

FIRST FLOOR PLAN

**DOMESTIC HOT AND COLD WATER, WASTE PIPEWORK**

- 38MM MIN WASTE PIPE WITH TRAP @ EACH APPLIANCE OR SANITARYWARE
- HOT WATER SUPPLY PIPE WITH ISOLATION VALVE @ EACH APPLIANCE
- COLD WATER SUPPLY PIPE WITH ISOLATION VALVE @ EACH APPLIANCE
- FLOOR OUTLET TO SHOWER

**HEATING SYSTEM**

- GROUND SOURCE HEAT PUMP INTERNAL UNIT
- ELECTRIC HOT WATER CYLINDER
- HOT WATER RADIATOR
- HOT WATER + ELEC TOWEL RAIL
- LOW TEMPERATURE UNDERFLOOR HEATING - THIS ROOM / SPACE
- UF HEATING MANIFOLD
- ELECTRIC UNDERFLOOR HEATING MAT OR CABLES - THIS ROOM / SPACE
- FLOW AND RETURN PIPEWORK FROM GSHP TO BORE HOLE OR EQUIVALENT
- HEATING SUPPLY PIPEWORK
- HEATING RETURN PIPEWORK

**SURFACE WATER, RAINWATER, AND FOUL DRAINAGE**

- RAIN WATER DOWNPIPE
- SOIL AND VENT PIPE
- RAINWATER GULLY
- RAINWATER DRAINAGE CHANNEL
- MANHOLE
- INSPECTION CHAMBER
- UNDERGROUND DRAIN PIPE
- INTERNAL FOUL DRAIN
- AIR ADMITTANCE VALVE
- SVP VENT PIPE WITH CAP

**MECHANICAL-VENTILATION**

- MECHANICAL VENT. UNIT WITH HEAT RECOVERY (MVHR)
- MVHR ROOM SUPPLY VENT
- MVHR ROOM EXTRACT VENT
- MVHR DUCTWORK ROUTE
- KITCHEN EXTRACT
- BATHROOM EXTRACT

**BURIED AND INCOMING SERVICES**

**INCOMING SERVICES:**

- WATER
- ELECTRICITY
- GAS
- ELECTRICAL SUPPLIES TO GATES, POWER SOCKETS, CAR CHARGER
- CABLE TO ENTRYPHONE SYSTEM

**ALL BURIED SERVICES TO BE RUN IN SUITABLE CONDUIT AT APPROPRIATE DEPTHS**

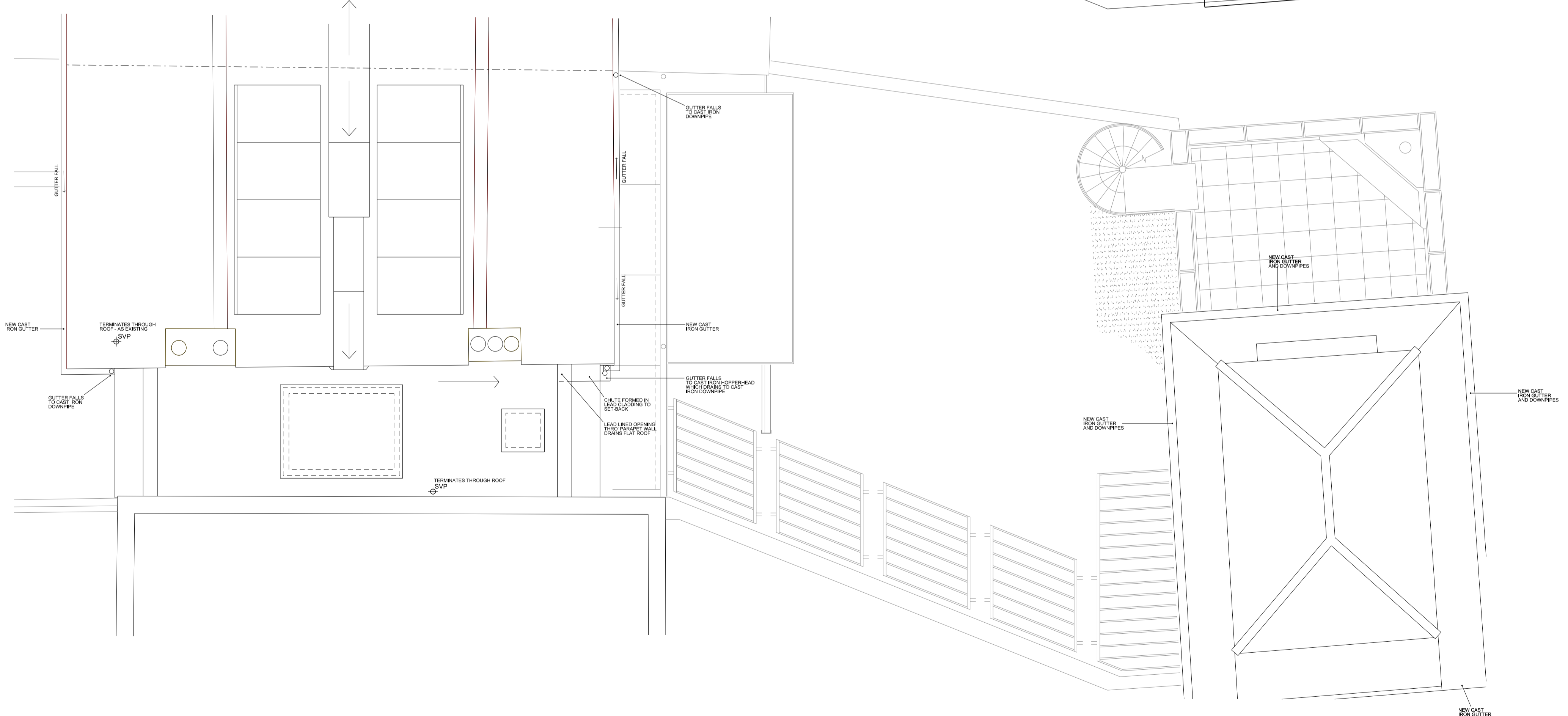
- BURIED PIPEWORK ASSOCIATED WITH GSHP INSTALLATION
- AIR GROUND VENTILATION DUCT

THIS PLAN IS INDICATIVE ONLY AND INDICATES THE CLIENTS DESIGN INTENT

ALL MECHANICAL SERVICES ARE TO BE DESIGNED BY THE CONTRACTOR AND HIS APPROPRIATELY QUALIFIED AND EXPERIENCED SPECIALIST SUBCONTRACTORS TO MEET THE REQUIREMENTS ILLUSTRATED IN THIS DRAWING. ALL DEVIATIONS FROM THE ILLUSTRATED REQUIREMENTS ARE TO BE AGREED WITH THE CLIENT AND ARCHITECT BEFORE PROCEEDING WITH THE WORKS.

ALL WORKS ARE TO BE CARRIED OUT IN FULL COMPLIANCE WITH ALL RELEVANT PARTS OF THE BUILDING REGULATIONS AND ALL OTHER APPLICABLE LEGISLATION AND ACCEPTED GOOD PRACTICE, AS WELL AS IN COMPLIANCE WITH THE REQUIREMENTS OF THE ARCHITECTS SPECIFICATION AND SCHEDULE OF WORKS.

ALL INSTALLATIONS SHALL BE INSTALLED, TESTED, COMMISSIONED AND CERTIFIED BY GASSAFE AND NICEIC REGISTERED PLUMBERS AND ELECTRICIANS, INCLUDING CERTIFICATION OF PRESSURIZED STORAGE CYLINDERS.



ROOF PLAN

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**NOTES:**

- DO NOT SCALE
- ALL DIMENSIONS ARE IN METERS OR MILLIMETERS UNLESS NOTED OTHERWISE
- ALL DISCREPANCIES TO BE NOTIFIED TO THE ARCHITECT IMMEDIATELY
- ALL CONSTRUCTION WORK TO COMPLY WITH LOCAL AUTHORITY CODES AND BUILDING REGULATIONS, BRITISH STANDARDS AND OTHER REGULATIONS APPLICABLE TO BOTH DESIGN AND EXECUTION OF THE WORK.

**CLIENT:**  
Elizabeth Birch

**STRUCTURAL ENGINEERS:**

**BUILDING SERVICE ENGINEERS:**

**QUANTITY SURVEYOR:**

**PLANNING SUPERVISOR:**

**ISSUE RECORD**

Rev.	Date	Comment	by	ch
-	14.04.20	FIRST ISSUE	DL	

**PROJECT:**  
99 South End Road  
LONDON NW3 2RJ

**STATUS:**  
DETAIL DESIGN

**TITLE:**  
MECHANICAL SERVICES  
LAYOUT  
FIRST FLOOR AND ROOF

<b>SCALE:</b> 1:50	<b>DRAWING No:</b> DD-056	<b>REVISION:</b> -	<b>ORIGINAL PAPER SIZE:</b> A1
<b>JOB NO:</b> 177			