

MECHANICAL SERVICES
DRAWINGS

COUNTDOWN GREENLANE
ONLINE EXTENSION
GREENLANE
AUCKLAND

CONSENT / TENDER
15/12/2023

PROJECT No.223435

DRAWING INDEX		
REF.	SHEET TITLE	REVISION
M-000	COVER AND INDEX	C
M-001	LEGEND	C
M-050	TYPICAL DETAILS PART 1	C
M-051	TYPICAL DETAILS PART 2	C
M-100	GROUND FLOOR PLAN OVERALL	C
M-101	GROUND FLOOR PART 1	C
M-120	ROOF PLAN	C
M-600	SECTIONS A & B	C



LEGEND OF PIPING SYMBOLS

	DRAIN COCK
	ISOLATING VALVE (GENERAL)
	BLIND FLANGE / CAPPING
	ISOLATION & REGULATING VALVE
	IR VALVE WITH FIXED ORIFICE (COMMISSIONING VALVES)
	AUTOMATIC BALANCING VALVE
	MOTORISED 2-PORT VALVE
	MOTORISED 3-PORT VALVE
	PRESSURE INDEPENDENT MOTORISED VALVE
	PRESSURE DIFFERENTIAL CONTROL VALVE
	BRANCH CONTROLLER
	PRESSURE REDUCING VALVE
	NON-RETURN / CHECK VALVE
	DOUBLE REGULATING VALVE
	LOCK SHIELD VALVE
	DOUBLE CHECK VALVE
	PRESSURE RELIEF / SAFETY VALVE
	PUMP
	STRAINER
	BINDER TESTPOINT
	TUNDISH (BY PLUMBER)
	ANCHOR
	EXPANSION LOOP
	EXPANSION JOINTS
	FLEXIBLE CONNECTION
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	CONDENSER WATER PIPE
	CHILLED WATER PIPE
	HEATING WATER PIPE
	REFRIGERANT PIPE
	CONDENSATE DRAIN PIPE
	BELOWGROUND PIPEWORK
	LOW LEVEL PIPEWORK
	HIGH LEVEL PIPEWORK
	ABOVE CEILING PIPEWORK
	VERTICAL PIPEWORK
	FLOW & RETURN
	SEISMIC JOINT & MIN MOVEMENT

LEGEND OF DUCTING SYMBOLS

	FLEXIBLE DUCTWORK
	BACKDRAFT DAMPER
	VOLUME CONTROL DAMPER (CIRCULAR)
	VOLUME CONTROL DAMPER (RECTANGULAR)
	FIRE DAMPER
	FIRE AND SMOKE DAMPER
	FIRE COLLAR
	MOTORISED DAMPER
	ACCESS PANEL AP4 = 450 x 450 AP6 = 600 x 600 AP12 = 1200 x 600
	DUCT ACCESS PANEL
	INSECT SCREEN / VERMIN PROOF MESH
	COING COIL
	HEATING COIL
	ELECTRIC ELEMENT
	PANEL FILTER & GRADE
	BAG FILTER & GRADE
	TURNING VANES
	SILENCER
	OUTDOOR AIR VOLUME (L/s)
	NOMINAL AIR VOLUME (l/s)
	VERTICAL DUCT (CIRCULAR)
	VERTICAL DUCT (RECTANGULAR)
	CONTINUATION LINE (CIRCULAR)
	CONTINUATION LINE (RECTANGULAR)
	NATURALLY VENTILATED
	SET UP
	SET DOWN
	AIR INTAKE/OUTLET
	(DUC) DOOR UNDERCUT 30mm
	FROM ABOVE
	FROM BELOW
	TO ABOVE
	TO BELOW
	HEATING / LOW TEMPERATURE HOT WATER
	UNDERFLOOR HEATING
	TYPICAL
	EXISTING
	TO BE CONFIRMED
	STAINLESS STEEL
	GALVANISED STEEL
	COMPLETE WITH

LEGEND OF GRILLES SYMBOLS

	CEILING GRILLE/DIFFUSER (SQUARE)
	CEILING GRILLE/DIFFUSER (CIRCULAR)
	CEILING DIFFUSER (DIRECTIONAL)
	CEILING SWIRL SUPPLY DIFFUSER
	CEILING RETURN/EXHAUST GRILLE
	TRANSFER GRILLE
	SIDEWALL GRILLE/DIFFUSER
	FLOOR GRILLE/DIFFUSER
	DOOR/WALL TRANSFER DIFFUSER
	EXTERNAL LOUVRE

LEGEND OF FAN SYMBOLS

	FAN (DUCT CENTRIFUGAL)
	FAN (DUCT AXIAL)
	FAN (ROOF DOWNFLOW)
	FAN (ROOF UPFLOW)
	ROTARY ROOF VENT

EQUIPMENT REFERENCES

	GRILLE REFERENCE AIR VOLUME (l/s)
	FAN COIL UNIT REFERENCE
	VRF/SPLIT INDOOR UNIT REF
	VRF/SPLIT OUTDOOR UNIT REF
	HYDRONIC UNIT REF
	VAV BOX REF
	EXTRACT FAN REF
	SUPPLY FAN REF
	IMPULSE JET FAN
	ROOF COWL REF
	AIR HANDLING UNIT REF
	ATTENUATOR / SILENCER UNIT REF
	PUMP REF
	CHILLER REF
	COOLING TOWER REF
	ELECTRIC HEATER REF
	RANGE HOOD REF
	FLOW VELOCITY PRESS. DROP DUCTPIPE SIZE
	POSITIVE PRESSURISED ZONE
	NEGATIVE PRESSURISED ZONE

LEGEND OF CONTROLS AND SENSOR SYMBOLS

	TEMPERATURE GAUGE
	PRESSURE GAUGE
	VARIABLE SPEED DRIVE
	SPEED CONTROLLER (SINGLE PHASE)
	ELECTRONICALLY COMMUTATED MOTOR
	AFTER HOUR OVERRIDE CONTROLLER
	NATURAL VENTILATION CONTROLLER
	DIFFERENTIAL PRESSURE SENSOR
	FLOW SENSOR
	ENERGY METER
	TEMPERATURE SENSOR
	RELATIVE HUMIDITY SENSOR
	ENTHALPY SENSOR
	CARBON DIOXIDE SENSOR
	CARBON MONOXIDE SENSOR
	NITRIC OXIDE AND NITROGEN DIOXIDE SENSOR
	AVERAGING SENSOR
	WALL MOUNTED SENSOR
	CEILING MOUNTED SENSOR
	TIME CLOCK
	WALL CONTROLLER
	CENTRAL CONTROLLER
	MANUAL FAN SWITCH
	PASSIVE INFRARED SENSOR
	CURRENT SENSOR
	SMOKE DETECTOR
	AUDIBLE ALARM
	RUN/FAULT INDICATORS
	AUTO/OFF/MANUAL SWITCHES

	ELECTRIC HEATER
	MECHANICAL SERVICES SWITCH BOARD
	KITCHEN RANGE HOOD

GENERAL NOTES:

1. ARCHITECTURAL BACKGROUND BASED ON NOV 2023 ISSUE.
2. THESE DRAWINGS SHALL NOT BE USED FOR INSTALLATION PURPOSES, AND DO NOT NECESSARILY INDICATE ALL CONSTRUCTION DETAILS (E.G. ACCESS PANELS AND SUPPORTS). THE CONTRACTOR SHALL PREPARE SHOP DRAWINGS INDICATING ALL NECESSARY CONSTRUCTION DETAILS AND COORDINATION FOR ENGINEER APPROVAL PRIOR TO PLACING EQUIPMENT ORDER AND COMMENCING INSTALLATION.
3. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH TENDER SPECIFICATIONS, CONTRACT PRELIMINARY CONDITIONS, ARCHITECTURAL AND ALL OTHER TRADES CONTRACT DOCUMENTATION.
4. REFRIGERANT & CONDENSATE DRAIN PIPE ROUTES SHALL BE DETERMINED ON SITE BY THE CONTRACTOR SUBJECT TO ENGINEER APPROVAL. MAX PIPE LENGTH SHALL BE WITHIN MANUFACTURER RECOMMENDATIONS.
5. THE CONTRACTOR SHALL CONFIRM ALL WALL SENSORS AND WALL CONTROLLERS WITH THE ARCHITECT AND CLIENT, PRIOR TO MAIN CONTRACTOR INSTALLING WALL LININGS.
6. ALL FLEXIBLE DUCT SHALL BE COMPLETED WITH MIN 40mm ACOUSTIC LINING, AND MINIMAX 35m IN LENGTH.
7. CEILING GRILLE LOCATION TO BE CO-ORDINATED WITH ELECTRICAL AND FIRE SERVICES IN THE NEXT DESIGN STAGE
8. ROOF FANS: PENETRATIONS & DUCTWORK IN ROOF SPACE TO BE CO-ORDINATED WITH PURLINS & STEELWORK LAYOUT AS PART OF SHOP DRAWINGS DESIGN DEVELOPMENT. THE CONTRACTOR SHALL ALLOW FOR ADDITIONAL DUCTWORK, ACOUSTIC & FIRE PROTECTION.

STANDARD DUCTWORK NOTATIONS AND LEGEND

DUCT CONSTRUCTION CODE

DUCT AIRSTREAM SIZE → SERVICE → AIRFLOW ARROW

DUCT CONSTRUCTION TYPE:-

1. PLAIN.
2. 25mm INTERNAL ACOUSTIC LINING.
3. 50mm INTERNAL ACOUSTIC LINING.
4. EXTERNAL THERMAL INSULATION.
5. INTERNAL THERMAL INSULATION.
6. FIRE RATED DUCTING.
7. COMMERCIAL KITCHEN RATED DUCT.
8. STAINLESS STEEL.

SERVICES TYPE:-

E EXHAUST AIR DUCT
KE KITCHEN / KITCHENETTE / RANGEHOOD EXHAUST AIR DUCT
OA OUTSIDE AIR DUCT
R RETURN AIR DUCT
S SUPPLY AIR DUCT
SP SPILL AIR DUCT
TE TOILET EXHAUST AIR DUCT
T TRANSFER AIR DUCT

FLEXIBLE DUCT SIZING

MAX AIR FLOW - MIN DUCT SIZE	
50	Ø150
100	Ø200
150	Ø250
200	Ø300
300	Ø350
400	Ø400
500	Ø450

NOTE: THIS IS NOT A SHOP DRAWING

CONSENT / TENDER
15/12/2023

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A	60% DETAILED DESIGN	N.K.	K.M.	30/11/23
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C	CONSENT / TENDER	C.D.	K.M.	15/12/23
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CLIENT

ARCHITECT

PROJECT MANAGER

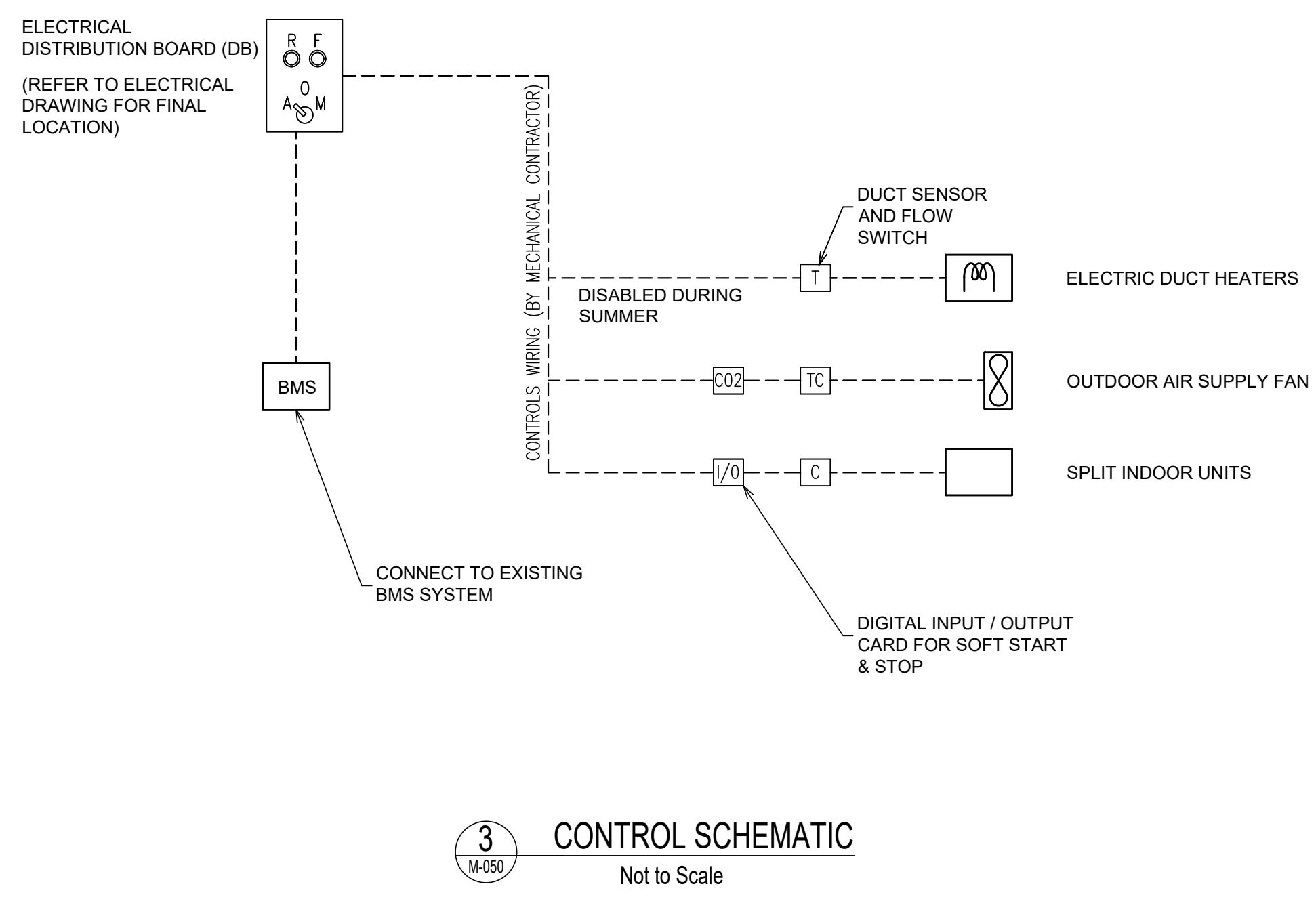
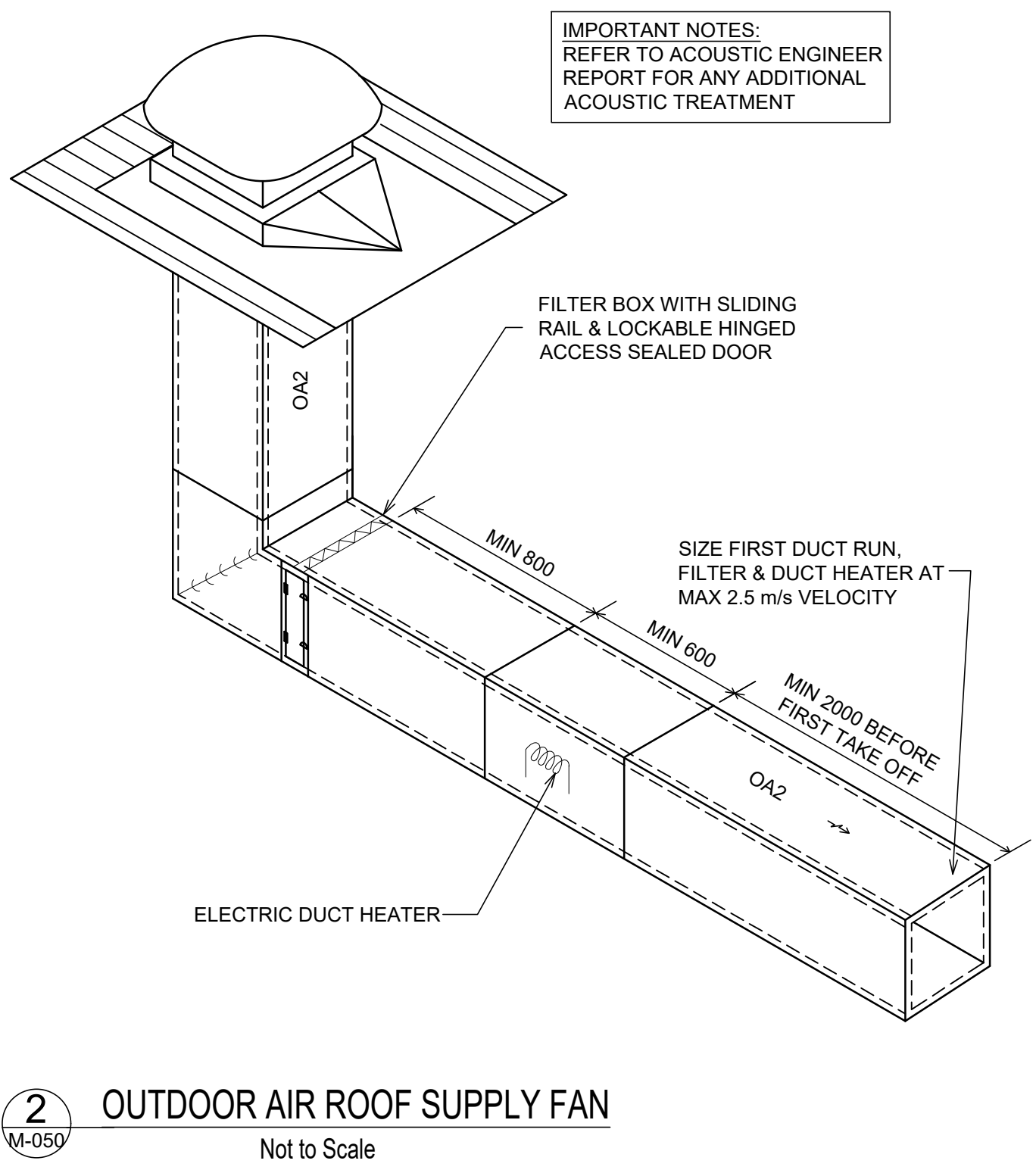
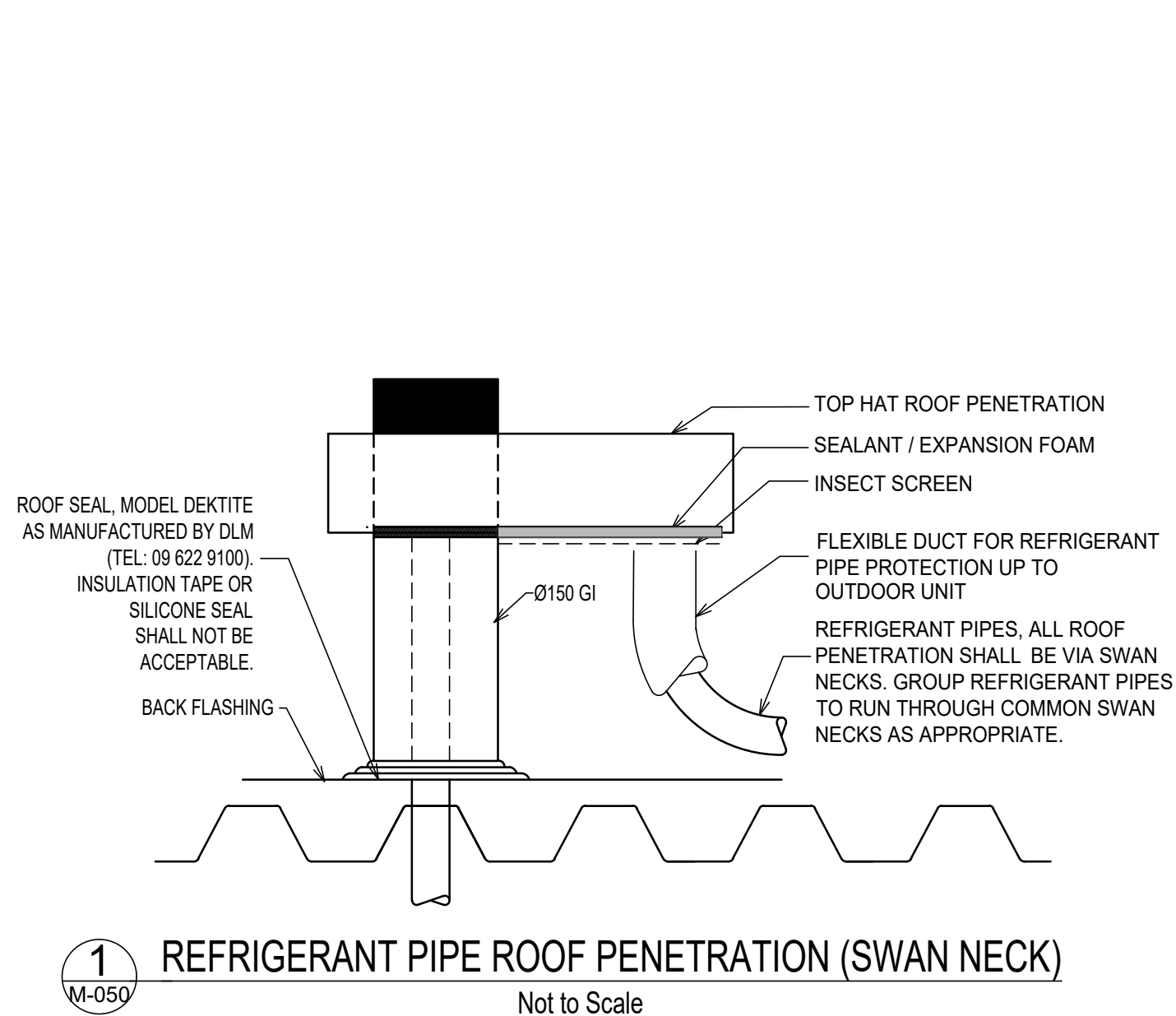
PROJECT TITLE

COUNTDOWN GREENLANE
ONLINE EXTENSION
GREENLANE
AUCKLAND

SHEET TITLE

LEGEND

DESIGNED	N.K.	29/11/23	PROJECT	223435
DRAWN	K.M.	29/11/23	DRAWING	M-001
CHECKED	K.L.	29/11/23	DISCIPLINE	MECHANICAL SERVICES
			SCALE (A1)	REVISION
			NTS	C



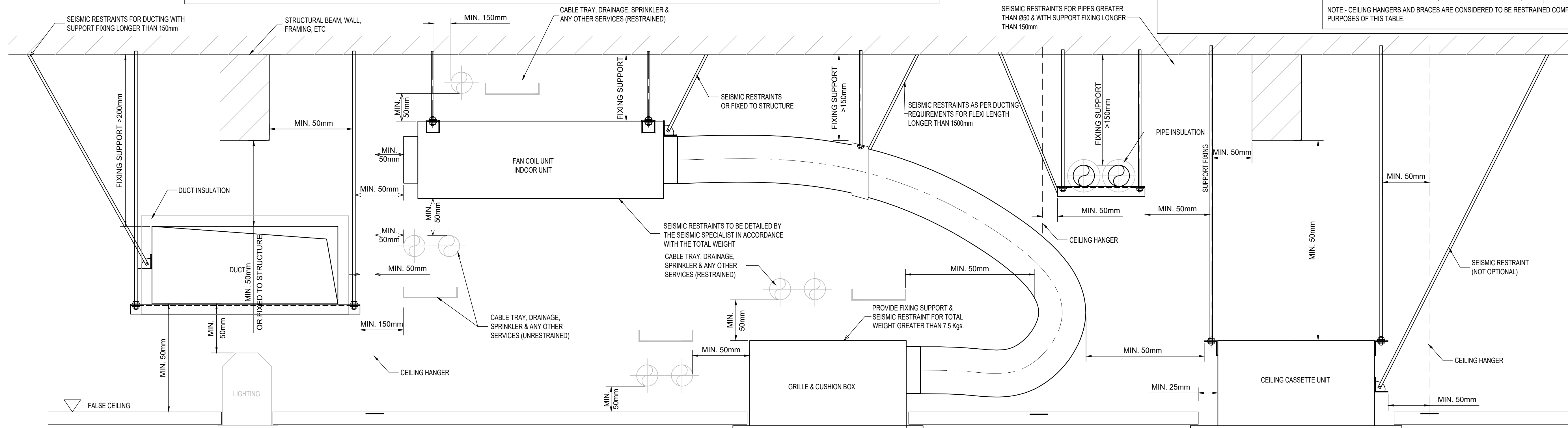
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	A	60% DETAILED DESIGN		N.K.	K.M.	30/11/23							DRAWN	K.M.	29/11/23		DRAWING M-050
	B	95% DETAILED DESIGN		C.D.	K.M.	08/12/23							CHECKED	K.L.	29/11/23		
	C	CONSENT / TENDER		C.D.	K.M.	15/12/23							DISCIPLINE MECHANICAL SERVICES			SCALE (A1) NTS	REVISION C
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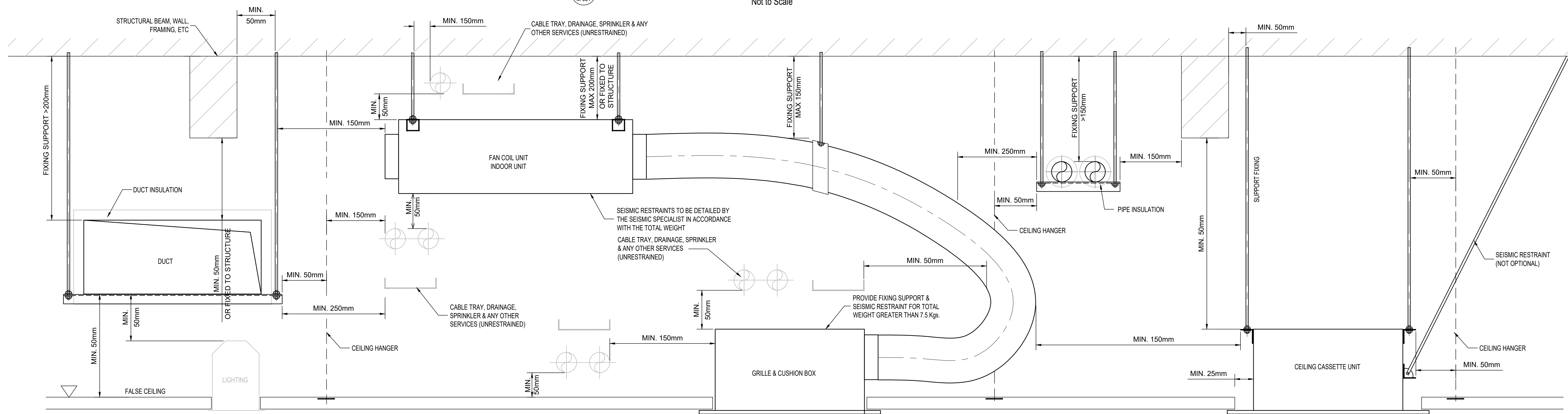
1. ALL MATERIAL, INSTALLATION TOOLS & WORKMANSHIP, INSPECTION & COMMISSIONING SHALL BE CARRIED OUT IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS & RECOMMENDATIONS.
2. PIPEWORK & SEISMIC JOINTS INSTALLATION SHALL BE CARRIED OUT BY A MANUFACTURER & ENGINEER APPROVED INSTALLER.
3. ALL INSPECTION & COMMISSIONING SHALL BE CARRIED OUT BY THIRD PARTY IQP, APPROVED BY THE MANUFACTURER AND INSTALLER.
4. THE CONTRACTOR SHALL CO-ORDINATE FINAL ROUTES & SEISMIC JOINT LOCATIONS OF SERVICES WITH OTHER SUBCONTRACTORS, & ALLOW SUFFICIENT CLEARANCE FOR FULL DEFLECTION FROM ADJACENT SERVICES INSTALLATION
5. FINAL INSTALLATION DETAILS TBC BY THE CONTRACTOR'S SEISMIC SPECIALIST.

CLEARANCES (CLAUSE 5.2.1)

CONDITION BEING CONSIDERED	MINIMUM CLEARANCE (mm)	
	HORIZONTAL	VERTICAL
UNRESTRAINED COMPONENT TO UNRESTRAINED COMPONENT	250	50
UNRESTRAINED COMPONENT TO RESTRAINED COMPONENT	150	50
RESTRAINED COMPONENT TO RESTRAINED COMPONENT	50	50
PENETRATION THROUGH STRUCTURE (SUCH AS WALLS AND FLOOR)	50	50
NOTE:- CEILING HANGERS AND BRACES ARE CONSIDERED TO BE RESTRAINED COMPONENTS FOR THE PURPOSES OF THIS TABLE.		



1 TYPICAL SEISMIC CLEARANCE FOR RESTRAINED SERVICES
M-051 Not to Scale



2 TYPICAL SEISMIC CLEARANCE FOR UNRESTRAINED SERVICES
M-051 Not to Scale

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15/12/2023

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CLIENT

WOOLWORTHS



NEW ZEALAND

ARCHITECT

BSMgroup
ARCHITECTS LTD

	PROJECT MANAGER
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PROJECT TITLE
COUNTDOWN GREENLANE
ONLINE EXTENSION
GREENLANE
AUCKLAND

SHEET TITLE
TYPICAL DETAILS PART 2

DESIGNED	N.K.	29/11/2
DRAWN	K.M.	29/11/2
CHECKED	K.L.	29/11/2
DISCIPLINE MECHANICAL SERVICES		

3	PROJECT	
3	223435	
3	DRAWING	
3	M-051	
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Plot Date: 27/04/2022

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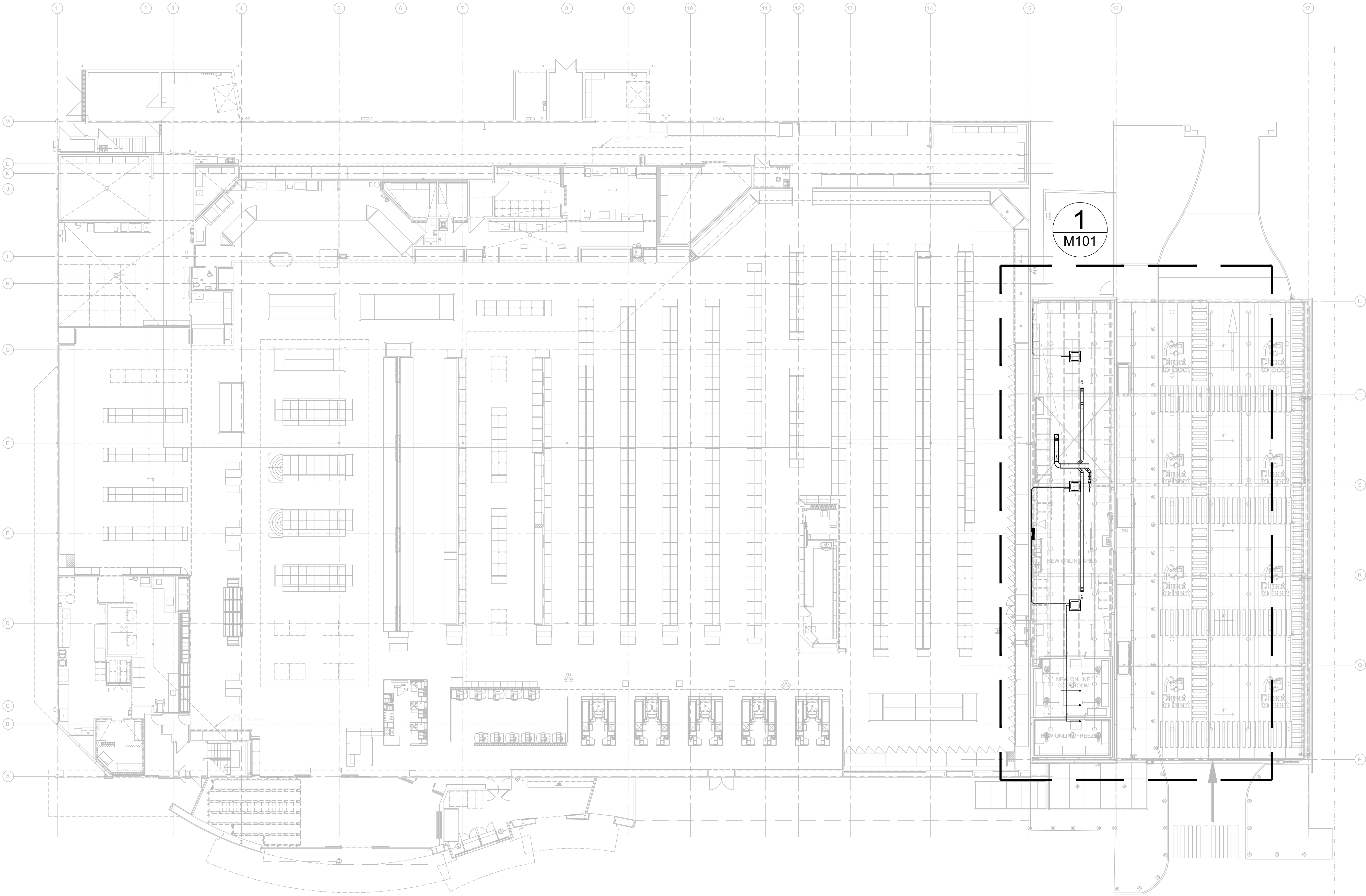
PROJECT MANAGER

PROJECT TITLE
COUNTDOWN GREENLANE
ONLINE EXTENSION
GREENLANE
AUCKLAND

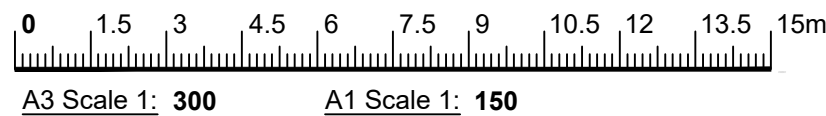
SHEET TITLE
GROUND FLOOR PLAN OVERALL

DESIGNED	N.K.	29/11/23
DRAWN	K.M.	29/11/23
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DISCIPLINE	MECHANICAL SERVICES	

PROJECT	223435
DRAWING	M-100
SCALE (A1)	1:150
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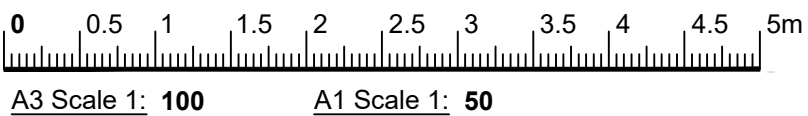
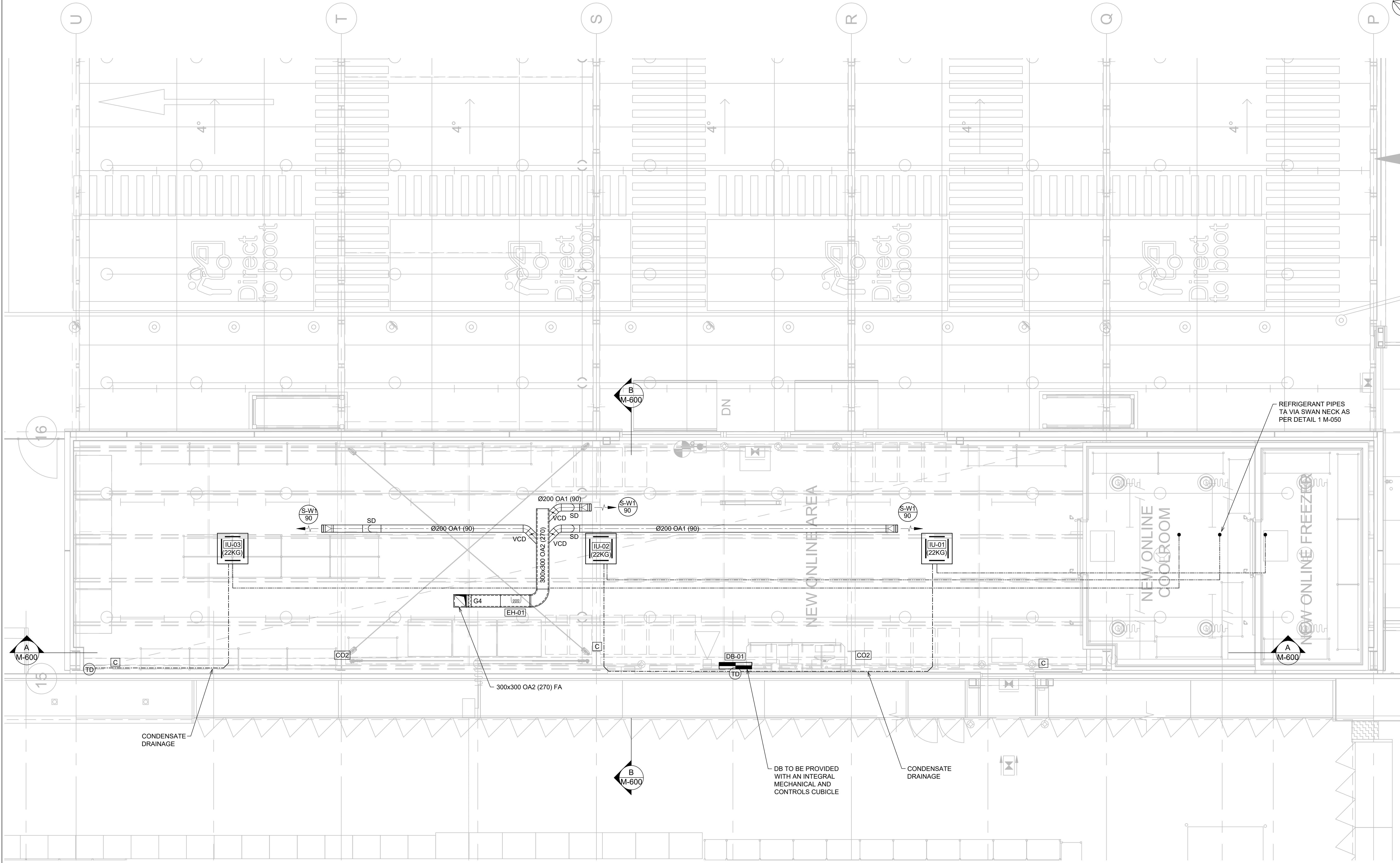
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PROJECT TITLE
COUNTDOWN GREENLANE
ONLINE EXTENSION
GREENLANE
AUCKLAND

SHEET TITLE
GROUND FLOOR PART 1

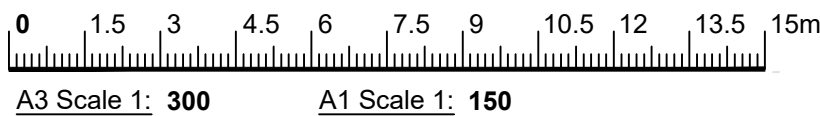
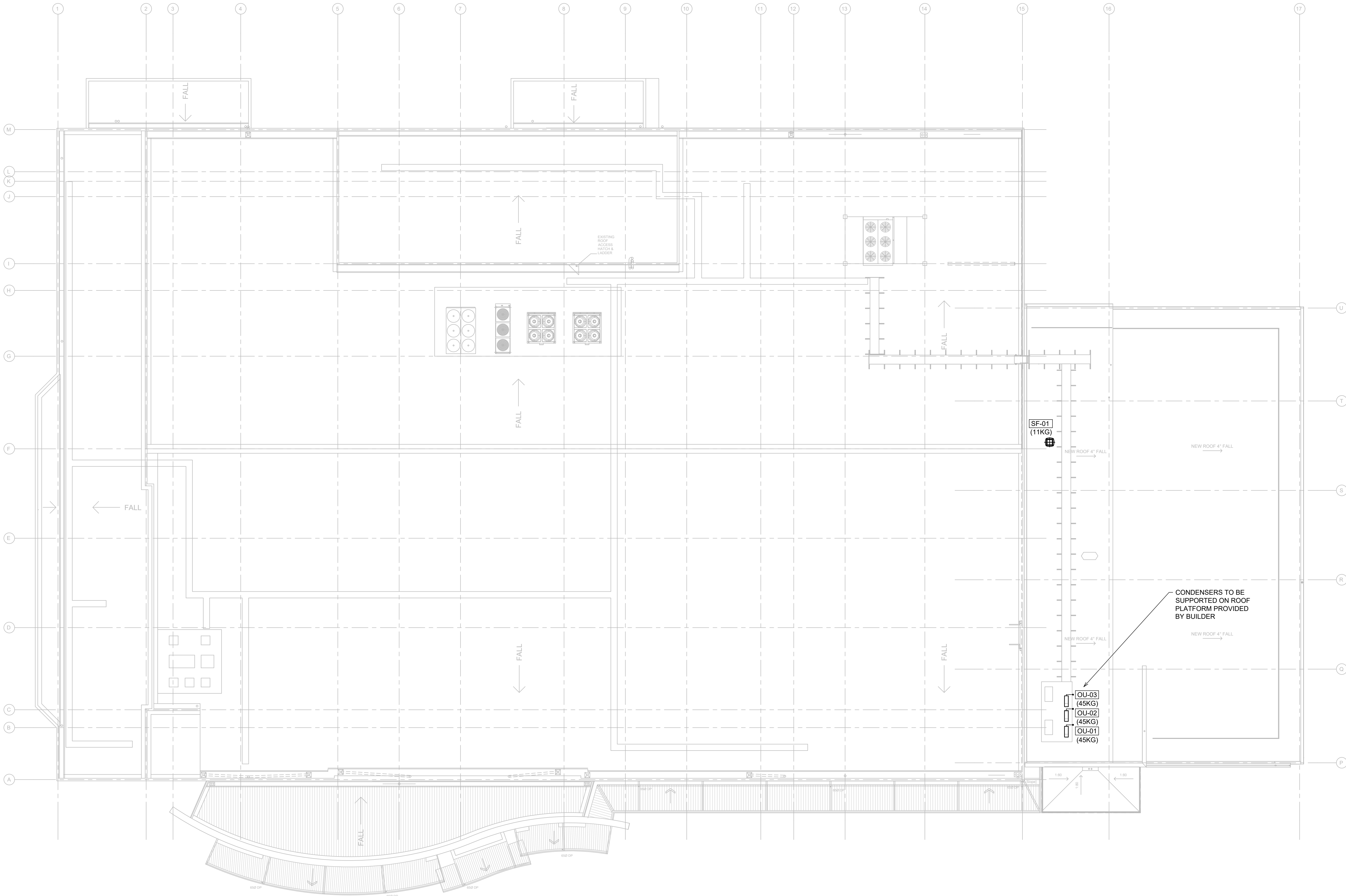
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PROJECT	223435
DRAWING	M-101
SCALE (A1)	1:50
REVISION	C

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PROJECT MANAGER

PROJECT TITLE
COUNTDOWN GREENLANE
ONLINE EXTENSION
GREENLANE
AUCKLAND

SHEET TITLE
ROOF PLAN

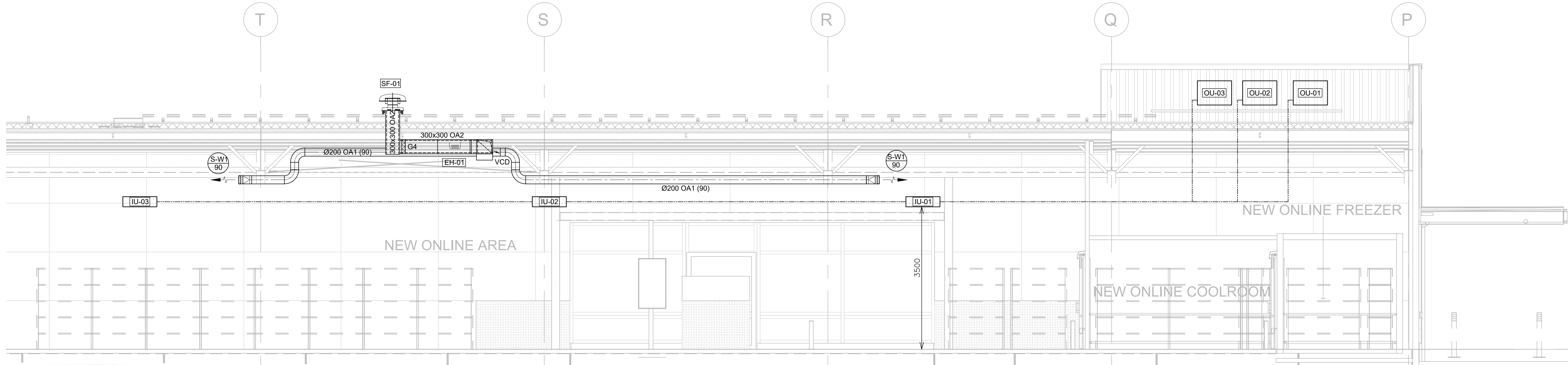
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CHECKED	K.L.	29/11/23
DISCIPLINE	MECHANICAL SERVICES	

PROJECT	223435
DRAWING	M-120
SCALE (A1)	1:150
REVISION	C

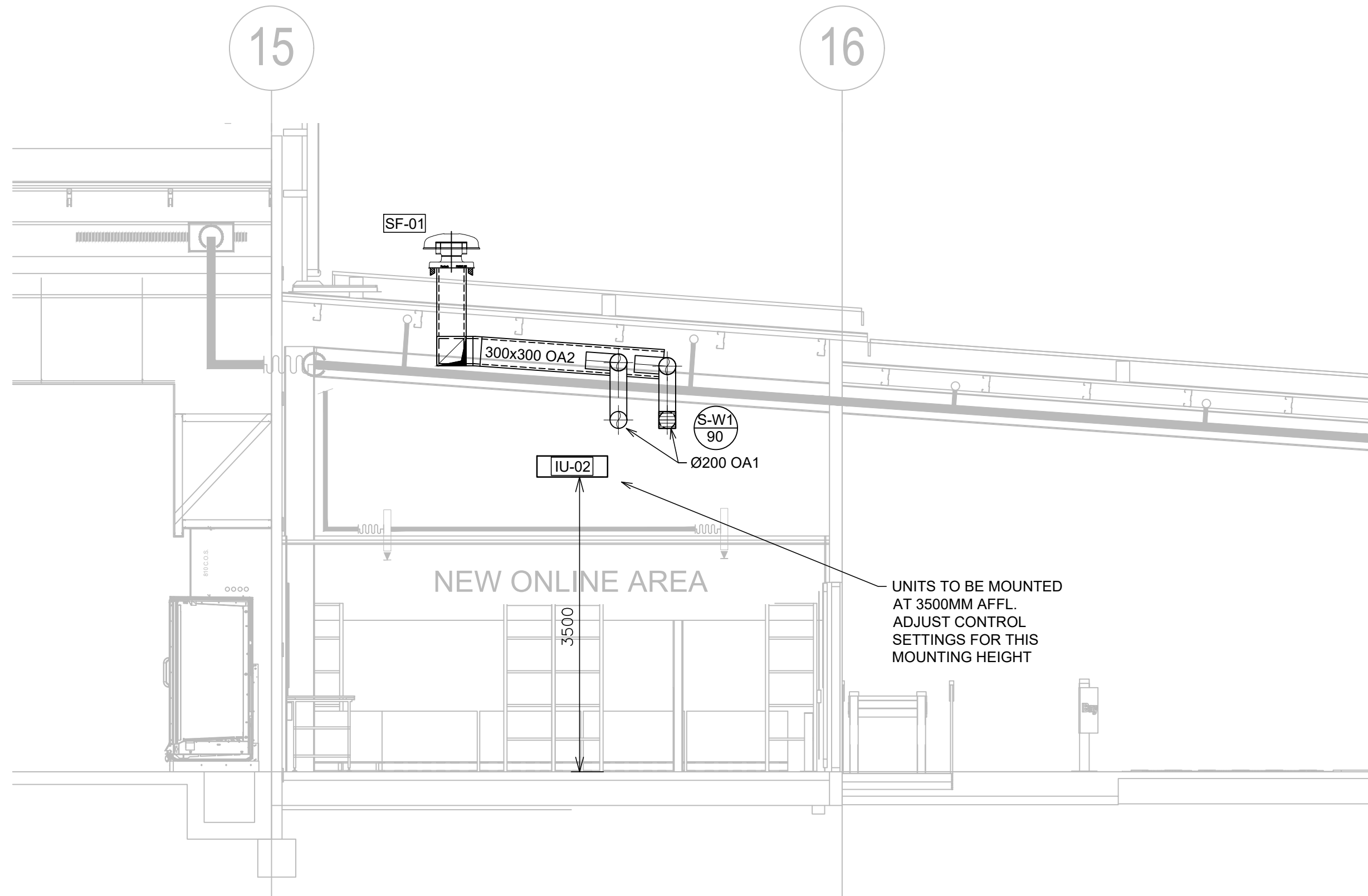
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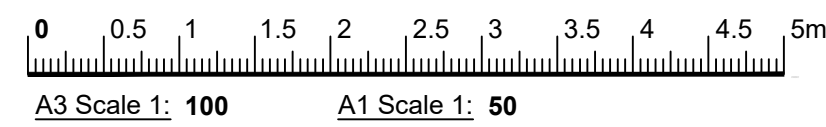
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A SECTION
M-101



B SECTION
M-101



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	A	60% DETAILED DESIGN	N.K.	K.M.	30/11/23							DRAWN	K.M.	29/11/23	DRAWING M-600	
	B	95% DETAILED DESIGN	C.D.	K.M.	08/12/23							CHECKED	K.L.	29/11/23	DISCIPLINE MECHANICAL SERVICES	
	C	CONSENT / TENDER	C.D.	K.M.	15/12/23										SCALE (A1) 1:50	REVISION C
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