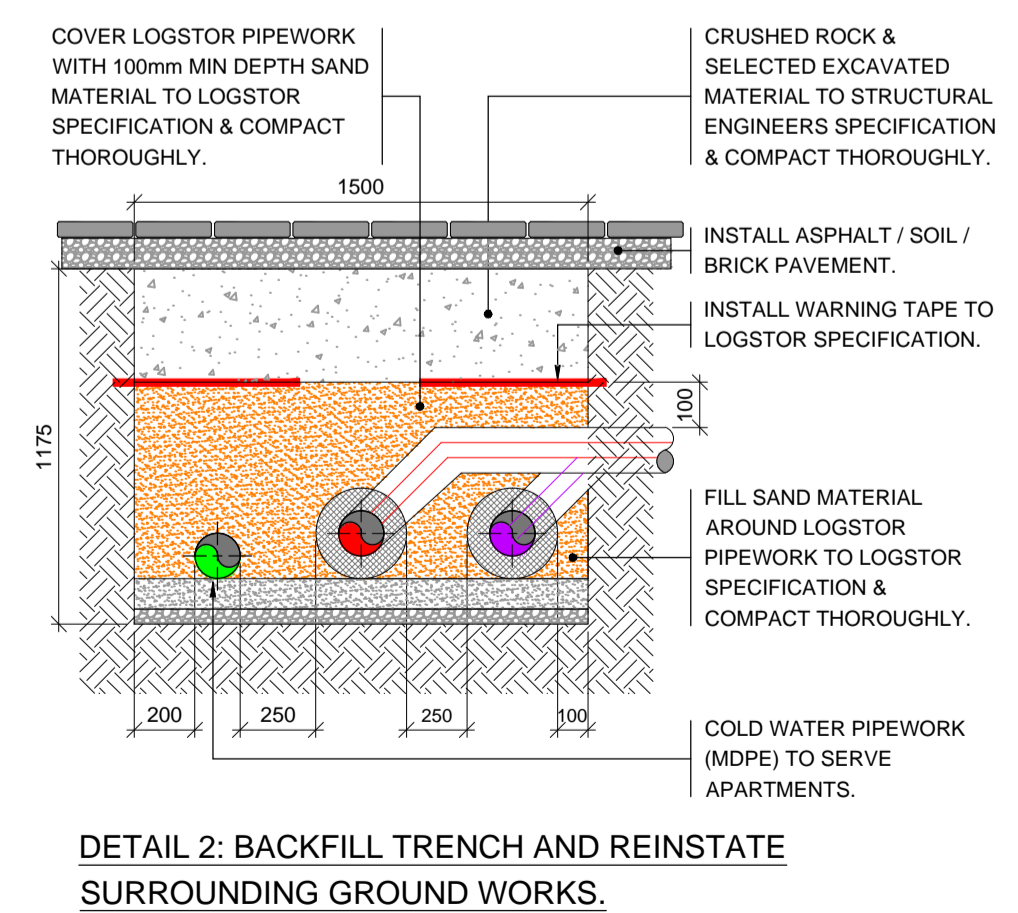
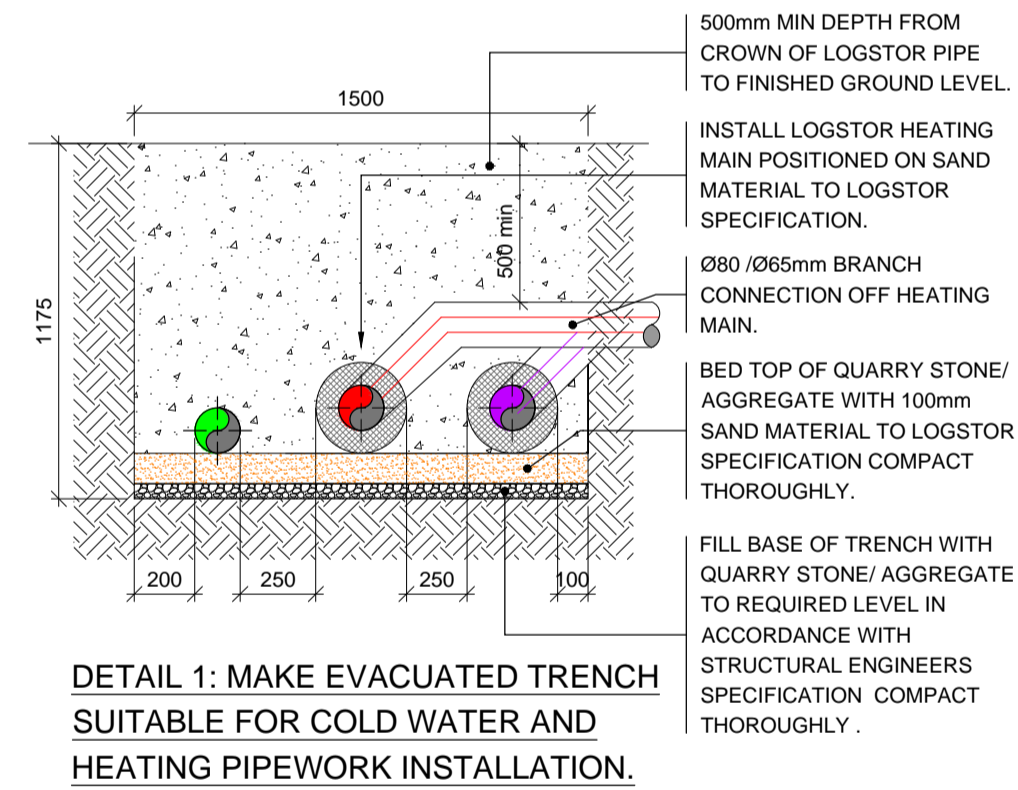
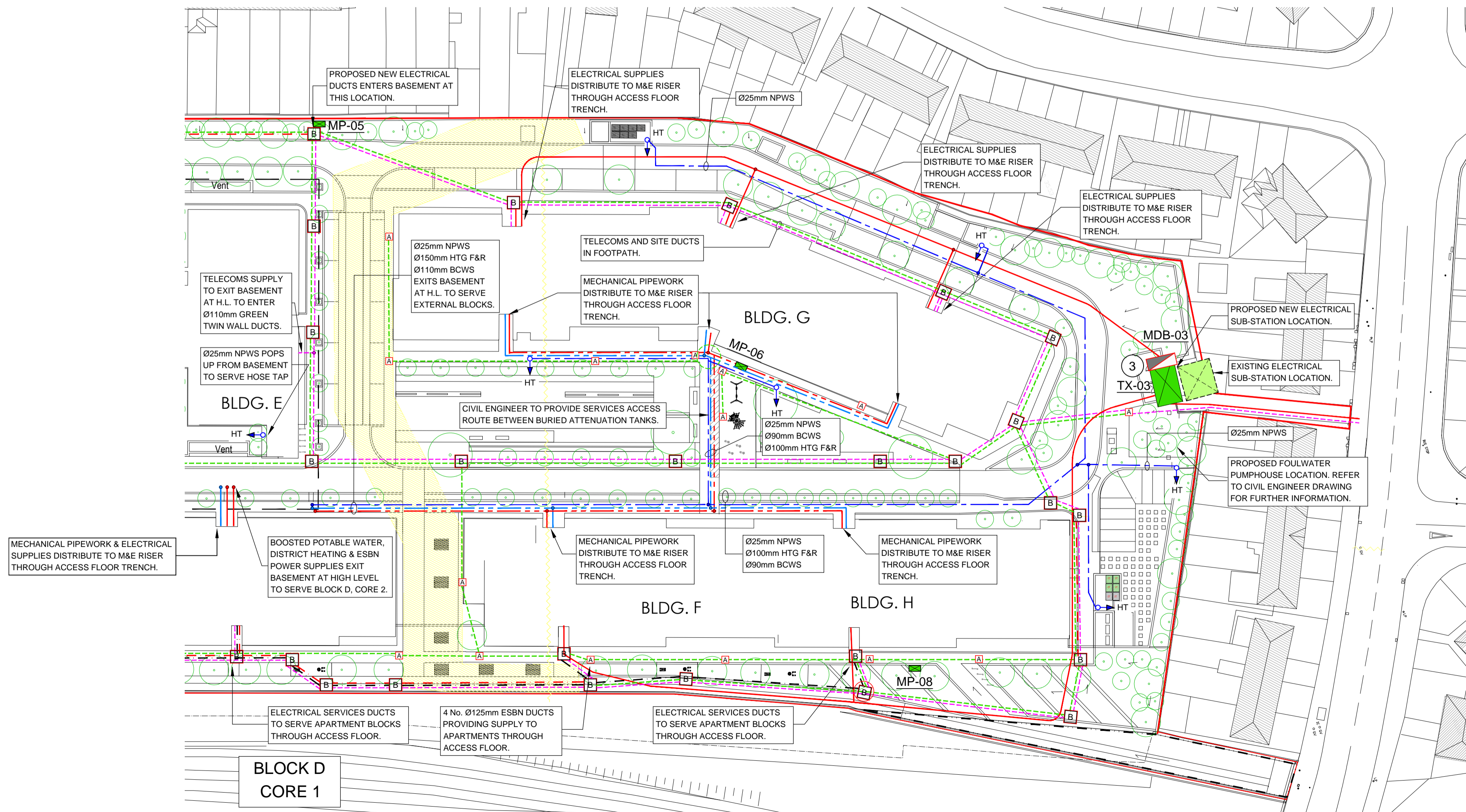
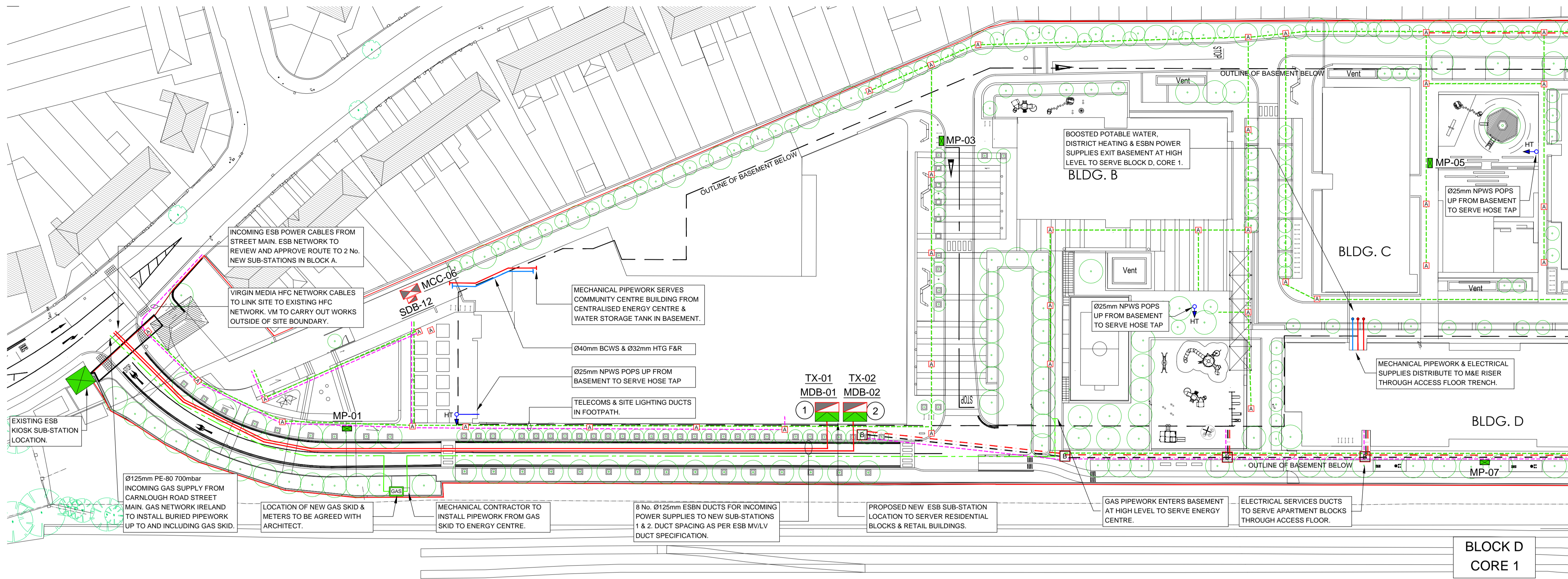


**SITE SERVICES NOTES**

- 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 PVC DUCTS SHALL BE HIGH IMPACT RESISTANT. THIN WALL PVC DUCTS DO NOT COMPLY. DUCTS MUST NOT HAVE BREAKS OR GAPS.
- 5.00 DUE CARE AND 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 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 POSITIONS OF DRAINAGE ARE INDICATIVE ONLY. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL CIVIL ENGINEERS DRAWINGS SPECIFICATIONS. REFER TO ROUGHAN & O'DONOVAN DRAWINGS SPECIFICATIONS.
- 12.00 ALL ESB DUCTS TO BE ONLY ESB APPROVED RED ELECTRIC CABLE DUCTS AND ARE TO BE C/W A STRONG CONTINUOUS 10mm POLYPROPYLENE DRAW ROPE FREE OF KNOTS AND SECURELY ANCHORED AT EACH END OF DUCT.
- 13.00 THE MAIN CONTRACTOR SHALL INSTALL ALL DUCTS SO AS TO ENSURE THE REQUIRED MINIMUM CLEARANCE OF 300mm FROM ALL OTHER SERVICES IS MAINTAINED.
- 14.00 THE MAIN CONTRACTOR SHALL INSTALL A CABLE WARNING TAPE 300mm BELOW GROUND LEVEL ALONG THE FULL LENGTH OF ALL ELECTRICAL ESB DUCTS.
- 15.00 ALL MANHOLE COVERS TO BE HEAVY DUTY & SUITABLE FOR IN-FILL WITH SURFACE TREATMENT TO LANDSCAPE ARCHITECTS DETAIL.
- 16.00 ALL ESB & DCC DUCTS TO BE HIGH IMPACT TYPE.
- 17.00 EXTERNAL FOULWATER, STORMWATER & WATER SERVICES TO PUBLIC BY OSC.

**SITE SERVICES REFERENCE KEY**

- WAYLEAVE AREA
- A TYPE 'A' MANHOLE 600(L) x 600(W) x 600mm(D)
- B TYPE 'B' MANHOLE 1000(L) x 1000(W) x 1000mm(D)
- 4 No. Ø125 HIGH IMPACT ESB DUCT FOR INCOMING POWER CABLING
- - - 2 No. Ø150 DUCT FOR SITE LIGHTING
- - - Ø150 HIGH IMPACT DUCTS FOR LV POWER SUPPLY
- - - 2 No. Ø150 HIGH IMPACT DUCTS FOR SECONDARY POWER SUPPLY TO FIRE FIGHTING LIFTS
- - - 2 No. Ø110 DUCTS FOR SITE TELECOMS & VIRGIN MEDIA CABLING
- GAS SUPPLY TO SERVE COMPLEX
- DISTRICT HEATING LPHW SUPPLY PIPEWORK TO SERVE APARTMENT BLOCKS
- BOOSTED POTABLE DOMESTIC COLD WATER SUPPLY (BCWS) TO SERVE COMPLEX
- BOOSTED NON-POTABLE COLD WATER SUPPLY (NPWS) TO SERVE HOSE TAPS
- X7 POLE MOUNTED LUMINAIRE TO MATCH EXISTING
- CONCRETE LIGHTING COLUMN BASE
- HOSE TAP c/w LOCKSHIELD ISOLATION VALVES



STATUS	DATE	DESCRIPTION	DRN	ENG	APP	REV
S2	07.10.2019	GENERAL REVISIONS	JL	MY	JR	P03
S2	23.09.2019	GENERAL REVISIONS	JL	MY	JR	P02
S2	17.09.2019	IRISH WATER CHANGES	JL	SOB	JR	P01

**IN2 ENGINEERING DESIGN PARTNERSHIP**  
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CLIENT	SEVEN CABRA REAL ESTATE LTD	ARCHITECT	PLUS ARCHITECTURE
PROJECT	HAMILTON GARDENS	PROJECT REF:	D1723
DRAWING TITLE:	MECHANICAL & ELECTRICAL SERVICES INSTALLATION SITE PLAN PROPOSED SITE SERVICES LAYOUT	STATUS	S2
SCALE	1:500	SIZE	A1
DRAWING No.	D1723-IN2-ZZ-00-DR-ME-0101	REVISION	P03