



- HEATING SUPPLY REFERENCE KEY**
- HOSPITAL BUILDING SERVED BY HEAT PUMP SYSTEM
  - RESIDENTIAL BUILDINGS SERVED BY CENTRALISED HEAT PUMP SYSTEM
  - HISTORIC BUILDINGS SERVED BY INDIVIDUAL HEATING SYSTEMS

- ELECTRICAL SITE SERVICES REFERENCE KEY**
- 2 No. Ø125mm HIGH IMPACT PVC DUCTS FOR ESB 2010KV NETWORK
  - 1 No. Ø125mm HIGH IMPACT PVC DUCTS FOR ESB LV CABLING
  - Ø100mm HIGH IMPACT PVC DUCTS FOR FIRE ALARM CABLING
  - Ø107mm HIGH IMPACT PVC DUCTS FOR PUBLIC LIGHTING CABLING
  - Ø100mm HIGH IMPACT PVC DUCTS FOR SITE EV CHARGER POWER CABLING
  - Ø100mm HIGH IMPACT PVC DUCTS FOR VIRGIN MEDIA CABLING
  - 2 No. Ø110mm PVC TWIN WALL DUCTS FOR VIRGIN MEDIA CABLING
  - 2 No. Ø110mm PVC TWIN WALL DUCTS FOR EIR CABLING

- MECHANICAL SITE SERVICES REFERENCE KEY**
- BOOSTED POTABLE DOMESTIC COLD WATER SUPPLY (BCWS) TO SERVE COMPLEX
  - BOOSTED NON-POTABLE DOMESTIC COLD WATER SUPPLY (BCWS) TO SERVE BIN AND BIKE STORES
  - SPRINKLER PIPEWORK
  - AIR SOURCE HEAT PUMP PIPEWORK
  - HEATING PIPEWORK FLOW (HTG-F)
  - HEATING PIPEWORK RETURN (HTG-R)
  - NATURAL GAS PIPEWORK (EXISTING)
  - NATURAL GAS PIPEWORK

- SITE SERVICES INSTALLATION NOTES**
- 1.00 THIS DRAWING IS REPRESENTATIVE OF PROPOSED NEW SITE SERVICES ONLY.
  - 2.00 THIS DRAWING DOES NOT INDICATE EXISTING SERVICES WHICH MAY BE PRESENT.
  - 3.00 THE CONTRACTOR SHALL ENSURE BEFORE COMMENCEMENT OF WORKS THAT HE IS SATISFIED AS TO THE LOCATION OF ALL EXISTING SERVICES TO ENSURE NO DAMAGE CAN OCCUR.
  - 4.00 THE CONTRACTOR SHALL BE HIGH IMPACT RESISTANT THIN WALL PVC DUCTS DO NOT COMPLY. DUCTS MUST NOT HAVE BREAKS OR GAPS.
  - 5.00 DUE CARE & ATTENTION IS TO BE TAKEN WHEN DIGGING IN THE VICINITY OF TREES. HAND DIGGING IS REQUIRED AS NOT TO DAMAGE TREE ROOTS.
  - 6.00 ALL INCOMING SERVICES SHALL BE INSTALLED BACK FILLED IN ACCORDANCE WITH STATUTORY BODY'S UTILITY COMPANY GUIDELINES IN TERMS OF DEPTH, SEGREGATION etc.
  - 7.00 THE MAIN CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL SITE SERVICES WITH STRUCTURAL FOUNDATION REQUIREMENTS SITE CONDITIONS etc.
  - 8.00 THE MAIN CONTRACTOR SHALL ENSURE THAT THE IN-GROUND DUCTS ARE CONTINUOUS ALONG THE ENTIRE LENGTH THE INTERNAL CAPACITY IS FREE FROM CONSTRUCTIONS etc.
  - 9.00 THE MAIN CONTRACTOR SHALL DEMONSTRATE THE INTEGRITY OF ALL IN-GROUND DUCTS WITH BRUSH TESTING FULL CCTV INSPECTION SURVEY OF ALL INSTALLED SERVICES.
  - 10.00 ALL IN-GROUND DUCT POP-UPS SHALL BE SECURELY CAPPED OFF DURING & AFTER CONSTRUCTION.
  - 11.00 THE MAIN CONTRACTOR SHALL INSTALL ALL DUCTS SO AS TO ENSURE THE REQUIRED MINIMUM CLEARANCE OF 300mm FROM ALL OTHER SERVICES IS MAINTAINED.
  - 12.00 EXTERNAL FOULWATER, STORMWATER & WATER SERVICES TO PUBLIC BY CIVIL ENGINEER
  - 13.00 MECHANICAL CONTRACTOR SHALL SUPPLY & INSTALL NON POTABLE WATER SUPPLY UP TO IRRIGATION WATER POINT. LANDSCAPE CONTRACTOR TO CONTINUE WITH INSTALLATION AFTER WATER POINT.
  - 14.00 ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE CAPACITY OF THE DUCT NETWORK & ADVISING THE MAIN CONTRACTOR ACCORDINGLY.
  - 15.00 ALL ESB DUCTS TO BE ONLY ESB APPROVED HIGH IMPACT RED ELECTRIC CABLE DUCTS & ARE TO BE A STRONG CONTINUOUS 10mm POLYPROPYLENE DRAW ROPE FREE OF KNOTS & SECURELY ANCHORED AT EACH END OF DUCT.
  - 16.00 THE MAIN CONTRACTOR SHALL INSTALL A CABLE WARNING TAPE 300mm BELOW GROUND LEVEL ALONG THE FULL LENGTH OF ALL ELECTRICAL ESB DUCTS.
  - 17.00 ALL MANHOLE COVERS TO BE HEAVY DUTY & SUITABLE FOR IN-FILL WITH SURFACE TREATMENT TO LANDSCAPE ARCHITECTS DETAIL.