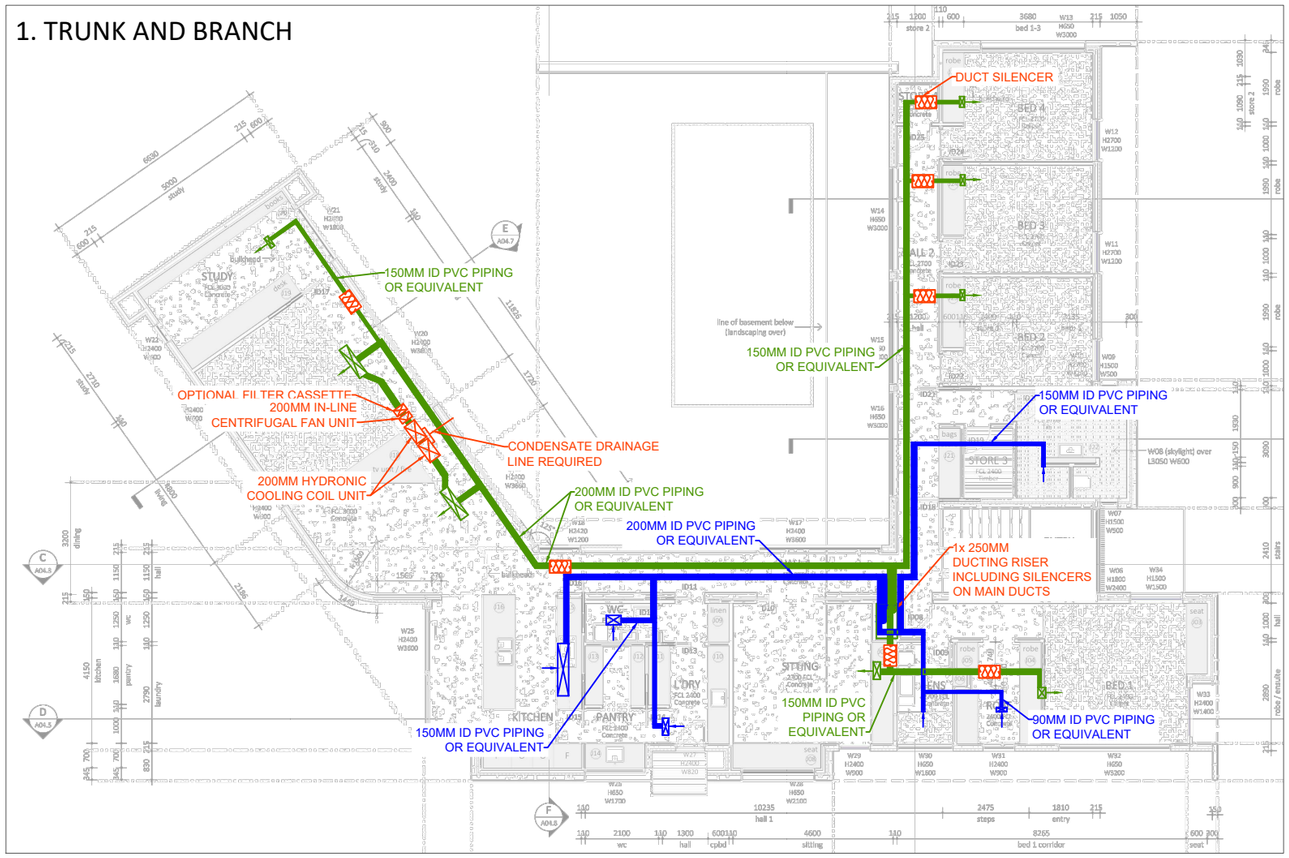
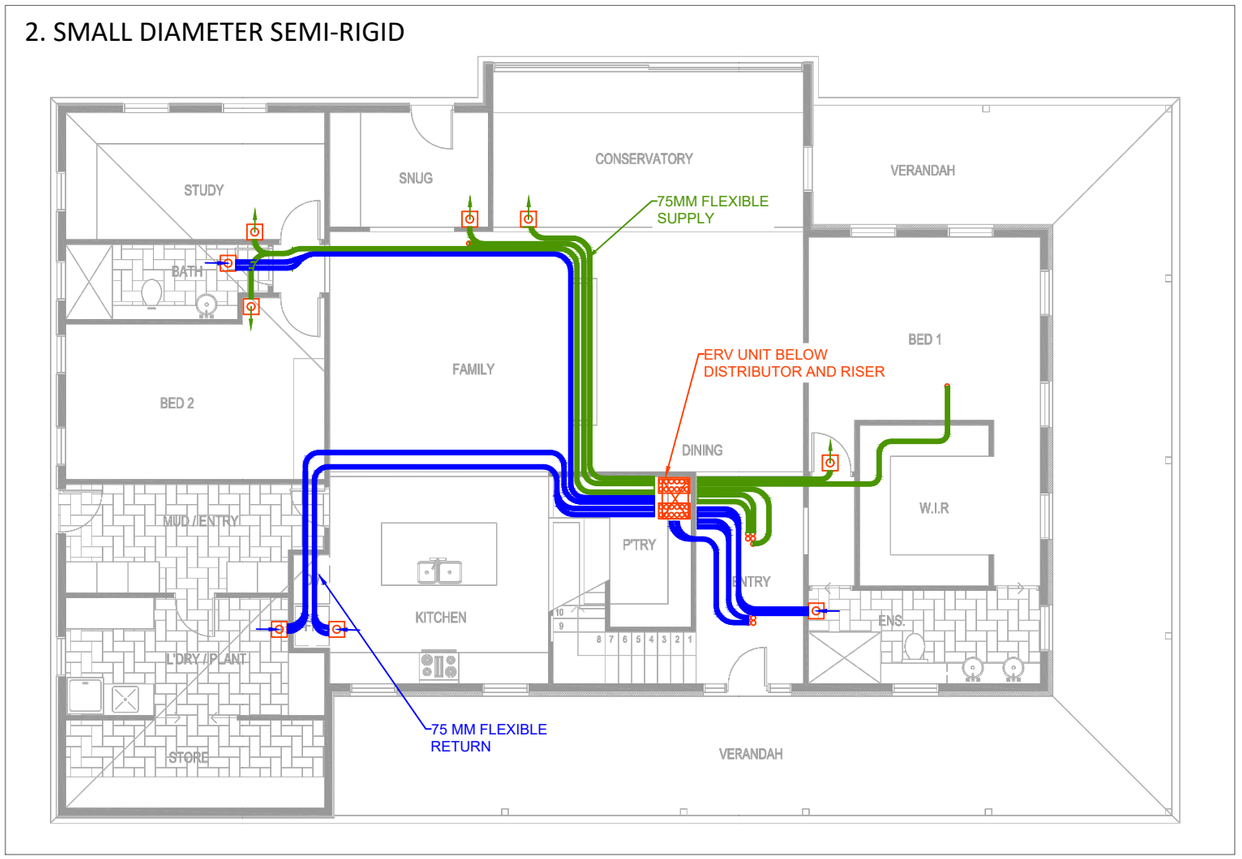
EXAMPLES OF CENTRALISED ERV SYSTEM DESIGNS

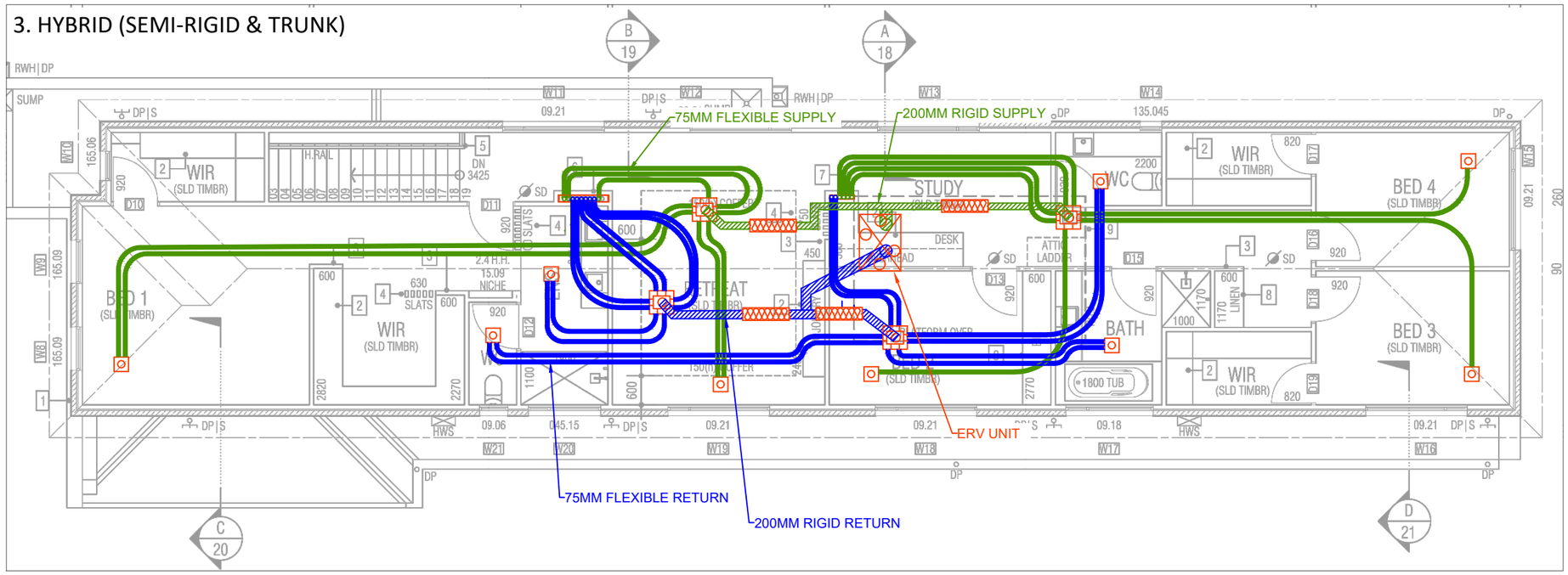
1. TRUNK AND BRANCH



2. SMALL DIAMETER SEMI-RIGID



3. HYBRID (SEMI-RIGID & TRUNK)



SYMBOL KEY

- SUPPLY/RETURN VENT
- DUCT DISTRIBUTORS
- HEAT RECOVERY UNIT
- SUPPLY DUCT
- RETURN DUCT
- DUCT SILENCER

SAMPLE FLOW RATE AND VENT RESTRICTION CALCULATIONS FROM DESIGN 2

VENT FLOW RATES DURING OPERATION

VENT	MODELED AIRFLOW	DUCTING PRESSURE DROP	ADDITIONAL VENT RESTRICTION	DUCT LENGTH
LAUNDRY	60 m3/hr	29 Pa	0 Pa	11 m x 2 ducts
KITCHEN	60 m3/hr	29 Pa	0 Pa	11 m x 2 ducts
BATHROOM1	60 m3/hr	18 Pa	11 Pa	7 m x 2 ducts
ENSUITE	60 m3/hr	10 Pa	19 Pa	4 m x 2 ducts
BATHROOM2	60 m3/hr	18 Pa	11 Pa	7 m x 2 ducts
WC	60 m3/hr	18 Pa	11 Pa	7 m x 2 ducts

THE INFORMATION AND DESIGNS CONTAINED IN THIS DRAWING ARE FOR ILLUSTRATIVE PURPOSES ONLY

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DRAWN BY: J. JORDAAN

LAROS TECHNOLOGIES