

MECHANICAL DRAWING LIST	
Sheet Number	Sheet Title
MA-100	MECHANICAL LEGEND & DRAWING LIST
MP-201	PLUMBING - GROUND FLOOR - DEMO & NEW WORK
MV-201	MECHANICAL - GROUND FLOOR - DEMO & NEW WORK
MX-300	MECHANICAL SCHEDULES & DETAILS

MECHANICAL SYMBOLS	
GENERAL	
SYMBOL	DESCRIPTION
	EXISTING TO REMAIN
	EXISTING TO BE DEMOLISHED
	EXISTING TO BE REMOVED FOR RELOCATION
	EXISTING RELOCATED IN NEW WORK
	NEW WORK
	CONNECT TO EXISTING
	AIRFLOW / PIPE FLOW DIRECTION
	PIPE TURNING DOWN
	PIPE TURNING UP
	PRESSURE REDUCING VALVE
	ROOM THERMOSTAT
	ROOM HUMIDISTAT
	PUMP
	AUTOMATIC CONTROL VALVE - TWO WAY
	AUTOMATIC CONTROL VALVE - THREE WAY
	ISOLATION VALVE
	BALANCING VALVE
	CHECK VALVE
	STRAINER - OVER 50MM WITH VALVED FLUSHING DRAIN
	PIPE BRANCH OFF TOP
	PIPE BRANCH OFF BOTTOM
	RELIEF VALVE (PIPE TO DRAIN)
	PRESSURE GAUGE
	THERMOMETER
	CAP

MECHANICAL SYMBOLS	
PLUMBING	
SYMBOL	DESCRIPTION
	SANITARY DRAINAGE - ABOVE GROUND
	SANITARY DRAINAGE - UNDERGROUND
	SANITARY DRAINAGE (ACID RESISTANT) - ABOVE GROUND
	SANITARY DRAINAGE (ACID RESISTANT) - UNDERGROUND
	STORM DRAINAGE - ABOVE GROUND
	STORM DRAINAGE - UNDERGROUND
	PUMPED DISCHARGE
	DOMESTIC COLD WATER SUPPLY
	DOMESTIC HOT WATER SUPPLY
	DOMESTIC HOT WATER RECIRC.
	TEMPERED WATER
	ACID RESISTANT VENT
	VENT
	GAS
	REVERSE OSMOSIS PIPING
	RADIO ISOTOPE DRAIN
	COMPRESSED AIR
	HEAT TRACING
	RUNNING TRAP
	P-TRAP
	BACKFLOW PREVENTER
	BACK WATER VALVE
	DENOTES FIXTURE TYPE PER SPECIFICATION
	EMERGENCY SHOWER
	EYE WASH
	CLEANOUT IN FLOOR
	CLEANOUT IN CEILING
	HOSE BIBB
	NON FREEZE HOSE BIBB
	SINGLE GAS OUTLET
	DOUBLE GAS OUTLET
	COMPRESSED AIR OUTLET
	ROOF DRAIN
	CONTROL FLOW ROOF DRAIN
	VENT THROUGH ROOF
	RAIN WATER LEADER
	TRAP SEAL PRIME
	SCUPPER DRAIN
	MANHOLE
	CATCH BASIN
	TRENCH GRATE & FRAME
	AREA DRAIN
	FUNNEL FLOOR DRAIN
	FLOOR DRAIN
	HUB DRAIN
	FLOOR SINK
	TERRACE DECK DRAIN
	FLOOR DRAIN - FLUSHING RIM
	WATER METER ASSEMBLY
	GAS METER

MECHANICAL SYMBOLS	
VENTILATION	
SYMBOL	DESCRIPTION
	FUSIBLE LINK FIRE DAMPER (DOUBLE LINE)
	FUSIBLE LINK FIRE DAMPER (SINGLE LINE)
	SMOKE DAMPER (DOUBLE LINE)
	SMOKE DAMPER (SINGLE LINE)
	COMBINATION SMOKE/FIRE DAMPER (DOUBLE LINE)
	COMBINATION SMOKE/FIRE DAMPER (SINGLE LINE)
	BACK DRAFT DAMPER (DOUBLE LINE)
	BACK DRAFT DAMPER (SINGLE LINE)
	BALANCING DAMPER (DOUBLE LINE)
	BALANCING DAMPER (SINGLE LINE)
	RECTANGULAR DUCTWORK - DIMENSION AS SHOWN
	ROUND DUCTWORK - DIMENSION AS SHOWN
	DUCTWORK (SINGLE LINE) - DIMENSION AS SHOWN
	SUPPLY DUCT UP
	EXHAUST/RETURN DUCT UP
	SUPPLY DUCT DOWN
	EXHAUST/RETURN DUCT DOWN
	MITRED ELBOW WITH AIR TURNING VANES
	DUCT RISE (DOUBLE LINE)
	DUCT RISE (SINGLE LINE)
	MOTORIZED DAMPER
	SUPPLY GRILLE - DIMENSIONS SHOWN ON SCHEDULE
	EXHAUST/RETURN GRILLE - DIMENSIONS SHOWN ON SCHEDULE
	CEILING SUPPLY AIR DIFFUSER - DIMENSIONS SHOWN ON SCHEDULE
	SUPPLY AIR LINEAR SLOT DIFFUSER - DIMENSIONS SHOWN ON SCHEDULE
	CEILING EXHAUST/RETURN GRILLE - DIMENSIONS SHOWN ON SCHEDULE
	BRANCH TAKE-OFF WITH ADJUSTABLE SPLITTER DAMPER IN SUPPLY DUCT (DOUBLE LINE)
	BRANCH TAKE-OFF WITH ADJUSTABLE SPLITTER DAMPER IN SUPPLY DUCT (SINGLE LINE)
	OPEN ENDED DUCT WITH BALANCING DAMPER AND BELLMOUTH, DIRECTION AS SHOWN (DOUBLE LINE)
	OPEN ENDED DUCT WITH BALANCING DAMPER AND BELLMOUTH, DIRECTION AS SHOWN (SINGLE LINE)
	FLEXIBLE DUCT CONNECTION
	DIFFUSER TAG
	GRILLE TAG
	ACOUSTICALLY LINED DUCTWORK (DOUBLE LINE)
	ACOUSTICALLY LINED DUCTWORK (SINGLE LINE)
	SILENCER (ATTENUATOR)
	FLEXIBLE DUCT (DOUBLE LINE)
	FLEXIBLE DUCT (SINGLE LINE)
	RETURN AIR OPENING IN WALL ABOVE FINISHED CEILING
	FLEXIBLE DUCT CONNECTION WITH BALANCING DAMPER ON TAKE-OFF
	DUCT MOUNTED HEATING COIL (DOUBLE LINE)
	DUCT MOUNTED HEATING COIL (SINGLE LINE)
	VARIABLE AIR VOLUME BOX COIL REHEAT COIL, 8 DENOTES SIZE, 111 DENOTES AIR QUANTITY IN LITRES/SEC.
	DUCT TRANSITION FROM RECTANGULAR TO ROUND
	RECTANGULAR DUCT BREAK
	ROUND DUCT BREAK
	SINGLE LINE DUCT BREAK

MECHANICAL SYMBOLS	
HEATING & COOLING	
SYMBOL	DESCRIPTION
	HEATING WATER RETURN
	HEATING WATER SUPPLY
	HEATING GLYCOL RETURN
	HEATING GLYCOL SUPPLY
	CONDENSER WATER RETURN
	CONDENSER WATER SUPPLY
	CHILLED WATER RETURN
	CHILLED WATER SUPPLY
	CHILLED GLYCOL RETURN
	CHILLED GLYCOL SUPPLY
	CONDENSATE DRAIN
	REFRIGERANT GAS
	REFRIGERANT LIQUID
	LOW PRESSURE STEAM
	LOW PRESSURE CONDENSATE
	HIGH PRESSURE STEAM
	HIGH PRESSURE CONDENSATE
	VENT
	STEAM VENT
	FUEL OIL SUPPLY
	FUEL OIL RETURN
	FUEL OIL VENT
	ELECTRIC BASEBOARD HEATER OUTPUT AS SHOWN (KW)
	ELECTRIC CABINET HEATER
	CABINET HEATER
	UNIT HEATER
	CONVECTOR - LENGTH - HEAT OUTPUT (KW)
	WALL FIN - LENGTH - HEAT OUTPUT (KW)
	UNION
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	EXPANSION COMPENSATOR
	EXPANSION SWING
	PIPE ANCHOR
	PIPE GUIDE
	PIPE SLEEVE
	FLOAT & THERMOSTATIC TRAP
	INVERTED BUCKET TRAP
	ELECTRIC TRACING
	RADIANT PANEL - 8 DENOTES DEPTH, 600mm DENOTES HEIGHT, 1100mm DENOTES LENGTH & 2.1 HEAT OUTPUT (KW)

ISSUE DATE:

NO.	DATE	DESCRIPTION
4	2021-03-17	ISSUED FOR TENDER
3	2021-02-26	ISSUED FOR TENDER REVIEW
2	2021-02-11	ISSUED FOR 80% REVIEW
1	2021-02-04	ISSUED FOR 50% REVIEW

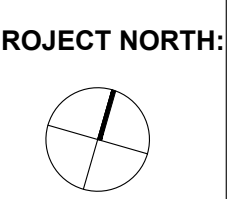
PROJECT:

**QUEEN ELIZABETH
PS- MAIN OFFICE AND
STAFF WORK ROOM**

DRAWING TITLE:

**MECHANICAL LEGEND &
DRAWING LIST**

PROJECT NO: ED-20-311
SCALE: AS SHOWN
DRAWN BY: RH
REVIEWED BY: --



DRAWING NO:

MA-100

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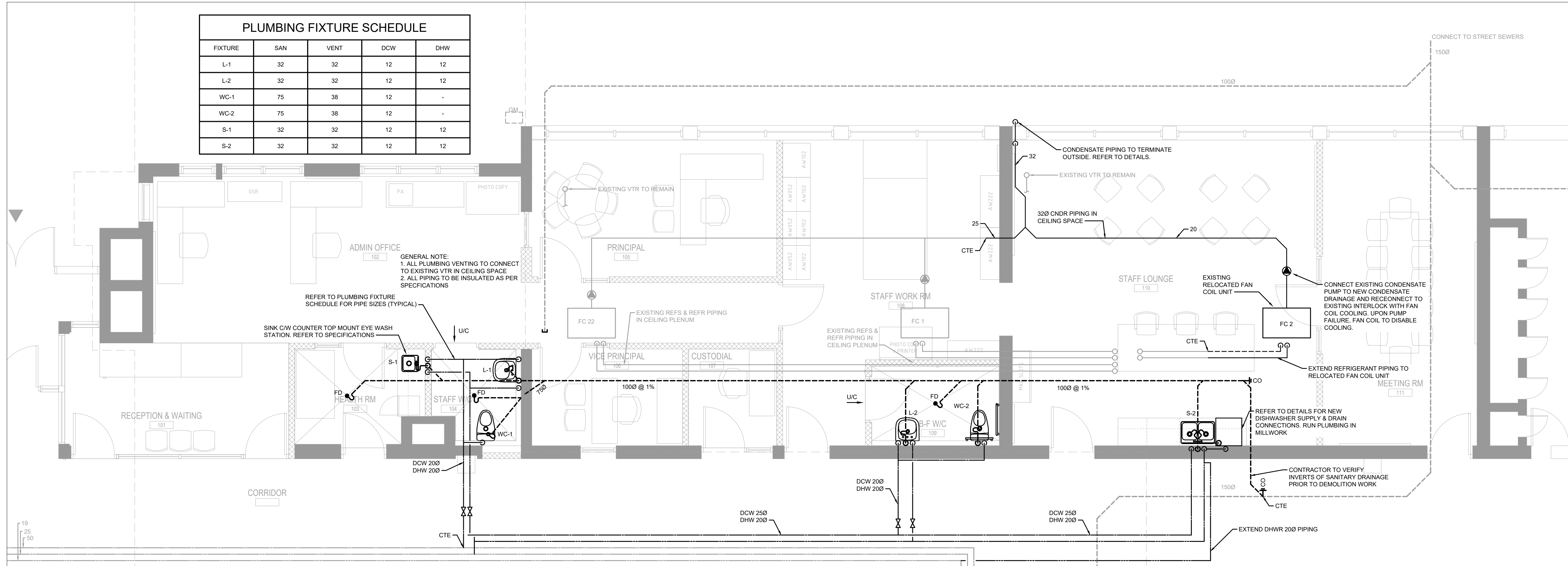
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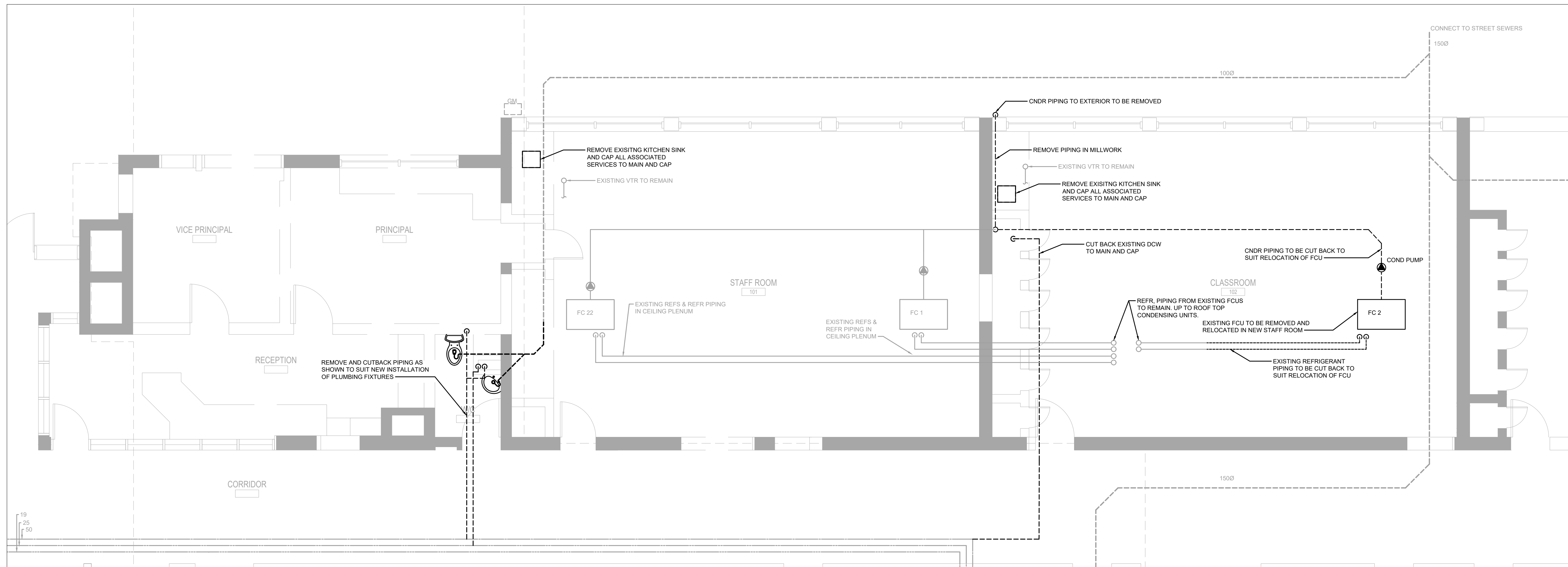


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PLUMBING FIXTURE SCHEDULE				
FIXTURE	SAN	VENT	DCW	DHW
L-1	32	32	12	12
L-2	32	32	12	12
WC-1	75	38	12	-
WC-2	75	38	12	-
S-1	32	32	12	12
S-2	32	32	12	12



2 PLUMBING - NEW WORK PLAN
 SCALE: 1:50



1 PLUMBING - DEMOLITION PLAN
 SCALE: 1:50

ISSUE DATE:

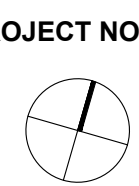
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PROJECT:
**QUEEN ELIZABETH
 PS- MAIN OFFICE AND
 STAFF WORK ROOM**

DRAWING TITLE:
**PLUMBING - GROUND FLOOR -
 DEMO & NEW WORK**

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MP-201

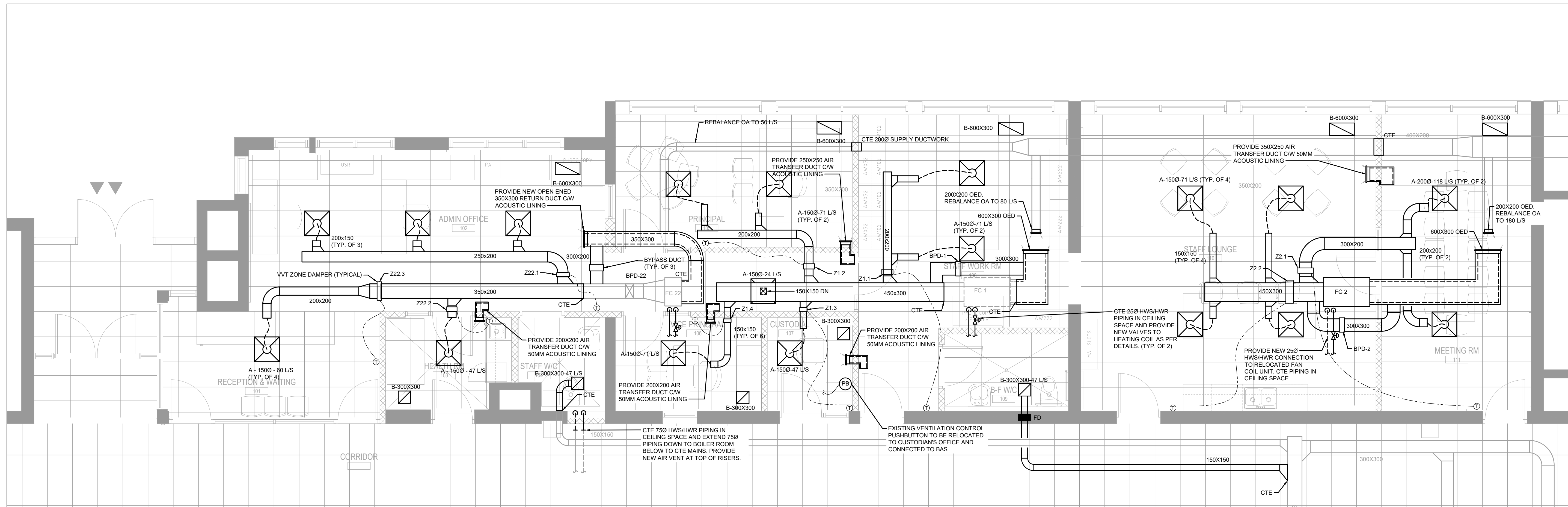


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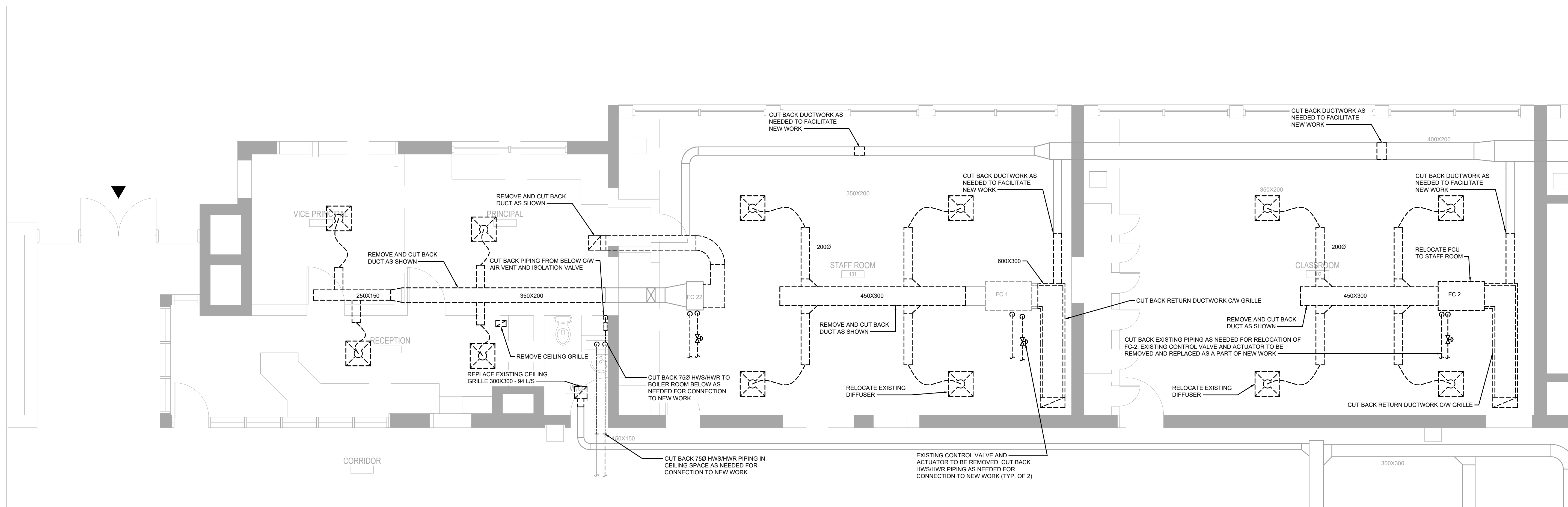
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2 HVAC - NEW WORK PLAN
 SCALE: 1:50



1 HVAC - DEMOLITION PLAN
 SCALE: 1:50

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QUEEN ELIZABETH PS- MAIN OFFICE AND STAFF WORK ROOM

DRAWING TITLE:
MECHANICAL - GROUND FLOOR - DEMO & NEW WORK

PROJECT NO: ED-20-311
SCALE: AS SHOWN
DRAWN BY: RH
REVIEWED BY: --

DRAWING NO:
MV-201



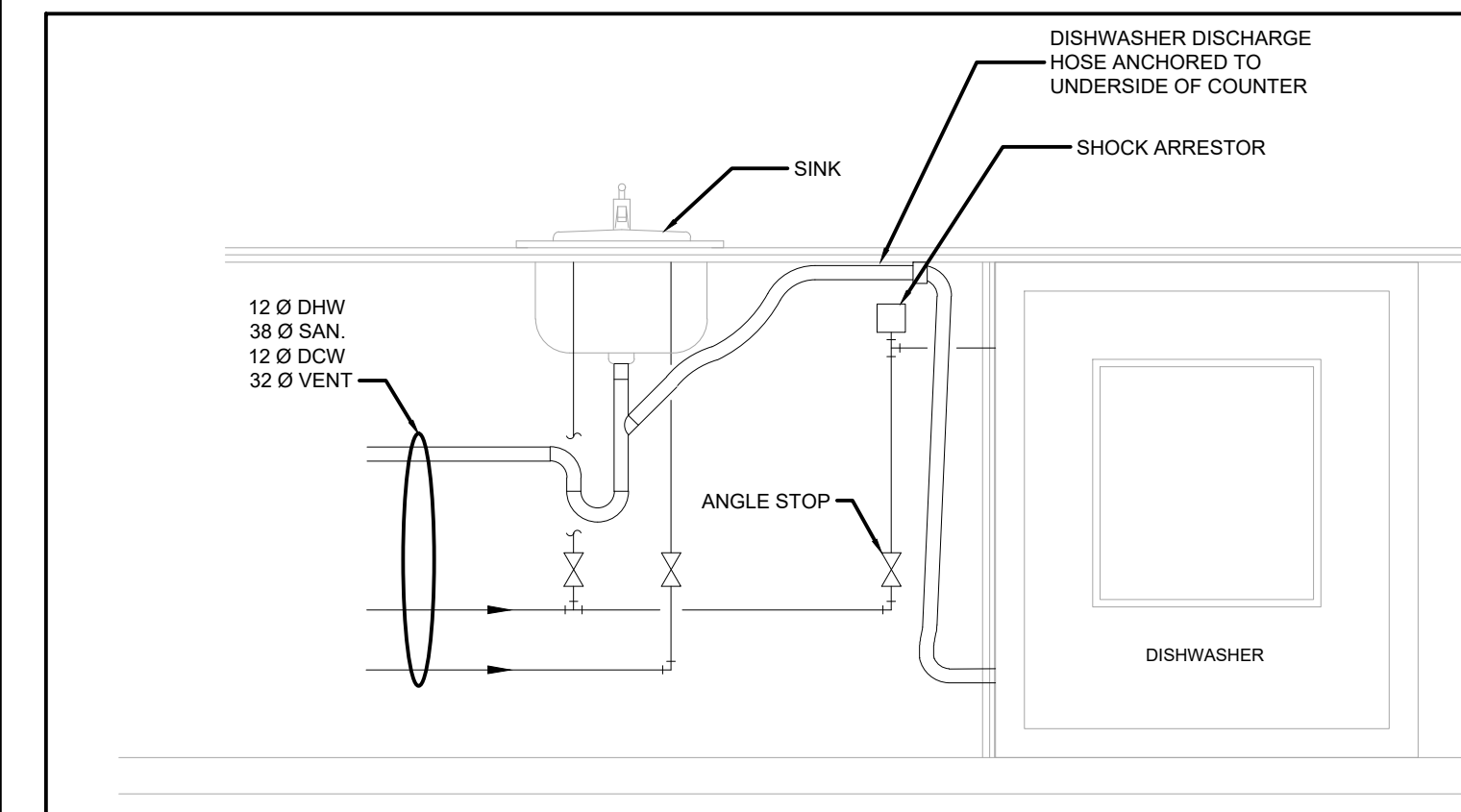
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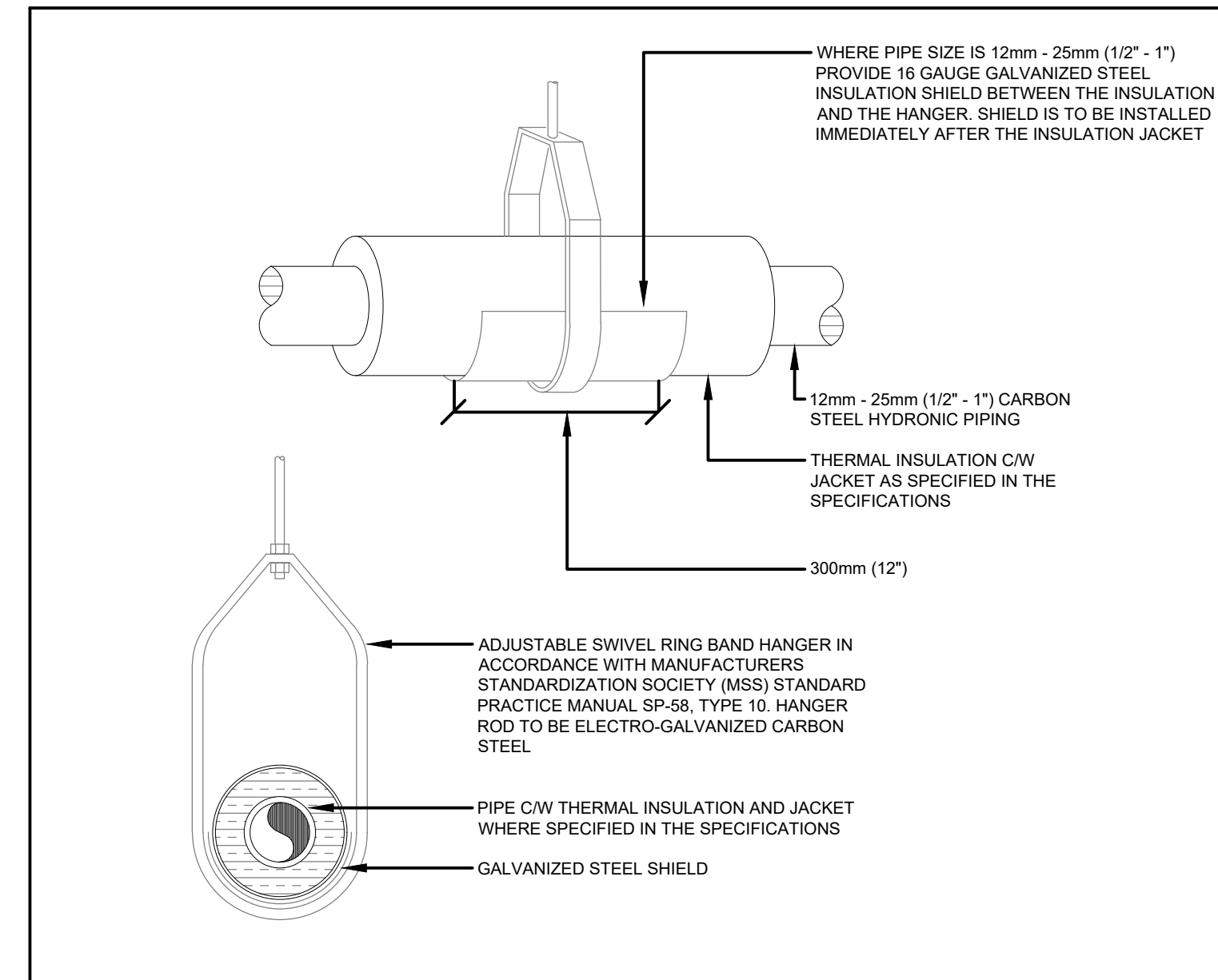


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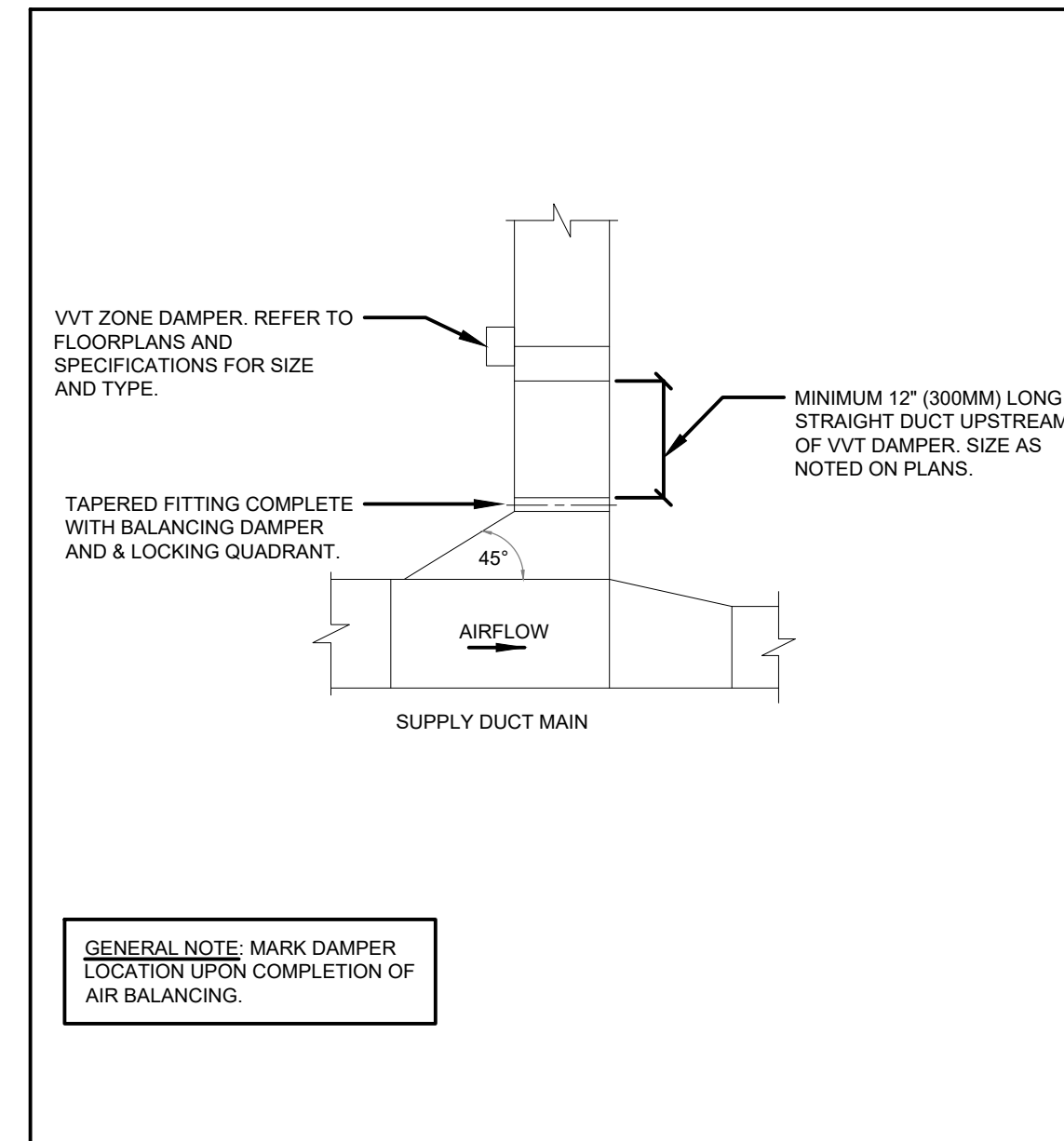
SCHEDULE OF GRILLES (E.H. PRICE)					
TAG	SERVICE	MODEL	SIZE(MMM)	FINISH	REMARKS
A	CEILING SUPPLY DIFFUSER	SCDA	600X600, REFER TO FLOOR PLAN FOR NECK CONNECTION	B-12	ADJUSTABLE DIFFUSER
B	EXHAUST CEILING GRILLE	80	AS PER FLOOR PLAN	B-12	



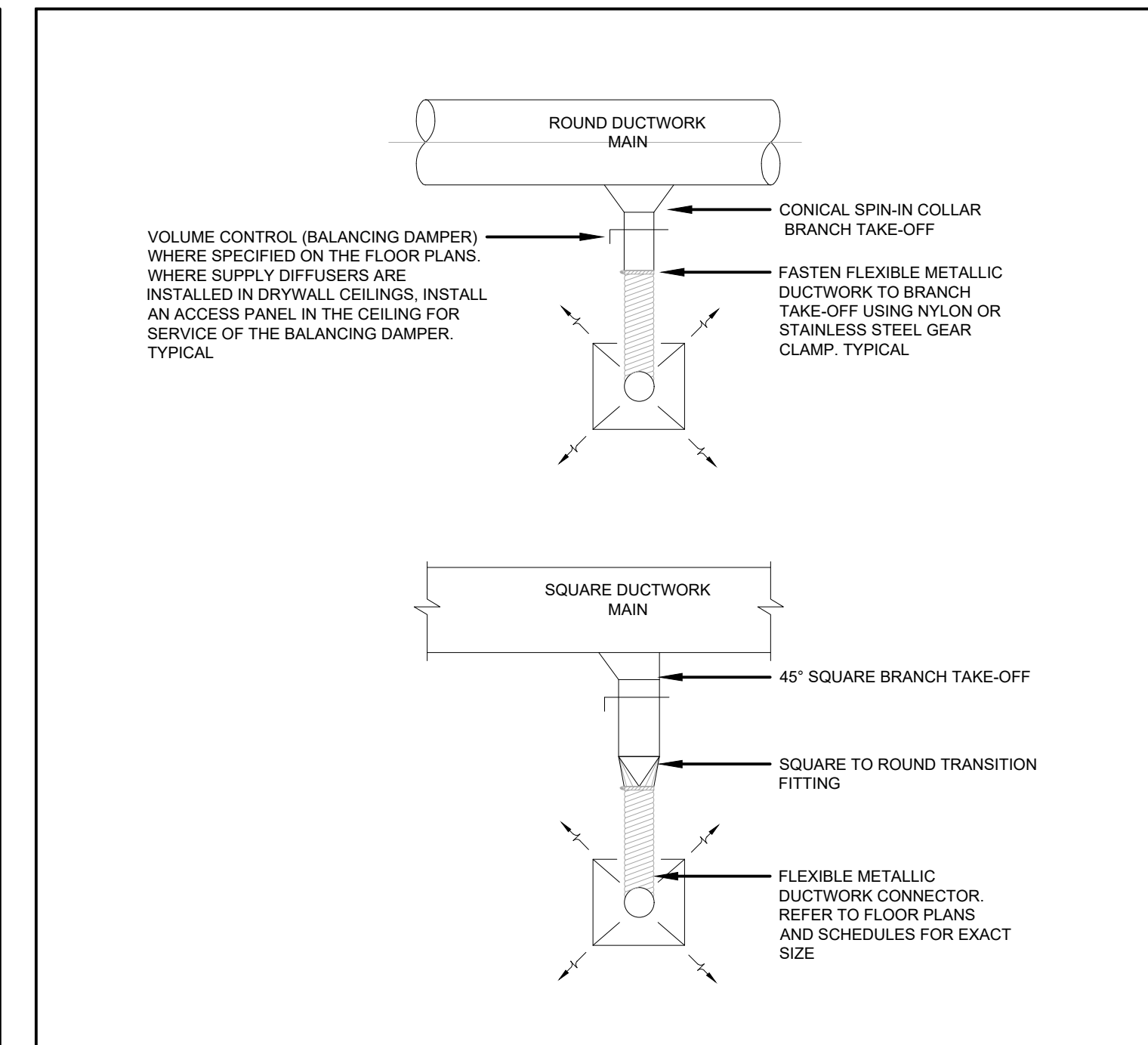
7 DISHWASHER PLUMBING CONNECTION
NOT TO SCALE



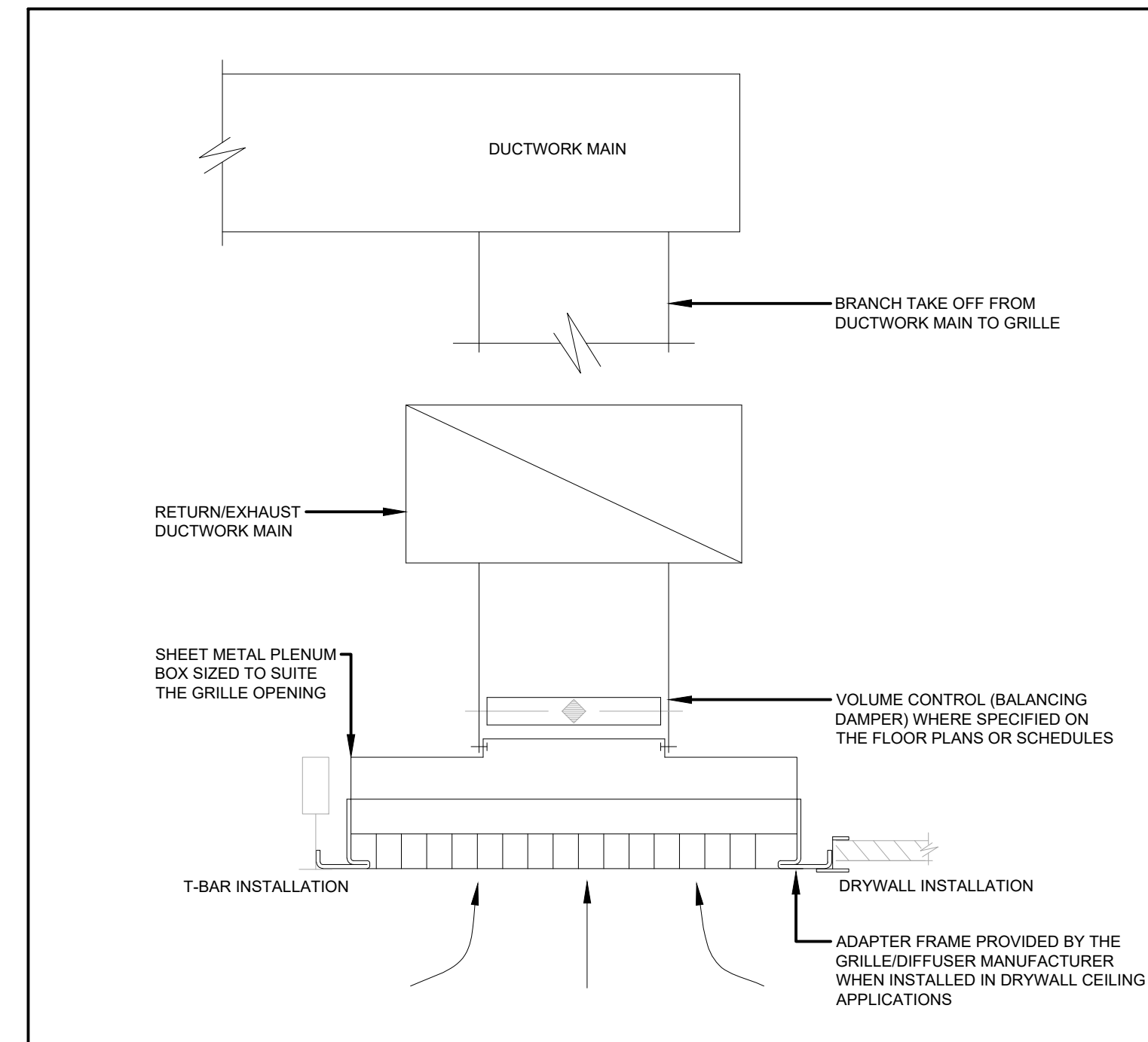
8 PIPING HANGERS AND SUPPORTS
NOT TO SCALE



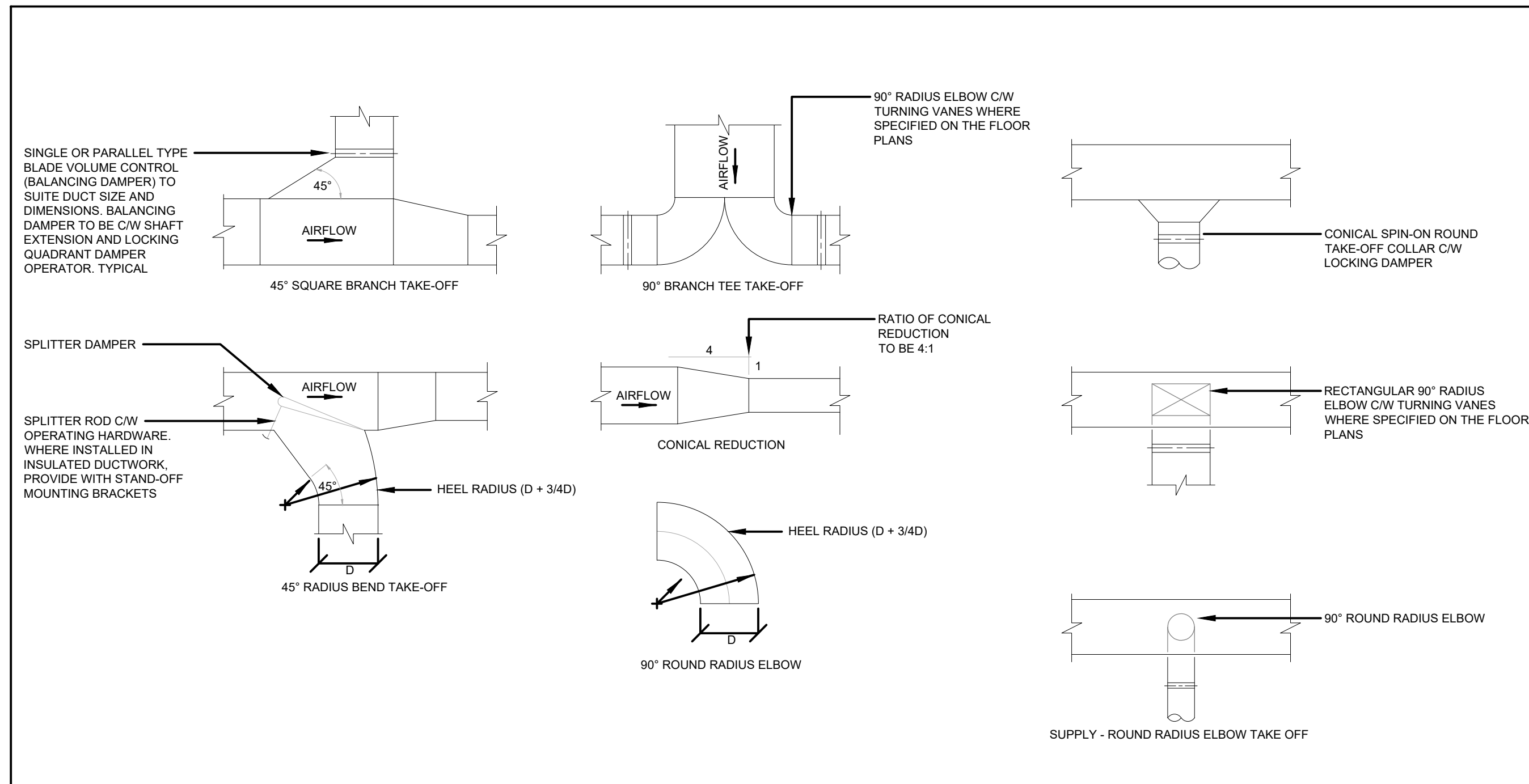
9 TYPICAL VVT DAMPER INSTALLATION
NOT TO SCALE



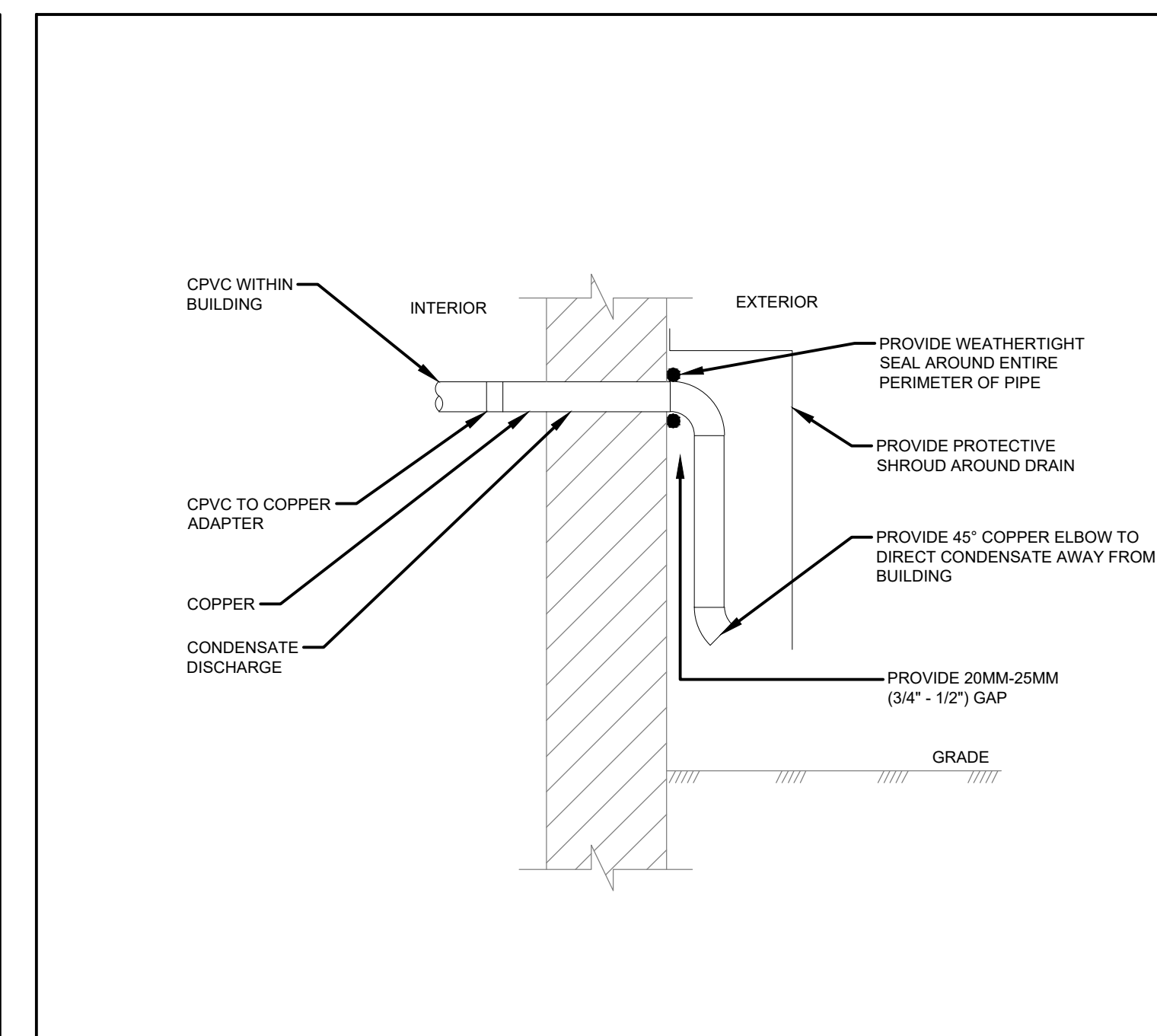
4 FLEXIBLE METALLIC DUCTWORK CONNECTION
NOT TO SCALE



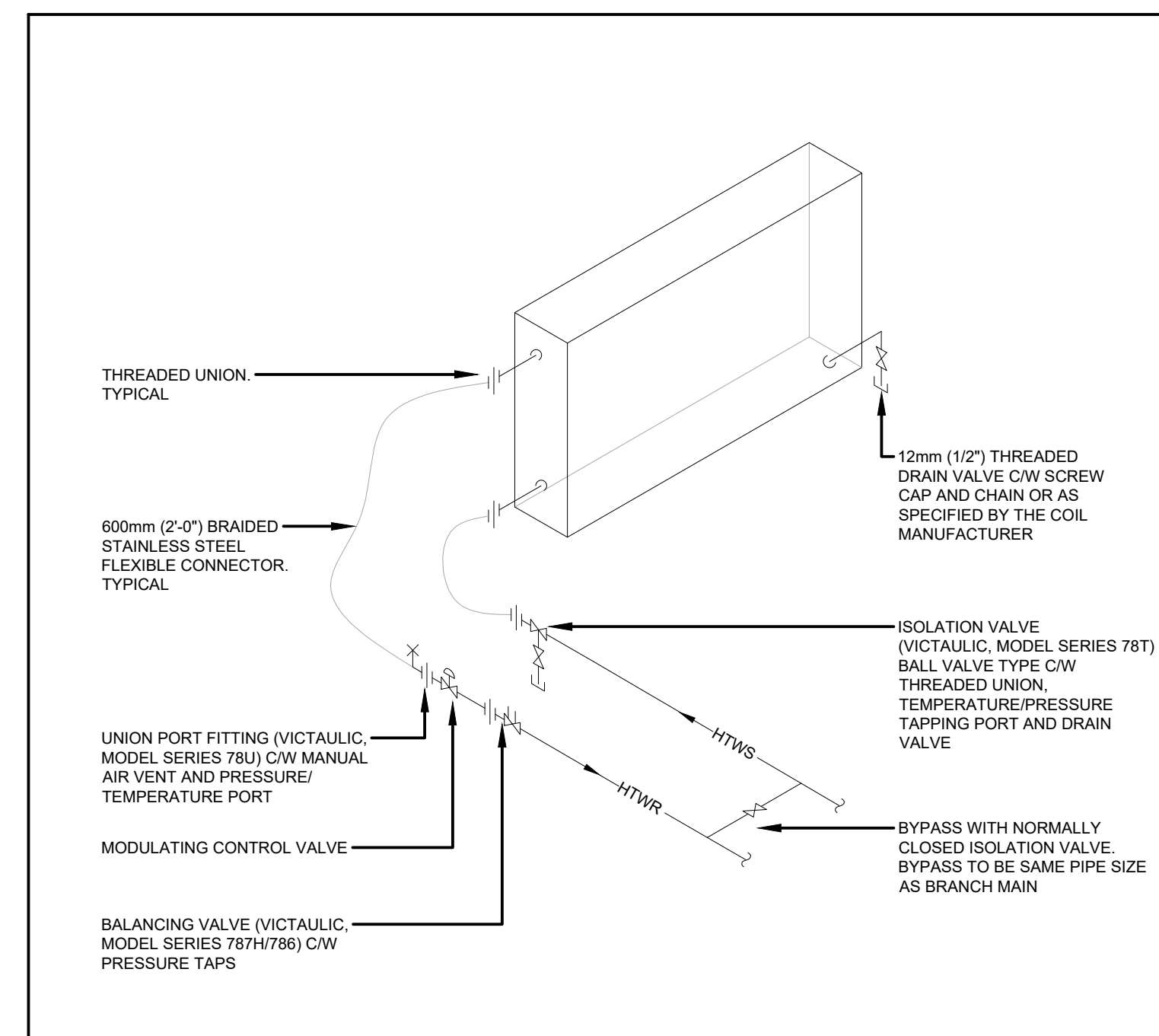
5 CEILING RETURN GRILLE MOUNTING ARRANGEMENT
NOT TO SCALE



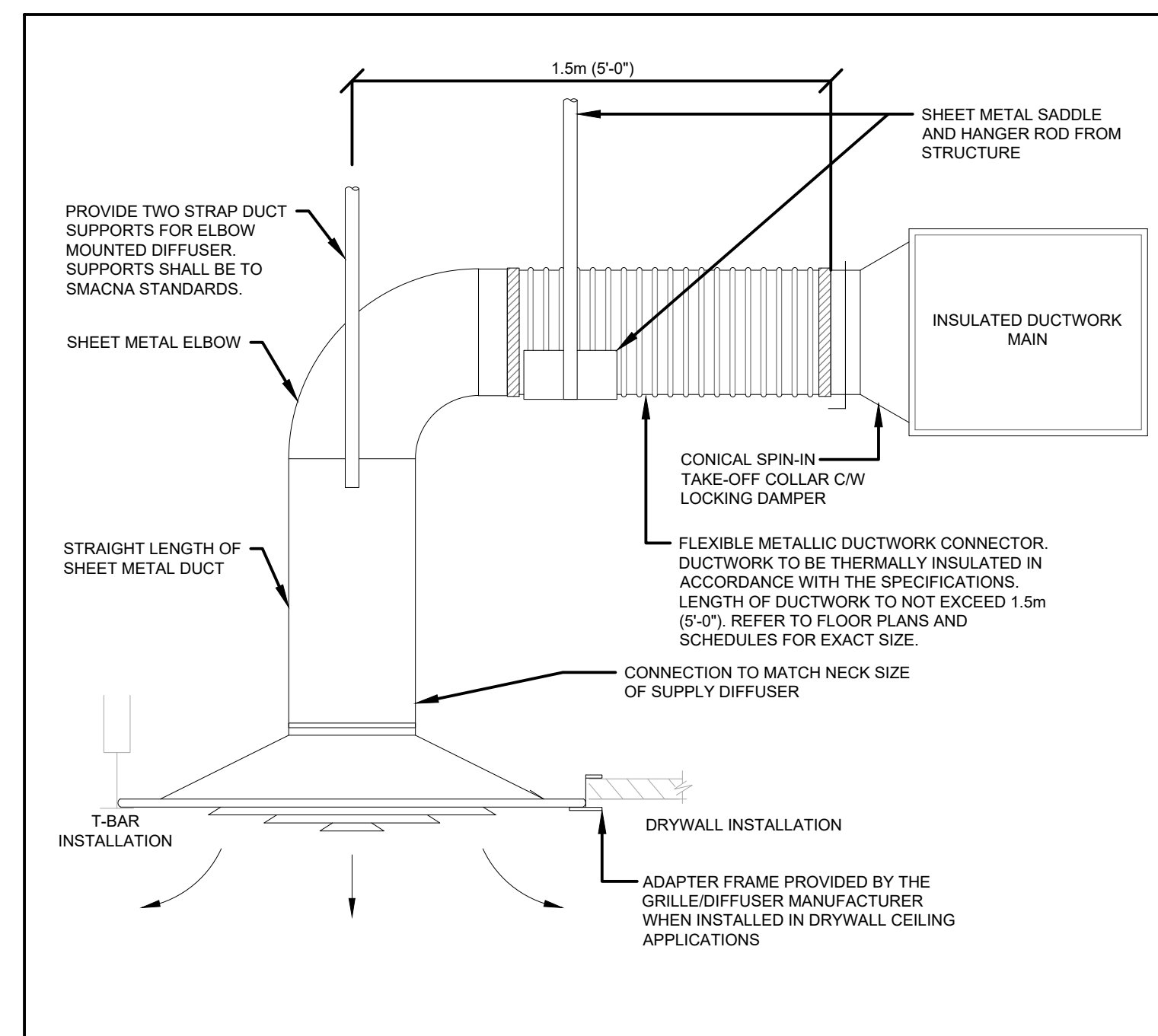
6 DUCTWORK FITTING AND TAKE-OFFS
NOT TO SCALE



1 20 05 05.08 EXTERIOR CONDENSATE PIPING DISCHARGE DETAIL
NOT TO SCALE



2 DUCT MOUNTED HYDRONIC HEATING COIL
NOT TO SCALE



3 FLEXIBLE METALLIC DUCTWORK
NOT TO SCALE

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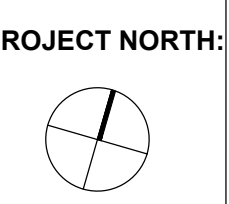
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