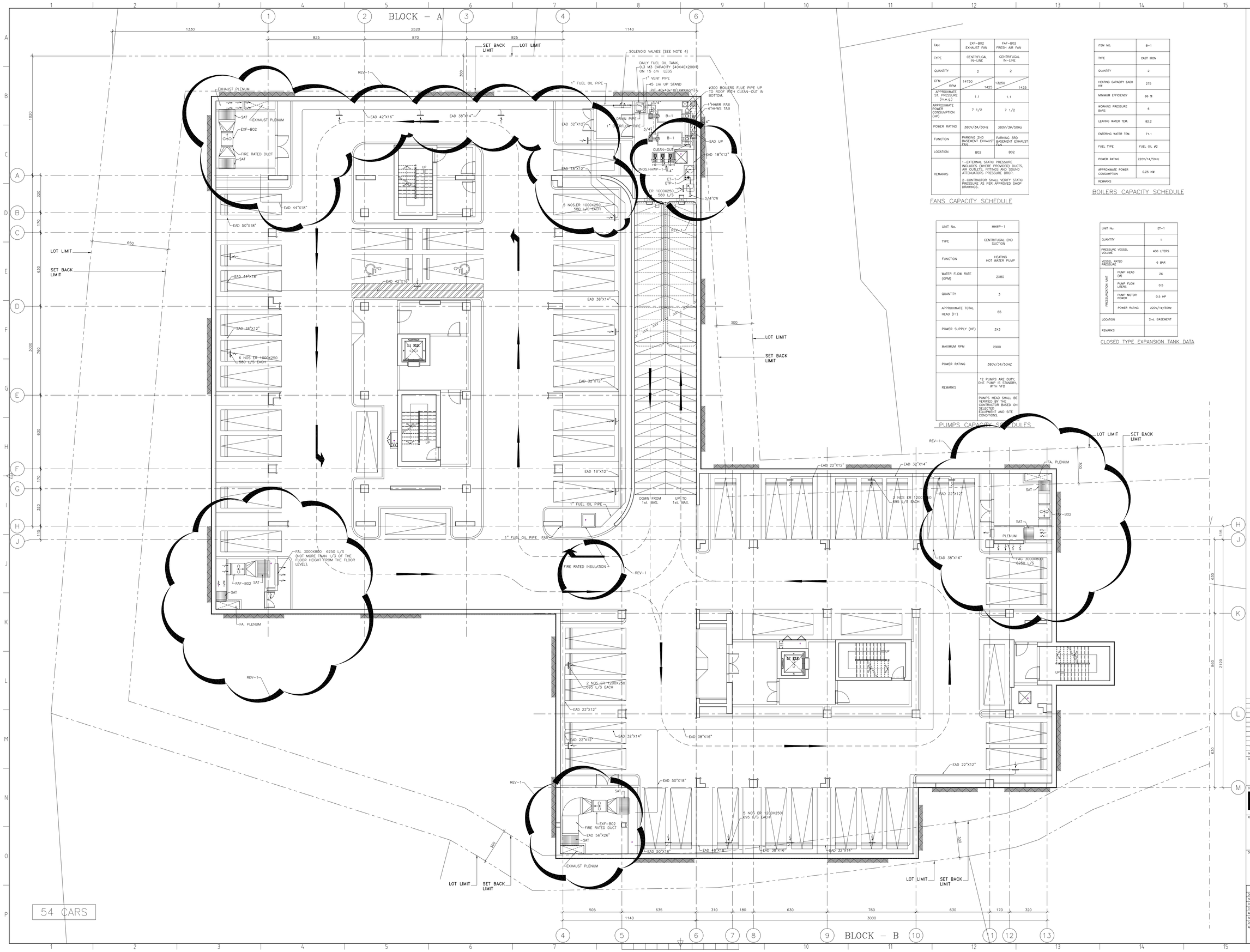

FAN	EXF–B02 EXHAUST FAN	FAF–B02 FRESH AIR FAN
TYPE	CENTRIFUGAL IN–LINE	CENTRIFUGAL IN–LINE
QUANTITY	2	2
CFM / RPM	14750 / 1425	13250 / 1425
APPROXIMATE ST. PRESSURE (in.w.g.)	1.1	1.1
APPROXIMATE POWER CONSUMPTION (HP)	7 1/2	7 1/2
POWER RATING	380V/3ø/50Hz	380V/3ø/50Hz
FUNCTION	PARKING 2ND BASEMENT EXHAUST FAN	PARKING 3RD BASEMENT EXHAUST FAN
LOCATION	B02	B02
REMARKS	1–EXTERNAL STATIC PRESSURE INCLUDES (WHERE PROVIDED) DUCTS, AIR OUTLETS, FITTINGS AND SOUND ATTENUATORS PRESSURE DROP. 2–CONTRACTOR SHALL VERIFY STATIC PRESSURE AS PER APPROVED SHOP DRAWINGS.	

FANS CAPACITY SCHEDULE

ITEM NO.	B–1
TYPE	CAST IRON
QUANTITY	2
HEATING CAPACITY EACH KW	275
MINIMUM EFFICIENCY	86 %
WORKING PRESSURE BARS	6
LEAVING WATER TEM.	82.2
ENTERING WATER TEM.	71.1
FUEL TYPE	FUEL OIL #2
POWER RATING	220V/1ø/50Hz
APPROXIMATE POWER CONSUMPTION	0.25 KW
REMARKS	

BOILERS CAPACITY SCHEDULE

UNIT No.	HWP–1
TYPE	CENTRIFUGAL END SUCTION
FUNCTION	HEATING HOT WATER PUMP
WATER FLOW RATE (GPM)	2X80
QUANTITY	3
APPROXIMATE TOTAL HEAD (FT)	65
POWER SUPPLY (HP)	3X3
MAXIMUM RPM	2900
POWER RATING	380V/3ø/50HZ
REMARKS	*2 PUMPS ARE DUTY, ONE PUMP IS STANDBY, WITH VFD
	PUMPS HEAD SHALL BE VERIFIED BY THE CONTRACTOR BASED ON SELECTED EQUIPMENT AND SITE CONDITIONS.

PUMPS CAPACITY SCHEDULES

UNIT No.		ET–1
QUANTITY		1
PRESSURE VESSEL VOLUME		400 LITERS
VESSEL RATED PRESSURE		6 BAR
PRESSURIZATION UNIT	PUMP HEAD (M)	26
	PUMP FLOW LITERS	0.5
	PUMP MOTOR POWER	0.5 HP
	POWER RATING	220V/1ø/50Hz
LOCATION		2nd. BASEMENT
REMARKS		

CLOSED TYPE EXPANSION TANK DATA

NOTES

N

1–FOR LEGEND, GENERAL NOTES AND LIST OF MECHANICAL DRAWINGS REFER TO DRAWING No. BY1516–GNL–00.

2–FOR RISER DIAGRAM REFER TO DRAWING BY1516–GNL–02.

3–FOR MISCELLANEOUS DETAILS, REFER TO DRAWING No. BY1516–GNL–01.

4_SOLENOID VALVES SHALL BE PROVIDED FOR THE FOLLOWING FUNCTIONS. VALVES SHALL BE FAIL–SAFE IN CLOSED POSITION:

VALVE–1: TO CONTROL FUEL LEVEL INSIDE TANK. AT MINIMUM FUEL LEVEL, VALVE SHALL OPEN; AT HIGH FUEL LEVEL, VALVE SHALL CLOSE ..

VALVE–2: AS SAFEGUARD AGAINST OVERFLOW (NORMALLY OPEN). IN CASE OF FUEL OVERFLOW TO CONTAINMENT, A HYDRO–CARBON SENSOR SHALL CLOSE VALVE.

5–FLUE PIPE DIAMETER SHOULD BE VERIFIED BY THE BOILERS SUPPLIER

No.	REVISION	APP'D	DATE
1	AS CLOUDED(COMMENTS BY SOCOTEC)	Y.K	APR.17

CLIENT

الجمهورية اللبنانية
مجلس الإنماء والإعمار

CONSULTANT

خطيب وعلمي
الاتحاد المهندسين الاستشاريين
Khatib & Alami
consolidated engineering company S.A.L

PROJECT TITLE

CHHIM GOVERNMENTAL OFFICES BUILDING

DRAWING TITLE

2nd. BASEMENT FLOOR PLAN HVAC LAYOUT

	NAME	DRAWING No.
DESIGNED	W.H	H100
DRAWN	W.H	
COORDINATED	H. JARRAH	PROJECT No.
CHECKED	Y.K	BY151600
APPROVED	Y.K	
SCALE	1/100	FILE NAME
DATE	February 2016	BY1516–HVAC–B02–REV–1
APPROVED FOR CONSTRUCTION		SHEET No.

TENDER SUBMISSION