

Administrative Services and Property Management

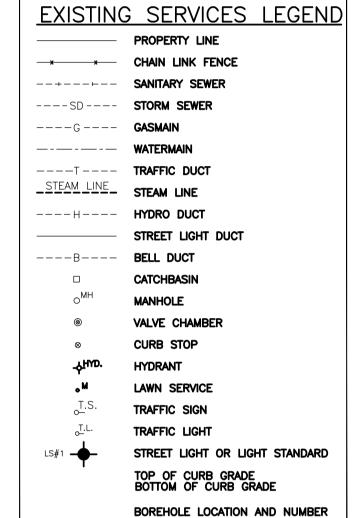
administratifs et gestion de l'immobilier

NRC - CNRC

- CONTRACTORS TO CHECK AND VERIFY ALL DIMENSIONS ON SITE PRIOR TO DEMOLITION OR CONSTRUCTION AND REPORT ANY ERRORS OR OMISSIONS TO NRC
- CONTRACTORS MUST VISIT THE SITE & FULLY FAMILIARIZE THEMSELVES WITH THE SCOPE OF THE WORK.
- PREVENT THE SPREAD OF DUST & DEBRIS BEYOND THE WORK AREA AND CLEAN ALL SURFACES AT COMPLETION.
- MAKE GOOD ALL SURFACES AFFECTED BY THIS WORK.
- COORDINATE ALL SHUTDOWNS WITH THE NRC
- REPRESENTATIVE.

PROVIDE ALL LABOUR AND MATERIAL REQUIRED TO FORM

- A COMPLETE, FUNCTIONAL SYSTEM AS DESCRIBED ON
- ALL PENETRATIONS THROUGH WALLS TO TEST CELLS SHALL BE SEALED AS PER SPECIFICATIONS.
- COORDINATE LOCATIONS OF ALL MECHANICAL SERVICES WITH ALL OTHER TRADES AND REPORT ANY CONFLICTS TO NRC REPRESENTATIVE.



0	OCT 2016	ISSUED FOR TENDER	JG
No.	Date	Revision	By: Par:

Date Printed

o Verify all dimensions and site conditions and be responsible

o Vérifier toutes les dimensions et l'état des liéux et



BUILDING S-77

A Detail no. No. du détail B Location drawing no. sur dessin no.

C Drawing no. dessin no.

Date imprimée

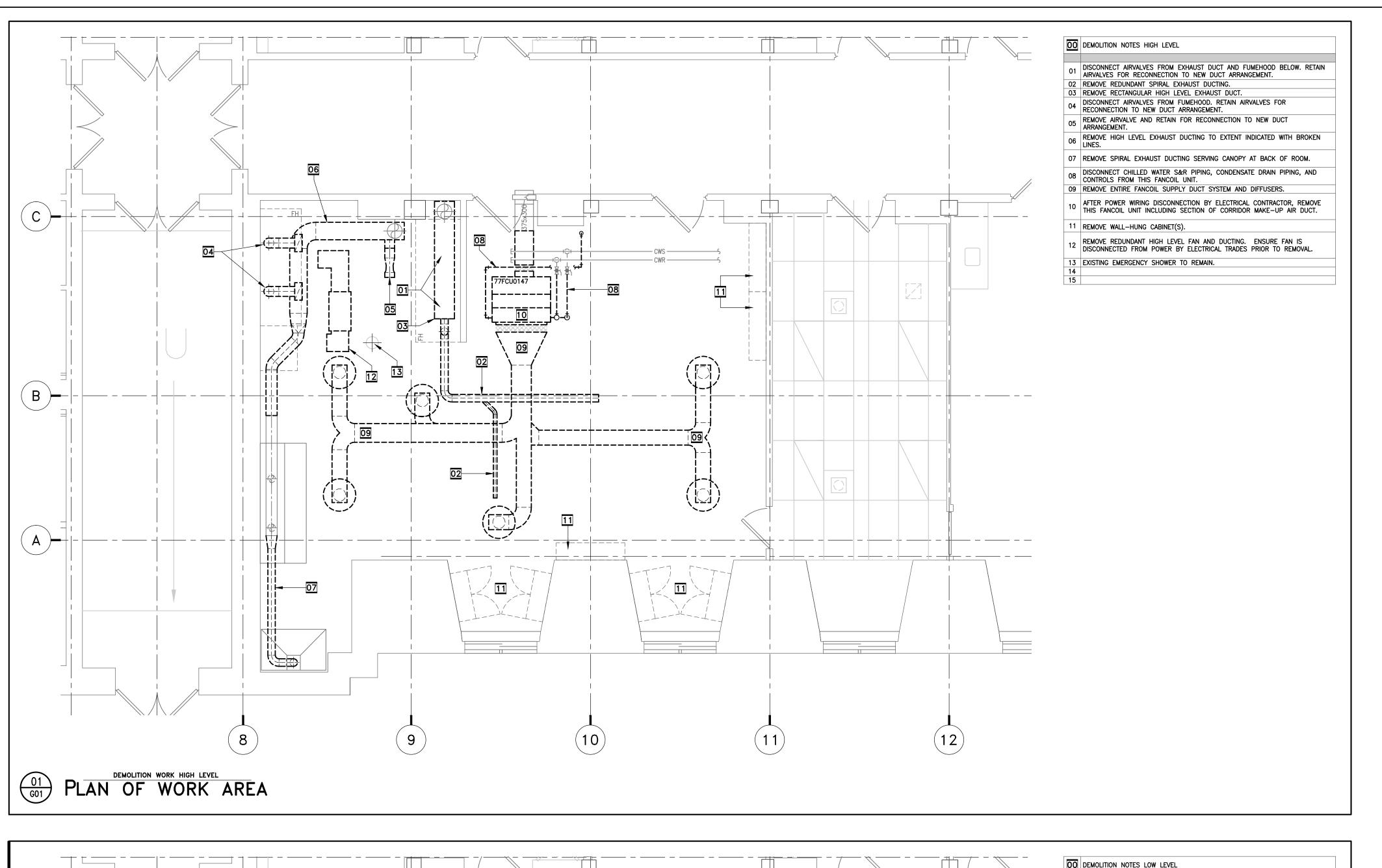
NANOCOMPOSITES LAB 147 RENOVATIONS

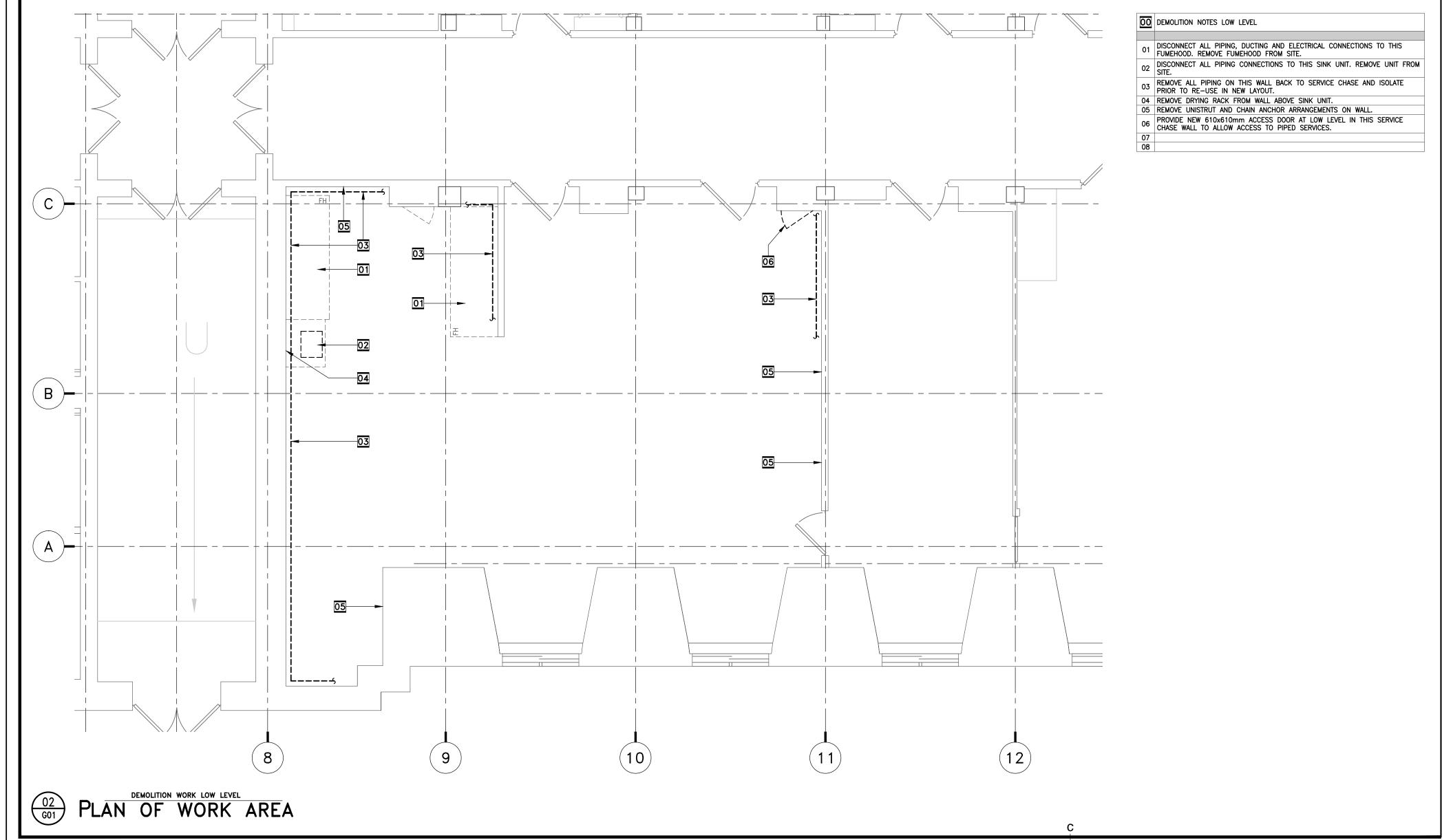
SUSSEX DRIVE CAMPUS

EXTERIOR FOUNDATION WALL DAMP PROOFING SITE PLAN, SECTIONS AND DETAILS

designed	CE	conçu	SEPTEMBER 2016	date					
drawn	CE	dessiné	AS NOTED	échelle					
checked	AS	vérifié	sheet 1 of/de 1	feuille					
approved		approuvé	W.O.no.	D.T.no.					
	BV		A1-006436-01						

5263-A01





ASPM B1 (1000x707)

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

National Research Council Canada

Conseil national de recherches Canada

Division des services administratifs et gestion

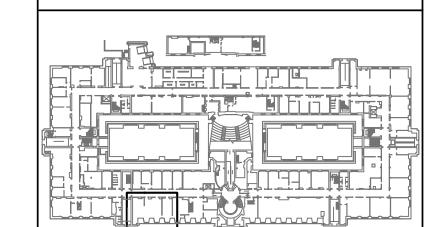
and Property Management administratifs et gestion Branch de l'immobilier

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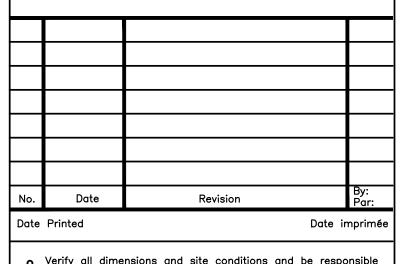
...motivation is key™



AREA OF WORK

PROJECT NORTH TRUE NORTH

keyplan - BASEMENT



Verify all dimensions and site conditions and be responsible for same
 Vérifier toutes les dimensions et l'etat des liéux et en assumer la responsabilité

A

A Detail no.
No. du détail
B Location drawing no.
sur dessin no.
C Drawing no.

wing no. ssin no.

BUILDING S-77
Nanocomposites Lab 147
Renovations
SUSSEX DRIVE CAMPUS

GENERAL
DEMOLITION WORK
ROOM 147, 149, 151 PLAN

designed conçu date September 2016

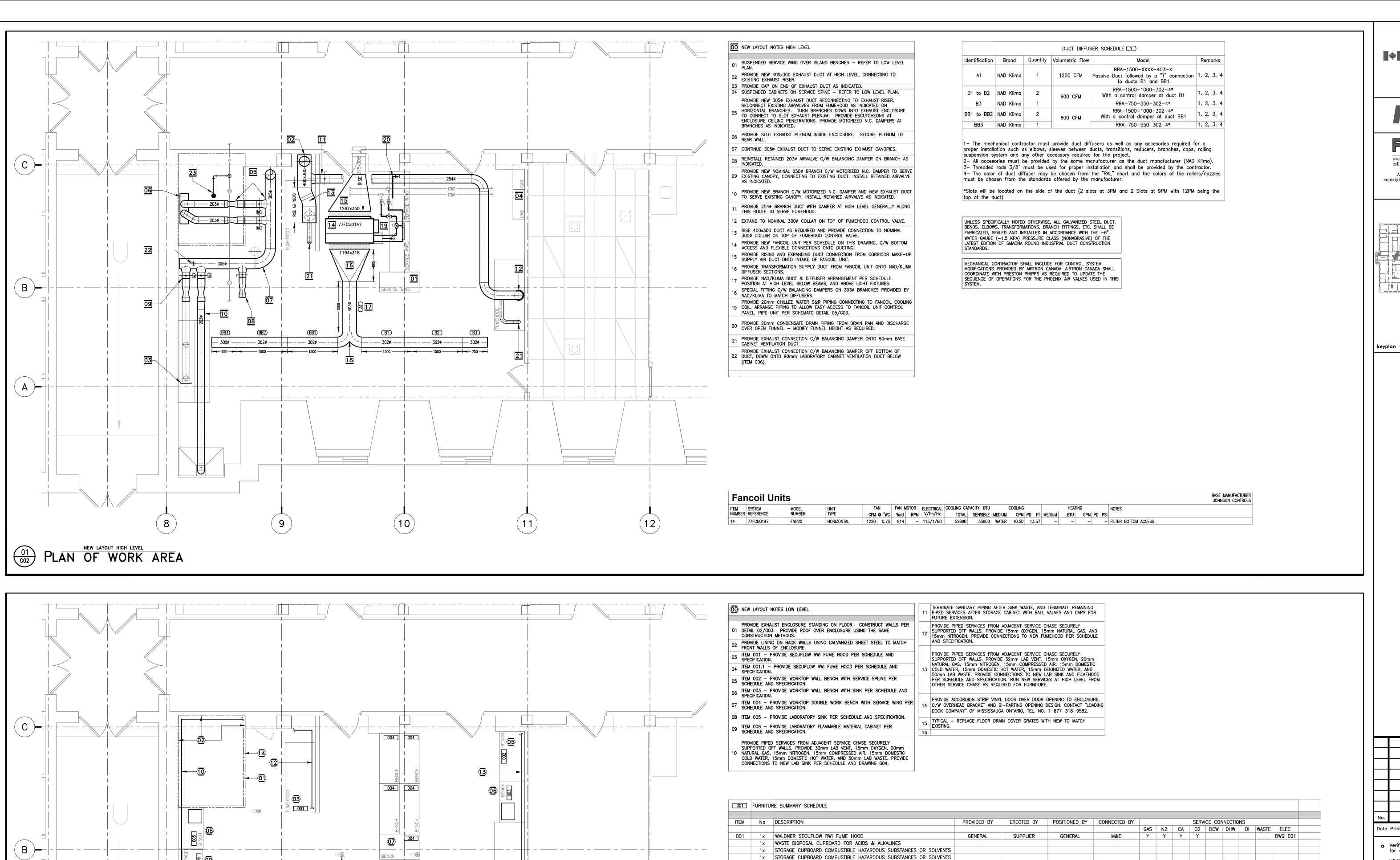
drawn dessiné RODDERS CAS 1:50 UNO

checked R.C./A.S. vérifié sheet G01 of/de G04

approved approuvé W.O.no. D.T.

B VALLIERES

5263-G01



001	FURNITU	IRE SUMMARY SCHEDULE												
ITEM	No	DESCRIPTION	PROVIDED BY	ERECTED BY	POSITIONED BY	CONNECTED BY	SERVICE CONNECTIONS							
11 - 141	110	DESCRIPTION	T NOTIBLE BI	LILOTED DI	1 COMONED BY	CONTROLL BY	GAS	N2	CA		DCW DHW		WASTE	ELEC
001	1x	WALDNER SECUFLOW RWI FUME HOOD	GENERAL	SUPPLIER	GENERAL	M&E	Y	Y	Y	Y	2011			DWG E01
	1x	WASTE DISPOSAL CUPBOARD FOR ACIDS & ALKALINES	02.12.11.2											J.1.0 201
	1x	STORAGE CUPBOARD COMBUSTIBLE HAZARDOUS SUBSTANCES OR SOLVENTS												
	1x	STORAGE CUPBOARD COMBUSTIBLE HAZARDOUS SUBSTANCES OR SOLVENTS												
001.1	1x	WALDNER SECUFLOW RWI FUME HOOD	GENERAL	SUPPLIER	GENERAL	M&E	Υ	Y	Y	Y				DWG E01
	2x	STORAGE CUPBOARD FOR ACIDS & ALKALINES					1							
	1x	STORAGE CUPBOARD COMBUSTIBLE HAZARDOUS SUBSTANCES OR SOLVENTS												
002	1x	WORKTOP WALL BENCH WITH SERVICE SPINE	GENERAL	SUPPLIER	GENERAL	M&E	Υ	Y	Υ	Y				DWG E01
	1x	UNDER BENCH UNIT ON PLINTH 600mm												
	1x	UNDER BENCH UNIT ON PLINTH 900mm												
	1x	WORKTOP 1500mm												
	1x	SUSPENDED CABINET 600mm												
	1x	SUSPENDED CABINET 900mm												
003	1x	WORKTOP WALL BENCH WITH SINK									YY	Y	Y	
	1x	SINK UNDER BENCH UNIT ON PLINTH 1200mm									' '	<u> </u>	<u> </u>	
	1x	WORKTOP												
	1x	SINK 500x400x250mm												
004	1x	WORKTOP DOUBLE WORK BENCH WITH SERVICE WING	GENERAL	SUPPLIER	GENERAL	M&E	Y	Y	Y	Y				DWG E01
004	2x	SERVICE WING 1500mm	GLIVEITAL	3011 LILIX	OLIVILIAL	WICE	'	'	<u>'</u>	'				DWG LOT
	1x	SERVICE WING 1200mm												
	2x	UNDER BENCH UNIT MOVABLE 600mm												
	2x	UNDER BENCH UNIT MOVABLE 600mm												
	1x	UNDER BENCH UNIT MOVABLE 900mm												
	4x	C-FRAME 1500mm												
	1x	C-FRAME 1200mm												
	2x	WORKTOP 3000mm												
	1x													
005	1x	LABORATORY SINK	GENERAL	SUPPLIER	GENERAL	M&E					YY		Y	
003	1x	SINK UNDER BENCH UNIT ON PLINTH 1200mm	OLINLIVAL	JOI 1 LILIN	OLINLIVAL	IVICLE							1	
	1x	WORKTOP												
	1x	SINK 400x400x250mm												
000		LADODATORY OADBUT FOR FLAMMARIE WITTEN O STORIOS	OFNEDAL	CHECHES	OFNEDA	140.5								
006	1x	LABORATORY CABINET FOR FLAMMABLE MATERIALS STORAGE	GENERAL	SUPPLIER	GENERAL	M&E								

National Research
Council Canada

Administrative Services
and Property Management

Conseil national
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AREA OF WORK

keyplan - BASEMENT

PROJECT NORTH TRUE NORTH

No. Date Revision By:
Par:

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A Detail no.
No. du dé
B Location o
sur dessin
C Drawing no

No. du détail

B Location drawing no.
sur dessin no.

C Drawing no.
dessin no.

BUILDING S—77 Nanocomposites Lab 147 Renovations

SUSSEX DRIVE CAMPUS

GENERAL NEW LAYOUTS ROOM 147, 149, 151 PLAN

R.C./A.S. September 2016

drawn dessiné scale échelle 1:50 UNO

checked vérifié R.C./A.S. Sheet G02 of/de G04

approved approuvé W.O.no. D.T.no.

5263-G02

B VALLIERES

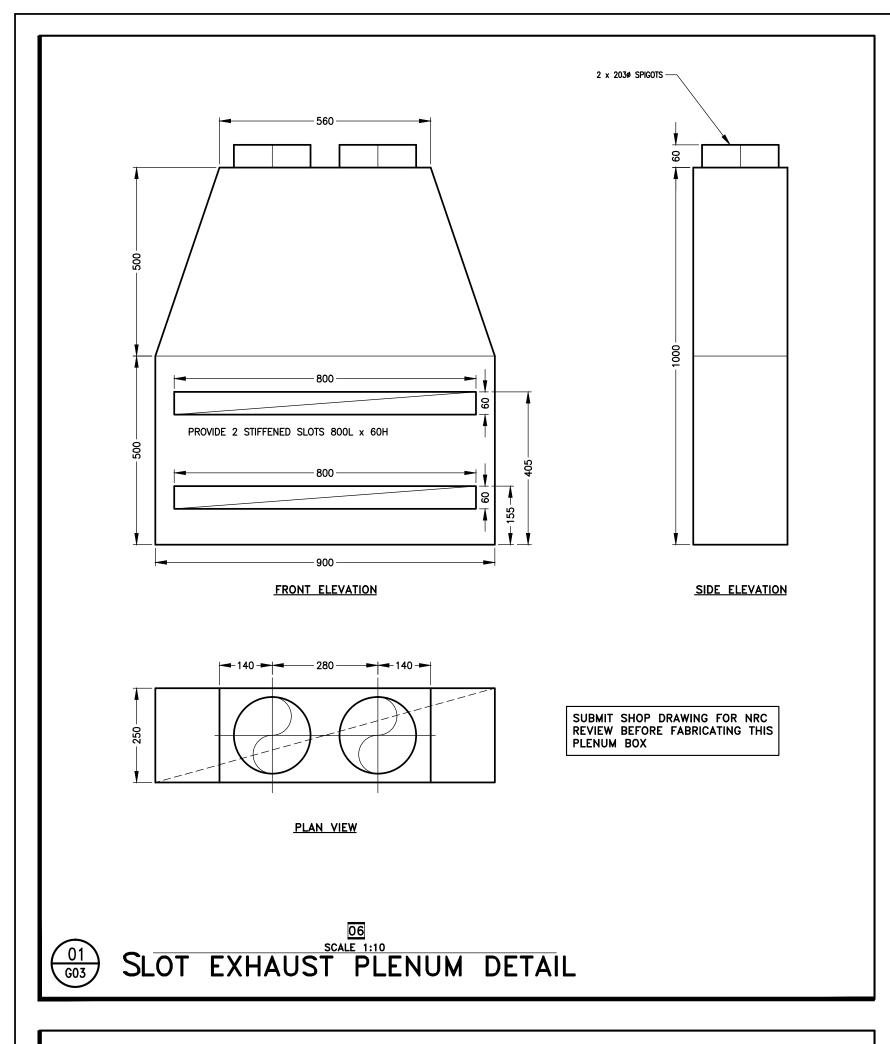
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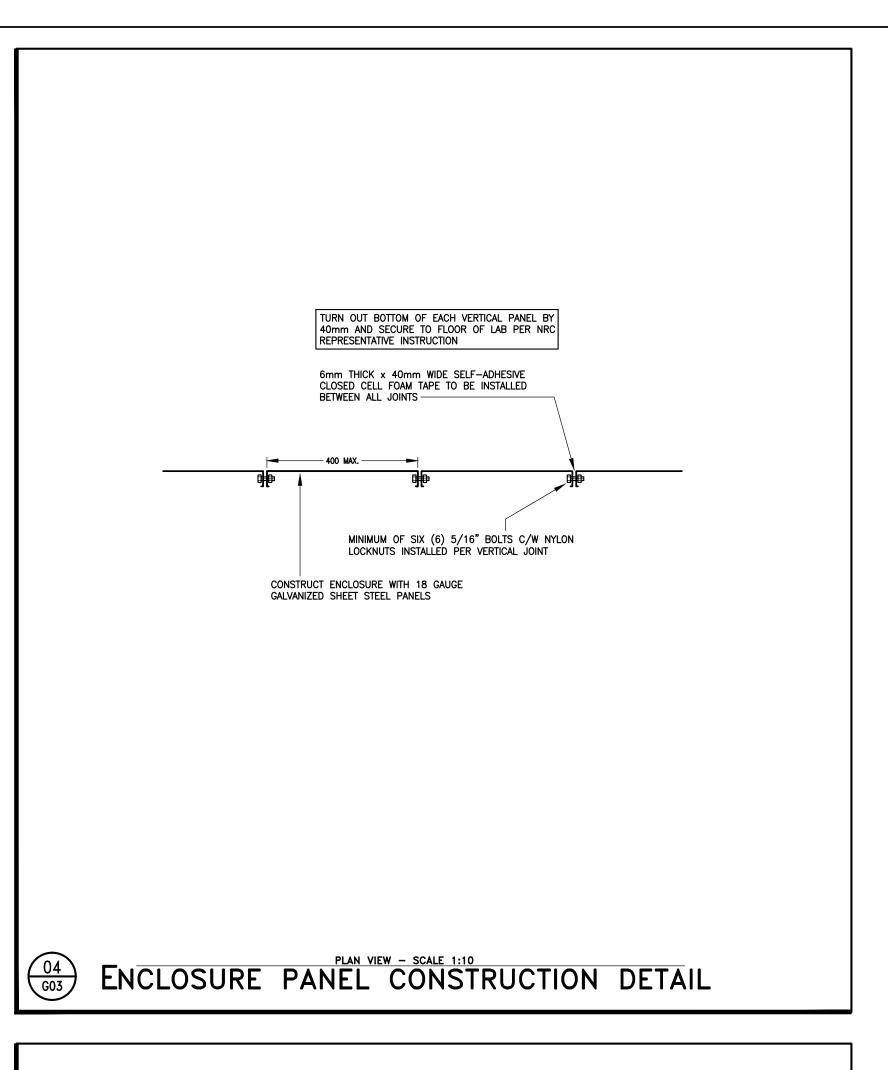
<u>04</u>

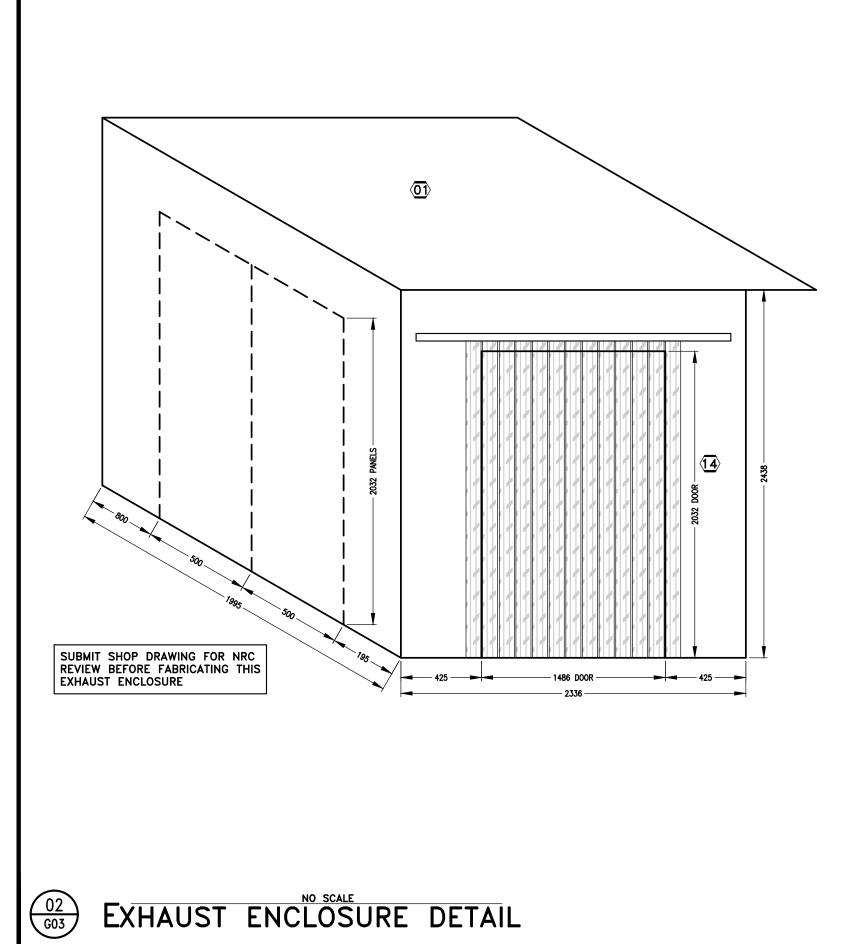
O2 PLAN OF WORK AREA

ASPM B1 (1000x707)

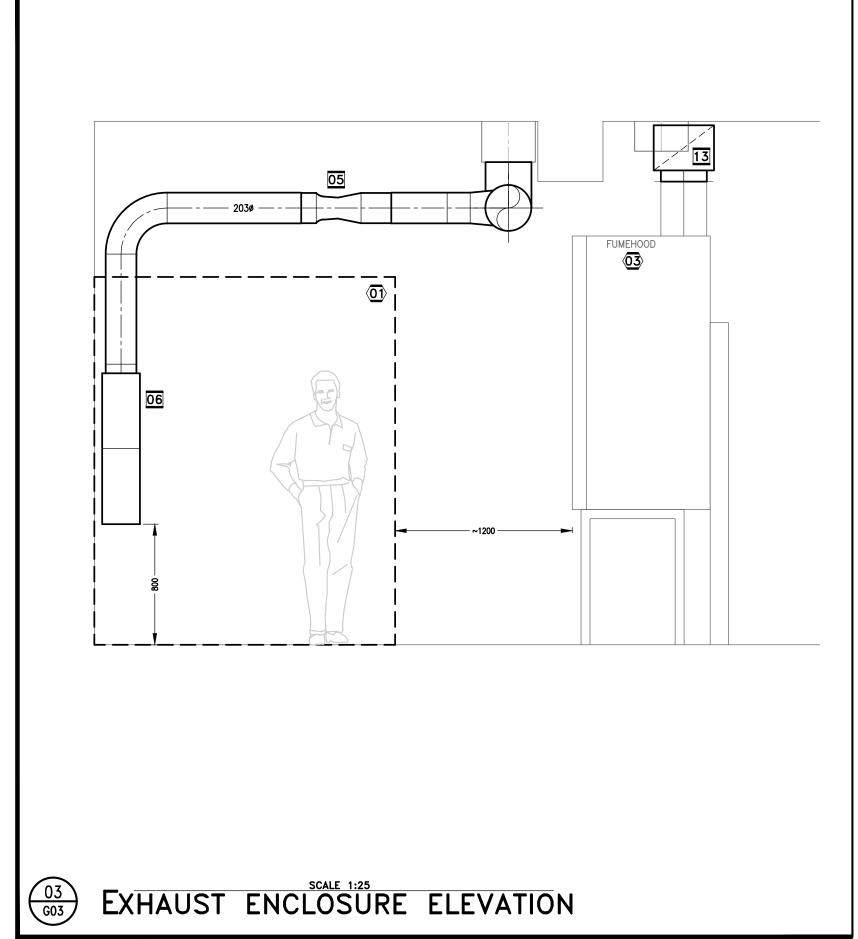
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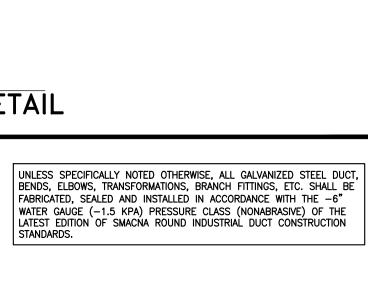


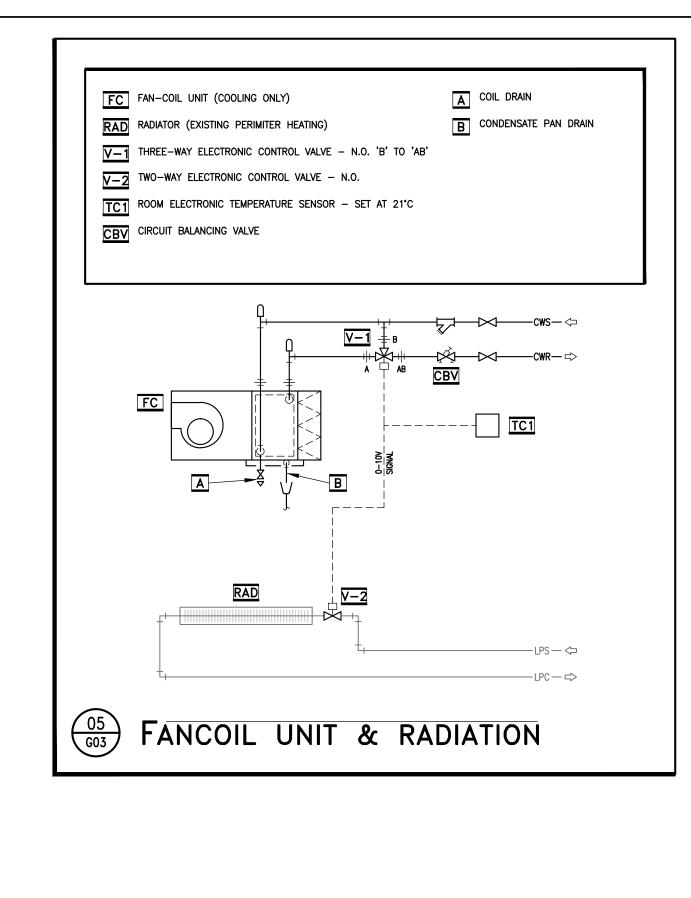


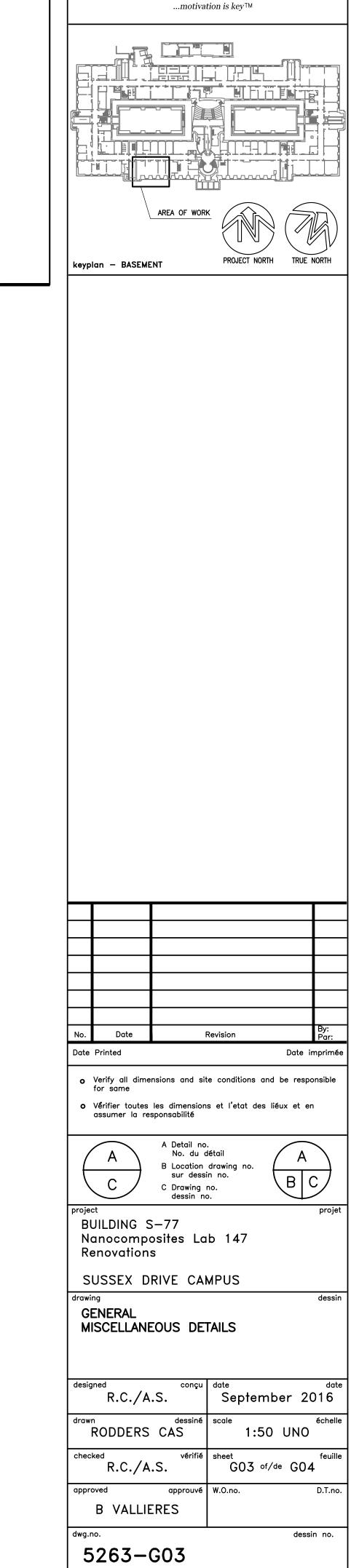
ASPM B1 (1000x707)



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







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Administrative Services and Property Management Branch Division des services administratifs et gestion de l'immobilier

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ITEM 001 WALDNER SECUFLOW RWI FUME HOOD
           2100 mm (7 foot) Rear Wall Installation Bench—Mounted Fume Hood
           Compliant and tested as per ASHRAE 110 and EN14175 at 40 feet per minute hood face
     AIR FLOW REQUIREMENTS
          With 18" (457 mm) sash height opening: 410 CFM max airflow is required at 40 fpm.
                                                   615 CFM max airflow is required at 60 fpm.
          With 20" (500 mm) sash height opening: 450 CFM max airflow is required at 40 fpm.
                                                   670 CFM max airflow is required at 60 fpm.
                                                   120-180 CFM min girflow is required.
          With sash closed occupied mode:
                          unoccupied mode:
                                                  60-120 CFM min airflow is required.
     FUME HOOD DESCRIPTION
                         2100 mm
          width
          depth
                         900 mm
          working height 900 mm
                        2700 mm (2950 mm with Control Valve Mounted)
          Supporting construction for fume cupboard - 2100mm wide H- frame
          Rear wall/baffle in Athlon
          Secuflow bench-mounted fume cupboard - upper part 2100 mm wide
          Internal lining Athlon
          Glass pane tempered safety glass
          Lighting lamp
          Controller/monitoring AC3 microprocessor with airflow damper, VAV
                               keypad with visual and acoustical alarms
          Monitor
         Sash controller
                              SC Automatic motorized sash, photoelectric barrier and presence
      sensor
         Exhaust air system Control valve with high speed actuator, DN 315 mm
                              Under bench/floor exhaust device (connection to units) DN 90mm
         Extraction
          Side walls
                              25mm thick
          Internal lining
                              Side glass window, tempered safety glass, partially glazed with
         Side panel design
      material lock
         Stoneware worktop 2050 x 708 x 26/33 mm with raised edge on all sides
     UNDER BENCH UNITS
     1x Waste Disposal cupboard for acids and alkalines
          Full-height drawer with 1 polypropylene tray
          Extraction under bench exhaust
          1 Funnel, screwed on container for direct filling with removable sieve for disposal of
                         suitable for 12 L container
acids/alkalis
          1 PE-HD container 12 L, with PTZ+UN-approval
     1x Storage cupboard combustible hazardous substances or solvents
         FWF 90 [90 Minutes Fire Resistance]
         to store combustible hazardous substances in working rooms
         1 hinged door with one automatically moving—out pull—out tray with perforate plate insert
          adjustment device with thermo-control
          ventilation connections in the rear panel
          locking device
         1 Label for collection container "organic solvents"
         1 Funnel, screwed on container for direct filling with removable sieve and grounding tag
               of flammable liquids suitable for 10 L containers
          1 Container 10 L, PE-HD, for solvents conductive, closure with visual level indication
     1x Storage cupboard combustible hazardous substances or solvents
          FWF 90 [90 Minutes Fire Resistance]
         to store combustible hazardous substances in working rooms
         1 hinged door with one automatically moving-out pull-out tray with perforate plate insert
          adjustment device with thermo-control
          ventilation connections in the rear panel
          locking device
     MECHANICAL SERVICES
     1x Gas (Natural Gas) - outlet + valve
    1x Gas (Nitrogen) — outlet + valve
    1x Compressed Air - outlet + valve
    3x Supply lines, one per service
    3x Bench connection piece - supply, one per service
    2x Pure gas fitting with pre-shut-off, pressure regulator and dosing valve
          Medium: NITROGEN (N2) & OTHER
          Pressure range up to 1.5 bar
     2x Supply line - copper, up to purity degree 5.5
     2x Bench connection - copper, up to purity degree 5.5
    2x Pure gas fitting with pre-shut-off, pressure regulator and dosing valve
          Medium: OXYGEN (02)
          Material brass
          Pressure range up to 1.5 bar
    1x Supply line — stainless steel, up to purity degree 6.0
    1x Bench connection – stainless steel, up to purity degree 6.0
    2x Elec Double Socket 125 V, 15A with RCD switch, NEMA 5-15R
    1x Elec Outlet Twist Lock 2-Pole 250V/30A BB0320-0512 NEMA L6-30R Wiring
    1x Elec Twist Lock 3-Pole 208V/30A
    3x Electrical panel
         Panels for terminal blocks
          Panel with electricity distributor
```

ASPM B1 (1000x707)

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ITEM 001.1 WALDNER SECUFLOW RWI FUME HOOD
          2100 mm (7 foot) Rear Wall Installation Bench-Mounted Fume Hood
          Compliant and tested as per ASHRAE 110 and EN14175 at 40 feet per minute hood face
    AIR FLOW REQUIREMENTS
          With 18" (457 mm) sash height opening: 410 CFM max airflow is required at 40 fpm.
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          With 20" (500 mm) sash height opening: 450 CFM max airflow is required at 40 fpm
                                                  670 CFM max airflow is required at 60 fpm.
          With sash closed occupied mode:
                                                  120-180 CFM min airflow is required.
                                                  60-120 CFM min girflow is required.
                       unoccupied mode:
     FUME HOOD DESCRIPTION
                         2100 mm
                         900 mm
          working height 900 mm
                       2700 mm (2950 mm with Control Valve Mounted)
          Supporting construction for fume cupboard — 2100mm wide H— frame
          Rear wall/baffle in Athlon
          Secuflow bench-mounted fume cupboard - upper part 2100 mm wide
          Internal lining Athlon
          Glass pane tempered safety glass
          Lighting lamp
                             AC3 microprocessor with girflow damper, VAV
        Controller/monitoring
                               keypad with visual and acoustical alarms
       Sash controller
                             SC Automatic motorized sash, photoelectric barrier and presence
      Exhaust air system
                              Control valve with high speed actuator, DN 315 mm
       Extraction
                              Under bench/floor exhaust device (connection to units) DN 90mm
       Side walls
                              25mm thick
       Internal lining
                              athlon
                             Side glass window, tempered safety glass, partially glazed with
      Side panel design
      material lock
       Stoneware worktop 2050 x 708 x 26/33 mm with raised edge on all sides
     UNDER BENCH UNITS
    2x Storage cupboard for acids and alkalines
          1 hinged door and 2 extendable shelves with polypropylene tray
         Extraction under bench exhaust
    1x Storage cupboard combustible hazardous substances or solvents
         FWF 90 [90 Minutes Fire Resistance]
          to store combustible hazardous substances in working rooms
          1 hinged door with one automatically moving—out pull—out tray with perforate plate insert
          adjustment device with thermo-control
          ventilation connections in the rear panel
          locking device
     MECHANICAL SERVICES
    1x Gas (Natural Gas) — outlet + valve
    1x Gas (Nitrogen) — outlet + valve
    1x Compressed Air — outlet + valve
    3x Supply lines, one per service
    3x Bench connection piece – supply, one per service
    2x Pure gas fitting with pre-shut-off, pressure regulator and dosing valve
         Medium: NITROGEN (N2) & OTHER
          Material brass
          Pressure range up to 1.5 bar
    2x Supply line - copper, up to purity degree 5.5
    2x Bench connection - copper, up to purity degree 5.5
    2x Pure gas fitting with pre-shut-off, pressure regulator and dosing valve
          Medium: OXYGEN (02)
          Material brass
          Pressure range up to 1.5 bar
    1x Supply line — stainless steel, up to purity degree 6.0
    1x Bench connection - stainless steel, up to purity degree 6.0
    2x Elec Double Socket 125 V. 15A with RCD switch, NEMA 5-15R
    1x Elec Outlet Twist Lock 2-Pole 250V/30A BB0320-0512 NEMA L6-30R Wiring
    1x Elec Twist Lock 3-Pole 208V/30A
    3x Electrical panel
         Panels for terminal blocks
         Panel with electricity distributor
```

ITEM 002 WORKTOP WALL BENCH WITH SERVICE SPINE SERVICE SPINE 1x Service spine for wall bench - 1500mm x 900mm x 1790 mm with integrated service duct and reagent repository Front panel steel 1.5mm Spine extension to 2,250mm 1x Pillar left / right for accessories Grid width 1500mm 1x Reagent shelf 1500mm x 150 mm in glass-version UNDER BENCH UNITS 1x Under bench unit on plinth - 600 mm wide, handle element, aluminum 1 drawer 150 mm high 3 drawers 200 mm high Depth 550mm 1x Under bench unit on plinth - 900 mm wide, handle element, aluminum 1 drawer 150 mm high 2 hinged doors, 2 height—adjustable shelves Depth 550mm 1x 1,5 m worktop with 10 mm glass, laid on melamine board x 672 x 30 mm SUSPENDED CABINETS 1x Suspended cabinet - 760mm high - 600 mm wide, U handle, aluminum height: 760mm 1 hinged door, 1 height-adjustable shelf 1x Suspended cabinet - 900 mm wide, U handle, aluminum height: 760mm 2 hinged glass doors 1 height-adjustable shelf MECHANICAL SERVICES 1x Gas (Natural Gas) — outlet + valve 1x Gas (Nitrogen) - outlet + valve 1x Compressed Air - outlet + valve 3x Supply lines, one per service 3x Bench connection piece - supply, one per service 2x Pure gas fitting with pre-shut-off, pressure regulator and dosing valve Medium: NITROGEN (N2) & OTHER Material brass Pressure range up to 1.5 bar 2x Supply line - copper, up to purity degree 5.5 2x Bench connection — copper, up to purity degree 5.5 1x Pure gas fitting with pre-shut-off, pressure regulator and dosing valve Medium: OXYGEN (02) Material brass Pressure range up to 1.5 bar 1x Supply line — stainless steel, up to purity degree 6.0 1x Bench connection - stainless steel, up to purity degree 6.0 2x Elec Double Socket 125 V, 15A with RCD switch, NEMA 5-15R ITEM 003 WORKTOP WALL BENCH WITH SINK UNDER BENCH UNITS 1x Sink underbench unit on plinth - 1200 mm wide, handle element, aluminium 2 hinged doors Depth 550mm WORKTOP 1x 1,5 m polypropylene worktop 750 x 30/37 mm with raised edge, front + rear 2x collateral increased edge 1x Sink of PP 500 X 400 X 250 mm MECHANICAL SERVICES 1x Mixer tap (pressurized), 1hole fitting on stand height 300 mm, projection 200 mm

drinking water, cold (WPC) + drinking water, warm (WPH)

3x Bench connection piece - supply, one per service

1x Bench connection piece — waste disposal

3x Supply lines, one per service

1x Waste disposal line

1x Outlet pillar — brass, projection 150 mm — demineralised water (WDC) -

1x One hand eye shower for bench incorporation for two eyes consisting of:

Eve shower with rubber eye protection water outlet via spraying head

Pressure hose 1500 mm, with hose connection 3/8" - drinking water, cold (WPC) -

ITEM 004 WORKTOP DOUBLE WORK BENCH WITH SERVICE WING SERVICE WING 2x Service wing — expansion stage 3 basic trucking in steel sheet, epoxy powdered, for electrical services ducts for mechanicals wing edge designed as a lamp Grid width 1500mm Dust cover included LED lamp, service wing grid 1500mm 1x Service wing — expansion stage 3 basic trucking in steel sheet, epoxy powdered, for electrical sercvices ducts for mechanicals wing edge designed as a lamp Grid width 600mm Dust cover included LED lamp, service wing grid 600mm 4x Ceiling suspension device for wing modules 2 threaded rod with sleeves and fixation parts as suspension from the ceiling 2x Cross bracing for wing module to be tied above the suspended ceiling consisting of: stainless steel rope, fixation rings, rope winder and runner 2x Cross bracing for wing module to be tied under the suspended ceiling consisting of: stainless steel rope, fixation rings, rope winder 2x Longitudinal bracing for wing module to be tied above the suspended ceiling consisting of: stainless steel rope, fixation rings, rope winder and runner 2x Longitudinal bracing for wing module to be tied under the suspended ceiling consisting of: stainless steel rope, fixation rings, rope winder and runner 1x Light switch on-off BENCH FRAMES 4x C-frame - 1500mm x 600mm x 900mm 1x C-frame - 1200mm x 750mm x 900mm UNDER BENCH UNITS 2x Underbench unit movable - 600 mm wide, handle element, aluminum 3 drawers 150 mm high 1 drawer 200 mm high Depth 550mm 2x Underbench unit movable - 600 mm wide, handle element, aluminum 1 hinged door, 2 height-adjustable shelves

Depth 550mm

Depth 550mm

MECHANICAL SERVICES

1x Gas (Natural Gas) — outlet + valve

1x Gas (Nitrogen) — outlet + valve

1x Compressed Air - outlet + valve

Medium: NITROGEN (N2) & OTHER

Pressure range up to 1.5 bar

Pressure range up to 1.5 bar

3x Bench connection piece - supply, one per service

2x Supply line - copper, up to purity degree 5.5

2x Bench connection – copper, up to purity degree 5.5

1x Supply line — stainless steel, up to purity degree 6.0

1x Bench connection — stainless steel, up to purity degree 6.0

1x Sink underbench unit on plinth — 1200 mm wide, handle element, aluminium

1x 1,2 m polypropylene worktop 750 x 30/37 mm with raised edge, front + rear

1x Mixer tap (pressurized), 1hole, fitting on stand height 300 mm, projection 200 mm

drinking water, cold (WPC) + drinking water, warm (WPH)

3x Supply lines, one per service

Medium: OXYGEN (02)

Material brass

Material brass

ITEM 005 LABORATORY SINK

UNDER BENCH UNIT

WORKTOP

2 hinged doors Depth 550mm

2x Collateral increased edge

MECHANICAL SERVICES

1x Waste disposal line

1x Sink of PP 400 X 400 X 250 mm

2x Supply lines, one per service

bench construction plinth

width [mm] 595

depth [mm] 595

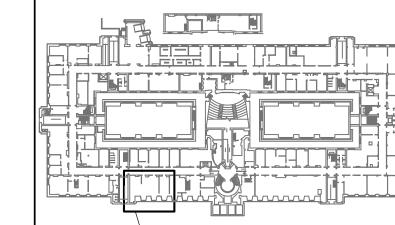
1 drawer 150 mm high

2 hinged doors, 1 height-adjustable shelf

1x Underbench unit movable - 900 mm wide, handle element, aluminum 1x 3 m worktop with 10 mm glass, laid on melamine board 600 x 30 mm 1x 3 m worktop with 10 mm glass, laid on melamine board 600 x 30 mm 1x 1,2 m worktop with 10 mm glass, laid on melamine board x 750 x 30 mm 2x Pure gas fitting with pre-shut-off, pressure regulator and dosing valve 1x Pure gas fitting with pre-shut-off, pressure regulator and dosing valve 4x Panel 1x Elec Double Socket 125 V, 15A with RCD switch, NEMA 5-15R 4x Panel 3x Elec Double Socket 125 V, 15A with RCD switch, NEMA 5-15R

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PROJECT NORTH TRUE NORTH keyplan - BASEMENT

Date Date Printed Date imprimée

 Verify all dimensions and site conditions and be responsible o Vérifier toutes les dimensions et l'etat des liéux et en

assumer la responsabilité

A Detail no. No. du détail B Location drawing no. sur dessin no.

C Drawing no.

BUILDING S-77 Nanocomposites Lab 147

Renovations SUSSEX DRIVE CAMPUS

GENERAL

LABORATORY FURNITURE DETAILS

1:50 UNO R.C./A.S. G04 of/de G04 B VALLIERES

September 2016

5263-G04

R.C./A.S.

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

height [mm] 2040 FR90 - Fire Resistant 90 minutes Exhaust monitoring unit, without ventilator Grounding cables with terminals

2x Bench connection piece - supply, one per service

ITEM 006 LABORATORY CABINET TO STORE FLAMMABLE MATERIALS

1x Bench connection piece — waste disposal

Bottom tray with grating and base

ITEM 007 ONSITE ASSEMBLY & COMMISSIONING

Work to be performed onsite by specialized technicians: Assembly of fume hoods Commissioning of fume hood controllers Assembly of casework/furniture

