

100Ø BOILER FLUE VENTS TO OUTSIDE.

22Ø H&CWS RISES TO ABOVE.

15Ø HTG (F&R) DROPS FROM H/L TO RUN AT L/L.

15Ø HTG (F&R) RISES TO SERVE RADIATOR ABOVE.

FINAL BOILER AND BOILER FLUE LOCATIONS TBC.

22Ø HTG (F&R) RISES UP TO RUN IN CEILING VOID.

150Ø FLUE FROM BURNER RISES TO H/L TO VENT WITH TOP & BOTTOM CAPPINGS

15Ø HTG (F&R) DROPS FROM H/L TO RUN AT L/L.

15Ø HTG (F&R) RISES TO SERVE RADIATOR ABOVE.

15Ø HTG (F&R) DROPS FROM H/L TO RUN AT L/L.

PIPEWORK LEGEND

- COLD WATER TAP CONNECTION
- HOT WATER TAP CONNECTION
- ⋈ SERVICE VALVE
- HOSE CONNECTION FOR KITCHEN APPLIANCE
- ⋈ DOUBLE CHECK VALVE
- DT T DRAIN TAP

BELOW GROUND HTG/DHW/CWS

LOW LEVEL HTG/DHW/CWS PIPES

HIGH LEVEL HTG/DHW/CWS PIPES

ABOVE CEILING HTG/DHW/CWS PIPES

LPG PIPE

RAD REF:	RAD TYPE:	LENGTH (mm)	HEIGHT (mm)	OUTPUT (watts)
(A)	COMPACT K1	600	600	588
(B)	COMPACT K1	500	450	378
(C)	CLASSIC TOWEL	500	1211	539

NOTE: ALL RADIATORS TO BE TBOE TOP & BOTTOM OPPOSITE END CONNECTION TYPE RADIATORS - BUT INSTALLED AS BBOE WITH TRV'S AT L/L.

COMBINATION BOILER NOTE:

WORCHESTER BOSH GREENSTAR 30i COMPACT ROOM SEALED COMBINATION BOILER FOR HEATING AND DOMESTIC HOT WATER. BOILER TO BE COMPLETE WITH ALL NECESSARY COMPONENTS TO MAKE A WORKING SYSTEM INVLUING PROGRAMMER AND WIRELESS THERMOSTAT WITH WEATER COMPENSATOR.

CONNECTIONS:

- 22Ø HTG FLOW & RETURN
- 22Ø COLD WATER SUPPLY
- 15Ø HOT WATER FLOW
- 22Ø (PLASTIC) CONDENSATE TO BE TAKEN TO WASTE. A SUITABLE TRAP SHALL BE INCORPORATED INTO THE CONDENSATE DRAIN, AND AN AIR GAP IN THE DISCHARGE PIPE UPSTREAM.
- 15Ø PRESSURE RELIEF PIPEWORK (COPPER) TO BE TAKEN TO TUNDISH WITH CONNECTION TO SINK WASTE VIA SELF SEALING VALVE.

CW SERVICE IN FOR BORE HOLE.

LPG CONNECTION TO ECV.

HOSE UNION TAP WITH DCV.

15Ø CWS & HWS RISES TO RUN AT H/L.

15Ø CWS & HWS RUNNING AT H/L TO BE BOXED IN OVER CORRIDOR.

15Ø CWS & HWS DROPS TO RUN AT L/L

ELECTRIC TUBULAR HEATER.

RECIRCULATING KITCHEN HOOD.

15Ø HTG (F&R) RISES TO SERVE RADIATOR ABOVE.

WALL MOUNTED EXTRACT FAN DUCTED TO EXTERNAL LOUVRE. SEE NOTE.

15Ø CWS & HWS DROPS FROM ABOVE TO L/L.
15Ø HTG (F&R) DROPS FROM H/L TO RUN AT L/L.

15Ø HTG (F&R) RISES TO SERVE RADIATOR ABOVE.

RESPONSIBILITY IS NOT ACCEPTED FOR OTHERS SCALING DIRECTLY FROM THIS DRAWING. DO NOT SCALE FROM THIS DRAWING, USE WRITTEN DIMENSIONS ONLY.

0m 0.25 0.5 0.75 1.5m
1:50
ORIGINAL SHEET SIZE **A3**

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1. WHERE PIPES RUN HORIZONTALLY WITH ONE PIPE ABOVE THE OTHER, THE HOT WATER PIPE SHALL ALWAYS BE ON TOP, THE COLD WATER MAINS SHALL ALWAYS BE BELOW THE OTHER PIPES.

2. ALL PIPEWORK PENETRATIONS THROUGH WALLS TO BE SLEEVED WITH A LARGER SIZE PIPE.

3. WASHING MACHINE AND DISHWASHER VALVES (BLUE & RED HANDLES) AND HOSE CONNECTIONS TO BE PROVIDED.

4. ALL HEATING & HOT AND COLD WATER PIPES WITHIN THE CEILING VOIDS AND CUPBOARDS AND WHERE RUNNING BEHIND KITCHEN UNITS TO BE THERMALLY INSULATED.

5. ALL PIPEWORK LOW POINTS ON THE HEATING SYSTEM TO BE PROVIDED WITH DRAIN VALVES.

6. ALL PIPEWORK HIGH POINTS ON THE HEATING SYSTEM TO BE PROVIDED WITH AIR VENTS.

7. TMV2 CERTIFIED THERMOSTATIC BLENDER VALVE TO BE FITTED TO BATH.

8. EXTRACT FANS: (UTILITY & BATHROOM)
NUAIRE - NA150T
DUTY - 26/s @ 50pa
SIZE - 200x200x119
FAN SPEED - 2800RPM
SUPPLY - 1 PHASE

9. KITCHEN HOOD EXTRACT TO BE RECIRCULATING & CHOSEN BY KITCHEN SPECIALIST.

10. LAYOUT, LOCATIONS, ROUTE AND SELECTIONS HAVE BEEN PRODUCED AS PROPOSED. THE CONTRACTOR IS RESPONSIBLE FOR FINAL SELECTIONS AND ROUTES.

FOR INFORMATION

P0	KG	17/11/17	TK	17/11/17		
REV	ISSUED	DATE	CHECKED	DATE	APPROVED	DATE

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CLIENT
Forestry Commission East England Forest District Santon Downham, Brandon, Suffolk

PROJECT
Refurbishment of Warren Cottage
Lynford, Thetford, IP15 5ET

TITLE
Mechanical Services

Proposed Ground Floor

Mechanical Services

SCALES 1:50 DISCIPLINE MECH ENG PROJECT NUMBER 18-3-6022

DRAWING NUMBER HBS- DR-M-(50)-001 REV CODE P0

STATUS CODE S2 PURPOSE OF ISSUE INFORMATION DRAWN BY KG