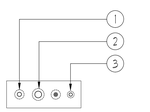
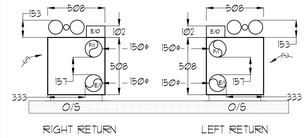
PIPE SHAFT B: 2/F -T/F — NTS




PIPE SHAFT C: 2/F -T/F — NTS




INSUITE FCU DIMENSIONS — NTS

| UNIT | NAME | AREA (SQ. FT.) | # OF WR | # OF POWDER | SIZE (T) | FIXTURE UNITS | BR | SQ. FT/T |
|---|---|---|---|---|---|---|---|---|
| 601 | 1A-MRI | 525 | 1 | Ø | 1 | 10 | 1 | 525 |
| 602 | 1E-D3 | 660 | 2 | Ø | 1 | 16 | 1 | 660 |
| 605 | 3DT | 1270 | 3 | Ø | 2 | 22 | 2 | 635 |
| 608 | 3DTR | 1260 | 3 | Ø | 2 | 22 | 2 | 630 |
| 610 | 1F-D3 | 660 | 2 | Ø | 1 | 16 | 1 | 660 |
| 611 | 1C-D1 | 590 | 2 | Ø | 1 | 16 | 1 | 590 |
| 612 | 1C-D1 | 590 | 2 | Ø | 1 | 16 | 1 | 590 |
| 613 | 1C-D1 | 590 | 2 | Ø | 1 | 16 | 1 | 590 |
| 628 | 2F-M | 705 | 2 | Ø | 1.5 | 16 | 2 | 470 |
| 629 | 1B-D1 | 580 | 1 | Ø | 1 | 10 | 1 | 580 |

## GRILLE SIZING TABLE

| DESIGNATION | SIZE | L/S | (UNLESS SPECIFIED ELSEWHERE) |
|---|---|---|---|
| SG-A | 300x100 | 47-70 | |
| SG-B | 300x150 | 71-93 | |
| SG-C | 400x150 | 94-140 | |
| SG-D | 450x150 | 141-188 | |
| EG-A | 150x150 | 35 | |
| W-1 | 225x200 | 210mm(L) | |
| W-2 | 425x200 | INSULATED | |
| W-3 | 675x200 | WALL BOX | |

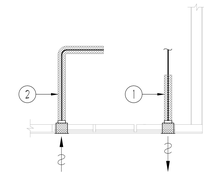
## VERTICAL FAN COIL SIZE

| DESIGNATION | MODEL | W x D |
|---|---|---|
| FCU-1T | 450 | 500x660 |
| FCU-1.5T | 600 | 500x660 |
| FCU-2T | 800 | 500x660 |
| FCU-2.5T | 1000 | 559x660 |
| FCU-3T | 1200 | 559x660 |

NOTE:
A MIN. OF 125mm IS REQUIRED ON THE SIDE OF PIPE RISER.

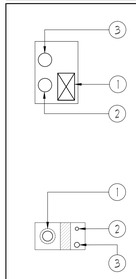
## DUCT SIZING TABLE
(4.06 m/s, 800 FPM)

| DESIGNATION | L/s | DUCT SIZE | DESIGNATION | L/s | DUCT SIZE |
|---|---|---|---|---|---|
| A | 47 | 100x150 | G | 189 | 350x150 |
| B | 71 | 150x150 | H | 236 | 450x150 |
| C | 94 | 200x150 | J | 283 | 500x150 |
| D | 118 | 200x150 | K | 330 | 600x150 |
| E | 141 | 250x150 | L | 377 | 500x200 |
| F | 165 | 300x150 | | | |




1. EXHAUST DUCTWORK TO BE C/W 25mm THICK THERMAL INSULATION 6FT. FROM EXTERIOR WALL. (TYPICAL)
2. F/A INTAKE DUCTWORK TO BE C/W 25mm THICK THERMAL INSULATION FOR ENTIRE LENGTH FROM EXTERIOR WALL TO ERV FCU. (TYPICAL)

TYPICAL DETAIL: INSULATION FOR INTAKE/EXHAUST DUCTWORK — NTS




PIPE SHAFT A: 2/F -T/F — NTS

GENERAL NOTES:

1) CONTRACTOR SHALL CO-ORDINATE ARCHITECTURAL, STRUCTURAL, LIGHTING, HVAC, SPRINKLER DRAWINGS TO AVOID AREAS OF CONFLICT AND TO MAINTAIN CEILING HEIGHTS.
2) CONTRACTOR SHALL REPORT ALL DISCREPANCIES AND AREA OF CONFLICTS TO THE ENGINEER PRIOR TO WORK BEGINS.
3) PROVIDE EXPANSION CHAMBERS FOR ALL KITCHEN SINKS.
4) SEE INSTALLATION DETAILS DRAWING FOR WASHER DOM. H4C WATER, SANITARY CONNECTION DETAILS.
5) SUPPLY AND INSTALL COMPLETE DOMESTIC HOT AND COLD WATER LINES, SANITARY AND VENT LINES TO EACH FIXTURE /EQUIPMENT INCLUDING WATER CLOSETS, LAVATORIES, BATHS, SHOWERS, KITCHEN SINK, WASHING MACHINES, DISHWASHERS, AND FLOOR DRAINS, KITCHEN SINK, LAVATORIES, WATER CLOSETS AND WASHING MACHINE TO BE C/W LOCALIZED SHUT-OFF VALVES.
6) ALL VENT PIPE INSTALLATION TO COMPLY WITH PLUMBING CODES.
7) FOR D.H.W. W. RISER SIZES, REFER TO RISER DIAGRAM
8) FIRE DAMPERS ARE REQUIRED TO BE LISTED AND ARE TO HAVE FIRE PROTECTION RATING OF THE PENETRATED FIRE SEPARATION.
9) THE PIPING PENETRATING THE VARIOUS FIRE SEPARATION IS REQUIRED TO BE FIRESTOPPED WITH A LISTED FIRESTOPPING MATERIAL IN ACCORDANCE WITH OBC ARTICLE 3.1.9.1
10) THE FIRE HOSE CABINET THAT ARE RECESSED INTO THE EXIT STAIR SHAFTS ARE REQUIRED TO BE SEPARATED FROM THE EXIT STAIR BY A 2 HR. FIRE SEPARATION.
11) NO FLEXIBLE DUCT SHALL BE USED FOR ANY IN-SUITE DUCTWORK.
12) PROVIDE 25MM EXTERNAL INSULATION TO ENTIRE FRESH AIR DUCT FROM EXTERIOR WALL TO ERV FAN COIL UNIT.
13) DRYER EXHAUST DUCT SHALL BE SMOOTH AND CORROSION-RESISTANT MATERIAL (FLEXIBLE CONNECTION IS NOT ACCEPTABLE).

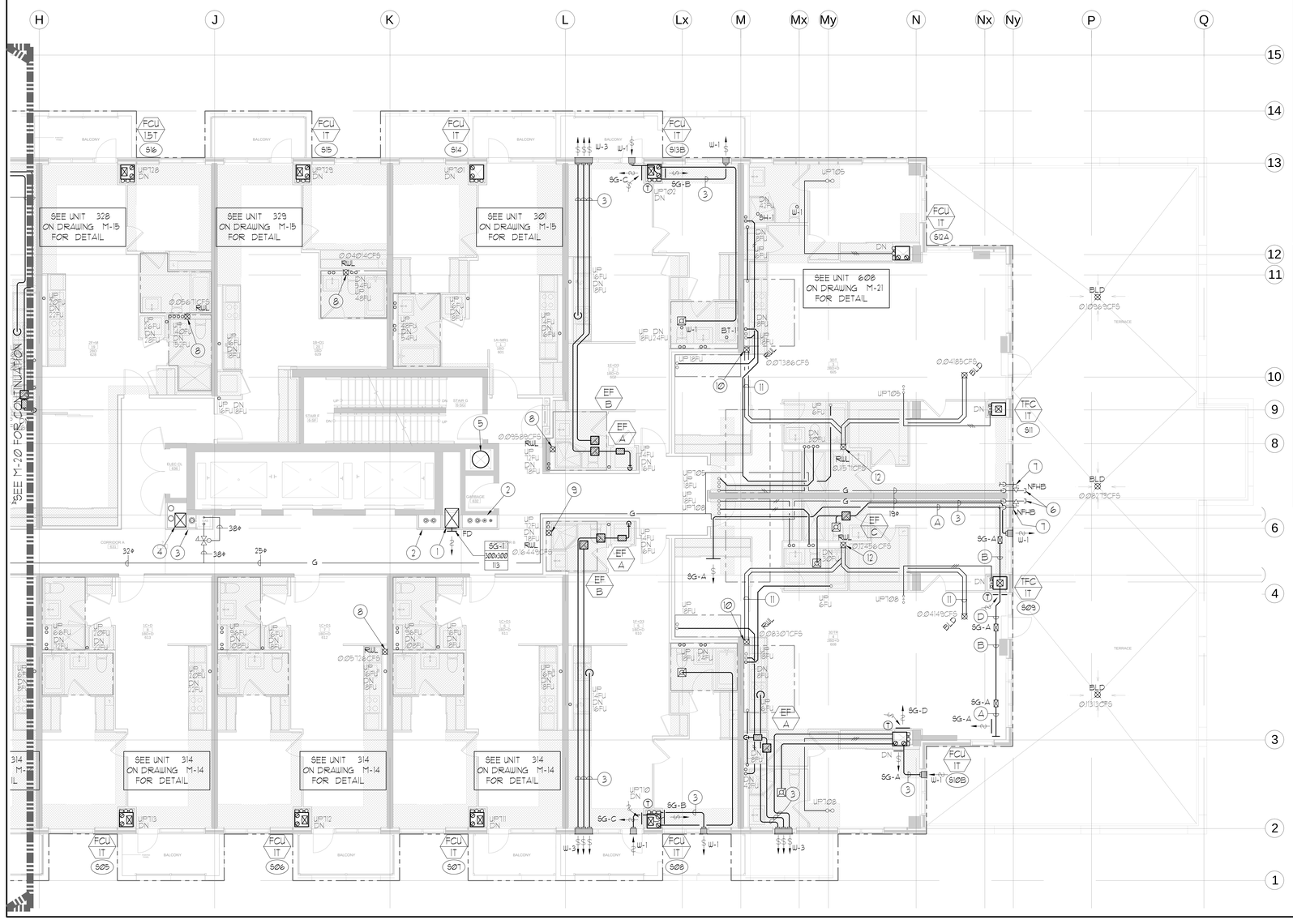
ACOUSTIC NOTES:

1) ALL SYSTEM/DOMESTIC PIPE LOOPS OR OFFSETS WHICH ARE 50MM DIA. AND LARGER SHALL BE ISOLATED USING NEOPRENE-IN-SHEAR HANGERS, AND ADDITIONAL 25 MM THICK RIBBED OR WAFFLED NEOPRENE PADS IN THE SADDLES OF CLEVIS HANGERS.
2) ALL PIPES SMALLER THAN 50MM DIA. SHALL BE ISOLATED WITH 5MM THICK RIBBED OR WAFFLED RUBBER PADS IN HANGER SADDLES.

CLEAR FLOOR TO UNDERSL.AB = 2750mm
CLEAR PRODUCT= 2700mm
UNITS 605/608: DRAINS FROM TERRACE ON T/F

NOTES:

1. NORTH F/A SHAFT B FROM G/F TO 14/F. DUCT SERVING CORRIDOR FROM G/F TO 14/F. SEE PRESSURIZATION / VENTILATION RISER DIAGRAM FOR DETAILS.
2. PIPE SHAFT - REFER TO PIPE RISER DETAIL ON THIS DRAWING FOR DETAILS.
3. 150ø KITCHEN / DRYER / W/R / FCU INTAKE / FCU EXHAUST DUCT. (TYPICAL UNLESS OTHERWISE NOTED)
4. NORTH F/A SHAFT A FROM G/F TO 14/F. DUCT SERVING CORRIDOR FROM 9/F TO 14/F. SEE PRESSURIZATION / VENTILATION RISER DIAGRAM FOR DETAILS.
5. 600ø GARBAGE CHUTE.
6. 19ø GAS PIPE c/w VALVE AND CAP FOR BBQ.
7. 19ø DCW FOR NFHB TO BE CONNECTED TO SUITE'S MAIN DCW LINE.
8. 100ø RWL FROM ABOVE AND DOWN.
9. 150ø RWL FROM ABOVE AND DOWN.
10. 100ø RWL FROM ABOVE.
11. 100ø STM #1%.
12. 100ø RWL DOWN.




KEY PLAN — N.T.S.

## LEGEND MECHANICAL

| SYMBOL | DESCRIPTION |
|---|---|
| | SUPPLY AIR DIFFUSER |
| | SUPPLY AIR TROFFER |
| | LINEAR SUPPLY DIFFUSER |
| T | THERMOSTAT |
| S | FAN SWITCH |
| | RETURN AIR GRILLE |
| | EXHAUST AIR GRILLE |
| | SUPPLY DUCT UP |
| | SUPPLY DUCT DOWN |
| | RETURN DUCT UP |
| | RETURN DUCT DOWN |
| | EXHAUST DUCT UP |
| | EXHAUST DUCT DOWN |
| FD | FIRE DAMPER |
| BD | BALANCING DAMPER |
| | MOTORIZED DAMPER |
| FSD | MOTORIZED FIRE DAMPER |
| BDD | BACKDRAUT DAMPER |
| OBD | OPPOSED BLADE VOLUME CONTROL DAMPER C/U LOCKING QUADRANT |
| | TURNING VANES |
| | FLEXIBLE CONNECTION |
| | ACOUSTIC INSULATION |
| XX | TYPE OF EQUIPMENT |
| XX | EQUIPMENT IDENTIFICATION |
| XX | TYPE OF DIFFUSER OR GRILLE |
| XXX | GRILLE SIZE OR DIFFUSER NECK SIZE |
| XXX | AIRFLOW (CFM OR L/S) |
| | STARTER ( / PAUSE / PAUSE ) |
| S | IN-SUITE ERV MASTER SWITCH |
| S | FAN SWITCH / IN-SUITE ERV-OVERRIDE BUTTON |
| CO | CO SENSOR |
| G | GAS LINE |
| G | GAS METER |
| G | GAS COCK |
| | PRESSURE REDUCING VALVE |
| | SANITARY ABOVE GRADE |
| | SANITARY BELOW GRADE |
| | STORM ABOVE GRADE |
| | STORM BELOW GRADE |
| | DOMESTIC COLD WATER |
| | DOMESTIC HOT WATER |
| | DOMESTIC HOT WATER RECIRCULATION |
| | SANITARY VENT |
| | WATER METER |
| FD | FLOOR DRAIN |
| FFD | FUNNEL FLOOR DRAIN |
| HD | HUB DRAIN |
| RD | ROOF DRAIN |
| SLD | SLAB DRAIN |
| AD | AREA DRAIN |
| BLAD | BALCONY AREA DRAIN |
| CB | CATCH BASIN |
| | SANITARY TRAP |
| | ELBOW UP |
| | ELBOW DOWN |
| CO | WALL CLEANOUT |
| CO | FLOOR CLEANOUT |
| HB | HOSE BIBB |
| NFHB | NON-FREEZE HOSE BIBB |
| | GLOBE VALVE |
| | GATE VALVE |
| | BALL VALVE |
| | BUTTERFLY VALVE |
| | PRESSURE REDUCING VALVE |
| | CHECK VALVE |
| | CAP |
| | COMPRESSED AIR OUTLET |
| | BACKFLOW PREVENTER |
| | CIRCUIT BALANCING VALVE |
| | MULTIPLE PIPES / / - DENOTES NO. OF PIPES |
| T | TEMPERATURE SENSOR |
| T | THERMOMETER |
| | 2-WAY MODULATING VALVE |
| | 3-WAY MODULATING VALVE |
| | 1/2"x4"(D) THERMOWELL C/W 1/2" BUSHING & 1/2" PLUG |
| XXX | FLOOR ELEVATION ABOVE LEVEL |
| XXX | FLOOR ELEVATION THIS LEVEL |
| XXX | HEADROOM (FLOOR TO U/S HEIGHT) |

| DATE | NO. | DESCRIPTION | BY |
|---|---|---|---|
| 28-14 | 3 | RE-ISSUED FOR PERMIT | E.P. |
| 27.10.14 | 2 | RE-ISSUED FOR PERMIT | E.P. |
| 25.10.14 | 1 | ISSUED FOR PERMIT | E.P. |

MARK VOID ALL PRINTS DATED PREVIOUS TO FINAL DATE ABOVE

## REVISIONS

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT DISCREPANCIES TO THE ENGINEERS BEFORE PROCEEDING WITH THE WORK. THIS DRAWING IS THE PROPERTY OF THE ENGINEERS AND MUST BE RETURNED UPON COMPLETION OF THE WORK.

DRAWINGS ARE NOT TO BE SCALED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07/10/14
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DRAWING TITLE
G/F NORTH
MECHANICAL LAYOUT

PROJECT TITLE
SQ ALEXANDRA PARK
BLOCK 11
38 CAMERON STREET
TORONTO ONTARIO

| DRAWN BY: | CHECKED BY: | SCALE: |
|---|---|---|
| G.S. | E.P. | 1:50 |
| DATE: FEB. 13 | PROJECT NUMBER: 1313 | DRAWING NUMBER: M-21 OF 43 |