

ROOM'S OCCUPANCY, LIGHTING AND EQUIPMENT SCHEDULE						
Room #	Room Name	People	Office equipment	Qty	Lighting	
	Mechanical Room					
01	Mechanical Room					
02	Classroom	25	projector	1	note 1	
03	Classroom	25	projector	1	note 1	
04	Classroom	25	projector	1	note 1	
05	Classroom	25	personal computer	12	note 1	
06	Classroom	25	projector	1	note 1	
07	Principal	1	personal computer	1	note 1	
08	Office	1	pc, small copier	1	note 1	
09	Cafeteria A	12			note 1	
10	Cafeteria B	30			note 1	
11	Gym	50			note 1	
12	Custodian				note 1	
13	Stage				note 1	
14	Storage				note 1	
15	Boy's change room				note 1	
16	Girl's change room				note 1	
17	Kitchen	1	microwave, coffe maker	1	note 1	
18	Copy room		large copier	1	note 1	
19	Classroom	25			note 1	
20	Classroom	25			note 1	
21	Classroom	25			note 1	
22	Computer		personal computer	4	note 1	
23	Workroom	6	personal computer	6	note 1	
24	Library	30	personal computer	18	note 1	
25	Teacher's lounge	8			note 1	
26	Boy's washroom				note 1	
27	Girl's washroom				note 1	
28	Science room	12	personal computer	6	note 1	

NOTE 1. T-8 fluorescent two bulb recessed lighting fixtures

BUILDING OCCUPANCY HOURS

8:00 to 16:00 from Monday to Friday

ENVELOPE CHARACTERISTICS

Roof: Build-up roofing; 1/2" fiberboard sheathing; 3 1/2" board insulation; 6" lightweight concrete slab

Windows: 1/4" clear double glass in operable frame with thermal break

Building height is 13ft; gym and stage height is 20'; window height is 6ft

Ceiling plenum height is 5ft

SYSTEM DESIGN BRIEF

Space heating: hot water baseboard heating units

Air-conditioning and ventilation of the main school area: a variable air volume system with terminal reheat coils, central heating coil, central direct expansion cooling coil, humidifier, and economizer

Source of heating: a gas-fired hot water non-condensing boiler

Gym heating and ventilation: a rooftop unit with an indirect gas-fired heating section and economizer

Issued for:	No.	Date	By
Revisions to drawing			



The Academy of HVAC
Engineering Ltd.

Project title:
Primary School for
240 students

Checked by: XXX Scale: N.T.S.

Drawn by: XXX Date: XXX

Sheet title:
OCCUPANCY SCHEDULE
HVAC DESIGN BRIEF

DWG. NO.
M-2