



300-2611 QUEENSWAY DRIVE
OTTAWA, ONTARIO CANADA K2B 8K2
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G	ISSUED FOR REV.1 EMS FOUR REV.1	09/FEB/15
F	ISSUED FOR TENDER EMS FOUR SUBMISSION	03/FEB/15
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D	ISSUED FOR 100% REVIEW EMS FOUR REVISION 100%	15/DEC/14
C	ISSUED FOR 90% REVIEW EMS FOUR REVISION 90%	19/NOV/14
B	ISSUED FOR 60% REVIEW EMS FOUR REVISION 60%	07/OCT/14
A	ISSUED FOR 30% REVIEW EMS FOUR REVISION 30%	13/AUG/14
revisions		date

A

B

A detail not
to be scaled
B location drawing no.
C drawing no.
D design no.

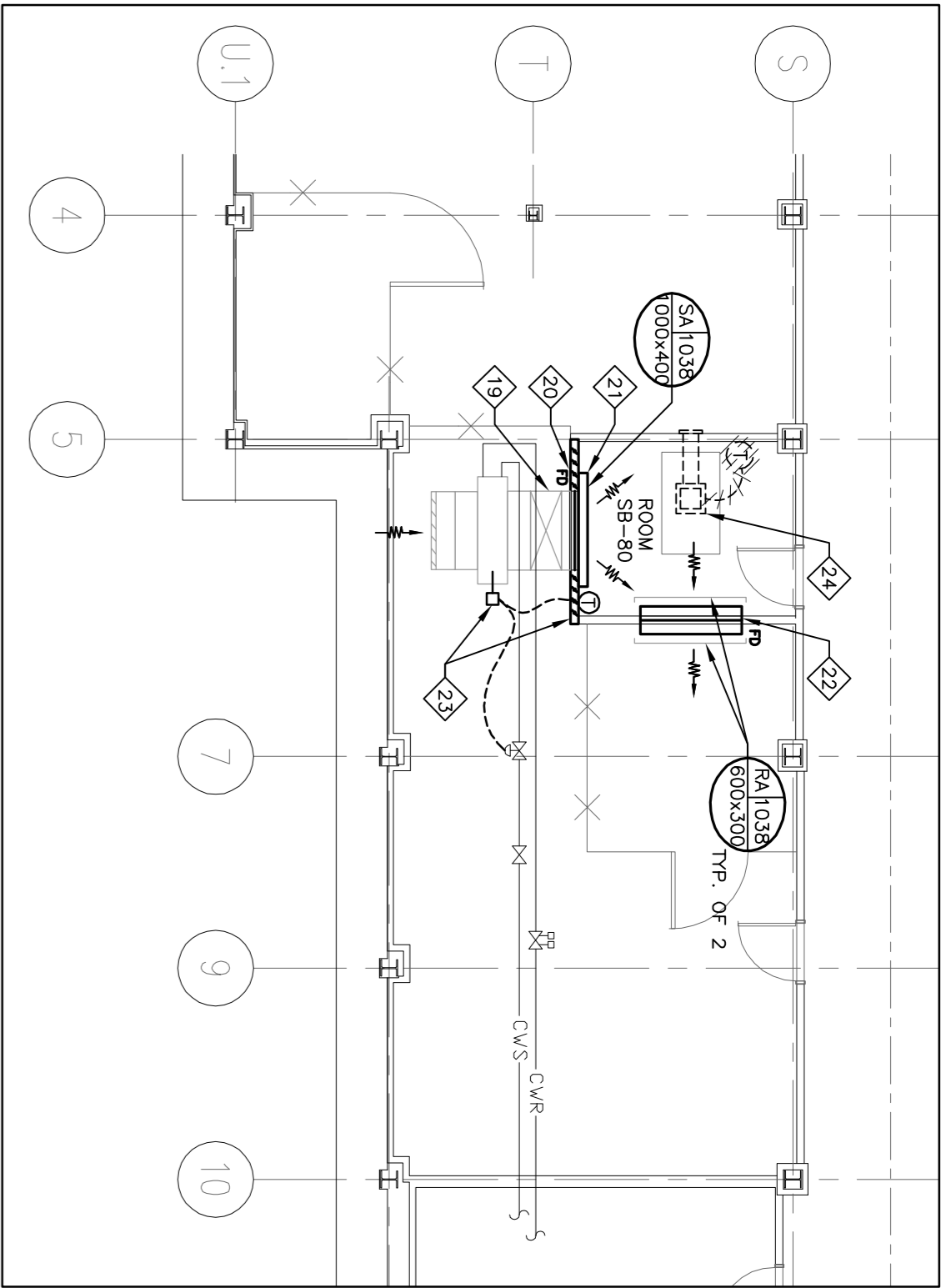
A

B

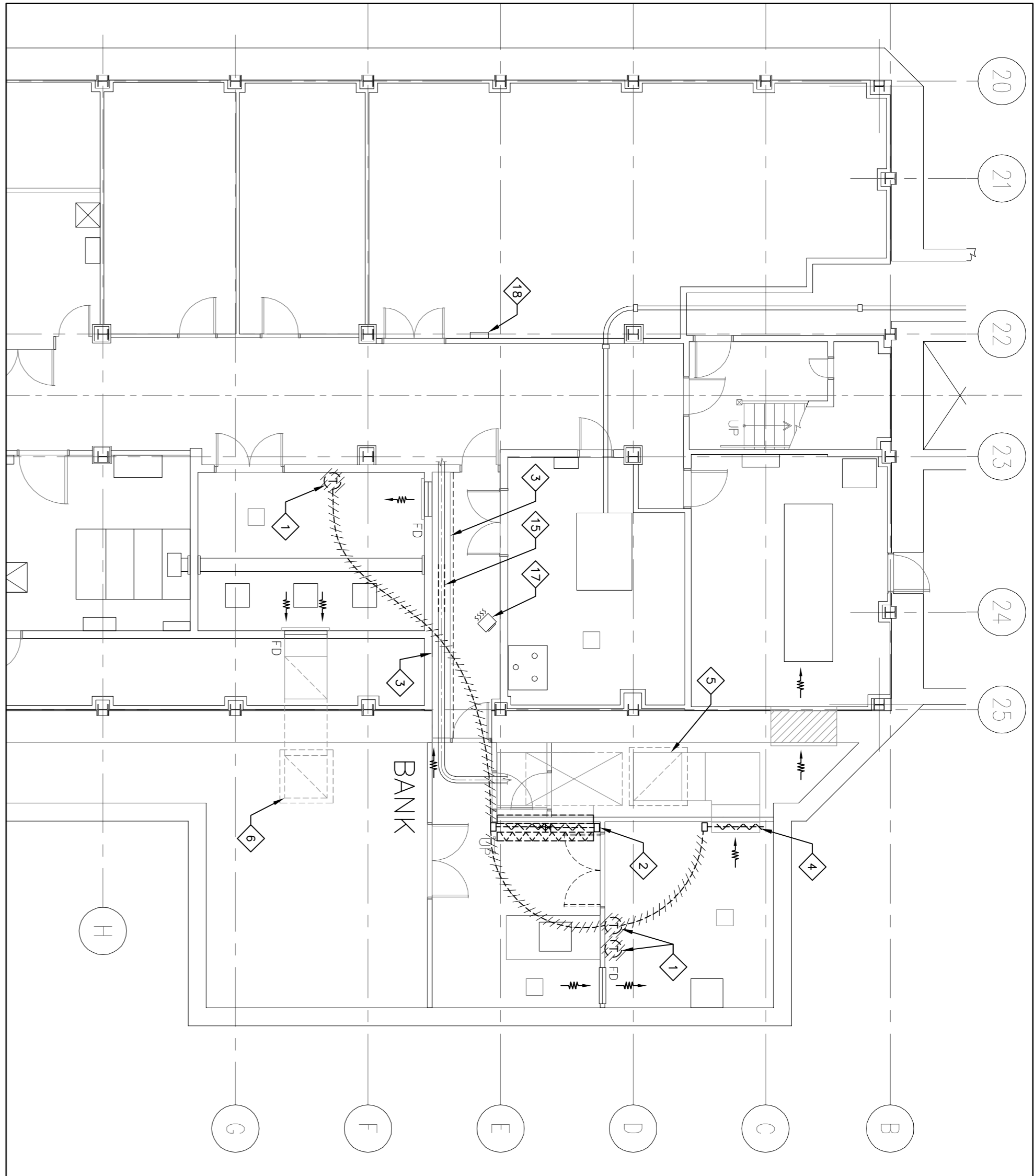
C

Project
HIGH AND LOW VOLTAGE –
ELECTRICAL UPGRADES
AM LIORATIONS  LECTRIQUES –
HAUTE ET BASSE TENSION
229 WELLINGTON STREET
OTTAWA, ONTARIO

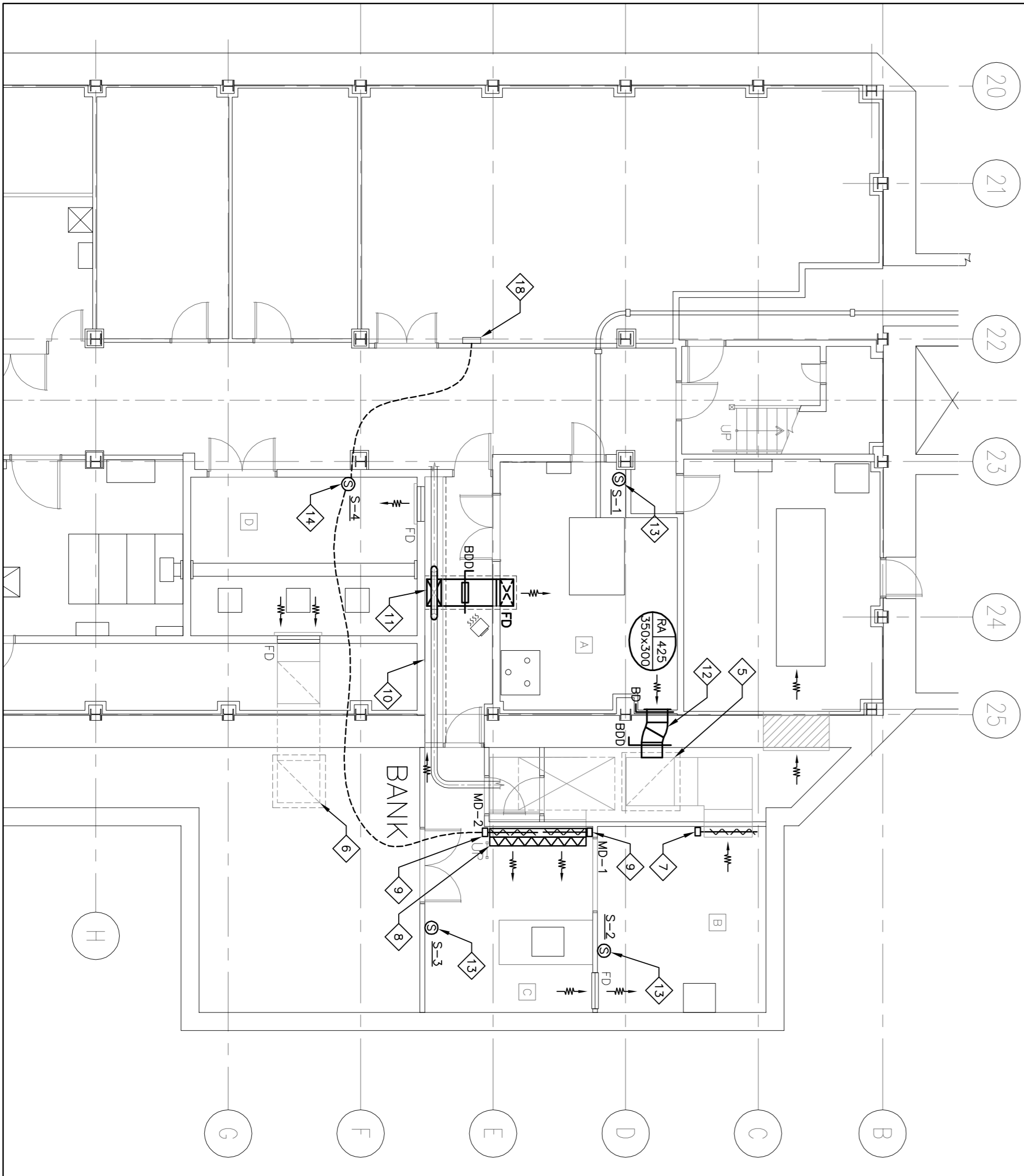
drawing	design
scale	AS SHOWN
designed	D. GAMBLE
date	20/06/2014
drawn	M.A.D.
date	20/06/2014
reviewed	D. GAMBLE
date	20/06/2014
approved	D. GAMBLE
date	20/06/2014
Tender
Project Manager	Administrateur de projet TFC
Project number	no. du projet
	R.069893.001
drawing no.	no. du dessin
	M1



SUB-BASEMENT ELECTRICAL ROOM MODIFICATIONS
SCALE 1 : 100



SUB-BASEMENT MECHANICAL DEMOLITION LAYOUT
SCALE 1 : 100



SUB-BASEMENT NEW MECHANICAL LAYOUT
SCALE 1 : 100

GENERAL NOTES:

- DIV. 25 TO REMOVE ALL POWER AND CONTROL WIRING. REMOVE CONTROL WIRING CONDUIT WHERE NOT RE-USED, COORDINATE WITH DIVISION 23 & 26.

DRAWING NOTES:

- REMOVE EXISTING THERMOSTATS, WIRING.
- REMOVE EXISTING MOTORIZED INAKE DAMPERS & FILTER SECTION. MAKE OPENING READY FOR NEW DIVIDED INSULATED INAKE DAMPERS AND ACTUATORS.
- EXISTING 400x2100mm TRANSFER DUCT TO REMAIN (MAKE READY FOR NEW INTERNAL SUPPORT BRACING).
- EXISTING DAMPERS TO REMAIN. MAKE READY FOR NEW ACTUATOR AND CONTROLS.
- EXISTING EF-1 IN PERIMETER ENCLOSURE ON CONCRETE SLAB ABOVE IN EXTERIOR AREA WELL TO REMAIN.
- EXISTING EF-2 IN PERIMETER ENCLOSURE ON CONCRETE SLAB ABOVE IN EXTERIOR AREA WELL ABOVE TO REMAIN.
- NEW DAMPER ACTUATOR ON EXISTING DAMPERS (BY DIV. 25). DIV. 25 TO PROVIDE VERIFICATION REPORT.
- MEASURE EXISTING EXTERIOR WALL OPENING FOLLOWING DAMPER REMOVALS FOR NEW DAMPER SIZES (APPROXIMATE 2400x1200mm). PROVIDE TWO NEW SEPARATED SURFACE MOUNTED DAMPERS RACKS FOR 600x600x20mm PLATED FILTERS.
- PROVIDE NEW ACTUATORS FOR EACH NEW (1200x1200mm) SECTION DRIVE ROD AND LINKAGES (BY DIV. 25). DIV. 25 TO PROVIDE VERIFICATION REPORT.
- REMOVE EXISTING WIRE MESH GRILLE TO GAIN ACCESS TO INTERIOR OF EXISTING 400x2100mm TRANSFER AIR DUCT. PROVIDE NEW INTERIOR GALVANIZED ANGLE IRON DUCT BRACING AT 1250mm SPACING (AT EXISTING JOINT SPANS) SECURED WITH GALVANIZED FASTENERS.
- PROVIDE NEW 350x300mm BRANCH DUCT FROM TOP OF EXTERIOR TRANSFER AIR DUCT TO NEW TRANSFER ROOM AS INDICATED. PROVIDE DUCT DROP TO 600mm A.F.F. C/W SHOP FABRICATED WIRE MESH GRILLE (SEE STRUCTURAL DRAWINGS FOR WALL PENETRATION DETAIL).
- PROVIDE 350x300mm EXHAUST DUCT. CONNECT TO EXISTING EF-1 INTAKE PLATING IN EXTERIOR AREA. WELL C/W BRACING AND BACKDRAFT DAMPERS AND WALL GRILLE (SEE STRUCTURAL DRAWINGS FOR WALL PENETRATION DETAIL).
- DIV. 25 TO PROVIDE NEW SPACE TEMPERATURE SENSORS. INTERLOCK NEW TRANSFER ROOM SENSORS (ROOMS A, B, C) TO OPERATE EF-1 AND ASSOCIATED OUTDOOR AIR INAKE DAMPER SECTION CONTROLS.
- DIV. 25 TO PROVIDE NEW SPACE TEMPERATURE SENSOR FOR TRANSFER ROOM. INTERLOCK ROOM SENSOR (ROOM D) TO OPERATE EF-2 AND ASSOCIATED OUTDOOR AIR INAKE DAMPER SECTION CONTROLS.
- REMOVE AND RE-INSULATE EXISTING 150mm DUCT ABOVE EXISTING TRANSFER AIR TO ACCOMMODATE NEW TRANSFER DUCT.
- FA AND ELECTRICAL CONDUIT TO BE RELOCATED – SEE DIV. 26
- EXISTING UNIT HEATER TO REMAIN.
- EXISTING BAS PANEL TO REMAIN.
- CUT BACK EXISTING PANCOIL SUPPLY AIR DUCT TO SUITABLE EXTENT TO ACCOMMODATE NEW WALL CONSTRUCTION. FIRE DAMPER INSTALLATION AND WALL GRILLE.
- NEW F.G. DISCHARGE DUCT WALL PENETRATION C/W FIRE DAMPER.
- NEW 1000x400mm WALL GRILL AT HIGH ELEVATION ABOVE ELECTRICAL EQUIPMENT.
- NEW R/A 600x300mm TRANSFER WALL GRILLE C/W FIRE DAMPER. COORDINATE INSTALLATION HEADRT ON SITE WITH ELECTRICAL EQUIPMENT.
- DIV. 25 TO PROVIDE AND INSTALL F.C. CONTROLLER AND SPACE TEMP SENSOR (INCLUDING POWER, CONTROL WIRING) TO COMPLETE EXISTING COOLING ONLY FAN COIL CONTROLS. INTEGRATE EXISTING COOLING VALVE ACTUATOR INTO NEW CONTROLLER AND SEQUENCE-OF-OPERATIONS.
- REMOVE EXISTING ELECTRICAL ROOM EXHAUST FAN C/W CONTROLS, DUCTWORK AND WALL GRILLE. WALL REPAIR BY GENERAL CONTRACTOR.