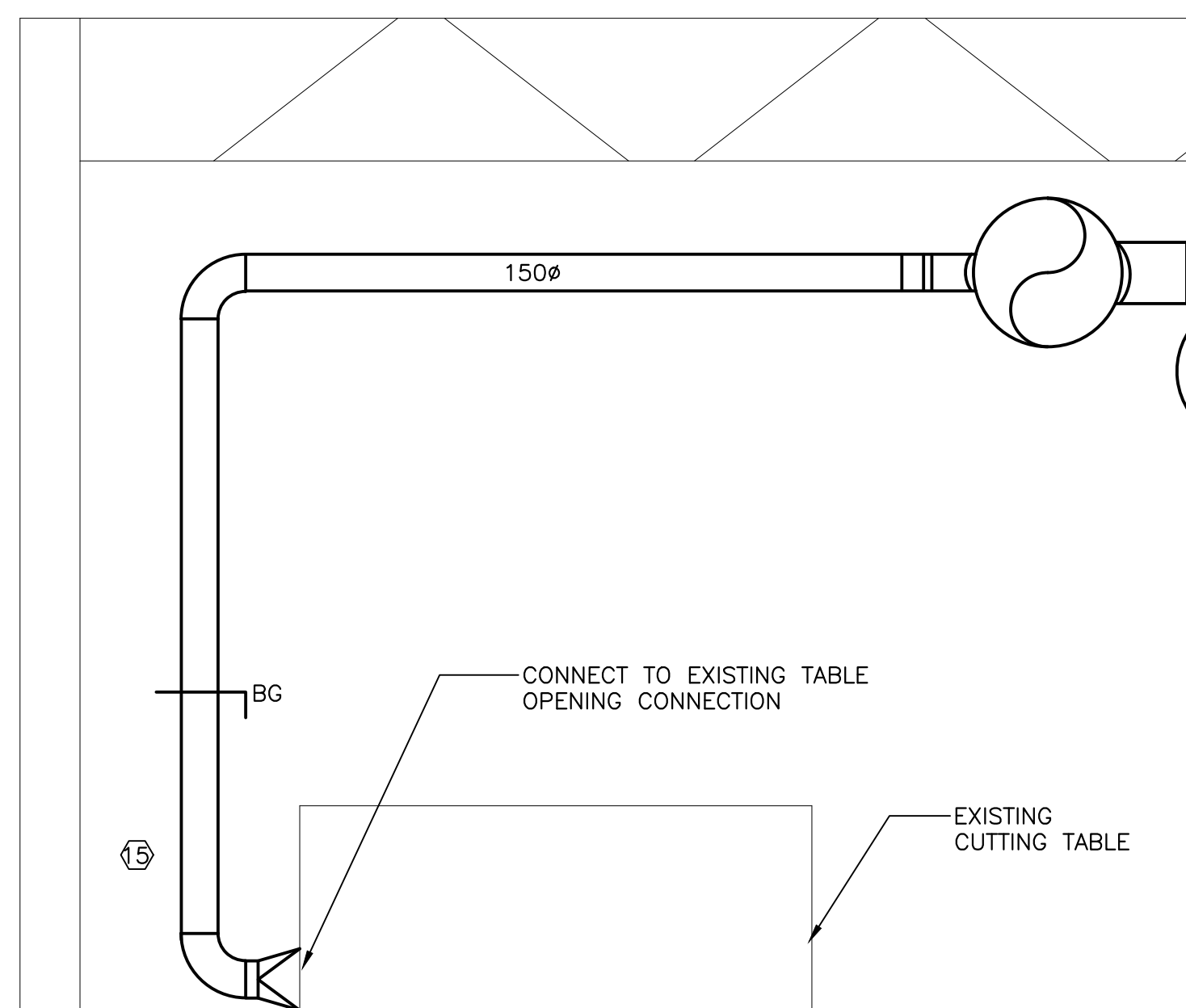
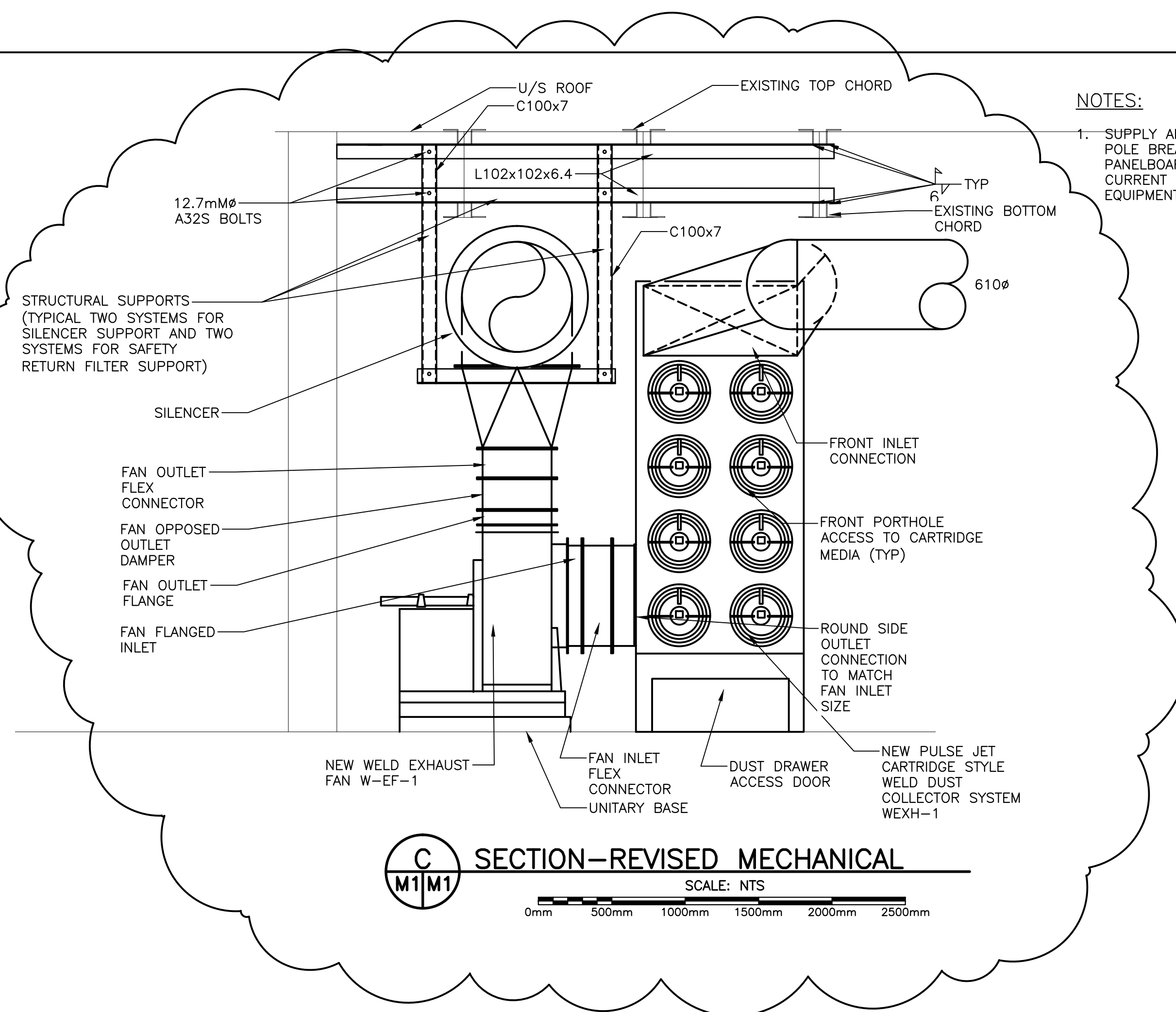


A SECTION-REVISED MECHANICAL
M1/M1 NOT TO SCALE



B SECTION-REVISED MECHANICAL
M1/M1 NOT TO SCALE



C SECTION-REVISED MECHANICAL
M1/M1 SCALE: NTS
0mm 500mm 1000mm 1500mm 2000mm 2500mm

NOTES:
1. SUPPLY AND INSTALL NEW 600V, 2 POLE BREAKER IN EXISTING 600V PANELBOARD 302 TO PROVIDE OVER CURRENT PROTECTION TO NEW EQUIPMENT.

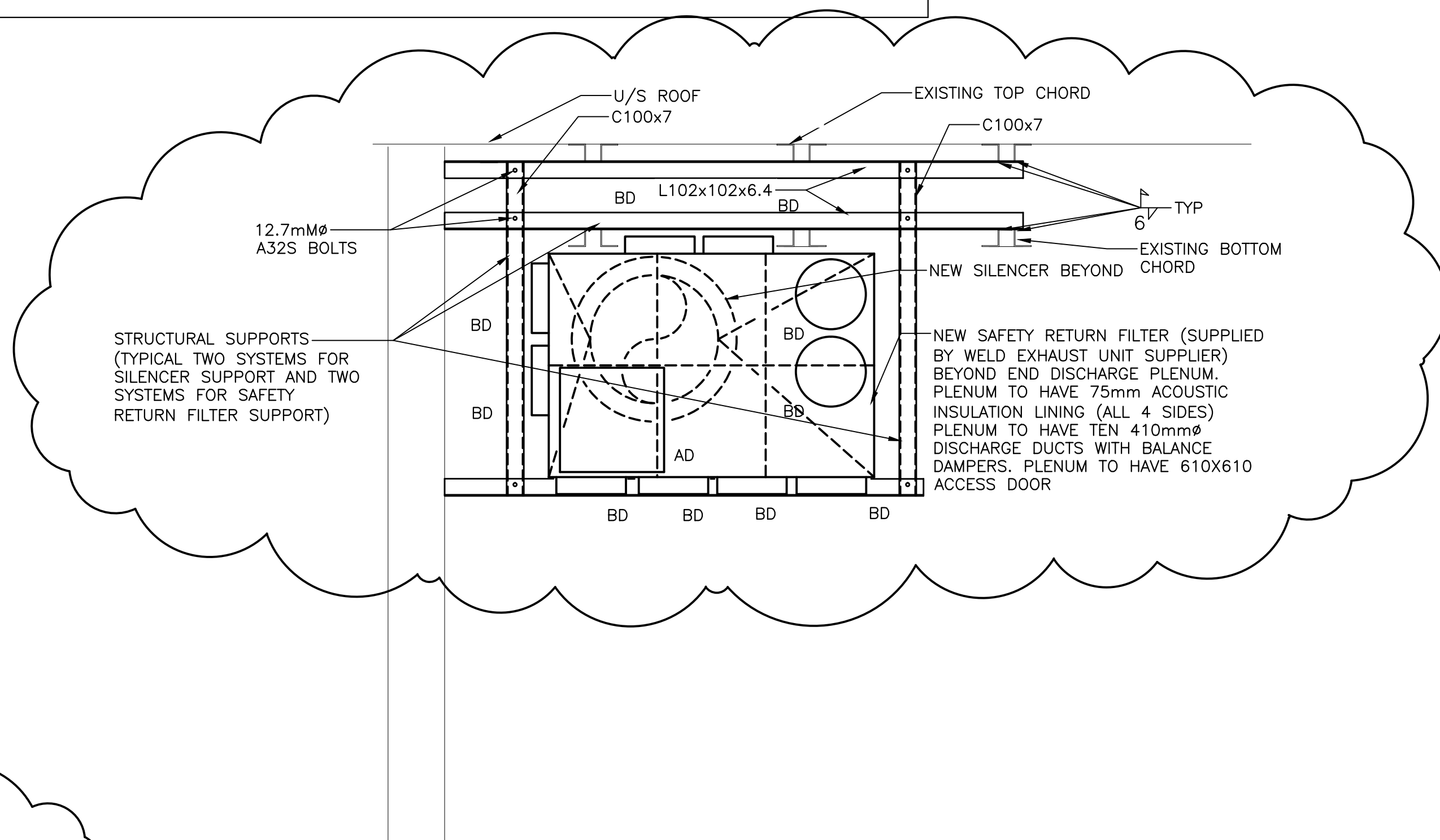
Public Works and Government Services Canada
Travaux Publics et Services gouvernementaux Canada

CBCL CBCL LIMITED
Consulting Engineers

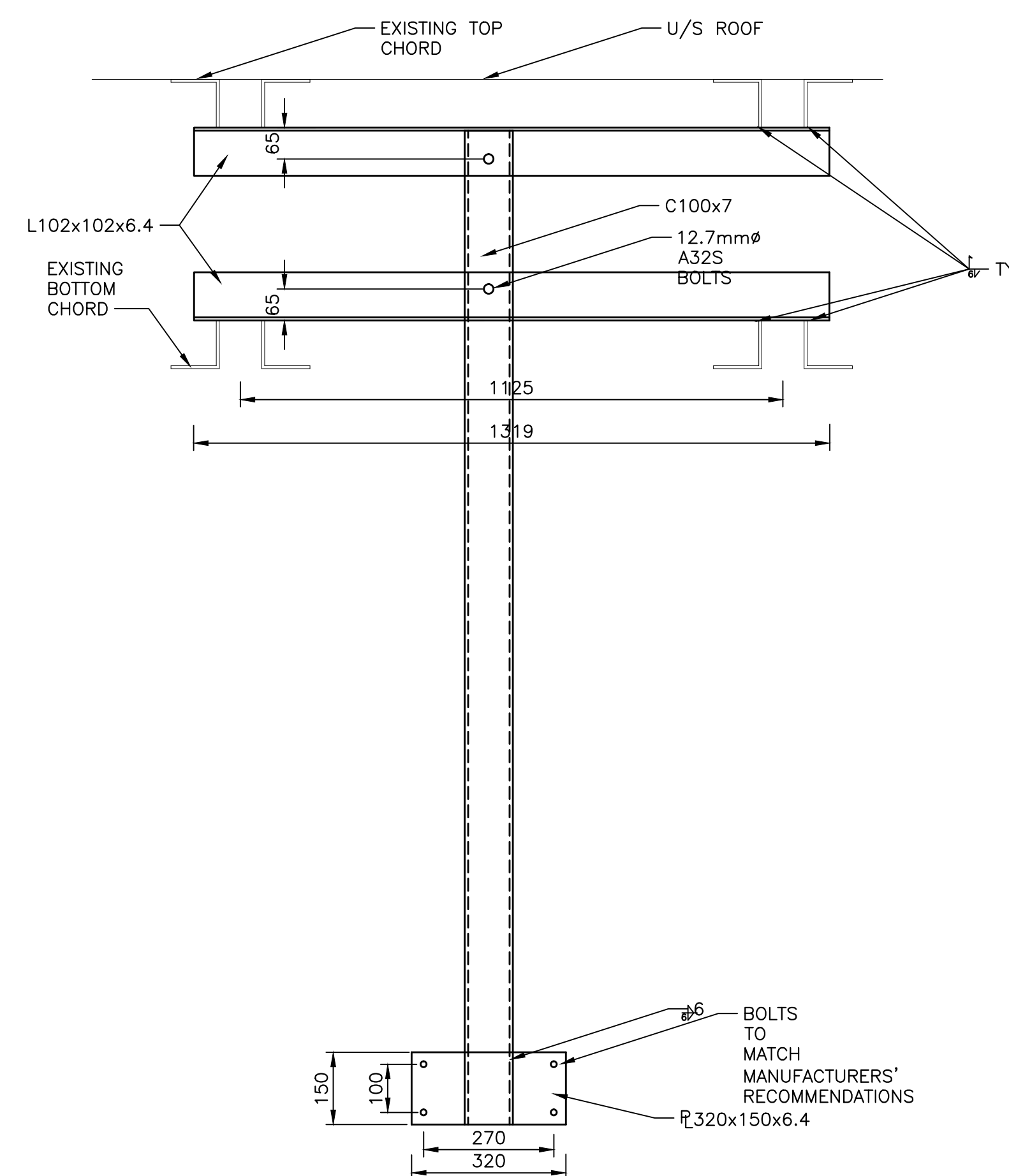
| WELD EXHAUST COLLECTOR SYSTEM SCHEDULE | | | | | | | |
|---|--------------|---------------|----------------------------------|--------------|---------------------------|--|---|
| TAG | AREA SERVED | TYPE | MAKE | MODEL NUMBER | POWER SUPPLY (V/HZ/PH) | UNIT DIMENSIONS (MM) | REMARKS |
| WEKH-1 | MACHINE SHOP | FLOOR MOUNTED | UNITED AIR SPECIALISTS INC | SFC 16-4 | 575/ 3 /60 | 1145 FACE WIDTHx 2320 DEPTHx 3153 HEIGHT | C/W SIXTEEN NANOFIBER FIRE RETARDANT CARTRIDGE FILTERS, DUST DRAWER CONFIGURATION, AUTOMATIC REVERSE PULSE JET CLEANING SYSTEM, DIGITAL PRESSURE AND PULSE CONTROL PANEL (WITH DIGITAL PHOTOHELIC GAUGE, MOTOR STARTER, EXHAUST FAN, SILENCER, SAFETY RETURN FILTER, SPRINKLER COUPLING, SOLENOID VALVE, AIR PROVING SWITCH AND ASSOCIATED CONTROL CONTACTS, ALARM OUTPUT |
| NOTES: WELD EXHAUST EXTRACTION SYSTEM: PLYMOVENT WELD EXHAUST EXTRACTION SYSTEM REQUIRED TO REMOVE THE WELDING FUMES BEING GENERATED IN THE ROOM. THE WELD EXHAUST SYSTEM WILL BE COMPLETE WITH THE FOLLOWING EQUIPMENT 10 – PLYMOVENT MODEL KUA-2 WELD FUME EXTRACTION ARMS, 152mm(6.25")Ø, 2134mm (7FT) LONG, WITH SUPPORT BRACKET, COLLECTION HOOD, & SUPPORT STANCHIONS | | | | | | | |

| WELD EXHAUST COLLECTOR EXHAUST FAN SCHEDULE | | | | | | | | | |
|---|---------------|----------|-----------------|-----------------|---------------|--------------|------------------|---------------------------|---|
| TAG | LOCATION | MAKE | SERIES | ARR/CLASS | LPS(CFM) | ESP Pa(N) | MOTOR KW (HP) | POWER SUPPLY (V/Hz/PH) | REMARKS |
| W-EF-1 | FLOOR MOUNTED | NEW YORK | SWSI SIZE 24 | ARR#1/CLASS III | 5354 (11,350) | 2500 (10.0) | 22.3 (30) | 575/3/60 | C/W PLR WHEEL, BELT, BEARING, SHAFT GUARD, ACCESS DOOR, V BELT DRIVE, FLANGED INLET AND OUTLET WITH FLEX CONNECTIONS, UNITARY BASEW SPRING VIBRATION ISOLATORS AND AN OPPOSED BLADE OUTLET DAMPER |
| NOTES: - UNIT TO BE SUPPLIED WITH A DISCONNECT, AND A 1220 MM DISCHARGE SILENCER | | | | | | | | | |

| AIR BALANCE SCHEDULE | | |
|----------------------|-----------------------------------|---------------------------------|
| TAG | EQUIPMENT DESCRIPTION | MIN EXHAUST FLOW RATE LPS (CFM) |
| 1 | EXISTING HOOD 1 EH-1 | 387 (820) |
| 2 | EXISTING HOOD 2 EH-2 | 387 (820) |
| 3 | EXISTING HOOD 3 EH-3 | 387 (820) |
| 4 | EXISTING HOOD 4 EH-4 | 353 (820) |
| 5 | WELD FUME EXTRACTION ARM 1 WFE-1 | 353 (750) |
| 6 | WELD FUME EXTRACTION ARM 2 WFE-1 | 353 (750) |
| 7 | WELD FUME EXTRACTION ARM 3 WFE-1 | 353 (750) |
| 8 | WELD FUME EXTRACTION ARM 4 WFE-1 | 353 (750) |
| 9 | WELD FUME EXTRACTION ARM 5 WFE-1 | 353 (750) |
| 10 | WELD FUME EXTRACTION ARM 6 WFE-1 | 353 (750) |
| 11 | WELD FUME EXTRACTION ARM 7 WFE-1 | 353 (750) |
| 12 | WELD FUME EXTRACTION ARM 8 WFE-1 | 353 (750) |
| 13 | WELD FUME EXTRACTION ARM 9 WFE-1 | 353 (750) |
| 14 | WELD FUME EXTRACTION ARM 10 WFE-1 | 353 (750) |
| 15 | EXISTING CUTTING TABLE | 400 (850) |



D SECTION-REVISED SAFETY RETURN HEPA FILTER
M1/M1 SCALE: NTS
0mm 500mm 1000mm 1500mm 2000mm 2500mm



1 DETAIL - TYPICAL SUPPORT FOR WELDING ARM
M2.0 M2.0 SCALE: 1:10
0mm 100 200 300 400 500 600 700 800 900 1000mm

| SILENCER SCHEDULE | | | | | | | | | | | |
|-------------------|-------------------|---------------------|----------------|------------------------------|-----|-----|-----|------|------|------|------|
| TAG | AIRFLOW LPS (CFM) | INNER DIAM. MM (IN) | LENGTH MM (FT) | REQUIRED INSERTION LOSS (dB) | | | | | | | |
| | | | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| SL-1 | 5,355 (11,350) | 762 (30) | 1829 (72) | 5 | 10 | 17 | 27 | 34 | 28 | 21 | 17 |

| | | |
|-----------|--|------------|
| 2 | ISSUED FOR ADDENDUM 1 | 02/06/2017 |
| 0 | ISSUED FOR TENDER | 12/07/2016 |
| 1 | ISSUED FOR REVIEW | 11/10/2016 |
| revisions | | date |
| project | CANADIAN COAST GUARD COLLEGE MACHINE SHOP WELDING LAB EXHAUST SYDNEY, NS | |

| | | |
|-----------------------|---------------------------------|------------|
| drawing | MECHANICAL | |
| | HVAC ELEVATIONS & SCHEDULES | |
| designed | DONNIE ARSENAULT | conçu |
| date | DECEMBER, 2015 | |
| drawn | STAFF | dessiné |
| date | DECEMBER, 2015 | |
| approved | | approuvé |
| date | | |
| Tender | | Soumission |
| PW50C Project Manager | Administrateur de projets TPS0C | |
| project number | no. du projet | |
| | R 065476.617 | |
| drawing no. | no. du dessin | |
| | M-2 | |

E-DRW/CDD-E: 547742