.
  - .2 Coordinate, with Division 1, wall openings location for cabinets installation.
  - .3 Test and certify extinguishers upon job completion, provide test tags.



<b>Project Ref Number :</b>	A000566B
<b>Project Title :</b>	Building A
<b>Client :</b>	DFS Architects
<b>Date :</b>	2018/07/12

CIMA 240, Catherine Street, Suite 110, Ottawa ON, K2P 2G8, Tel.: (613) 860-2462 Fax: (613) 860-1870

This document must be integrated in the contract documents and shall be read with them.

The bidders must ensure that the addendum(s) is (are) listed on the Tender Form and that the associated costs are included in the Tender Price.

**DESCRIPTION**

This addendum, comprising 3 pages and 8 pages of specifications annex, modifies the contract documents as follows:

**SPECIFICATIONS DOCUMENT**

1. In reference to Annex B – Panel Schedule, REPLACE all existing panel schedules pages with new panel schedule pages included in this addendum.

**DRAWINGS**

**1. Drawing E000**

1. Locate the ‘20A-120V Duplex Receptacle...’ symbol description under Power Receptacles, REPLACE entirely with the following:  
“20A-120V TWIST-LOCK SINGLE RECEPTACLE TYPE L5-20R OR AS INDICATED, MOUNTED TO LADDER TRAY SIDE.”

**2. Drawing E001**

1. In reference to Fixture Schedule, provide the following changes:
  - .1 ADD to Type A Fixture Description: EcoForm - GARDCO # ECF-L-96L1A-NW-G2-SF-5W-347-TLRPC-BK-ECF-G2-BK. No alternate.
  - .2 ADD to Type A Mounting: NOVA Poles #NPS60D30AB, Finish: 9702 – Natural aluminum. No alternate.
  - .3 ADD to Type B Fixture Description: EcoForm - GARDCO # ECF-S-64L-1A-NW-G2-SF-5W-347-TLRPC-BK-ECF-SF-G2-BK. No alternate.
  - .4 ADD to Type B Fixture Mounting: NOVA Poles #NPS60D18AB, Finish: 9702 – Natural aluminum. No alternate.
2. In reference to detail 1 – Electrical Distribution and Lighting layout, provide the following changes:
  - .1 Locate lighting fixture ‘B-c.7’ at driveway entrance, RENAME to read ‘A-c.7’.
  - .2 Locate all lighting fixtures ‘A-c.7’ and ‘B-c.7’, RENAME to read ‘A-c.24’ and ‘B-c24’ respectively.

**3. Drawing E002**

1. In reference to detail 2, ADD to detail notes the following:

“PROVIDE A FIBRE OPTIC COMMUNICATION LINK BETWEEN BUILDING A FIRE ALARM CONTROL PANEL AND GUARDHOUSE MONITORING VIA DEDICATED DUCT LEADING TO EXISTING COMMUNICATIONS MANHOLE / DUCTBANK. REFER TO DRAWING NOTE 10 ON DRAWING E001.”

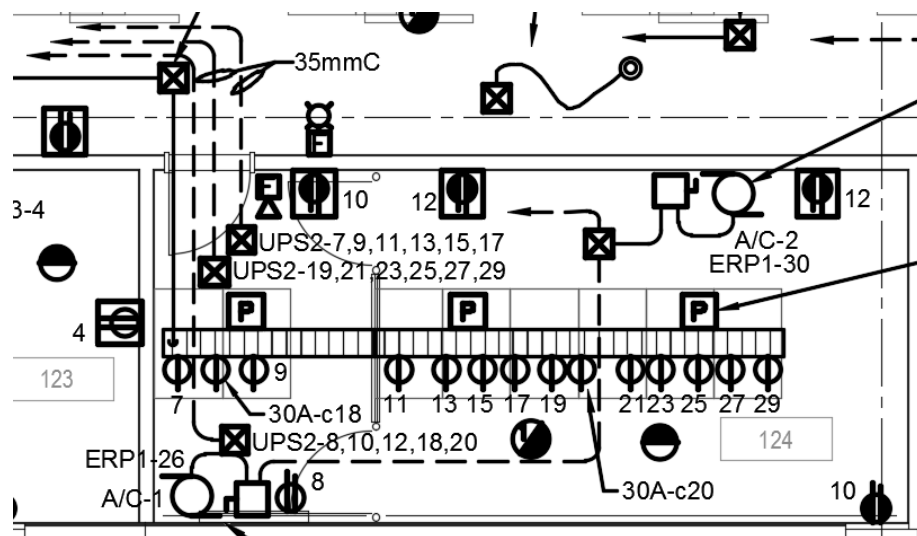
**4. Drawing E200**

1. In reference to room 101:

- .1 Locate raceway junction box ‘URP1’, RENAME to read ‘UPS1’.
- .2 ADD one (1) L5-20A type receptacle c/w dedicated 20A connection and breaker on circuit #11 from panel ‘UPS1’, attached to overhead ladder tray, 610mm next to receptacle circuit #9.

2. In reference to room 124:

1. Add seven (7) L5-20A type receptacle c/w dedicated 20A electrical connection in 35mm conduit raceway and junction box, and associated 20A breakers from ‘UPS2’ electrical panel; circuits 19, 21, 23, 25, 27 and 29, attached to overhead ladder tray. Refer to image below.
2. Add two (2) L5-30A type receptacle c/w dedicated 30a electrical connection c/w associated 30A breakers from ‘UPS2’ electrical panel; circuits 18 and 20, attached to overhead ladder tray. Refer to image below.





## 5. Drawing E300

1. Locate Drawing Note 16, REPLACE entirely with the following:

"PROVIDE TWO (2) HDMI DIRECT SOURCE CABLE RUNS BETWEEN MEETING TABLE AND 'AVTEQ ELT-2000' VIDEO CONFERENCE (VC) FURNITURE VIA UNDER RAISED FLOOR. PROVIDE DUAL HDMI PIGTAIL FLOOR (WALL) PLATE AT 'VC' FURNITURE FLOOR MONUMENT AND AT MEETING TABLE ACCESS MODULE AND CONNECT HDMI CABLES TO PIGTAILS AT BOTH ENDS.

2. Locate drawing Note 17, REPLACE entirely with the following:

"PROVIDE THREE (3) EIA STANDARD NETWORK H-FRAME TYPE RACKING SYSTEM AS PRESENTED IN DETAIL '2/E300', INCLUDING BUT NOT LIMITED TO, CABLE MANAGEMENT, PATCH PANELS, VERTICAL POWER STRIPS AND ASSOCIATED HARDWARE, TO CLIENT INSTRUCTIONS (TBD). PROVIDE COMPLETE INSTALLATION, TO MANUFACTURER'S INSTRUCTIONS, OF CLIENT SUPPLIED NETWORK ENCLOSURES (QTY (8) CABINETS) IN ROOM 124 AS PRESENTED IN DETAIL '3/E300'. PROVIDE ALL REQUIRED RACKING SYSTEMS GROUNDING / BONDING TO CURRENT ELECTRICAL CODE IN ROOMS 101 AND 124."

3. In reference to detail '2', ADD the following text notes:

"NOTES:

- STANDALONE 45U H-FRAME WITH 813 x 457mm (32"x18") ANCHOR BASE PLATE, TOP SUPPORT RAIL, VERTICAL RAILS WITH NUMBERED THREADED MOUNTING HOLES.
- PROVIDE STRUCTURED CABLING FROM ABOVE, DOWN TO PATCH PANELS.
- PROVIDE TWO (2) VERTICAL POWER STRIPS PER H-FRAME ON THE REAR OF FRAMES."

4. In reference to detail '3', REPLACE entirely the bottom notes with the following text:

"NOTES:

- CONNECT CLIENT SUPPLIED CABINETS TO DEDICATED UNDER RAISED FLOOR RACEWAYS FOR STRUCTURED CABLE DISTRIBUTION.
- CONNECT SUPPLIED VERTICAL POWER STRIPS TO TWISTED RECEPTACLE ATTACHED TO LADDER TRAY ABOVE."

## 6. Drawing E400

1. Locate door 102.1 of room 102, REPLACE door type 'D' to read 'E' text.

**- END OF ADDENDUM -**

Issued by: Yvan Farmer



Signature

ANNEX B

Fed from 'ATS2'				Date: July 13, 2018						
Panel Identification: EDP				Main Breaker: 300A						
Location: MAIN ELECTRICAL ROOM 107				Supply Volts: 347/600V, 3PH, 4W						
Main Bus/Breaker Amps: 400A				Installation: SURFACE						
DESCRIPTION	WATTS	AMP.	CIR.	A	B	C	CIR.	AMP.	WATTS	DESCRIPTION
ROOF TOP UNIT 'RTU-1'	6,678	30	1		*		2	90	28,804	ELECTRICAL PANEL ERP1
	6,678		3		*		4		28,804	
	6,678		5			*	6		28,804	
ROOF TOP UNIT 'RTU-3'	6,678	30	7		*		8	150	10,127	UPS UNIT - RM 110
	6,678		9		*		10		10,127	
	6,678		11			*	12		10,127	
5hp AIR COMPRESSOR	1,834	20	13		*		14	20		SPARE
	1,834		15		*		16			
	1,834		17			*	18			
SPACE			19		*		20	20	4,000	2 FF Heaters - Rms 100, 107
			21		*		22	20	5,000	5 BASEBOARD HEATERS
			23			*	24	20	3,060	EXTERIOR LIGHTING - POLES
SPACE			25		*		26			SPACE
			27		*		28			
			29			*	30			
SPACE			31		*		32			SPACE
			33		*		34			
			35			*	36			
SPACE			37		*		38			SPACE
			39		*		40			
			41			*	42			
Total Phase A	58.12	kW								
Total Phase B	59.12	kW								
Total Phase C	57.18	kW								
				<GFI> = Ground fault detector <k> = Breaker locking device Total Panel Load : 174.42 kW						

ANNEX B

Fed from ATS1/TR1				Date: July 13, 2018						
Panel Identification: LS1				Main Breaker: 100A						
Location: MAIN ELECTRICAL ROOM				Supply Volts: 120/208V, 3PH, 4W						
Main Bus: 100A				Installation: SURFACE						
DESCRIPTION	WATTS	AMP.	CIR.	A	B	C	CIR.	AMP.	WATTS	DESCRIPTION
EXTERIOR LIGHTS	800	15	1	->	*	->	2	20	490	CORRIDOR/TOILET LIGHTS
RM. 103, 104, 119 LIGHTS	458	15	3	->	*	->	4	15	274	RM. 118, 119, 121 LIGHTS
RM. 117 LIGHTS	69	15	5	->	*	->	6	15 k	100	EXIT LIGHT
SPARE		15	7	->	*	->	8	15 k	300	Smoke Dampers - Rm 103
SPARE		15	9	->	*	->	10	15		SPARE
SPARE		15	11	->	*	->	12	15		SPARE
SPARE		15	13	->	*	->	14	15		SPARE
SPARE		15	15	->	*	->	16	15 k	200	BATTERY UNIT
SPARE		15	17	->	*	->	18	15 k	500	FIRE ALARM CONTROL PANEL
SPACE			19	->	*	->	20		2,027	LS2 ELECTRICAL PANEL
SPACE			21	->	*	->	22	100	2,027	
SPACE			23	->	*	->	24		2,027	
Total Phase A		4 kW					<GFI> = Ground fault detector			
Total Phase B		3 kW					<k> = Breaker locking device			
Total Phase C		3 kW					Total Panel Load : 9.27 kW			

ANNEX B

Fed from ATS1/TR1/LS1				Date: July 13, 2018						
Panel Identification: LS2				Main Breaker: 100A						
Location: ELEC/MECH ROOM 129				Supply Volts: 120/208V, 3PH, 4W						
Main Bus: 100A				Installation: SURFACE						
DESCRIPTION	WATTS	AMP.	CIR.	A	B	C	CIR.	AMP.	WATTS	DESCRIPTION
BLUE LIGHT	188	15	1	->	*	->	2	20	150	EXIT SIGNS
BLUE LIGHT	164	15	3	->	*	->	4	15	728	LIGHTING
BLUE LIGHT	70	15	5	->	*	->	6	15	900	LIGHTING
LIGHTING ROOM 121B	320	15	7	->	*	->	8	15	544	LIGHTING
LIGHTING ROOM 121B	420	15	9	->	*	->	10	15	1,008	LIGHTING
SPARE		15	11	->	*	->	12	15	1,008	LIGHTING
SPARE		15	13	->	*	->	14	15	380	LIGHTING
SPARE		15	15	->	*	->	16	15 k	200	FIRE ALARM PANEL - RM 129
SPARE		15	17	->	*	->	18	15		SPARE
SPACE			19	->	*	->	20			SPACE
SPACE			21	->	*	->	22			SPACE
SPACE			23	->	*	->	24			SPACE
Total Phase A		2 kW					<GFI> = Ground fault detector			
Total Phase B		3 kW					<k> = Breaker locking device			
Total Phase C		2 kW					Total Panel Load : 6.08 kW			

ANNEX B

Fed from EDP							Date: July 13, 2018			
Panel Identification: ERP1							Main Breaker: 200A			
Location: MAIN ELECTRICAL ROOM							Supply Volts: 120/208V, 3PH, 4W			
Main Bus: 225A							Installation: SURFACE			
DESCRIPTION	WATTS	AMP.	CIR.	A	B	C	CIR.	AMP.	WATTS	DESCRIPTION
Receptacle - Rm 102	400	15	1	⋯	*	⋯	2	20	500	5 Utility Receptacles
Receptacle - Rm 102	400	15	3	⋯	⋯	*	4	15	200	Washroom Receptacles (2)
Receptacle - Rm 102	400	15	5	⋯	⋯	⋯	6	15	200	2 Receptacles - Room 108
Receptacle - Rm 102	400	15	7	⋯	*	⋯	8	15	200	2 receptacles - TV
Receptacle - Rm 102	400	15	9	⋯	⋯	*	10	15	500	Mechanical Power Supply
2 Receptacles - Rms 108, 109	200	15	11	⋯	⋯	⋯	12	20	400	2 Receptacles - Rm 107
H2O & Recirc. Pump - Rm 107	500	15	13	⋯	*	⋯	14	20	400	2 Receptacles - Rm 110
Roof Receptacle	200	20	15	⋯	⋯	⋯	16	15	1,000	Dishwasher
Roof Receptacle	200	20	17	⋯	⋯	*	18	15	700	Microwave
Roof Receptacle	200	20	19	⋯	*	⋯	20		3263	ROOF TOP UNIT RTU-2
Hand Dryer - Rms 104, 105	1,350	20	21	⋯	⋯	*	22	40	3263	
	1,350		23	⋯	⋯	⋯	24		3263	
Assistance Station - Parking	500	15	25	⋯	*	⋯	26		25	1404
Split Receptacle - Rm 108	200	15	27	⋯	⋯	*	28	1404		
	Split Receptacle - Rm 108	200	15	29	⋯	⋯	⋯	30	25	1404
200		15	31	⋯	*	⋯	32	1404		
Split Receptacle - Rm 108	200	15	33	⋯	⋯	*	34	25		1404
	200	15	35	⋯	⋯	⋯	36		1404	
Split Receptacle - Rm 108	200	15	37	⋯	*	⋯	38	15		SPARE
				⋯	⋯	⋯	40	15		SPARE
Fridge - room 108		15	39	⋯	⋯	*	42	15		SPARE
SPARE		15	41	⋯	⋯	*	44	15		SPARE
SPACE			43	⋯	*	⋯	46	15		SPARE
SPACE			45	⋯	⋯	*	48	15		SPARE
SPACE			47	⋯	⋯	⋯	50		11,400	ERP2 PANEL - RM 129
SPACE			49	⋯	*	⋯	52	100	11,400	
SPACE			51	⋯	⋯	*	54		11,400	
SPACE			53	⋯	⋯	⋯	56		7,400	ERP3 PANEL - RM 129
SPACE			55	⋯	*	⋯	58	100	7,400	
SPACE			57	⋯	⋯	*	60		7,400	
SPACE			59	⋯	⋯	⋯	62			
SPACE			61	⋯	*	⋯	64			SPACE
SPACE			63	⋯	⋯	*	66			SPACE
SPACE			65	⋯	⋯	⋯	68			SPACE
SPACE			67	⋯	*	⋯	70			SPACE
SPACE			69	⋯	⋯	*	72			SPACE
SPACE			71	⋯	⋯	*				SPACE

Total Phase A                    28 kW  
 Total Phase B                    29 kW  
 Total Phase C                    29 kW

<GFI> = Ground fault detector  
 <k> = Breaker locking device  
 Total Panel Load : 86.41 kW

ANNEX B

Fed from EPR1							Date: September 27, 2016			
Panel Identification: ERP2							Main Breaker: 100A			
Location: ELECTRICAL ROOM 129							Supply Volts: 120/208V, 3PH, 4W			
Main Bus: 100A							Installation: SURFACE			
DESCRIPTION	WATTS	AMP.	CIR.	A	B	C	CIR.	AMP.	WATTS	DESCRIPTION
Perimeter Station Recepts	800	15	1	~	*		2	15	800	Perimeter Station Recepts
Perimeter Station Recepts	800	15	3	~		*	4	15	800	Perimeter Station Recepts
Perimeter Station Recepts	800	15	5	~			6	15	800	Perimeter Station Recepts
Perimeter Station Recepts	800	15	7	~	*		8	15	800	Perimeter Station Recepts
Perimeter Station Recepts	800	15	9	~		*	10	15	800	Perimeter Station Recepts
2 Corner Television Stations	200	15	11	~			12	15	800	Perimeter Station Recepts
Perimeter Station Recepts	800	15	13	~	*		14	15	800	Perimeter Station Recepts
Perimeter Station Recepts	800	15	15	~		*	16	15	800	Perimeter Station Recepts
Perimeter Station Recepts	800	15	17	~			18	15	800	Perimeter Station Recepts
Perimeter Station Recepts	800	15	19	~	*		20	15	800	Perimeter Station Recepts
Perimeter Station Recepts	800	15	21	~		*	22	15	800	Perimeter Station Recepts
Floor Receptacles	800	20	23	~			24	15	800	Perimeter Station Recepts
Perimeter Station Recepts	800	15	25	~	*		26	15	800	Perimeter Station Recepts
Perimeter Station Recepts	800	15	27	~		*	28	20	800	Perimeter Ptr Station Rec.
Perimeter Station Recepts	800	15	29	~			30	15	800	Perimeter Station Recepts
Perimeter Station Recepts	800	15	31	~	*		32	15	800	Perimeter Station Recepts
Perimeter Station Recepts	800	15	33	~		*	34	15	800	Perimeter Station Recepts
Perimeter Station Recepts	800	15	35	~			36	15	200	2 Corcer Television Stations
Perimeter Station Recepts	800	15	37	~	*		38	15	800	Perimeter Station Recepts
Perimeter Station Recepts	800	15	39	~		*	40	15	800	Perimeter Station Recepts
Perimeter Station Recepts	800	15	41	~			42	15	800	Perimeter Station Recepts
Perimeter Ptr Station Rec.	800	20	43	~	*		44	15	800	Perimeter Station Recepts
Receptacle room 129	200	20	45	~		*	46	15		SPARE
SPARE		15	47	~			48	15		SPARE
SPARE		15	49	~	*		50	15		SPARE
SPARE		15	51	~		*	52	15		SPARE
SPARE		15	53	~			54	15		SPARE
SPACE			55	~	*		56			SPACE
SPACE			57	~		*	58			SPACE
SPACE			59	~			60			SPACE
SPACE			61	~	*		62			SPACE
SPACE			63	~		*	64			SPACE
SPACE			65	~			66			SPACE
SPACE			67	~	*		68			SPACE
SPACE			69	~		*	70			SPACE
SPACE			71	~			72			SPACE

Total Phase A	12.80	kW	<GFI>	=	Ground fault detector
Total Phase B	11.40	kW	<k>	=	Breaker locking device
Total Phase C	10.00	kW	Total Panel Load :		34.20 kW

ANNEX B

Fed from ERP1							Date: July 13, 2018				
Panel Identification: ERP3							Main Breaker: 100A				
Location: ELEC/MECH ROOM 129							Supply Volts: 120/208V, 3PH, 4W				
Main Bus: 100A							Installation: SURFACE				
DESCRIPTION	WATTS	AMP.	CIR.	A	B	C	CIR.	AMP.	WATTS	DESCRIPTION	
Dedicated Recept. - Rm 127	500	20	1	⋯	*	⋯	2	15	600	Desk Receptacle - Rm 121B	
Dedicated Recept. - Rm 127	500	20	3	⋯	⋯	*	4	15	600	Desk Receptacle - Rm 121B	
Dedicated Recept. - Rm 127	500	20	5	⋯	⋯	⋯	6	15	600	Desk Receptacle - Rm 121B	
Dedicated Recept. - Rm 127	500	20	7	⋯	*	⋯	8	15	600	Desk Receptacle - Rm 121B	
Dedicated Recept. - Rm 127	500	20	9	⋯	⋯	*	10	15	600	Desk Receptacle - Rm 121B	
Dedicated Recept. - Rm 127	500	20	11	⋯	⋯	⋯	12	15	600	Desk Receptacle - Rm 121B	
Dedicated Recept. - Rm 127	500	20	13	⋯	*	⋯	14	15	600	Desk Receptacle - Rm 121B	
Dedicated Recept. - Rm 127	500	20	15	⋯	⋯	*	16	15	600	Desk Receptacle - Rm 121B	
Service recept. - Rm 121B	200	20	17	⋯	⋯	*	18	15	300	Column Recep. - Rm 121B	
Podium Receptacle - Rm 121B	300	15	19	⋯	*	⋯	20	15	600	Desk Receptacle - Rm 121B	
Podium Receptacle - Rm 121B	600	15	21	⋯	⋯	*	22	15	600	Desk Receptacle - Rm 121B	
Desk Receptacle - Rm 121B	600	15	23	⋯	⋯	⋯	24	15	600	Desk Receptacle - Rm 121B	
Desk Receptacle - Rm 121B	600	15	25	⋯	*	⋯	26	15	600	Desk Receptacle - Rm 121B	
Desk Receptacle - Rm 121B	600	15	27	⋯	⋯	*	28	15	600	Desk Receptacle - Rm 121B	
Desk Receptacle - Rm 121B	600	15	29	⋯	⋯	⋯	30	15	600	Desk Receptacle - Rm 121B	
Desk Receptacle - Rm 121B	600	15	31	⋯	*	⋯	32	15	600	Desk Receptacle - Rm 121B	
Desk Receptacle - Rm 121B	600	15	33	⋯	⋯	*	34	15	600	Desk Receptacle - Rm 121B	
SPARE		15	35	⋯	⋯	*	36	15	600	Desk Receptacle - Rm 121B	
SPARE		15	37	⋯	*	⋯	38	15		SPARE	
SPARE		15	39	⋯	⋯	*	40	15		SPARE	
SPARE		15	41	⋯	⋯	⋯	42	15		SPARE	
SPARE		15	43	⋯	*	⋯	44	15		SPARE	
SPARE		15	45	⋯	⋯	*	46	15		SPARE	
SPARE		15	47	⋯	⋯	⋯	48	15		SPARE	
SPARE		15	49	⋯	*	⋯	50	15		SPARE	
SPARE		15	51	⋯	⋯	*	52	15		SPARE	
SPARE		15	53	⋯	⋯	⋯	54	15		SPARE	
SPACE			55	⋯	*	⋯	56			SPACE	
SPACE			57	⋯	⋯	*	58			SPACE	
SPACE			59	⋯	⋯	⋯	60			SPACE	
SPACE			61	⋯	*	⋯	62			SPACE	
SPACE			63	⋯	⋯	*	64			SPACE	
SPACE			65	⋯	⋯	⋯	66			SPACE	
SPACE			67	⋯	*	⋯	68			SPACE	
SPACE			69	⋯	⋯	*	70	20	1,500	2kW FF Heaters - Rms 140, 141	
SPACE			71	⋯	⋯	*	72	1,500			
Total Phase A	6.60	kW							<GFI> = Ground fault detector		
Total Phase B	8.40	kW							<k> = Breaker locking device		
Total Phase C	7.20	kW							Total Panel Load : 22.20 kW		

ANNEX B

Fed from UPS				Date: July 13, 2018						
Panel Identification: UPS1				Main Breaker: 60A						
Location: ROOM 110				Supply Volts: 120/208V, 3PH, 4W						
Main Bus: 100A				Installation: SUSFACE						
DESCRIPTION	WATTS	AMP.	CIR.	A	B	C	CIR.	AMP.	WATTS	DESCRIPTION
Dedicated Recept. - Rm 101	500	15	1	-	*		2	15	750	Dedicated Recept. - Rm 101
Dedicated Recept. - Rm 101	500	15	3	-		*	4	15	750	Dedicated Recept. - Rm 101
Dedicated Recept. - Rm 101	800	15	5	-		*	6	20	1,000	Ded. Twist Recept. - Rm 101
Dedicated Recept. - Rm 101	500	15	7	-	*		8	15		SPARE
Ded. Twist Recept. - Rm 101	1,000	20	9	-		*	10	15		SPARE
Ded. Twist Recept. - Rm 101	1,000	20	11	-		*	12	15		SPARE
SPARE		15	13	-	*		14	15		SPARE
SPARE		15	15	-		*	16	15		SPARE
SPARE		15	17	-		*	18	15		SPARE
SPACE			19	-	*		20			SPACE
SPACE			21	-		*	22			SPACE
SPACE			23	-		*	24			SPACE
Total Phase A	1.75	kW		<GFI> = Ground fault detector						
Total Phase B	2.25	kW		<k> = Breaker locking device						
Total Phase C	2.80	kW		Total Panel Load : 6.80 kW						



ANNEX B

Fed from UPS				Date: July 13, 2018						
Panel Identification: UPS2				Main Breaker: 60A						
Location: ELECTRICAL ROOM 129				Supply Volts: 120/208V, 3PH, 4W						
Main Bus: 100A				Installation: SUSFACE						
DESCRIPTION	WATTS	AMP.	CIR.	A	B	C	CIR.	AMP.	WATTS	DESCRIPTION
Receptacles - Rm 121C	300	15	1	⎓	*		2	15	300	Receptacles - Rm 121A
Receptacles - Rm 121C	300	15	3	⎓		*	4	15	300	Receptacles - Rm 121A
Receptacles - Rm 121C	300	15	5	⎓		*	6	15	300	Receptacles - Rm 121A
Ded. Twist Recept. - Rm 124	1,000	20	7	⎓	*		8	15	200	Backing Plywd Rec - Rm 124
Ded. Twist Recept. - Rm 124	1,000	20	9	⎓		*	10	20	200	Col./Floor Recept. - Rm 124
Ded. Twist Recept. - Rm 124	1,000	20	11	⎓		*	12	20	200	Floor receptacles - Rm 124
Ded. Twist Recept. - Rm 124	1,000	20	13	⎓	*		14	30	1,560	RF SHIELD ENCLOSURE - A
Ded. Twist Recept. - Rm 124	1,000	20	15	⎓		*	16			
Ded. Twist Recept. - Rm 124	1,000	20	17	⎓		*	18	30	1,500	Ded. Twist Recept. - Rm 124
Ded. Twist Recept. - Rm 124	1,000	20	19	⎓	*		20	30	1,500	Ded. Twist Recept. - Rm 124
Ded. Twist Recept. - Rm 124	1,000	20	21	⎓		*	22	30	1,560	RF SHIELD ENCLOSURE - B
Ded. Twist Recept. - Rm 124	1,000	20	23	⎓		*	24			
Ded. Twist Recept. - Rm 124	1,000	20	25	⎓	*		26	15		SPARE
Ded. Twist Recept. - Rm 124	1,000	20	27	⎓		*	28	15		
Ded. Twist Recept. - Rm 124	1,000	20	29	⎓		*	30	15		
SPARE		15	31	⎓	*		32	15		
SPARE		15	33	⎓		*	34	15		
		15	35	⎓		*	36	15		
		15	37	⎓	*		38	15		
		15	39	⎓		*	40	15		
		15	41	⎓		*	42	15		
Total Phase A	7.86	kW		<GFI> = Ground fault detector						
Total Phase B	7.92	kW		<k> = Breaker locking device						
Total Phase C	7.80	kW		Total Panel Load : 23.58 kW						

Proposal Ref: 7207528

---

The following revisions and clarifications to the tender documents are effective immediately. This addendum will form part of the contract documents. Revisions to the drawings are outlined in structural sketches that are attached with this addendum. A revision number located within a triangle denotes changes to the drawings.

**1.1 Structural Drawings:**

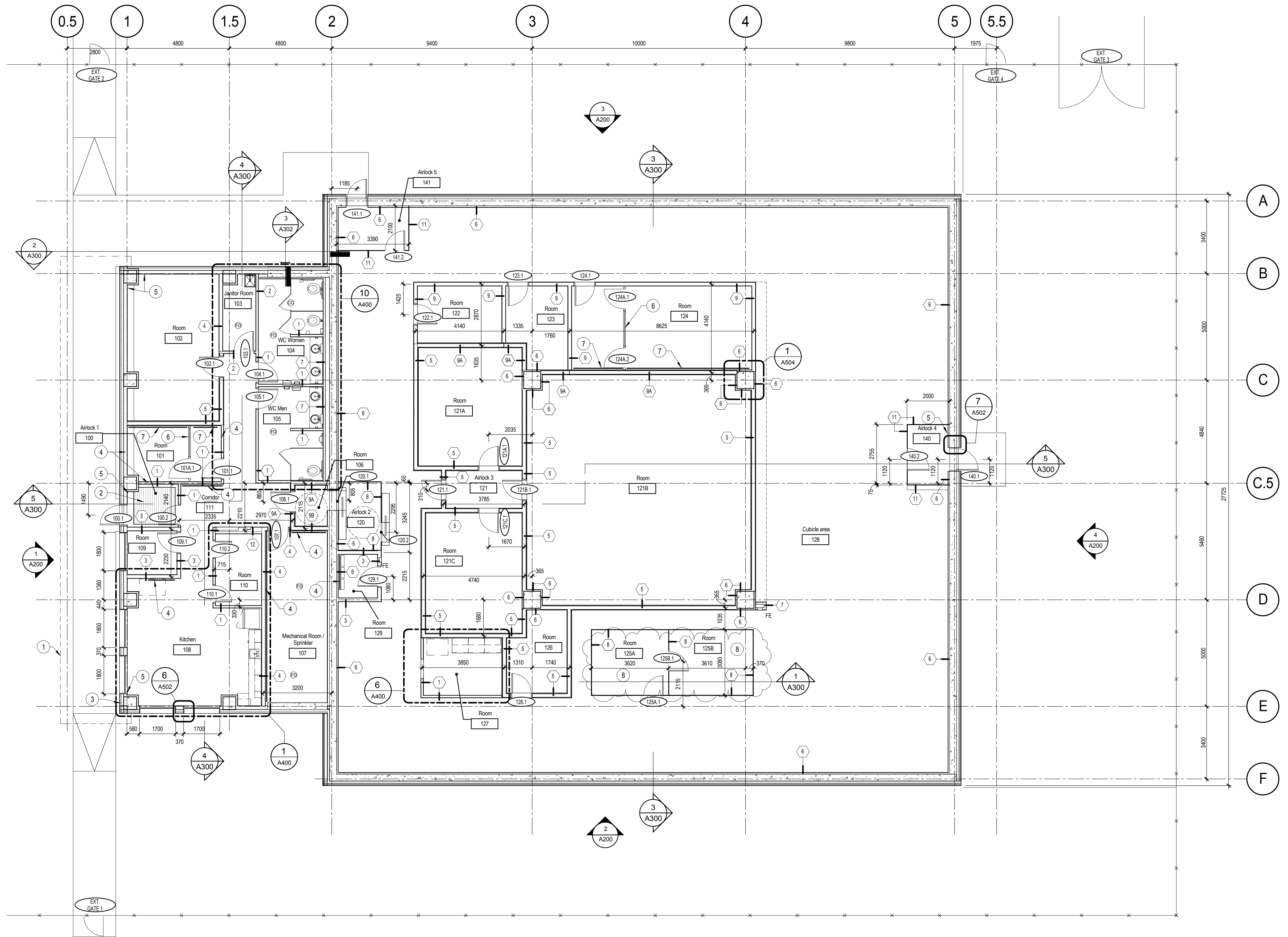
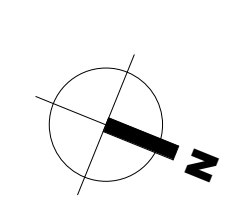
**1.1.1 S001 – General Notes and Details:**

- Item D03-11: Concrete Mixes:
  - Delete reference to “Columns: Grid 5.5”.
  - Delete reference to “Suspended Slabs: Grids 5-5.5 (Canopy)”.

**1.2 Structural Specifications:** No changes required.

**1.3 Structural Addenda:** No changes required.

**END OF SECTION**



1 GROUND FLOOR PLAN  
A100 Scale / Echelle: 1: 100

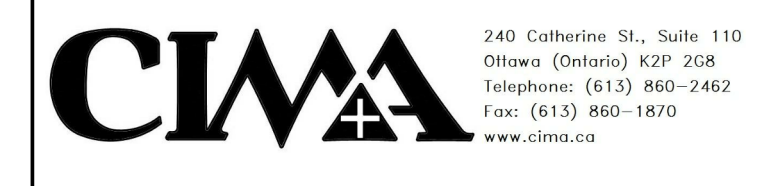
LEGEND	
1.2	GRID
1001	ROOM NUMBER
46	WALL TYPE
FD	FLOOR DRAIN (TYP.); SEE MECH.
FE	CLEAN-OUT (TYP.); SEE MECH.
FE	FIRE EXTINGUISHER CABINET (TYP.); SEE MECH.

- GENERAL NOTES**
- ALL ARCHITECTURAL DRAWINGS TO BE READ IN CONJUNCTION WITH STRUCTURAL, MECHANICAL, ELECTRICAL, CIVIL AND TELECOMMUNICATION DRAWINGS
  - ALL DIMENSIONS TAKEN FROM NEW PARTITION CENTRE
  - ALL DOOR FRAMES ARE 100mm FROM PERPENDICULAR WALL UNLESS OTHERWISE INDICATED
  - FURNITURE LAYOUTS ARE FOR INFORMATION ONLY. ALL FURNITURE IS THE CLIENT'S RESPONSIBILITY AND ARE OFF-CONTRACT
  - PROVIDE AND INSTALL 19mm PLYWOOD BLOCKING BETWEEN METAL STUDS FOR HANGING BATHROOM ACCESSORIES, MILLWORK AND ALL OTHER ELEMENTS ATTACHED TO WALL
  - ALL MATERIAL AND FLAME RETARDANT SEALANTS INDICATED IN SPECIFICATIONS TO BE INSTALLED IN ALL FIRE-RATED PARTITIONS. ENSURE FLAME RETARDANTS CONTINUITY AT CONCRETE SLAB AND ROOFING CONNECTIONS AND ALL MECHANICAL, ELECTRICAL OR OTHER ENTRIES IN THESE PARTITIONS
  - ALL ROOMS CONTAINING FLOOR DRAIN MUST BE SLOPED TOWARD DRAIN
  - ALL WALLS TO EXTEND FULL HEIGHT FROM SLAB TO SLAB
  - FOR ALL STC RATED WALL PENETRATIONS, INCLUDING MECHANICAL AND ELECTRICAL, REFER TO DETAIL 1A/505
  - FOR ALL PENETRATIONS IN THE CONCRETE WALL ALONG GRID LINE 2, SEE DETAIL 3A/505

- NOTES**
- LINE OF CANOPY / ROOF OVERHANG ABOVE
  - FOOTGRILL; SEE DETAIL 8 / A504
  - SIAMESE CONNECTION; SEE MECHANICAL
  - PROVIDE 16mm PLYWOOD NAILING SURFACE FOR MECHANICAL / ELECTRICAL EQUIPMENT; SEE ELECTRICAL AND MECHANICAL FOR EQUIPMENT LOCATION
  - PROVIDE 19mm EXTERIOR GRADE PLYWOOD SUPPORT FOR ANCILLARY MOUNT; COORDINATE EXACT LOCATION AND NUMBER OF OF SUPPORT WITH DEPARTMENTAL REPRESENTATIVE.
  - WIRE MESH PARTITIONS
  - PLYWOOD BACKING FOR ANCILLARY SYSTEM. SEE DETAIL 2A/505
  - RF SHIELDED ROOMS 125A AND 125B TO BE SUPPLIED AND INSTALLED BY OWNER



400, boul. de Maisonneuve O., bur. 1250  
Montréal (Québec) H3A 1L4  
T: (514) 879-1708 F: (514) 861-6219 www.dfsarch.com



plan-repère key plan

L'entrepreneur doit vérifier les dimensions des dessins et les conditions de chantier avant de débiter les travaux. Aviser les professionnels de toutes divergences aux documents de construction. Ne pas mesurer sur les dessins.



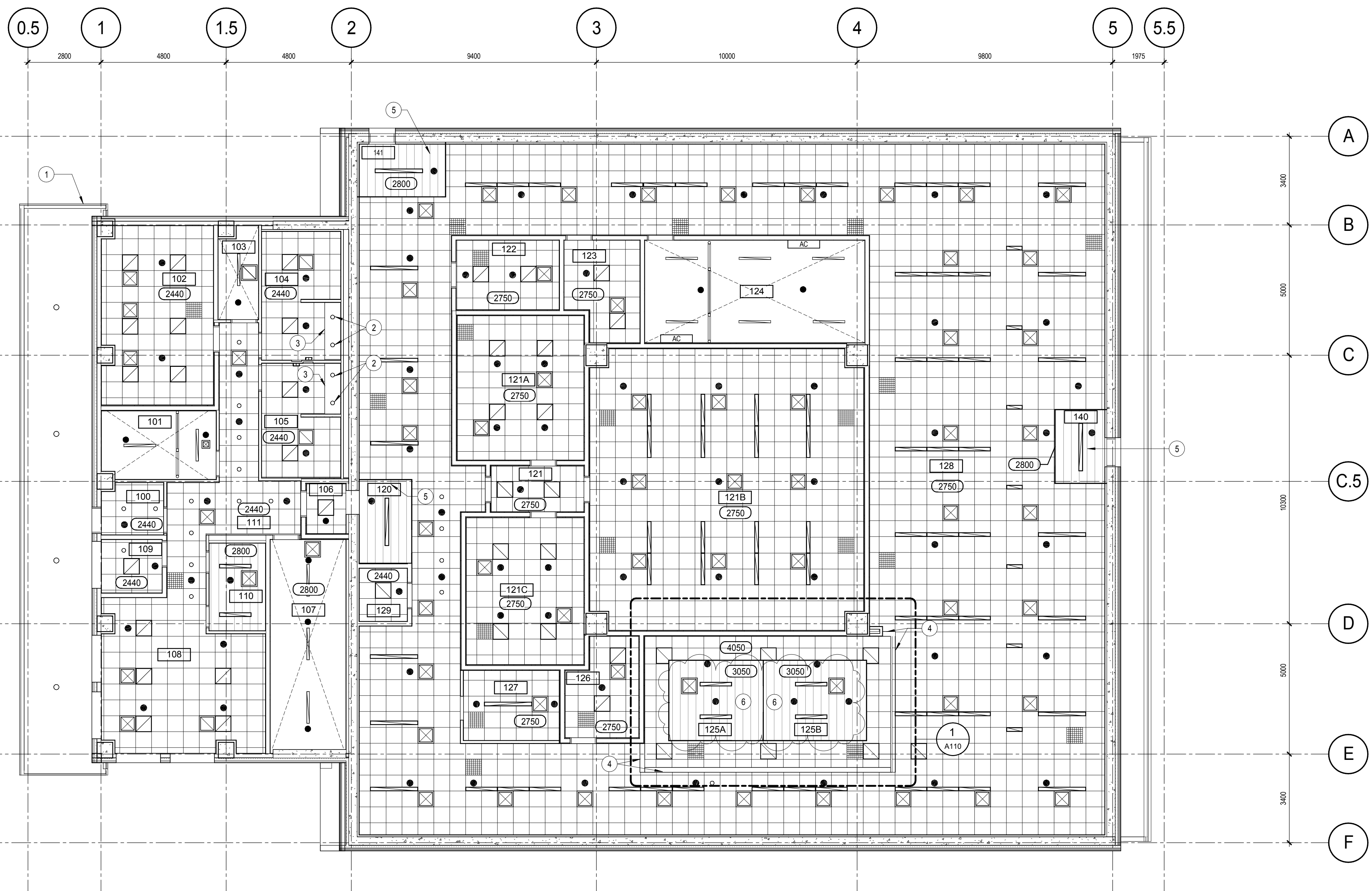
no.	description	date
2	ISSUED FOR ADDENDA A-01	2018-07-19
1	ISSUED FOR TENDER	2018-06-12

project PROJECT BUILDING A

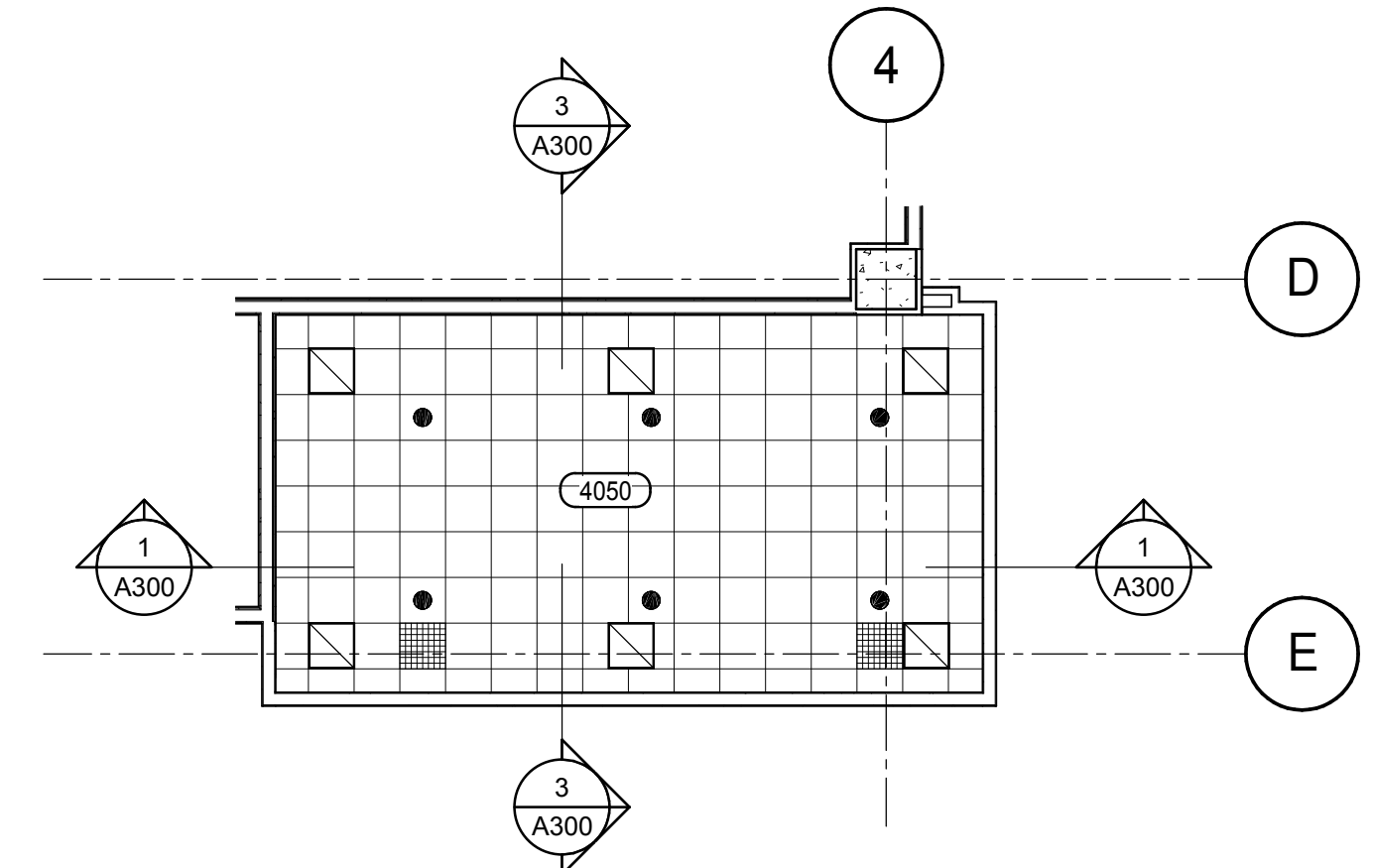
dessin drawing  
GROUND FLOOR PLAN

conception C.A.	conception	no. dossier 4956	project no.
dessiné M.C.R. / A.M.	drawn	fichier DAO File Path	CAD file
approuvé C.A.	approved	dossier client 7207528	client file
échelle As indicated	scale	imprimé 01/09/2017	plot date
no. page	sheet number	rev	

A100 2



**2** REFLECTED CEILING PLAN  
A110 Scale / Echelle: 1 : 100



**1** REFLECTED CEILING PLAN - ABOVE ROOM 125  
A110 Scale / Echelle: 1 : 100

**LEGEND**

- 1.2** GRID
- 1001** ROOM NUMBER
- WALL : SEE PLAN FOR PARTITION TYPE
- 2970** CEILING HEIGHT (ABOVE FINISH FLOOR)
- ACOUSTICAL TILE SUSPENDED CEILING
- MODULAR RF SHIELDING PANEL
- EXPOSED STRUCTURE
- SOFFIT
- ROOM MANUFACTURE'S CEILING
- LIGHTING FIXTURES; SEE ELEC.
- DIFFUSER (TYP.); SEE MECH.
- RETURN (TYP.); SEE MECH.
- SPRINKLER (TYP.); SEE MECH.
- EVAPORATOR (TYP.); SEE MECH.

**GENERAL NOTES**

- ALL ARCHITECTURAL DRAWINGS TO BE READ IN CONJUNCTION WITH STRUCTURAL, MECHANICAL, ELECTRICAL, CIVIL AND TELECOMMUNICATION DRAWINGS
- ALL LIGHTING FIXTURES TO BE POSITIONED AT CENTER OF ACOUSTICAL TILE UNLESS OTHERWISE INDICATED
- ALL SPRINKLERS TO BE POSITIONED AT ACOUSTICAL TILE CENTER UNLESS OTHERWISE INDICATED, COORDINATE WITH MECHANICAL PLANS
- CONTRACTOR TO INCLUDE ADDITIONAL SUSPENSION SECTION AND ACOUSTICAL TILE CUTTING AS TO ALLOW CORRECT INSTALLATION OF ELECTRICAL AND MECHANICAL ELEMENTS. CONTRACTOR TO REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR EQUIPMENT LOCATION
- CENTER ACOUSTICAL CEILING GRID IN EACH ROOM UNLESS OTHERWISE INDICATED
- ALL LIGHTING FIXTURE TO BE 2800mm FROM FINISH FLOORING UNLESS OTHERWISE INDICATED
- EXPOSED CONCRETE SLAB AND STEEL DECK AT CEILING TO BE PAINTED UNLESS OTHERWISE INDICATED. STRUCTURE TO BE PRIMED IN FACTORY BY MANUFACTURER AND PAINTED ON SITE.
- CONCRETE SLAB ABOVE ACOUSTICAL TILE CEILING TO BE PAINTED
- PAINT ALL MECHANICAL AND ELECTRICAL CONDUITS AT CEILING IN SAME COLOUR AS CEILING

**NOTES**

- CANOPY
- LOCATION OF LIGHT FIXTURE
- RECESSED WOODEN BOX COVERED WITH PLASTIC LAMINATE
- GYPSUM WALLBOARD BULKHEAD
- ACOUSTICAL TILE SUSPENDED CEILING TO CONTINUE ABOVE ROOM MANUFACTURER'S CEILING
- RF SHIELDED ROOMS 125A AND 125B TO BE SUPPLIED AND INSTALLED BY OWNER

**DFS**  
architecture & design  
400, boul. de Maisonneuve O., bur. 1250  
Montréal (Québec) H3A 1L4  
T: (514) 879-1708 F: (514) 861-6219 www.dfsarch.com

**CLELAND JARDINE**  
ENGINEERING LTD.  
240 Catherine St., Suite 110  
Ottawa (Ontario) K2P 2G8  
Telephone: (613) 860-2462  
Fax: (613) 860-1870  
www.cjma.ca

plan-repère key plan

L'entrepreneur doit vérifier les dimensions des dessins et les conditions de chantier avant de débiter les travaux. Aviser les professionnels de toutes divergences aux documents de construction. Ne pas mesurer sur les dessins.

stamp  
ONTIARIO ASSOCIATION  
ANDREW HOUD  
LICENSEE  
5927

no.	description	date
2	ISSUED FOR ADDENDA A-01	2018-07-19
1	ISSUED FOR TENDER	2018-06-12

REVISION

project project

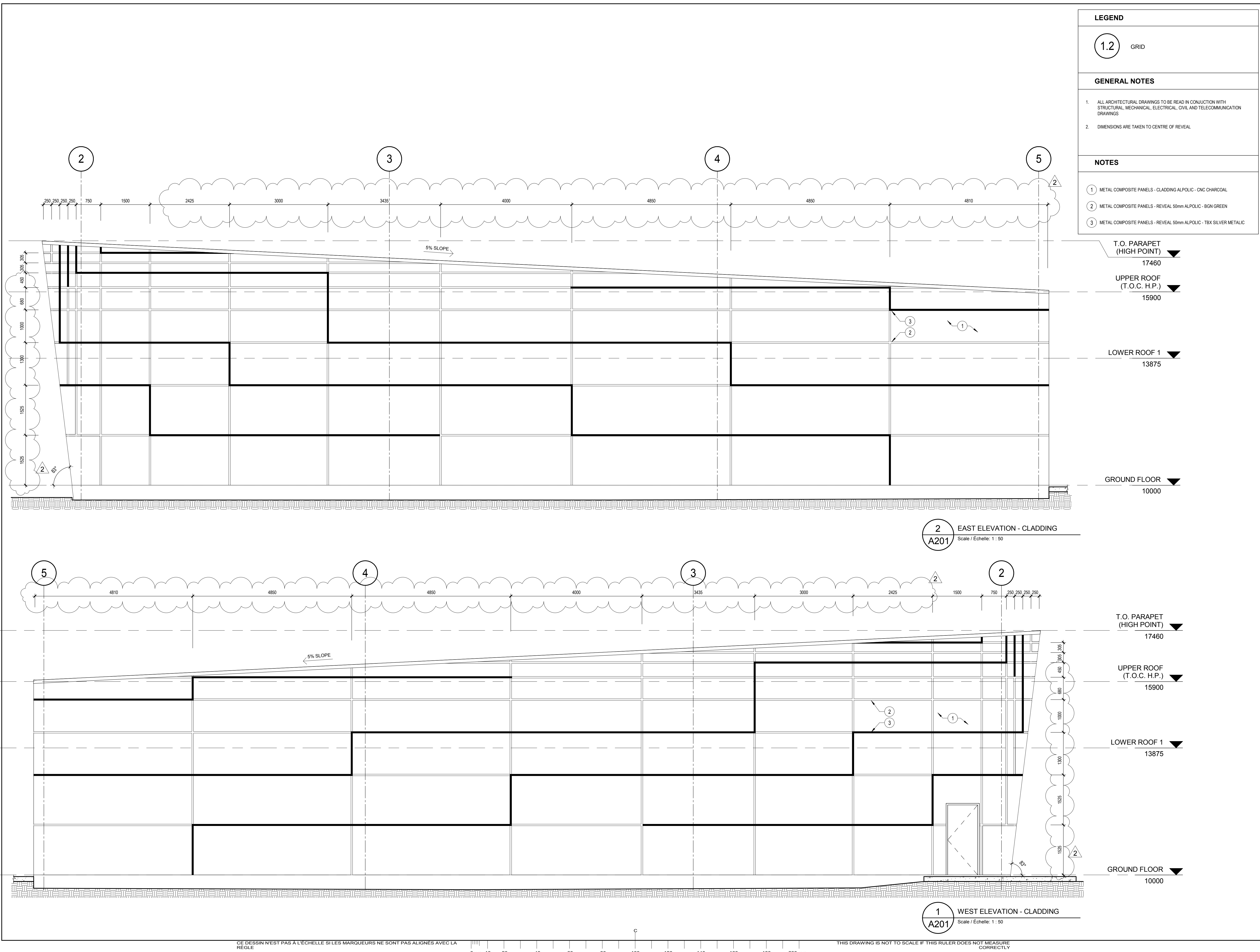
**PROJECT BUILDING A**

dessin drawing

**REFLECTED CEILING PLAN**

conception C.A.	conception	no. dossier 4956	project no.
dessiné M.C.R. / A.M./ F.B.	drawn	fichier DAO File Path	CAD file
approuvé C.A.	approved	dossier client 7207528	client file
échelle As indicated	scale	imprimé 01/09/2017	plot date
no. page	sheet number		rev

**A110** **2**



**LEGEND**

1.2 GRID

**GENERAL NOTES**

- ALL ARCHITECTURAL DRAWINGS TO BE READ IN CONJUNCTION WITH STRUCTURAL, MECHANICAL, ELECTRICAL, CIVIL AND TELECOMMUNICATION DRAWINGS
- DIMENSIONS ARE TAKEN TO CENTRE OF REVEAL

**NOTES**

- METAL COMPOSITE PANELS - CLADDING ALPOLIC - CNC CHARCOAL
- METAL COMPOSITE PANELS - REVEAL 50mm ALPOLIC - BGN GREEN
- METAL COMPOSITE PANELS - REVEAL 50mm ALPOLIC - TBX SILVER METALIC

T.O. PARAPET (HIGH POINT) 17460

UPPER ROOF (T.O.C. H.P.) 15900

LOWER ROOF 1 13875

GROUND FLOOR 10000

2 EAST ELEVATION - CLADDING  
Scale / Echelle: 1 : 50

1 WEST ELEVATION - CLADDING  
Scale / Echelle: 1 : 50

CE Dessin n'est pas à l'échelle si les marqueurs ne sont pas alignés avec la règle

0mm 10 20 40 60 80 100 120 140 160 180 200 mm

THIS DRAWING IS NOT TO SCALE IF THIS RULER DOES NOT MEASURE CORRECTLY



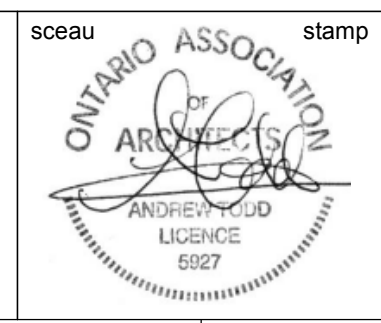
400, boul. de Maisonneuve O., bur. 1250  
Montréal (Québec) H3A 1L4  
T: (514) 879-1708 F: (514) 861-6219 www.dfsarch.com

Dans la province de Québec, les services architecturaux de DFS sont fournis par Fish Pellicier Todd architects.



plan-repère key plan

L'entrepreneur doit vérifier les dimensions des dessins et les conditions de chantier avant de débiter les travaux. Aviser les professionnels de toutes divergences aux documents de construction. Ne pas mesurer sur les dessins.



no.	description	date
2	ISSUED FOR ADDENDA A-01	2018-07-19
1	ISSUED FOR TENDER	2018-06-12

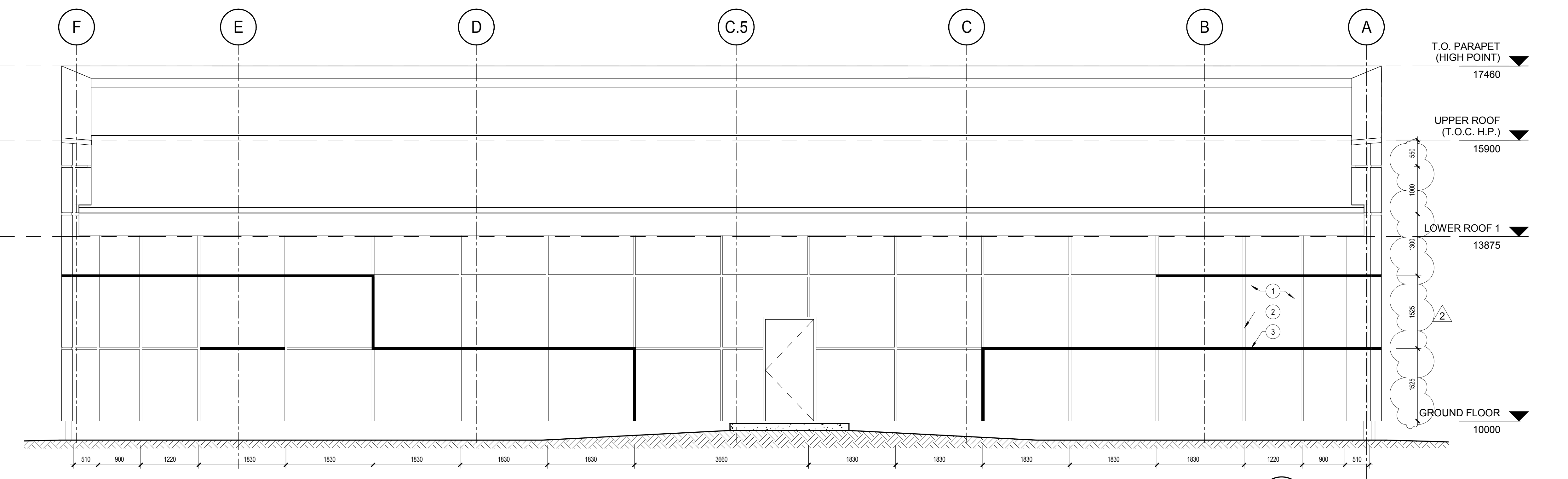
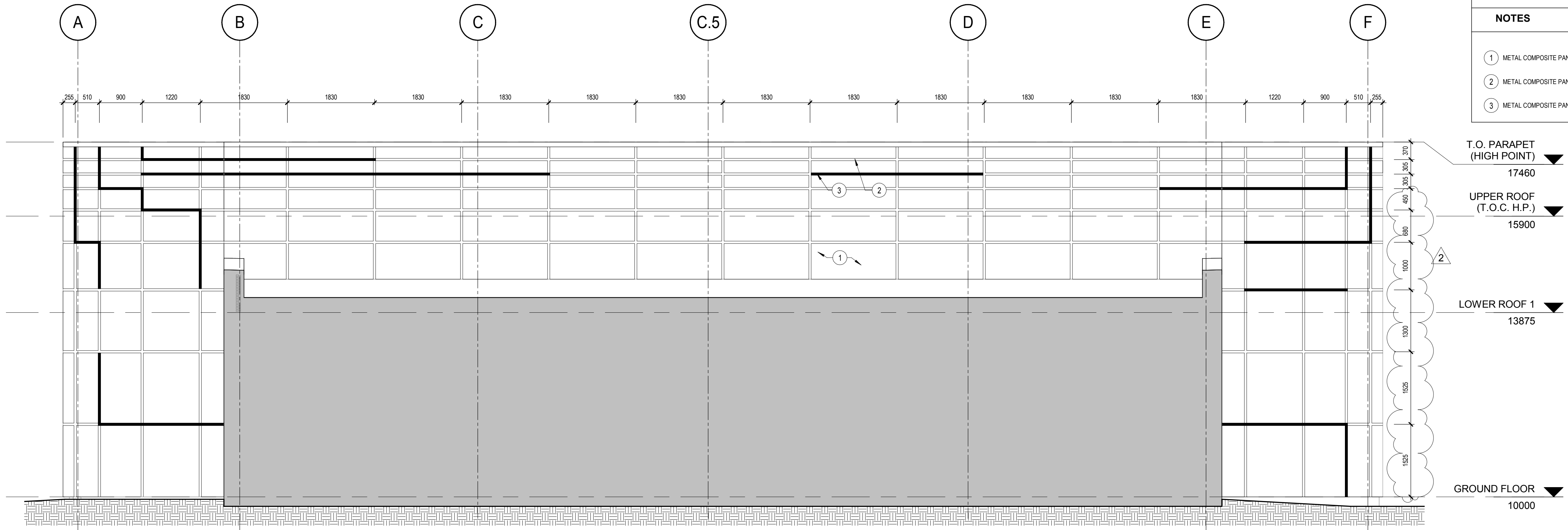
project PROJECT BUILDING A

dessin drawing ELEVATIONS - EXTERIOR CLADDING

conception C.A.	conception	no. dossier 4956	project no.
dessiné A.M.	drawn	fichier DAO File Path	CAD file
approuvé C.A.	approved	dossier client 7207528	client file
échelle As indicated	scale	imprimé 01/09/2017	plot date
no. page	sheet number	rev	

A201 2

LEGEND	
1.2	GRID
GENERAL NOTES	
1. ALL ARCHITECTURAL DRAWINGS TO BE READ IN CONJUNCTION WITH STRUCTURAL, MECHANICAL, ELECTRICAL, CIVIL AND TELECOMMUNICATION DRAWINGS	
2. DIMENSIONS ARE TAKEN TO CENTRE OF REVEAL	
NOTES	
1	METAL COMPOSITE PANELS - CLADDING ALPOLIC - CNC CHARCOAL
2	METAL COMPOSITE PANELS - REVEAL 50mm ALPOLIC - BGN GREEN
3	METAL COMPOSITE PANELS - REVEAL 50mm ALPOLIC - TBX SILVER METALIC



plan-repère key plan

L'entrepreneur doit vérifier les dimensions des dessins et les conditions de chantier avant de débiter les travaux. Aviser les professionnels de toutes divergences aux documents de construction. Ne pas mesurer sur les dessins.



no.	description	date
2	ISSUED FOR ADDENDA A-01	2018-07-19
1	ISSUED FOR TENDER	2018-06-12

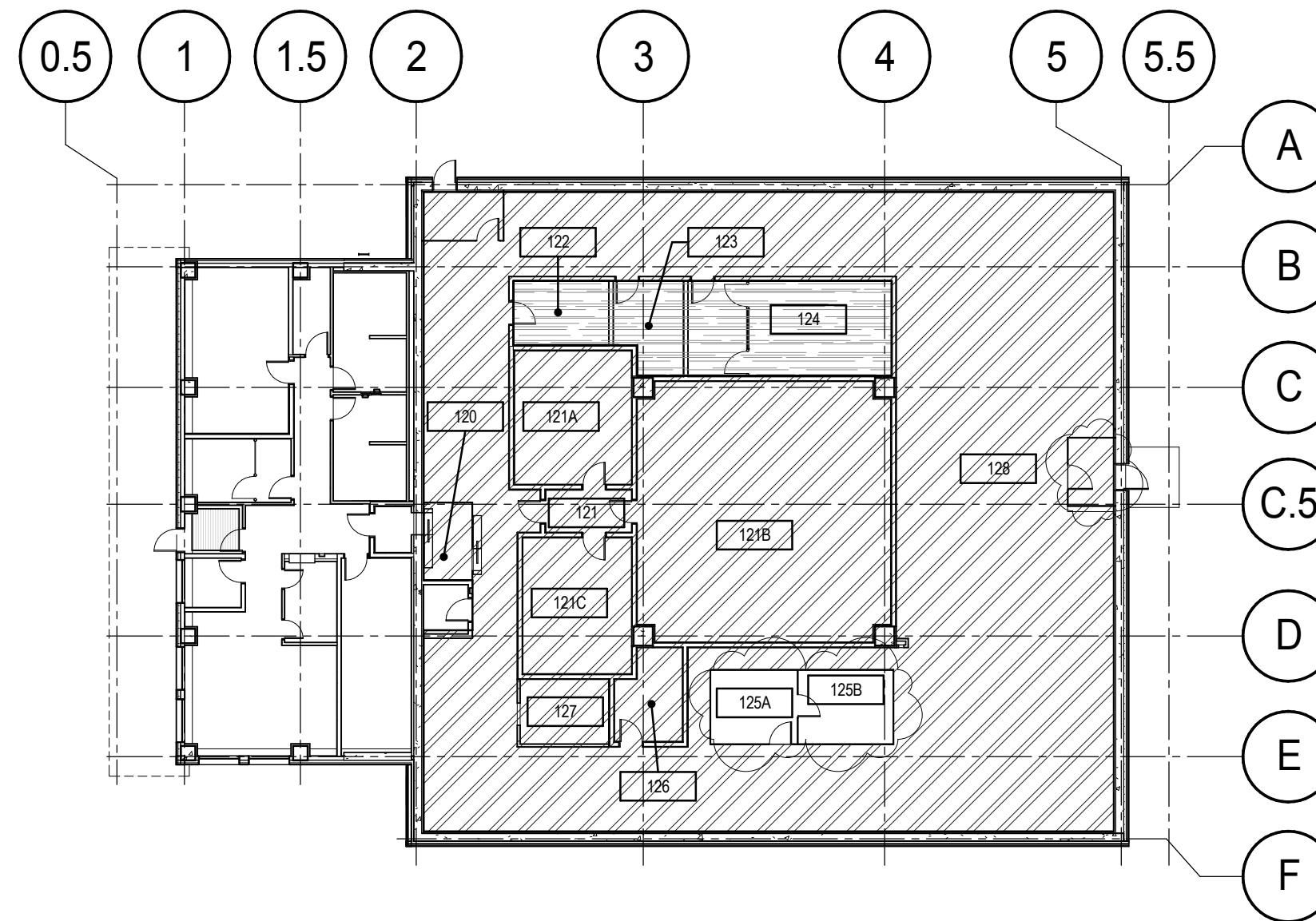
project PROJECT BUILDING A

dessin drawing  
**ELEVATIONS - EXTERIOR CLADDING**

conception C.A.	conception	no. dossier 4956	project no.
dessiné A.M.	drawn	fichier DAO File Path	CAD file
approuvé C.A.	approved	dossier client 7207528	client file
échelle As indicated	scale	imprimé 01/09/2017	plot date
no. page	sheet number	rev	

**A202** **2**

FINISH SCHEDULE										
No	NAME	FLOOR	BASE	WALL FINISH				CEILING	COMMENTS	REV.
				NORTH	SOUTH	EAST	WEST			
100	Airlock 1	TV3	RB	P	P	P	P	AT		
101	Room	TV3	RB	P	P	P	P	ES		
102	Room	TV1	RB	P	P	P	P	AT		
103	Janitor Room	TV4	RB	C/P	P	P	P	C/P	ES	
104	WC Women	TV2	C	C	C	C	C	AT		
105	WC Men	TV2	C	C	C	C	C	AT		
106	Room	TV4	RB	P	P	P	P	AT		
107	Mechanical Room / Sprinkler	TV4	RB	P	P	P	P	ES		
108	Kitchen	TV4	RB	P	P	C/P	P	AT		
109	Room	TV1	RB	P	P	P	P	AT		
110	Room	TV4	RB	P	P	P	P	RMC		
111	Corridor	TV4	RB	P	P	P	P	AT		
120	Airlock 2	TV1	RB	P	P	P	P	RMC		
121	Airlock 3	TV1	RB	P	P	P	P	AT		
121A	Room	TV1	RB	P	P	P	P	AT		
121B	Room	TV1	RB	WBP	WBP	P	WBP	AT		
121C	Room	TV1	RB	P	P	P	P	AT		
122	Room	TV3	RB	P	P	P	P	AT		
123	Room	TV3	RB	P	P	P	P	AT		
124	Room	TV3	RB	P	P	P	P	ES		
125A	Room	TV3	RB	P	P	P	P	RMC		
125B	Room	TV3	RB	P	P	P	P	RMC		
126	Room	TV1	RB	P	P	P	P	AT		
127	Room	TV1	RB	P	P	P	P	AT		
128	Cubicle area	TV1	RB	P	P	P	P	AT		
129	Room	TV4	RB	P	P	P	P	AT		
140	Airlock 4	TV3	RB	P	P	P	P	RMC		
141	Airlock 5	TV3	RB	P	P	P	P	RMC		



2 RAISED FLOOR PLAN  
Scale / Echelle: 1 : 250

**LEGEND**

**FLOOR FINISH**

- TV1 STATIC DISSIPATIVE CARPET TILE, HIGH THREAD COUNT.
- TV2 CERAMIC
- TV3 STATIC DISSIPATIVE RESILIENT TILE
- TV4 RESILIENT TILE
- RAISED FLOOR STATIC LOAD RATING 1250 LBS
- RAISED FLOOR STATIC LOAD RATING 1500 LBS

**WALL FINISH**

- 1 ACCENT 1 : SW 0073 CHARTREUSE
- 2 ACCENT 2 : SW 6662 SUMMER DAY
- 3 ACCENT 3 : SW 6480 LAGOON

**ABBREVIATION**

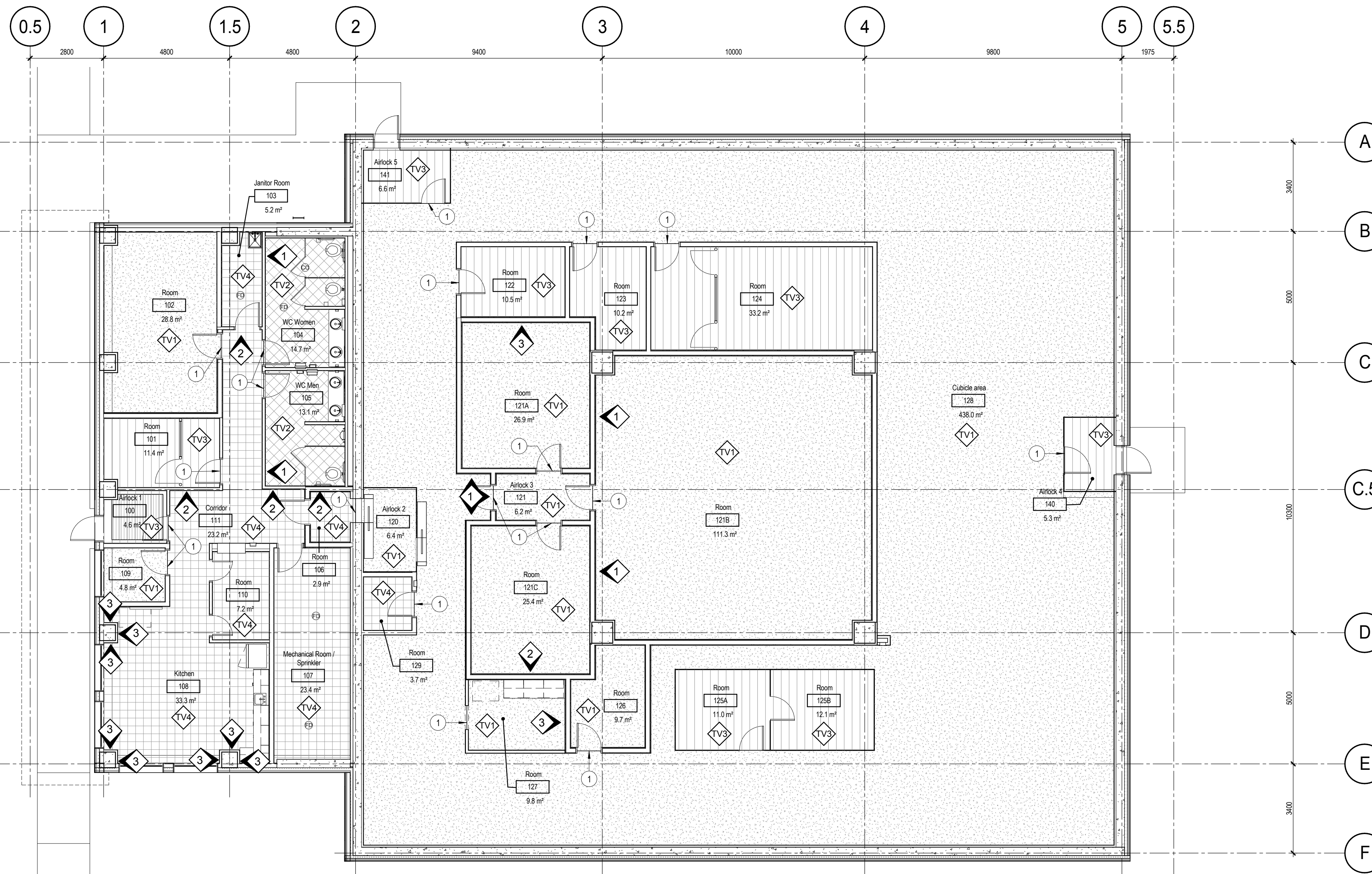
- AT ACOUSTICAL TILE SUSPENDED CEILING
- ES EXPOSED STRUCTURE
- C CERAMIC
- RB RUBBER WALL BASE
- RMC ROOM MANUFACTURE'S CEILING
- WBP WHITEBOARD PAINT

**GENERAL**

- ALL ARCHITECTURAL DRAWING TO BE READ IN CONJUNCTION WITH STRUCTURAL, MECHANICAL, ELECTRICAL, CIVIL AND TELECOMMUNICATION DRAWINGS.
- ALL WALLS TO BE PAINTED COLOR 'SHERWIN WILLIAMS SW 7104 COTTON WHITE' UNLESS OTHERWISE INDICATED. REFER TO FINISH PLAN FOR ACCENT COLORS.
- ALL STEEL DOORS AND FRAMES TO BE PAINTED COLOR 'SHERWIN WILLIAM SW 7674 PEPPERCORN' UNLESS OTHERWISE INDICATED.
- ALL FLOOR FINISHES TO BE INSTALLED UNDER MILLWORK.
- ALL CEILINGS TO BE PAINTED COLOR 'SHERWIN WILLIAMS SW 7757 HIGH REFLECTIVE WHITE' UNLESS OTHERWISE INDICATED.
- SEAL ALL CONCRETE FLOOR UNDERNEATH RAISED FLOOR.
- PRIMER/SEALER TO EXTEND ABOVE DROP CEILINGS TO UNDERSIDE OF STRUCTURAL SLAB.

**NOTES**

- 1 TRANSITION STRIP



1 FINISH PLAN  
Scale / Echelle: 1 : 100

CE Dessin n'est pas à l'échelle si les marqueurs ne sont pas alignés avec la règle

0mm 10 20 40 60 80 100 120 140 160 180 200 mm

THIS DRAWING IS NOT TO SCALE IF THIS RULER DOES NOT MEASURE CORRECTLY



400, boul. de Maisonneuve O., bur. 1250  
Montréal (Québec) H3A 1L4  
T: (514) 879-1708 F: (514) 861-6219 www.dfsarch.com

Dans la province de Québec, les services architecturaux de DFS sont fournis par Fish Pellicier Todd architectes.



240 Catherine St., Suite 110  
Ottawa (Ontario) K2P 2G8  
Téléphone: (613) 860-2462  
Fax: (613) 860-1870  
www.cjma.ca



plan-repère key plan

L'entrepreneur doit vérifier les dimensions des dessins et les conditions de chantier avant de débiter les travaux. Aviser les professionnels de toutes divergences aux documents de construction. Ne pas mesurer sur les dessins.



no.	description	date
2	ISSUED FOR ADDENDA A-01	2018-07-19
1	ISSUED FOR TENDER	2018-06-12

projet project  
**PROJECT BUILDING A**

dessin drawing  
**FINISH PLAN**

conception	conception	no. dossier	project no.
C.A.	4956		
dessiné	drawn	fichier DAO	CAD file
M.C.R. / A.M.	File Path		
approuvé	approved	dossier client	client file
C.A.	7207528		
échelle	scale	imprimé	plot date
As indicated	01/09/2017		
no. page	sheet number	rev	
A605	2		

