67Ø BCWS TO FLATS

15Ø MWS TO PARKING AND BIN STORE WASH DOWN POINTS

DUTYPOINT EC65 ELECTROMAGNETIC WATER CONDITIONER

42Ø MWS TO COLD WATER STORAGE TANK COMPLETE WITH S.C.

20Ø WARNING PIPE EXTENDED FROM TANK TO OUTSIDE. 50Ø TANK OVER FLOW EXTENDED TO L/L

NEW INCOMING MWS TO CONVERT TO 42Ø COPPER UPON ENTRY INTO PLANT ROOM.COMPLETE WITH S.C., CHECK VALVE METER & D.C.

50Ø PRE-INSULATED HTG F&R FOR POSSIBLE FUTURE DISTRICT HTG SERVICES TO RISE FROM BELOW GROUND TO APPROX 300mm ABOVE FFL AND TERMINATE WITH PN16 BRAZED FLANGE AND BLANK FLANGE. (SEE DETAILS). MAINS TO BE PURGED AND PRESSUIZED USING NITROGEN

54Ø HTG F&R CONNECTIONS TO BUFFER VESSEL 80Ø FLANGED CONNS

DUTYPOINT COMBINED 2250LITRE COLD WATER STORAGE TANK AND COLD WATER BOOSTER SET. BOOSTER SET TO COMPRISE RUN / STANDBY PUMPS - DUTY 3.4L/S @ 3.5BAR

MHG INSULATED 750 LITRE HEATING BUFFER VESSEL

80Ø PRIMARY F&R FROM BOILER HEADERS TO BUFFER VESSEL

150Ø CONCENTRIC BOILER FLUES COMPLETE WITH PLUME EXTENSION KITS

50Ø GAS MAIN FROM NEW METER (BY OTHERS) TO BOILERS COMPLETE WITH G.V. & SOLENOID VALVE

FLUE DETAILS ARE SUBJECT TO "CLEAN AIR ACT" APPROVAL FROM L.A.

50Ø BOSS COMBINED DIRT AND AIR SEPARATOR

54Ø C.T. HTG F&R

67Ø BCWS

15Ø MWS

4 LITRE WALL MOUNTED HTG CHEMICAL DOSING POT

MIKROFILL WALL MOUNTED HTG PRESSURIZATION UNIT

54Ø FLANGED STOOL PIECE TO ENABLE EASY INSTALLATION OF 3-PORT CONTROL VALVE AND TEE RELATING TO A FUTURE DISTRICT HEATING SCHEME

250LITRE HTG EXPANSION VESSEL

15Ø HTG FILL / EXPANSION LINE FROM PRESSURIZATION UNIT / EXPANSION VESSEL TO HTG RET

GRUNDFOS MAGNA3D 32-120F VARIABLE SPEED TWIN HEAD PUMP COMPLETE WITH FLEX CONNS

SECTION - ON "C"-"C"

SECTION - ON "A"-"A"

WARNING TAPE

SELECTED BACKFILL

54Ø PRE-INSULATED MPHW (CU) MAINS COMPLETE WITH INTEGRAL LEAK DETECTION TAPE

SOFT SAND INFILL

500

325

54Ø PN16 FLANGE AND BLANK FLANGE

WATER BARRIER

ALARM WIRE

SELECTED BACKFILL

SOFT SAND INFILL

WATERPROOF CONCRETE

WALL BUSH

DETAILS OF TYPICAL BURIED PRE-INSULATED MPHW HTG MAINS

2 No MHG WALLCON 115 WALL MOUNTED CONDENSING BOILERS EACH RATED AT 105.4Kw COMPLETE WITH CASCADE FLOOR MOUNTING KIT COMPRISING HEATING AND GAS HEADERS AND BOILER PRIMARY PUMPS

4L BOILER EXPANSION VESSEL CONNECTED TO EACH BOILER

150Ø CONCENTRIC BOILER FLUES COMPLETE WITH PLUME EXTENSION KITS . FLUES TO COMPLY WITH BS 6664 AND IGUP10 REGULATIONS. FLUES TO BE MIN 950mm APART AND 300mm FROM CORNER OF BUILDING

50Ø GAS MAIN FROM NEW METER (BY OTHERS) TO BOILERS COMPLETE WITH G.V. & SOLENOID VALVE

GV

SOLENOID FIRE VALVE

G.V.

G.V.

SECTION - ON "B"-"B"

MHG INSULATED 750 LITRE HEATING BUFFER VESSEL

80Ø PRIMARY F&R FROM BOILER HEADERS TO BUFFER VESSEL

6

7

8

Bike Store

SVP

40Ø BOILER CONDENSATE DRAIN COMPLETE WITH PH NEUTRALIZER AND ARRANGED TO DISCHARGE OVER DRAIN

ELECTRO-THERMAL LINK ABOVE EACH BOILER UNIT ARRANGED TO ISOLATE GAS SUPPLY TO BOILERS VIA SOLENOID VALVE IN A FIRE CONDITION

80Ø PRIMARY HTG F&R FROM CASCADE BOILERS TO BUFFER VESSEL

50Ø GAS TO BOILERS

G.V.

SOLENOID FIRE VALVE

G.V.

DUTYPOINT EC65 ELECTROMAGNETIC WATER CONDITIONER

NEW INCOMING GAS MAIN AND METER BY OTHERS

40Ø BOILER CONDENSATE DRAIN COMPLETE WITH PH NEUTRALIZER AND ARRANGED TO DISCHARGE OVER DRAIN

150/100Ø CONCENTRIC FRESH AIR INLET AND BOILER FLUE EXTENDED THROUGH EXTERNAL WALL. FLUE TO BE A MIN OF 300mm FROM CORNER OF WALL

REQUIRED MIN DISTANCE BETWEEN BOILER FLUES CENTRES

450

1100

DUTYPOINT COMBINED 2250LITRE COLD WATER STORAGE TANK AND COLD WATER BOOSTER SET. BOOSTER SET TO COMPRISE RUN / STANDBY PUMPS - DUTY 3.4L/S @ 3.5BAR

4 LITRE WALL MOUNTED HTG CHEMICAL DOSING POT

15Ø MWS AT H/L DROP TO FEED MIKROFILL HTG PRESSURIZATION UNIT

MIKROFILL WALL MOUNTED HTG PRESSURIZATION UNIT

15Ø MWS AT H/L TO PARKING AND BIN STORE WASH DOWN POINTS

54Ø C.T. HTG F&R AT H/L

67Ø BCWS AT H/L

250LITRE HTG EXPANSION VESSEL

ALLOCATED SPACE WITHIN PLANT ROOM FOR FUTURE INSTALLATION OF DISTRICT HTG SCHEME PLATE HEAT EXCHANGER

WALL MOUNTED EMERGENCY KNOCK OFF BUTTON

SPACE FOR ELECTRICAL INTAKE / DISTRIBUTION FOR ELECTRICAL CONTRACTOR

WALL MOUNTED MCCP CONTROL PANEL

TERMINATION BOX 350AFL FOR DIST HTG PIPEWORK INTEGRAL LEAK DETECTION WIRING

50Ø PRE-INSULATED HTG F&R FOR POSSIBLE FUTURE DISTRICT HTG SERVICES TO RISE FROM BELOW GROUND TO APPROX 300MM ABOVE FFL AND TERMINATE WITH PN16 BRAZED FLANGE AND BLANK FLANGE. (SEE DETAILS). MAINS TO BE PURGED AND PRESSUIZED USING NITROGEN

NEW INCOMING MWS TO CONVERT TO 42Ø COPPER UPON ENTRY INTO PLANT ROOM.COMPLETE WITH S.C., CHECK VALVE METER & D.C.

20Ø COLD WATER TANK WARNING PIPE EXTENDED THROUGH EXTERNAL WALL

Residential Car Parking

50Ø PRE-INSLATED HTG F&R TO TERMINATE WITH PN16 BRAZED FLANGE AND BLANK FLANGE WITHIN EXTERNAL ACCESS PIT. EXACT LOCATION OF PIT TO BE AGREED ON SITE

FULLY SEALED WEATHER PROOF UPVC OR GLASS FIBRE TERMINATION BOX BELOW GROUND FOR LEAK DETECTION WIRING

GENERAL NOTES

1. Do not scale dimensions from this drawing.
2. All contractors and sub-contractors must verify sizes and conditions on site before work commences.
3. Copyright- This drawing is copyright to **G.B Concepts (Int) Ltd** and may not be reproduced in any form whatsoever without prior express written consent.

PARTICULAR NOTES

1. All Heating, Mains, Cold & Hot water services are to be thermally insulated as described within the project specification.
2. All HWS pipework is to be electrically trace heated
3. All piped services passing through fire compartment walls are to be installed complete with fire collars providing 1 hour fire resistance.
4. All piped services are to be fully co-ordinated with ventilation services

Rev.	Description	Date	Chk'd
T2	TENDER ISSUE FLUE LOCATIONS CLARIFIED	OCT 2017	RDJ
T1	TENDER ISSUE	SEP 2017	RDJ
T	TENDER ISSUE	SEP 2017	RDJ

Client
BEAUFORT DEVELOPMENTS SOUTHERN Ltd

Services Consultant
G.B. CONCEPTS (INT) LTD
Building Services for the Future

Job
63-67 BRIGHTON ROAD SHOREHAM BY SEA

Drawing
GROUND FLOOR BOILER PLANT ROOM AND SECTIONS

Scales	Date	Drawn	Checked
1/25@A1	SEP 17	RDJ	RDJ

Number: GBC/1564/MECH/M/302
Revision: T2