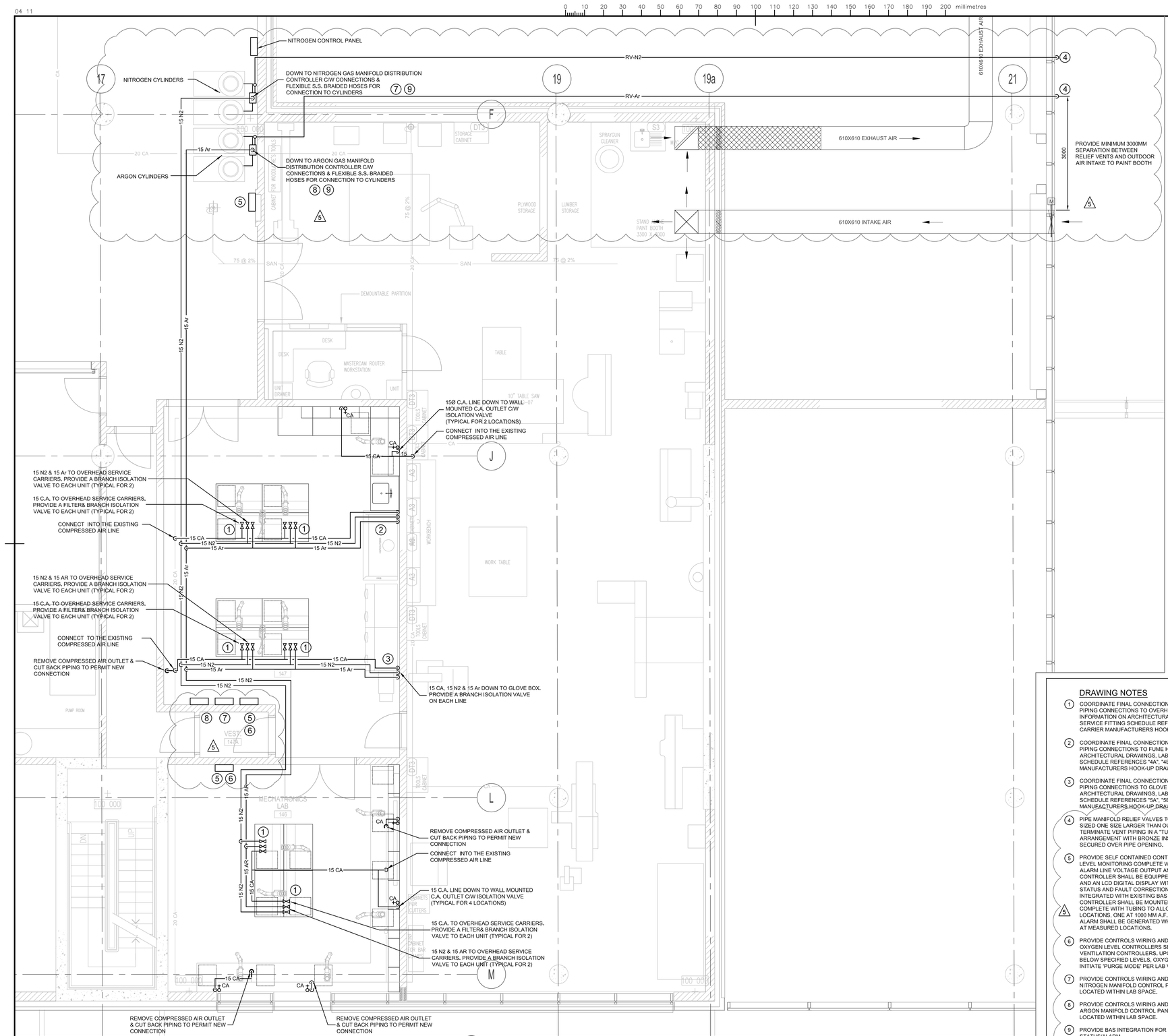

1 M-205 PARTIAL 1-ST FLOOR PLAN - LAB GASES - DEMOLITION & NEW WORK
SCALE 1:50

DRAWING NOTES

1. COORDINATE FINAL CONNECTION SIZES AND CONFIGURATIONS OF PIPING CONNECTIONS TO OVERHEAD SERVICE CARRIERS WITH F&E INFORMATION ON ARCHITECTURAL DRAWINGS, LABORATORY SERVICE FITTING SCHEDULE REFERENCES "3A", "3B" AND "3C" AND CARRIER MANUFACTURERS HOOK-UP DRAWINGS.
2. COORDINATE FINAL CONNECTION SIZES AND CONFIGURATIONS OF PIPING CONNECTIONS TO FUME HOOD WITH F&E INFORMATION ON ARCHITECTURAL DRAWINGS, LABORATORY SERVICE FITTING SCHEDULE REFERENCES "4A", "4B" AND "4C" AND FUME HOOD MANUFACTURERS HOOK-UP DRAWINGS.
3. COORDINATE FINAL CONNECTION SIZES AND CONFIGURATIONS OF PIPING CONNECTIONS TO GLOVE BOX WITH F&E INFORMATION ON ARCHITECTURAL DRAWINGS, LABORATORY SERVICE FITTING SCHEDULE REFERENCES "5A", "5B" AND "5C" AND GLOVE BOX MANUFACTURERS HOOK-UP DRAWINGS.
4. PIPE MANIFOLD RELIEF VALVES TO ATMOSPHERE USING PIPING SIZED ONE SIZE LARGER THAN OUTLET PORT OF RELIEF VALVE. TERMINATE VENT PIPING IN A "TURNED DOWN" ELBOW ARRANGEMENT WITH BRONZE INSECT SCREEN PERMANENTLY SECURED OVER PIPE OPENING.
5. PROVIDE SELF CONTAINED CONTROLLER CABABLE OF OXYGEN LEVEL MONITORING COMPLETE WITH 4-20 mA INPUT/OUTPUT AND ALARM LINE VOLTAGE OUTPUT AND DRY CONTACT RELAYS. CONTROLLER SHALL BE EQUIPPED WITH INTEGRAL AUDIBLE ALARM AND AN LCD DIGITAL DISPLAY WITH LED INDICATORS FOR ALARM STATUS AND FAULT CORRECTIONS. CONTROLLER SHALL BE INTEGRATED WITH EXISTING BAS SYSTEM FOR STATUS AND ALARMS. CONTROLLER SHALL BE MOUNTED 1200 MM A.F.F. AND SHALL BE COMPLETE WITH TUBING TO ALLOW SAMPLING OF AIR FROM TWO LOCATIONS, ONE AT 1000 MM A.F.F. AND ONE AT 1500 MM A.F.F. ALARM SHALL BE GENERATED WHEN OXYGEN LEVELS REACH 19.5% AT MEASURED LOCATIONS.
6. PROVIDE CONTROLS WIRING AND INTEGRATION TO CONNECT OXYGEN LEVEL CONTROLLERS SERVING LAB SPACES TO LAB VENTILATION CONTROLLERS. UPON DETECTION OF OXYGEN LEVELS BELOW SPECIFIED LEVELS, OXYGEN LEVEL CONTROLLER SHALL INITIATE 'PURGE MODE' PER LAB VENTILATION CONTROLS.
7. PROVIDE CONTROLS WIRING AND INTEGRATION TO CONNECT NITROGEN MANIFOLD CONTROL PANEL TO REMOTE ALARM PANEL LOCATED WITHIN LAB SPACE.
8. PROVIDE CONTROLS WIRING AND INTEGRATION TO CONNECT ARGON MANIFOLD CONTROL PANEL TO REMOTE ALARM PANEL LOCATED WITHIN LAB SPACE.
9. PROVIDE BAS INTEGRATION FOR MANIFOLD CONTROLLER STATUS/ALARM.

Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada

ARCHITECTURE 49
201–1300 Yonge Street
Toronto Ontario M4T1X3 Canada
TEL:1416.368.6987 I FAX: 1.416.869.9075
architecture49.com

wsp
600 COCHRANE DRIVE
MARKHAM, ON. CANADA L3R 5K3
TELEPHONE: (905) 475–7270
FAX: (905) 475–5994

LICENSED PROFESSIONAL ENGINEER 2020-08-21 V. LAZOV 100128141 PROVINCE OF ONTARIO

revision	issued	date
05	ISSUED FOR ADDENDUM No. 3	2020/11/13
04	ISSUED FOR FINAL TENDER	2020/09/18
03	ISSUED FOR TENDER	2020/08/21
02	99% CD	2020/08/04
01	50% CD	2020/07/07

Do not scale drawings. Verify all dimensions and conditions on site and immediately notify the Departmental Representative of all discrepancies.

A Detail No. No. du détail
B drawing no. – where detail required dessin no. – où détail exigé
C drawing no. – where detailed dessin no. – où détaillé

project title / titre du projet
HAMILTON ONTARIO
NRCAN
183 LONGWOOD ROAD SOUTH
MAP LABORATORY RENOVATION

drawing title / titre du dessin
PARTIAL 1-ST FLOOR PLAN - LAB GASES - NEW WORK

drawn by / dessine par: A.F.
designed by / conc par: A.F.
approved by / approuve par: V.L.
bid / offre
project manager / administrateur de projets
project date / date du projet: JUNE 2020
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GSC–A1 DATE PLOTTED: PLOT SCALE: CAD FILE: