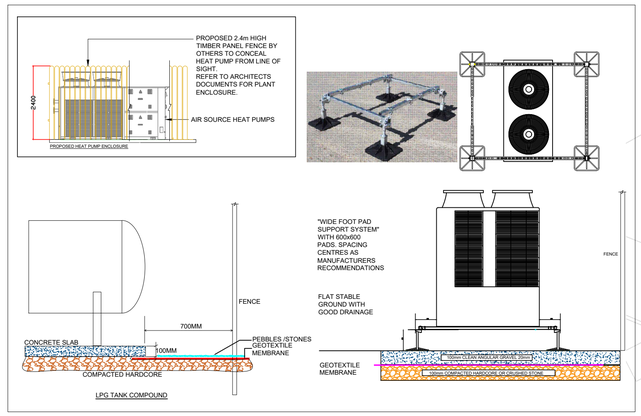
THIS DRAWING IS FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRODUCING WORKING DRAWINGS



GRAVEL BED PREPARATION FOR HEAT PUMP INSTALLATION (WIDE FOOT SYSTEM)

THE FOLLOWING PROVIDES GUIDANCE ON THE PREPARATION OF A GRAVEL BASE FOR THE HEAT PUMP INSTALLATION USING A BIG FOOT - STYLE MOUNTING FRAME. THE SETUP SUPPORTS THE UNIT WITHOUT USING HIGH CARBON CONCRETE WHILE NATURALLY DRAINING CONDENSATE INTO THE GROUND.

1. CHOOSE A SUITABLE LOCATION

- FLAT, STABLE GROUND WITH GOOD DRAINAGE
- AVOID SHADED, WATERLOGGED, OR WINDY FUNNEL AREAS
- MAINTAIN MANUFACTURER-RECOMMENDED CLEARANCES

2. MARK OUT THE AREA

- MAKE THE GRAVEL BED LARGER THAN THE UNIT AND MOUNTING FRAME
- RECOMMENDED MINIMUM: 1.5 M X 1 M FOR SMALL HEAT PUMPS

3. EXCAVATE THE BASE

- DIG DOWN 150-200 MM
- REMOVE ALL TURF, SOFT SOIL, AND ORGANIC MATERIAL TO CREATE A FIRM FOUNDATION

4. LAY A SUB-BASE (OPTIONAL BUT RECOMMENDED)

- ADD 50-100 MM OF COMPACTED MOT TYPE 1 HARDCORE OR CRUSHED STONE
- COMPACT THOROUGHLY USING A VIBRATING PLATE OR HAND TAMPER

5. INSTALL A GEOTEXTILE MEMBRANE

- LAY A WEED-SUPPRESSING GEOTEXTILE MEMBRANE OVER THE SUB-BASE
- PREVENTS GRAVEL MIGRATION AND WEED GROWTH

6. ADD THE GRAVEL

- USE 20 MM CLEAN ANGULAR GRAVEL (E.G., LIMESTONE OR GRANITE)
- DEPTH: 100-150 MM
- RAKE LEVEL AND LIGHTLY COMPACT FOR STABILITY

7. INSTALL THE BIG FOOT MOUNTING FRAME

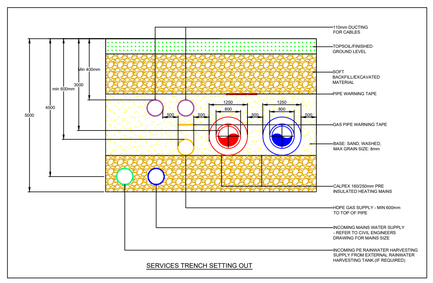
- PLACE THE FRAME DIRECTLY ON GRAVEL
- ADJUST FEET TO ENSURE LEVEL AND STABLE SUPPORT
- ENSURE CONTACT POINTS ARE SECURE, NOT TIPPING

8. SET THE HEAT PUMP ON THE FRAME

- MOUNT THE HEAT PUMP AS PER MANUFACTURER INSTRUCTIONS
- CHECK FOR LEVELNESS
- CONFIRM NO SINKING OR INSTABILITY

MAINTENANCE TIPS

- INSPECT THE GRAVEL BED AND FRAME SEASONALLY
- RE-LEVEL OR TOP UP GRAVEL IF NECESSARY
- CLEAR DEBRIS AND VEGETATION AROUND THE UNIT



REMOVE AND MAKE GOOD 2NR OLD BOILER PLINTH APPROXIMATELY 2.5X1.5X0.15m MAKING GOOD FLOOR FINISH WITH CONCRETE SCREED AND LATEX AS NECESSARY

PROVIDE BUILDER'S WORK OPENING FOR BUILDING SERVICES AS FOLLOWS:
HEATING FLOW AND RETURN PIPEWORK AND ELECTRICAL DUCTWORK TO ENTER THE BASEMENT PLANT ROOM AT HIGH LEVEL, PRIOR TO ROUTING AND DROPPING VERTICALLY WITHIN THE PLANT ROOM TO SUIT FINAL EQUIPMENT CONNECTIONS.

BUILDER'S WORK OPENING TO BE FORMED IN THE EXTERNAL WALL AT HIGH LEVEL, SIZED TO ACCOMMODATE ALL SERVICES INCLUDING INSULATION ETC.

INDICATIVE CLEAR OPENING SIZE: 800 MM (W) × 200 MM (H)
FINAL SIZE, LOCATION AND SERVICE ARRANGEMENT TO BE COORDINATED WITH THE M&E CONTRACTOR PRIOR TO CONSTRUCTION.

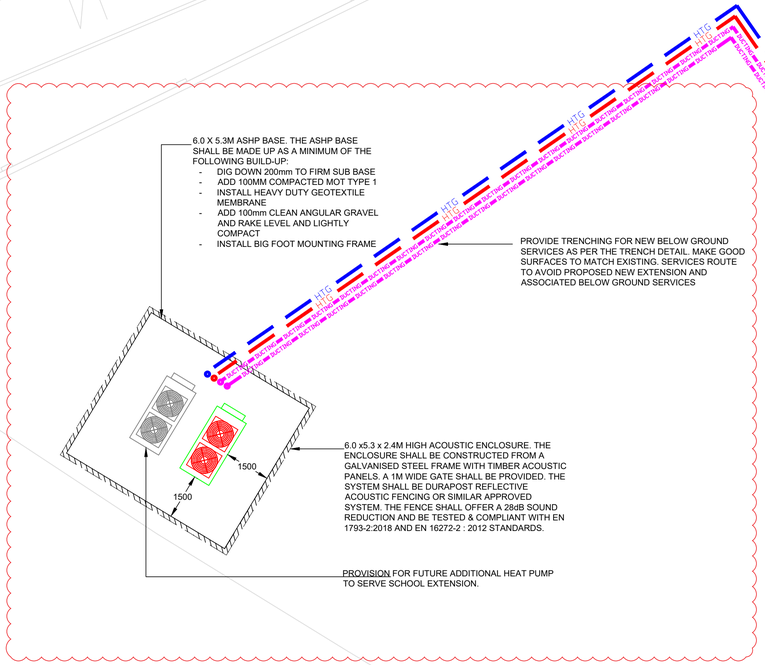
OPENING TO BE SLEEVED, SEALED AND MADE GOOD TO SUIT THE BUILDING FABRIC.

ALLOW FOR WEATHERPROOFING AND STRUCTURAL REQUIREMENTS AS NECESSARY.

EXISTING NATURAL GAS SUPPLY AND METER IS LOCATED ON EXTERNAL WALL. GAS LINE ENTERS THE PLANT ROOM AT HIGH LEVEL AND WILL REMAIN IN PLACE SUPPLYING NEW BOILERS.

PLANTROOM IS LOCATED AT BASEMENT LEVEL

PLANT ROOM



REV	DESCRIPTION	DRN	CKD	DATE
T02	BOILER & ASHP SIZE & QUANTITIES UPDATED	SK	SF	11-06-2026
T01	TENDER ISSUE	SK	SF	08-05-2026

ISSUE: TENDER STAGE

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PROJECT TITLE
SCHOOLS ENERGY PATHFINDER - 8.2 OUR LADY OF MERCY NS

DRAWING TITLE
BUILDERS WORKS

DRAWING REFERENCE	DRN	SCALE
3232-SMK-8.2-SI-DR-M-5901 (Project · Originator · Volume · Level · Type · Role · Number)	KC	A1 1:100