HVAC SYMBOLS

	LINEAR/CURVED SUPPLY/RETURN GRILLE
	REFRIGERANT LIQUID/VAPOR LINE
	DOOR GRILLE
ODU	VRV OUTDOOR UNIT
IDU	VRV INDOOR UNIT
	FAN
	AC SUPPLY DUCT
	AC RETURN DUCT
	FRESH AIR DUCT TO FCU
	TOILET EXTRACT FAN
	KITCHEN EXTRACT FAN
	LOUVER

MECHANICAL NOTES:

1. IN MECHANICAL ROOMS, CONTRACTOR TO PROVIDE APPROPRIATE ALLOWANCE TO BUILD CATWALKS AND LADDERS AS NECESSARY TO PROVIDE ACCESS TO MECHANICAL EQUIPMENT AT HIGH LEVELS INCLUDING, BUT NOT LIMITED TO, FIRE DAMPERS, FIRE–SMOKE DAMPERS, DUCTOWORK, AC UNITS, ETC. ALL CATWALKS, LADDERS, ETC., SHALL BE CONSTRUCTED ACCORDING TO LOCAL STANDARDS, WITH APPROPRIATE HANDRAILS AND HEADROOM CLEARANCES AS NECESSARY.
2. PROVIDE VOLUME DAMPERS IN BRANCH AND RUN OUT DUCTWORK FOR ALL AIR OUTLETS AND INLETS. WHERE DAMPERS ARE ABOVE NON–ACCESSIBLE CEILINGS OR ARE WITHIN NON–ACCESSIBLE CONSTRUCTION, CORD OPERATORS SHALL BE PROVIDED.
3. PROVIDE TEMPERATURE CONTROL DEVICES FOR ALL THERMAL ZONES.
4. PROVIDE INTERNAL DUCT LINING ONLY WHERE REQUIRED BY THE ACOUSTICAL CONSULTANT AND APPROVED BY THE CLIENT.
5. CONTRACTOR SHALL ALLOW FOR ADEQUATE FLEXIBLE DUCT AND PIPE CONNECTIONS. CONNECTION SHALL CONFORM TO THE REQUIREMENTS OF THE MECHANICAL DETAILS. IN ADDITION TO ROTATING EQUIPMENT CONNECTIONS, FLEXIBLE CONNECTIONS SHALL OCCUR AT ALL ACOUSTIC ISOLATION, BUILDING MOVEMENT JOINTS. COORDINATE REQUIREMENTS WITH ALL OTHER DRAWINGS.
6. FOR ALL ITEMS THAT ARE REQUIRED TO HAVE SEISMIC SUPPORTS OR RESTRAINTS, SEISMIC PLANS AND SEISMIC RESTRAINT CALCULATIONS SHALL BE PREPARED, SEALED, AND SUBMITTED BY A QUALIFIED STRUCTURAL ENGINEER ENGAGED BY THE CONTRACTOR AND SUBMITTED FOR REVIEW.
7. SUPPORT ANCHORS SECURED TO THE BOTTOM OF FLOOR SLABS SHALL BE OF THE DROP–IN OR SLEEVE ANCHOR VARIETY.
8. THE CONTRACTOR SHALL PRESSURE TEST ALL PIPING.
9. COORDINATE WITH ARCHITECT FOR FINAL LOCATIONS OF ALL THERMOSTATS AND SEEK ENGINEER APPROVAL PRIOR TO INSTALLATION.
10. ALL DUCTWORK IN APARTMENT FLOORS SHALL BE INSTALLED AT THE MAXIMUM HEIGHT ALLOWABLE UNLESS OTHERWISE STATED.
11. ALL OPEN–ENDED DUCTWORK SHALL HAVE WIRE MESH SCREENS.
12. ALL THERMAL INSULATION SHALL BE EXTERNAL WITH INSULATION VALUES PER SPECIFICATIONS.
13. AIR OUTLETS LOCATED IN HIGH CEILINGS SHALL BE FIELD ADJUSTED FOR OPTIMUM DRAFT AND THROW PERFORMANCE.
14. ALL EXPOSED DUCTWORK SHALL BE INTERNALLY LINED, CLEAN, STICKER FREE AND FREE OF DEFORMITIES AND MARKS.
15. MOUNT ALL SIDEWALL REGISTERS AT THE SAME ELEVATION. COORDINATE WITH ARCHITECT AND ARCHITECTURAL ELEVATIONS FOR FINAL LOCATIONS.
16. AIR PLENUMS SHALL BE 18 GAUGE SHEET METAL.

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HEALTH AND SAFETY INFORMATION

IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING

CONSTRUCTION.

MAINTENANCE/CLEANING/OPERATION.

DECOMMISSIONING/DEMOLITION.

Notes

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS AND SPECIALISTS DRAWINGS AND SPECIFICATIONS
2. DO NOT SCALE THIS DRAWING. FOR DIMENSIONS & ORIENTATION REFER ARCHITECT'S DRAWING.
3. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE INDICATED.

ARCHITECTURE REFERENCE DRAWING

SL	DRAWING NO.	FROM	DATE	REV

STRUCTURAL REFERENCE DRAWING

SL	DRAWING NO.	FROM	DATE	REV
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Key Plan



Rev	Description	Date	Drn.	Ch'd
02	ISSUED FOR CONSTRUCTION	DEC 2015	PS	TA
01	VALID FOR CONSTRUCTION	NOV 2015	PS	TA
00	TENDER	OCT 2015	MP	TA

IFC

Status of drawing

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Drg Title SALES GALLERY
HVAC - GENERAL NOTES & LEGEND

Scales@A3 NTS	Job No. 033629
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