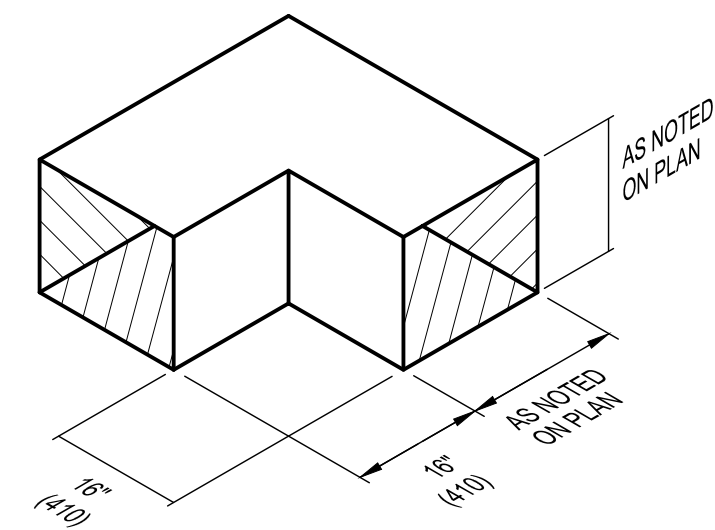
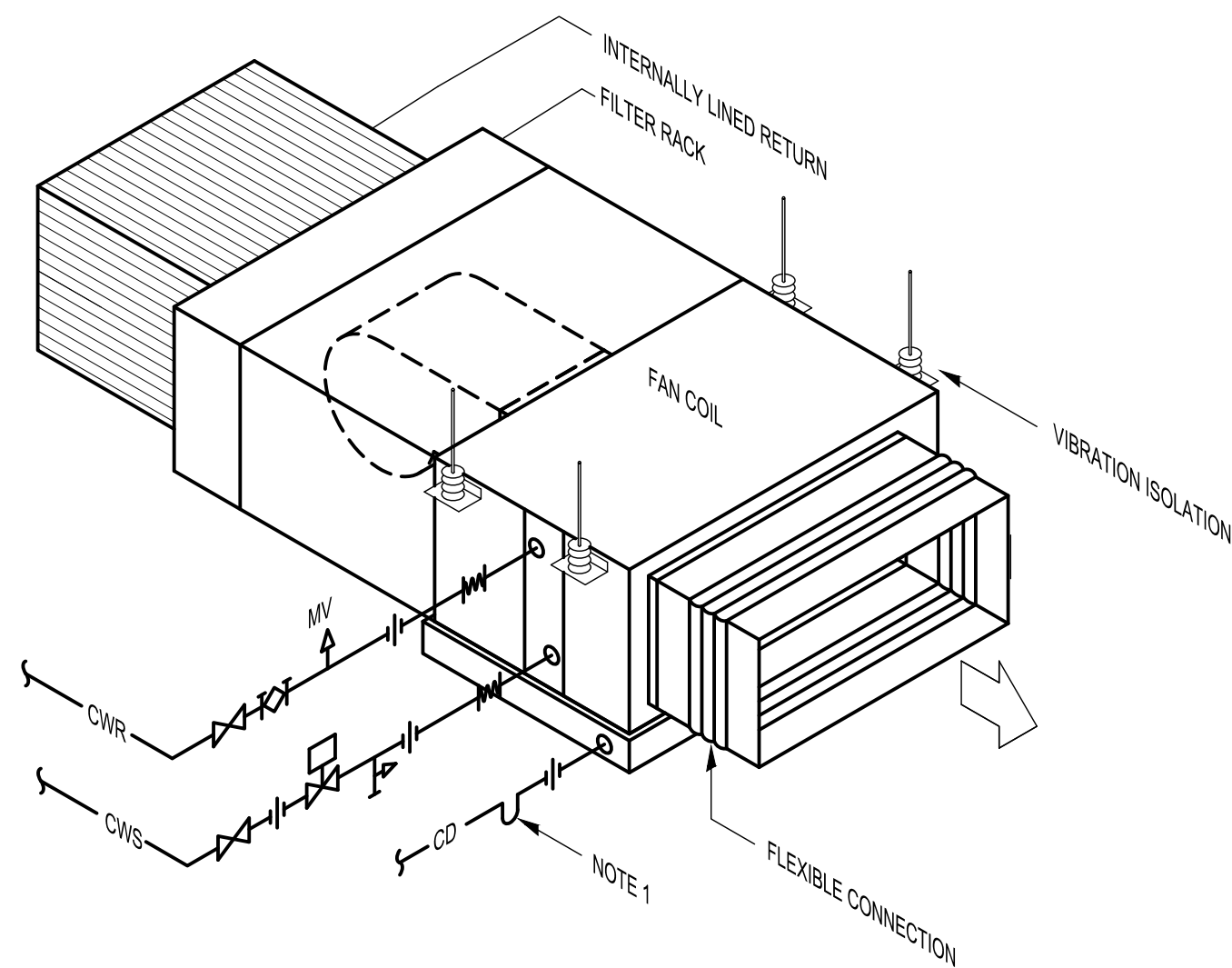


TYPICAL RUNOUT TO HIGH INDUCTION DIFFUSER
N.T.S.



TRANSFER DUCT DETAIL
N.T.S.

- NOTE:
1. INTERNALLY LINE DUCTWORK.



FAN COIL INSTALLATION DETAIL
N.T.S.

- NOTES:
1. TRAP IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. ENSURE NO MECHANICAL OR ELECTRICAL SERVICES ARE INSTALLED BELOW FAN COIL UNIT.

MECHANICAL LEGEND					
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
---	DOMESTIC COLD WATER	AV	CAP	BD	BALANCING DAMPER
---	DOMESTIC HOT WATER	AV	AUTOMATIC AIR VENT	FD	FIRE DAMPER
---	DOMESTIC HOT WATER RETURN	AV	MANUAL AIR VENT	FD	OPPOSED BLADE DAMPER - AUTOMATIC OPERATOR
F	FIRE PROTECTION STANDPIPE SYSTEM	FD	FLOOR DRAIN	IF	INLINE FAN
SP	FIRE PROTECTION SPRINKLER SYSTEM	HD	HUB DRAIN	VAR	VARIABLE AIR VOLUME BOX
CD	CONDENSATE DRAIN	FFD	FUNNEL FLOOR DRAIN	WFE	WALL-FIN ENCLOSURE AND ELEMENT
D	INDIRECT DRAIN	PF	BACK FLOW PREVENTOR	SD	SUPPLY DIFFUSER/GRILLE/REGISTER
SAN	SANITARY DRAIN	FL	FLANGES	RD	RETURN GRILLE/REGISTER
ST	STORM DRAIN	CO2	DARBON DIOXIDE SENSOR	EX	EXHAUST GRILLE/REGISTER
CWR	CHILLED WATER RETURN	PS	PRESSURE SENSOR	SD	SUPPLY DIFFUSER - ONE WAY THROW
CWS	CHILLED WATER SUPPLY	FS	FLOW SWITCH	SD	SUPPLY DIFFUSER - TWO WAY THROW
HWR	HOT WATER HEATING RETURN	TH	THERMOSTAT	SD	SUPPLY DIFFUSER - THREE WAY THROW
HWS	HOT WATER HEATING SUPPLY	CS	CONCEALED SPRINKLER HEAD C/W GUARD	VF	VALVE FLOW RATE
NAME(E)	EXISTING PIPING TO REMAIN	US	UPRIGHT SPRINKLER	ME	MECHANICAL EQUIPMENT TAG
NAME(E)	EXISTING PIPING TO BE REMOVED	FE	FIRE EXTINGUISHER - SURFACE MOUNTED	A-1	TYPE ELEMENT LENGTH (INCHES OR MM)
NAME(E)	PIPING BELOW GRADE	RE	FIRE EXTINGUISHER - RECESSED	SS-1	TYPE AIR QUANTITY (L/S)
SV	SHUT OFF VALVE	EX	EXISTING DUCTWORK TO REMAIN - SINGLE LINE	SL-1	TYPE AIR QUANTITY (L/S)
GV	GLOBE VALVE	EX	EXISTING DUCTWORK TO BE REMOVED - SINGLE LINE	SL-1	TYPE AIR QUANTITY (L/S)
CV	CHECK VALVE	NEW	NEW DUCTWORK - SINGLE LINE	VB-1	TYPE AIR TERMINAL EQUIPMENT
TCV	TWO-WAY CONTROL VALVE	EXIST	EXISTING DUCTWORK TO REMAIN	VB	CONSTANT VOLUME BOX
BV	BALL VALVE	EXIST	EXISTING DUCTWORK TO BE REMOVED	VV	VARIABLE VOLUME BOX
FCV	FLOW CONTROL VALVE	NEW	NEW DUCTWORK	VVT	VARIABLE VOLUME & TEMPERATURE BOX
CS	COMBINATION SHUT-OFF & BALANCING VALVE	EXIST	EXISTING DUCTWORK TO REMAIN		
SV	SUPERVISED VALVE	EXIST	EXISTING DUCTWORK TO BE REMOVED		
PG	PRESSURE GAUGE COCK	NEW	NEW DUCTWORK		
DH	DRAIN WITH HOSE CONNECTION	EXIST	EXISTING DUCTWORK TO REMAIN		
UN	UNION	EXIST	EXISTING DUCTWORK TO BE REMOVED		
CO	CLEANOUT IN WALL	NEW	NEW DUCTWORK		
CO	CLEANOUT PLUG	EXIST	EXISTING DUCTWORK TO REMAIN		
CO	CLEANOUT IN FLOOR	EXIST	EXISTING DUCTWORK TO BE REMOVED		
CR	CONCENTRIC REDUCER	NEW	NEW DUCTWORK		
STR	STRAINER	EXIST	EXISTING DUCTWORK TO REMAIN		
FC	FLEXIBLE CONNECTOR	EXIST	EXISTING DUCTWORK TO BE REMOVED		

GRILLES, REGISTERS AND DIFFUSERS						
DRAWING REFERENCE	MANUFACTURER	MODEL	PANEL SIZE (MM)	NECK SIZE (MM)	AIR VOLUME (L/S)	REMARKS
SD-1	KAMPMANN	KASWIRL-ED-DN-600	600x600	250Ø	101-145	HIGH INDUCTION DIFFUSER. SQUARE 600x600 FACE WITH CUSTOM LOW PROFILE SIDE INLET PLENUM THAT IS MAXIMUM 275mm HIGH AND VOLUME DAMPER C/W OPTIONAL WHITE CYLINDERS & WHITE FINISH
SG-1	PRICE	520/F/L/B15	600x300	-	0-500	STEEL CONSTRUCTION, DOUBLE DEFLECTION, CONCEALED FASTENING.
SG-2	PRICE	SDGE/F/A/B15	300x200	-	0 - 200	EXTRUDED ALUMINUM CONSTRUCTION, CURVED FACE DUCT GRILLE, DOUBLE DEFLECTION CORE, CLOSED CELL FOAM GASKET, ALUMINUM FINISH
RG-1	PRICE	530/F/L/A/B12	600x300	450x300	0-500	STEEL CONSTRUCTION, 45° FIXED BLADES, CONCEALED FASTENING, WHITE FINISH.
SL-1	PRICE	SDS100/2/2/B12	-	-	0-65/M	EXTRUDED ALUMINUM CONSTRUCTION, 2 SLOTS, CONCEALED MOUNTING, END CAPS.

NOTES: CO-ORDINATE FRAME SELECTION WITH CEILING TYPE.

MECHANICAL DRAWING LIST	
M101	MECHANICAL LEGEND, SCHEDULES AND DETAILS
M201	LEVE 200 FLOOR PLAN - PLUMBING
M301	LEVEL 200 FLOOR PLAN - FIRE PROTECTION
M401	LEVEL 200 FLOOR PLAN - HEATING
M501	LEVEL 200 FLOOR PLAN - AIR DISTRIBUTION
M601	LEVEL 200 FLOOR PLAN - PLUMBING DEMOLITION
M602	LEVEL 200 FLOOR PLAN - FIRE PROTECTION DEMOLITION
M603	LEVEL 200 FLOOR PLAN - HEATING DEMOLITION
M604	LEVEL 200 FLOOR PLAN - AIR DISTRIBUTION DEMOLITION

2-PIPE FAN COILS (COOLING ONLY)																
DRAWING REFERENCE	MANUFACTURER	SERVICE	MODEL	AIR QUANTITY (L/S)	EXTERNAL PRESSURE DROP (Pa)	COOLING COIL								FAN HP	ELECT.	REMARKS
						FLOW RATE (L/S)	ROW/ FPI	FLUID PD (KPa)	CAPACITY (KW)	EWIT °C	LWT °C	EAT °C DB	EAT °C WB			
FC-401	DAIKIN	IT ROOM	FCH-212	495	65	0.31	4/12	11.7	7.2	8.8	14.4	25	15	2@1/4	120/160	C/W FILTER BOX AND 2" FILTER

VARIABLE VOLUME AIR TERMINAL UNITS								
DRAWING REFERENCE	MANUFACTURER	MODEL	UNIT SIZE	RANGE [l/s]	BOX SIZE [cm]			REMARKS
					LENGTH	WIDTH	HEIGHT	
VB-1	E.H. PRICE	SDV-5000	10	306 - 425	500	300	300	
VB-2	E.H. PRICE	SDV-5000	14	616 - 755	550	600	450	
VB-3	E.H. PRICE	SDV-5000	16	756 - 1600	550	600	450	

HEATING UNITS						
DRAWING REFERENCE	MANUFACTURER	MODEL	DIMENSION (MM)	CAPACITY(W)	ELECTRICAL (V/PH/Hz)	REMARKS
A-1	SIGMA	SWE-24S	600	1200m	-	2 ROW ELEMENT, SLOPED TOP ENCLOSURE
A-2	SIGMA	SWE-24S	600H x WALL TO WALL	-	-	600 HIGH SLOPED TOP ENCLOSURE ONLY (NO ELEMENT)
FF-421	SIGMA	SFF-02	650H x 650L x 225 DEEP	4700	120/160	SEMI-RECESS WALL MOUNTED UNIT

FORCE FLOW HEATER SELECTION BASED ON 15.5°C EAT, 82°C EWT AND 71°C LWT.



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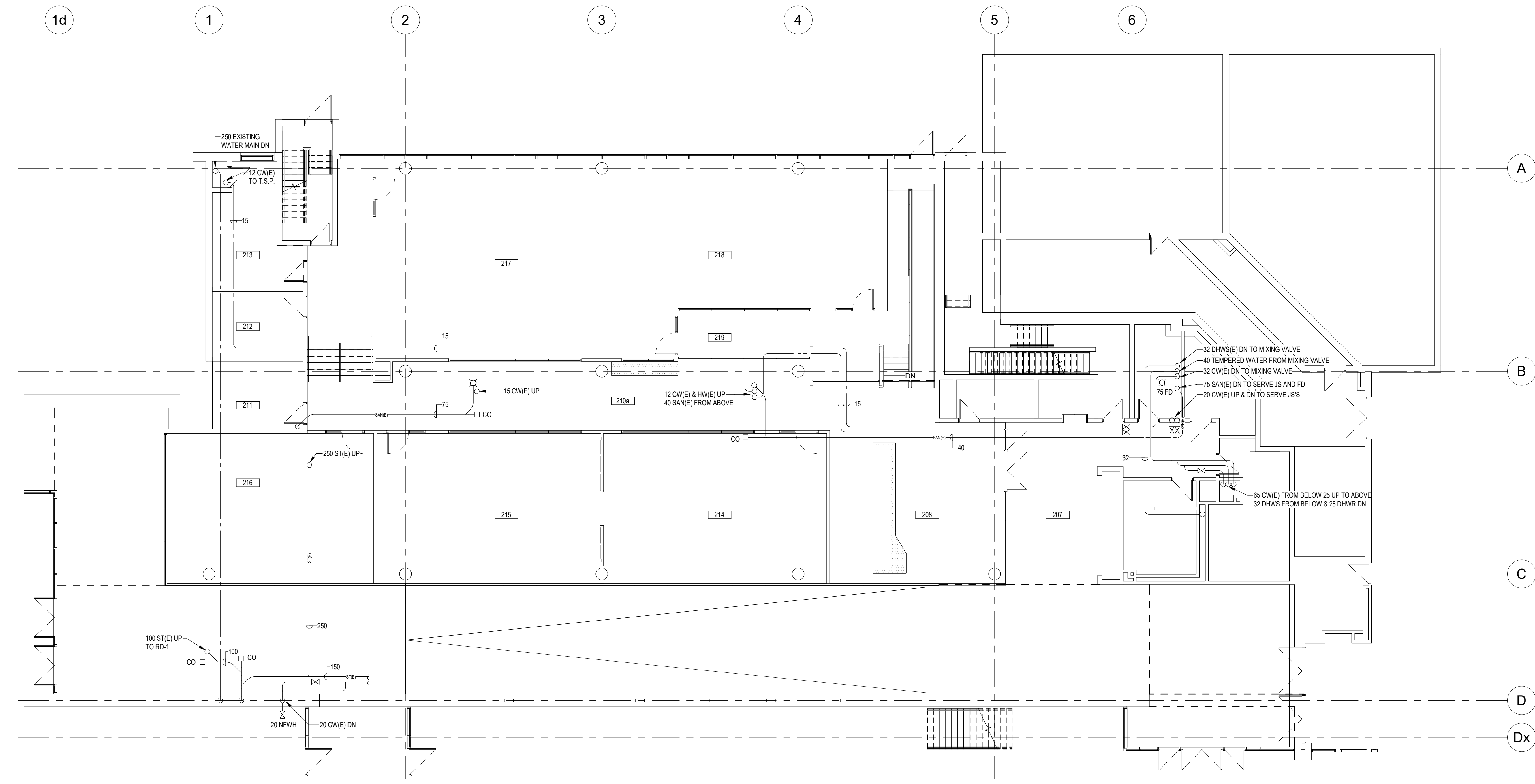
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1	BUILDING PERMIT	2025-03-14

No. ISSUED FOR DATE

DRAWING TITLE:
MECHANICAL LEGEND SCHEDULES AND DETAILS

DRAWN: JHE SCALE: AS NOTED PROJECT NO: 10348
CHECKED: JHE DATE: MARCH, 2025

M101



LEVEL 200 FLOOR PLAN RENOVATION - PLUMBING
SCALE 1:100

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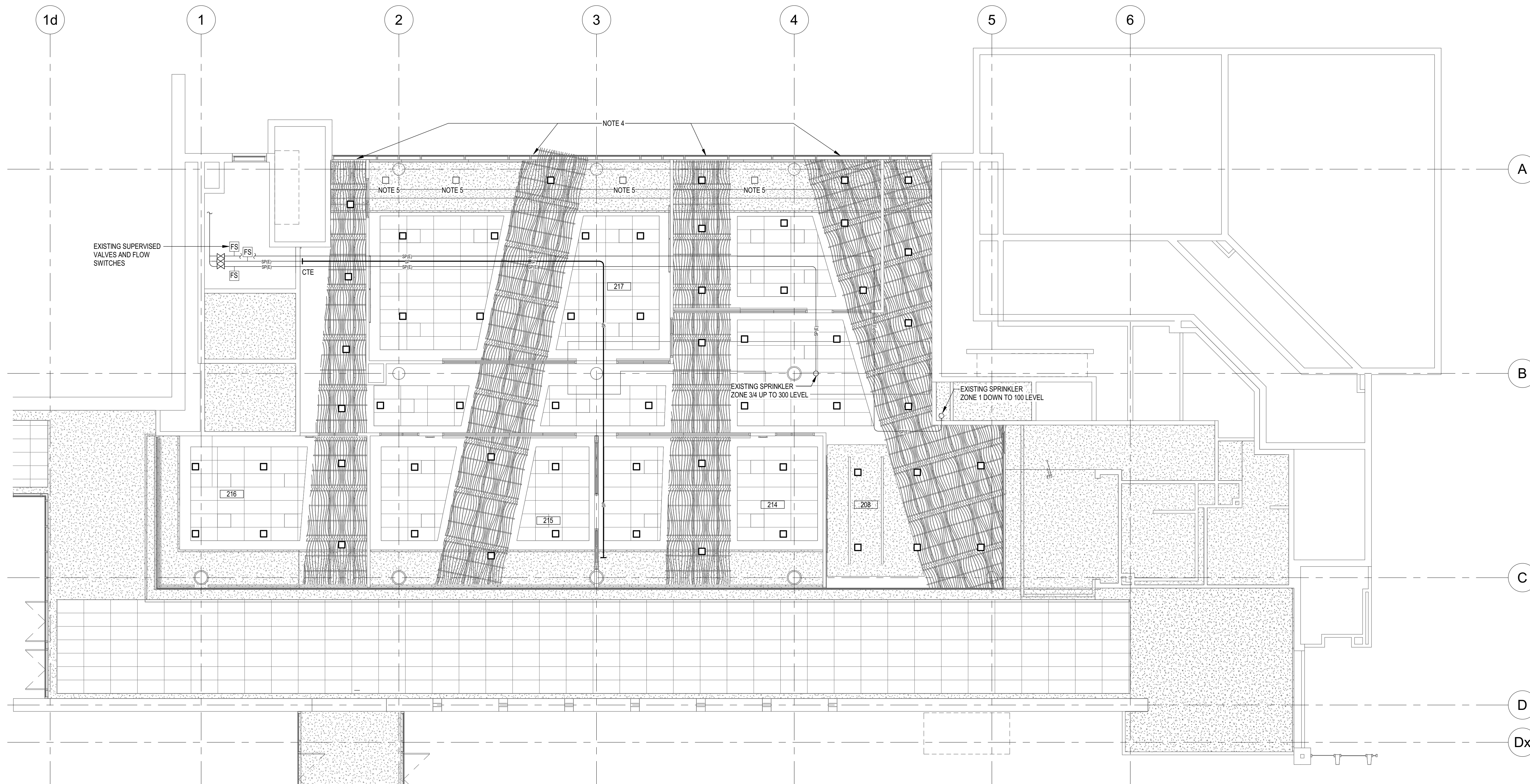
No.	ISSUED FOR	DATE
2	TENDER	2025-03-21
1	BUILDING PERMIT	2025-03-14

DRAWING TITLE:
LEVEL 200 FLOOR PLAN - PLUMBING

DRAWN: TN	SCALE: 1:100	PROJECT NO: 10348
CHECKED: JHE	DATE: MARCH, 2025	

M201

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LEVEL 200 FLOOR PLAN RENOVATION - FIRE PROTECTION
SCALE 1:100

NOTE:

1. CEILINGS ARE NOT CONTINUOUS, AS SHOWN. PROVIDE COMPLETE SPRINKLER COVERAGE BOTH ABOVE AND BELOW SUSPENDED CEILINGS THROUGHOUT THE RENOVATED AREA. NOTE THAT ONLY THE SPRINKLER HEADS LOCATED WITHIN SUSPENDED CEILINGS ARE SHOWN, FOR CLARITY.
2. DEGREASE AND REMOVE ANY CUTTING OILS FROM SPRINKLER PIPING WHERE PIPING IS EXPOSED AND MAKE READY FOR PAINTING BY GENERAL TRADES.
3. PROVIDE SPRINKLER COVERAGE ABOVE AND BELOW DUCTWORK 4'-0" AND WIDER.
4. USE CUSTOM COLOUR CONCEALED HEADS IN DECORATIVE BAFFLE CEILING SECTIONS. REFER TO ARCHITECTURAL CEILING PLANS.
5. EXISTING CONCEALED TYPE SPRINKLER HEADS IN SLOPED DRYWALL CEILING ARE TO REMAIN. CONNECT EXISTING BRANCH PIPES TO NEW SPRINKLER MAIN.



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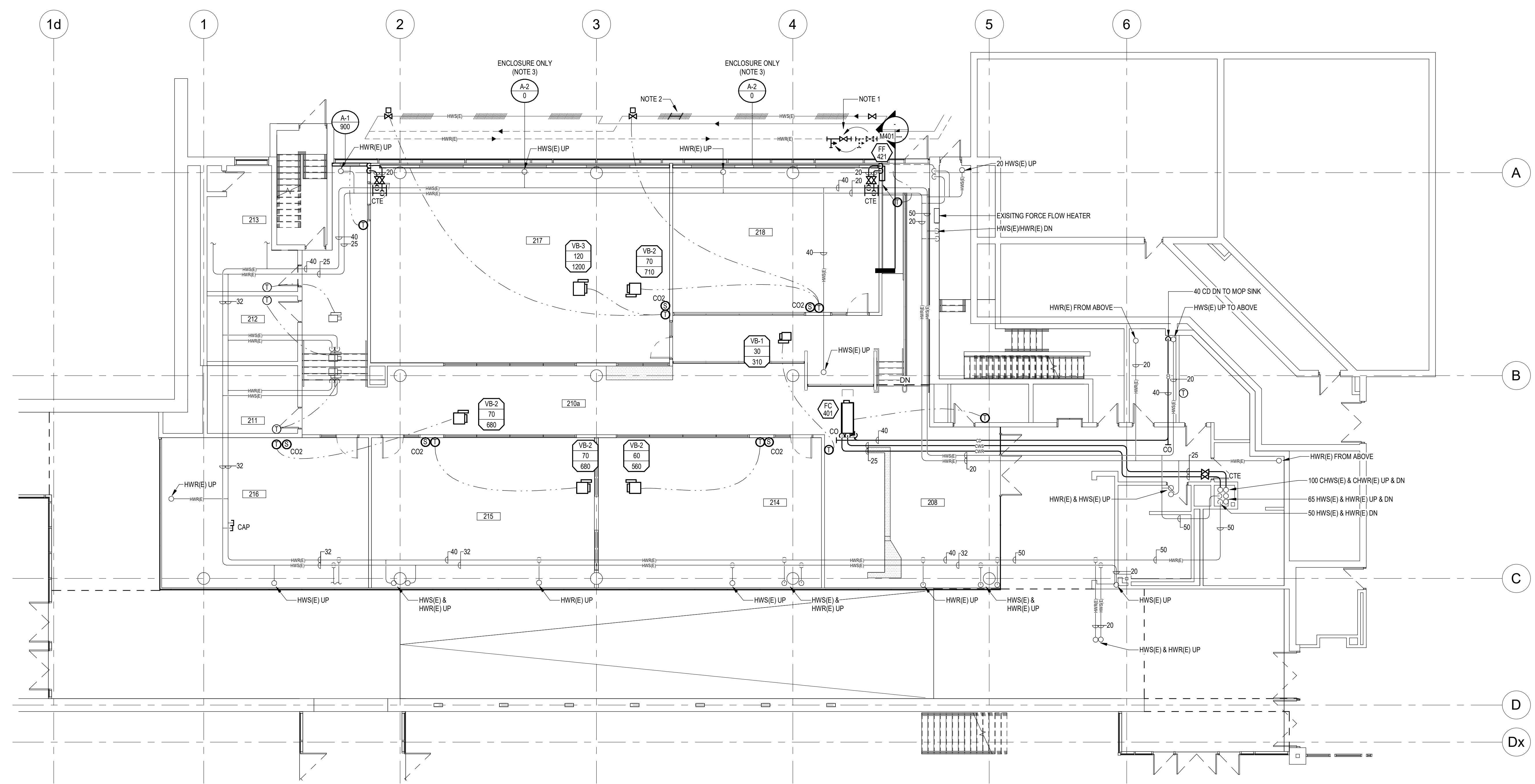
No.	ISSUED FOR	DATE
2	TENDER	2025-03-21
1	BUILDING PERMIT	2025-03-14

DRAWING TITLE:
LEVEL 200 FLOOR PLAN - FIRE PROTECTION

DRAWN:	TN	SCALE:	1:100	PROJECT NO:	10348
CHECKED:	JHE	DATE:	MARCH, 2025		

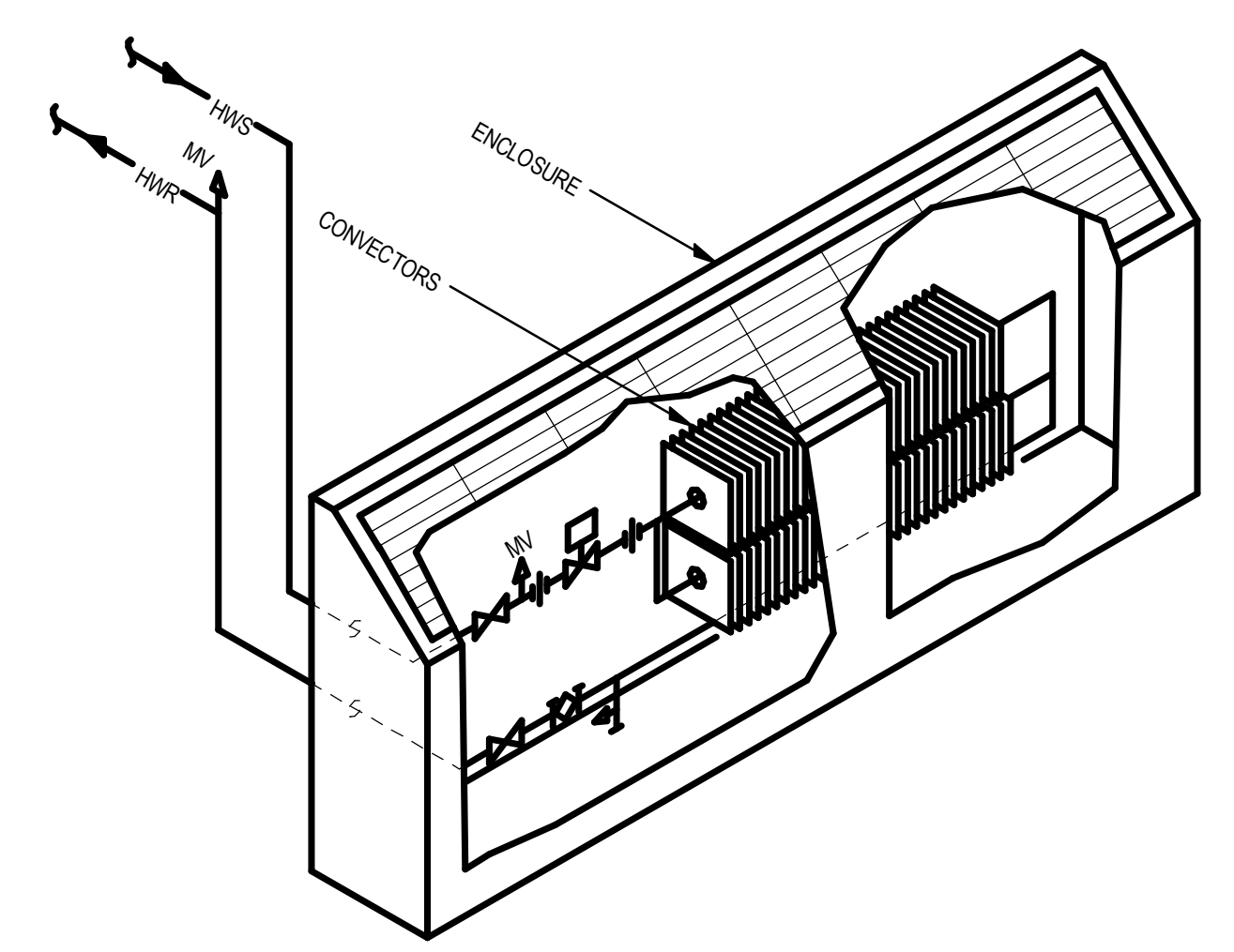
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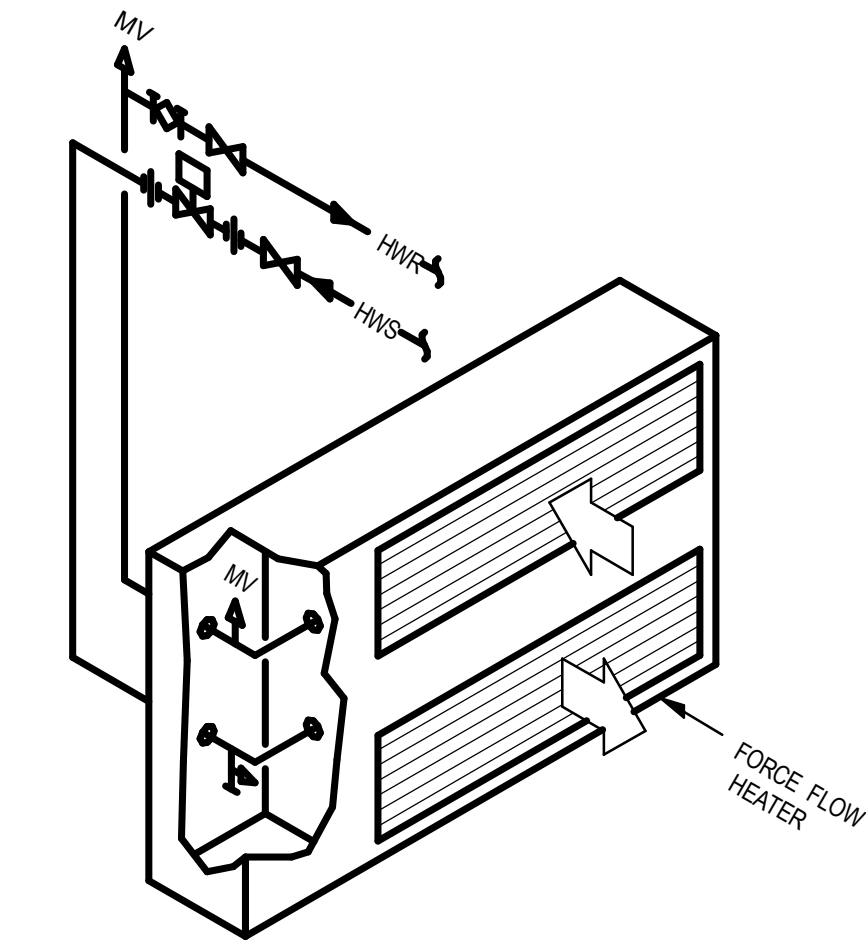


LEVEL 200 FLOOR PLAN RENOVATION - HEATING
SCALE: 1:100

- NOTES:**
1. REPLACE EXISTING VALVE AND DRAIN VALVE AND RELOCATE TO CLEAR NEW PARTITION.
 2. REMOVE PORTION OF FINNED ELEMENT AT NEW PARTITION.
 3. PROVIDE ACCESS DOORS IN NEW ENCLOSURE AT ALL CONTROL VALVES AND ISOLATION/ DRAIN VALVES.



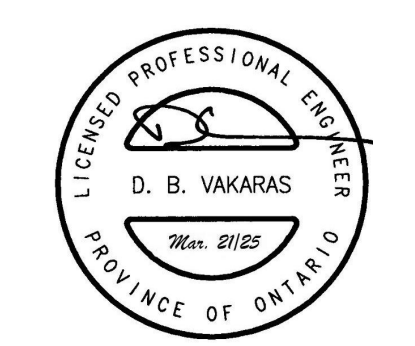
TYPICAL PIPING ARRANGEMENT FOR
CONVECTORS W/ 2 ROWS
N.T.S.



TYPICAL PIPING ARRANGEMENT FOR
FORCE FLOW HEATERS
N.T.S.

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No.	ISSUED FOR	DATE
2	TENDER	2025-03-21
1	BUILDING PERMIT	2025-03-14

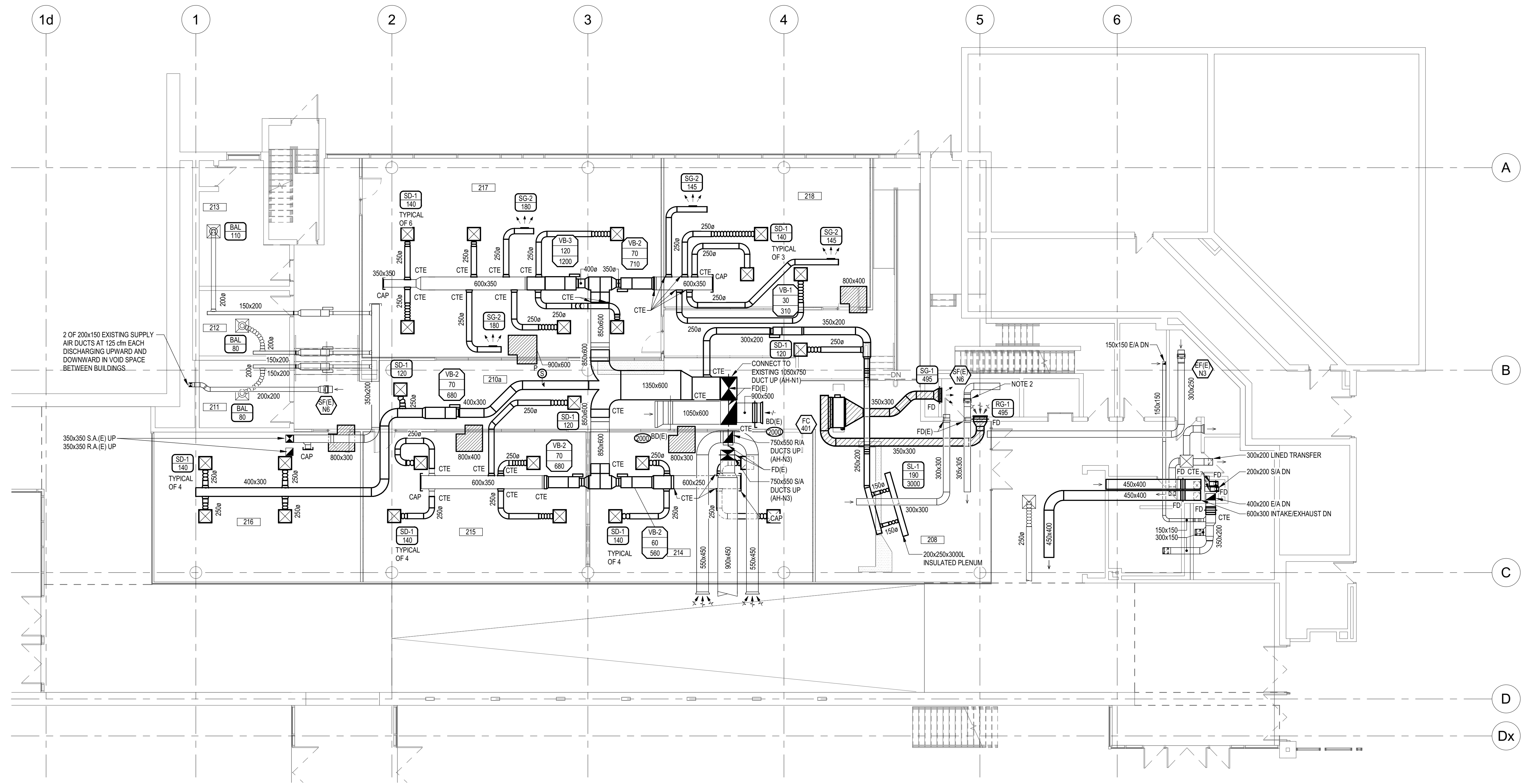
DRAWING TITLE:

**LEVEL 200 FLOOR
PLAN - HEATING**

DRAWN: TN	SCALE: As indicated	PROJECT NO: 10348
CHECKED: JHE	DATE: MARCH, 2025	

M401

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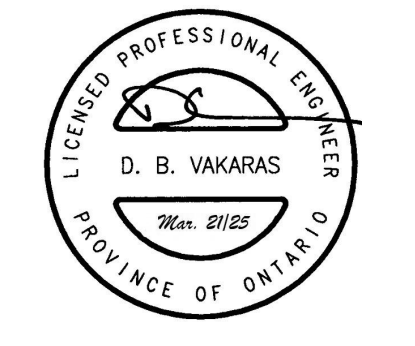
2 OF 200x150 EXISTING SUPPLY AIR DUCTS AT 125 CM EACH DISCHARGING UPWARD AND DOWNWARD IN VOID SPACE BETWEEN BUILDINGS

350x350 S.A.(E) UP
350x350 R.A.(E) UP

LEVEL 200 FLOOR PLAN RENOVATION - AIR DISTRIBUTION
SCALE 1:100

- NOTES:**
- PROVIDE WHITE ALUMINUM JACKETS ON ANY NEW OR EXISTING DUCTWORK THAT IS EXPOSED TO VIEW THROUGH GAPS IN NON-CONTINUOUS CEILINGS. REFER TO HVAC INSULATION SPECIFICATIONS FOR REQUIREMENTS. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS.
 - EXISTING EXHAUST FAN EF-N6 TO REMAIN. THE FAN WILL OPERATE AS THE FIRST STAGE OF COOLING FOR THE I.T. ROOM. REFER TO CONTROLS SPECIFICATIONS.
 - EXISTING AIR SYSTEM AH-N1, LOCATED IN MECHANICAL ROOM ABOVE, WILL BE CONVERTED TO VARIABLE VOLUME OPERATION FROM CONSTANT VOLUME AS PART OF THIS PROJECT. REFER TO CONTROL SPECIFICATIONS FOR DETAILS. VFD(S) FOR AIR SYSTEM FANS BY ELECTRICAL TRADES.
 - BALANCING CONTRACTOR TO BALANCE ENTIRE EXISTING SYSTEM AH-N1. EXPECTED PEAK SUPPLY AIR VOLUME IS 4140 L/S.

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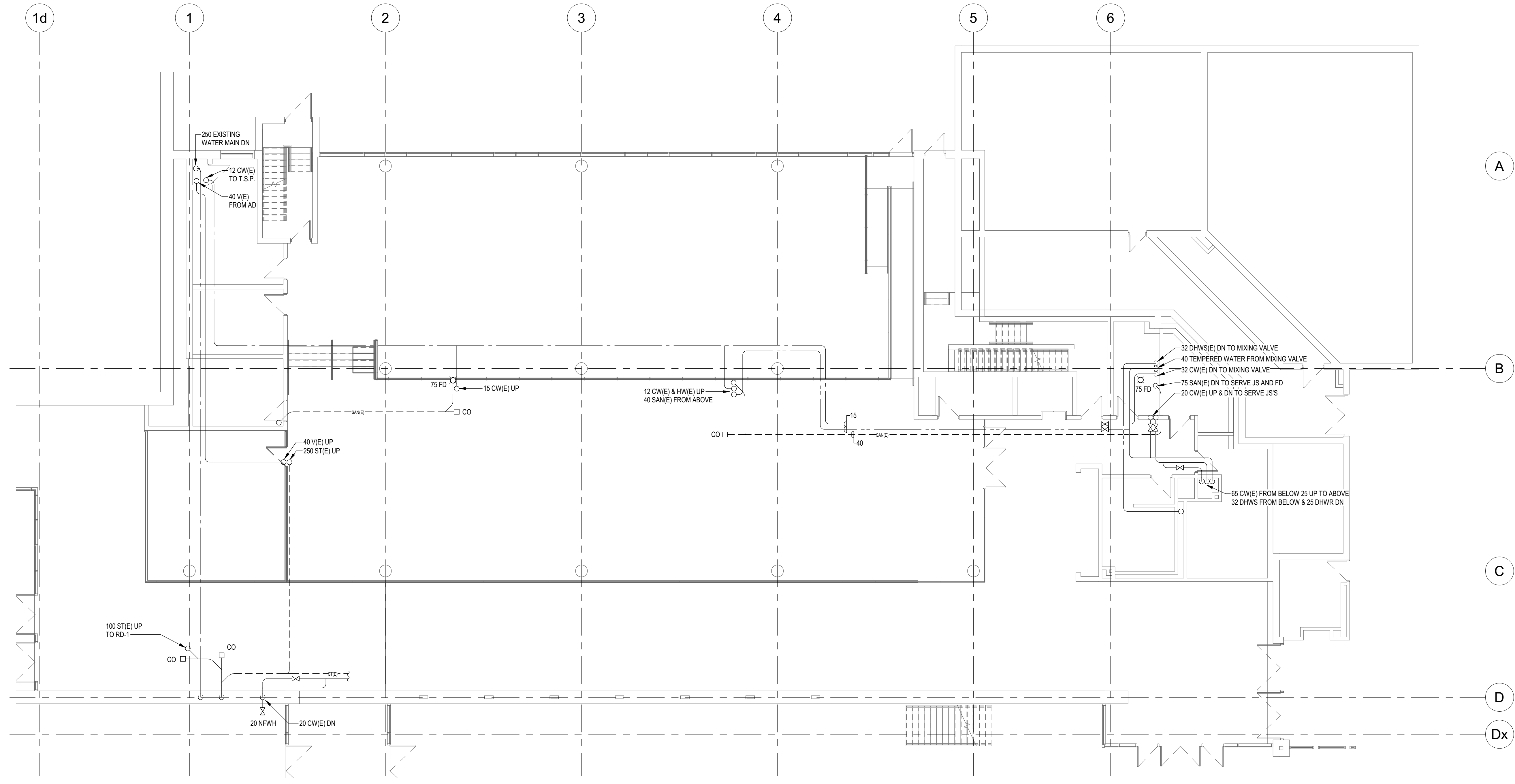
No.	ISSUED FOR	DATE
2	TENDER	2025-03-21
1	BUILDING PERMIT	2025-03-14

LEVEL 200 FLOOR PLAN - AIR DISTRIBUTION

DRAWN:	TN	SCALE:	1:100	PROJECT NO.:	10348
CHECKED:	JHE	DATE:	MARCH, 2025		

M501

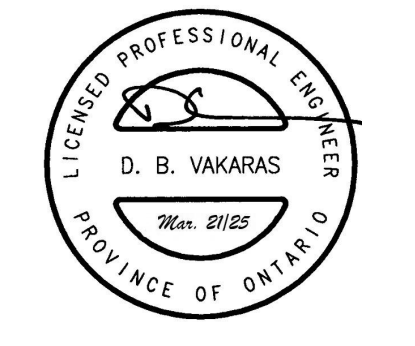
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LEVEL 200 FLOOR PLAN RENOVATION - PLUMBING DEMOLITION
SCALE: 1:100

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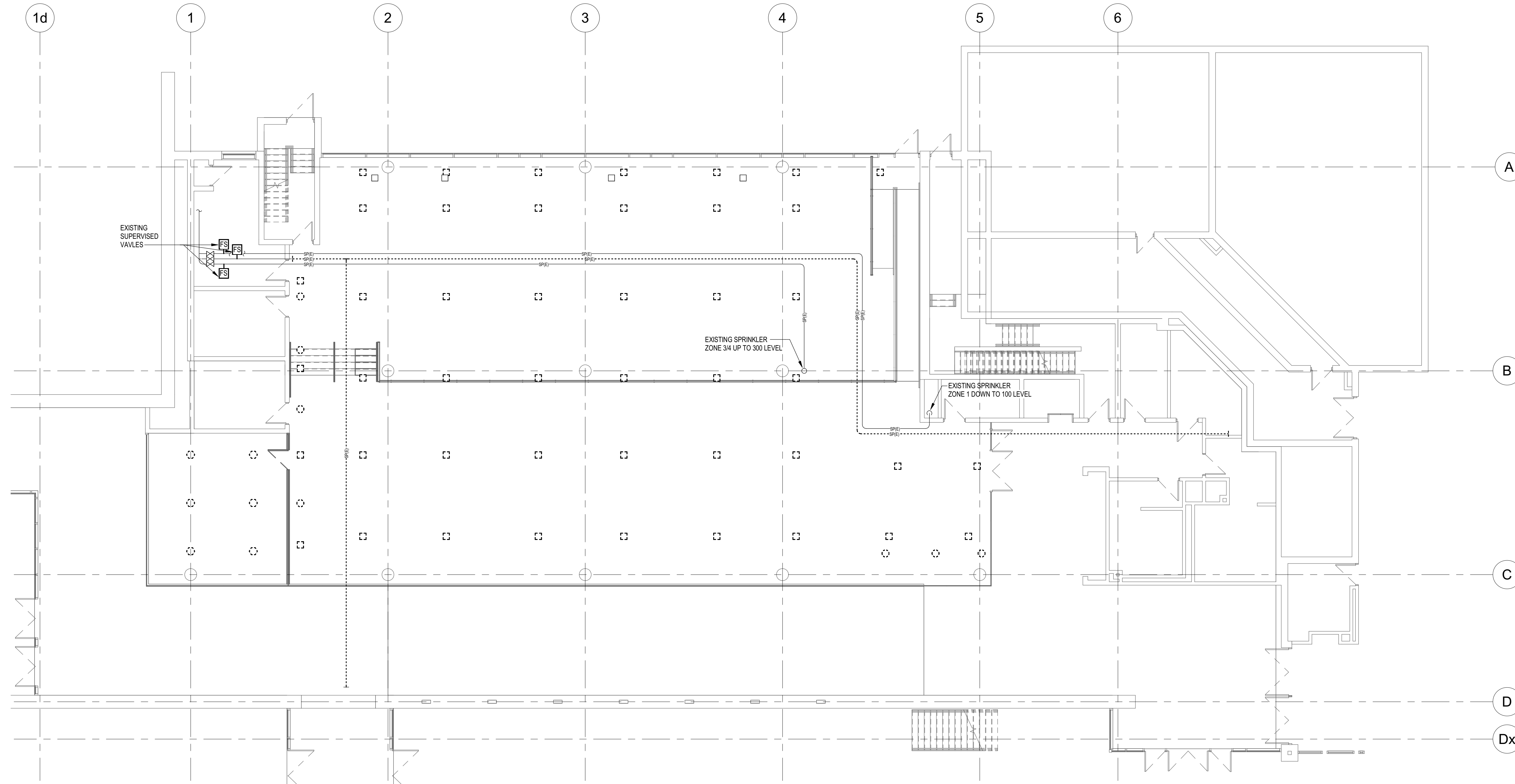
No.	ISSUED FOR	DATE
2	TENDER	2025-03-21
1	BUILDING PERMIT	2025-03-14

DRAWING TITLE:
**LEVEL 200 FLOOR
PLAN - PLUMBING
DEMO**

DRAWN:	TN	SCALE:	1:100	PROJECT NO:	10348
CHECKED:	JHE	DATE:	MARCH, 2025		

M601

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LEVEL 200 FLOOR PLAN RENOVATION - FIRE PROTECTION DEMOLITION
SCALE 1:100



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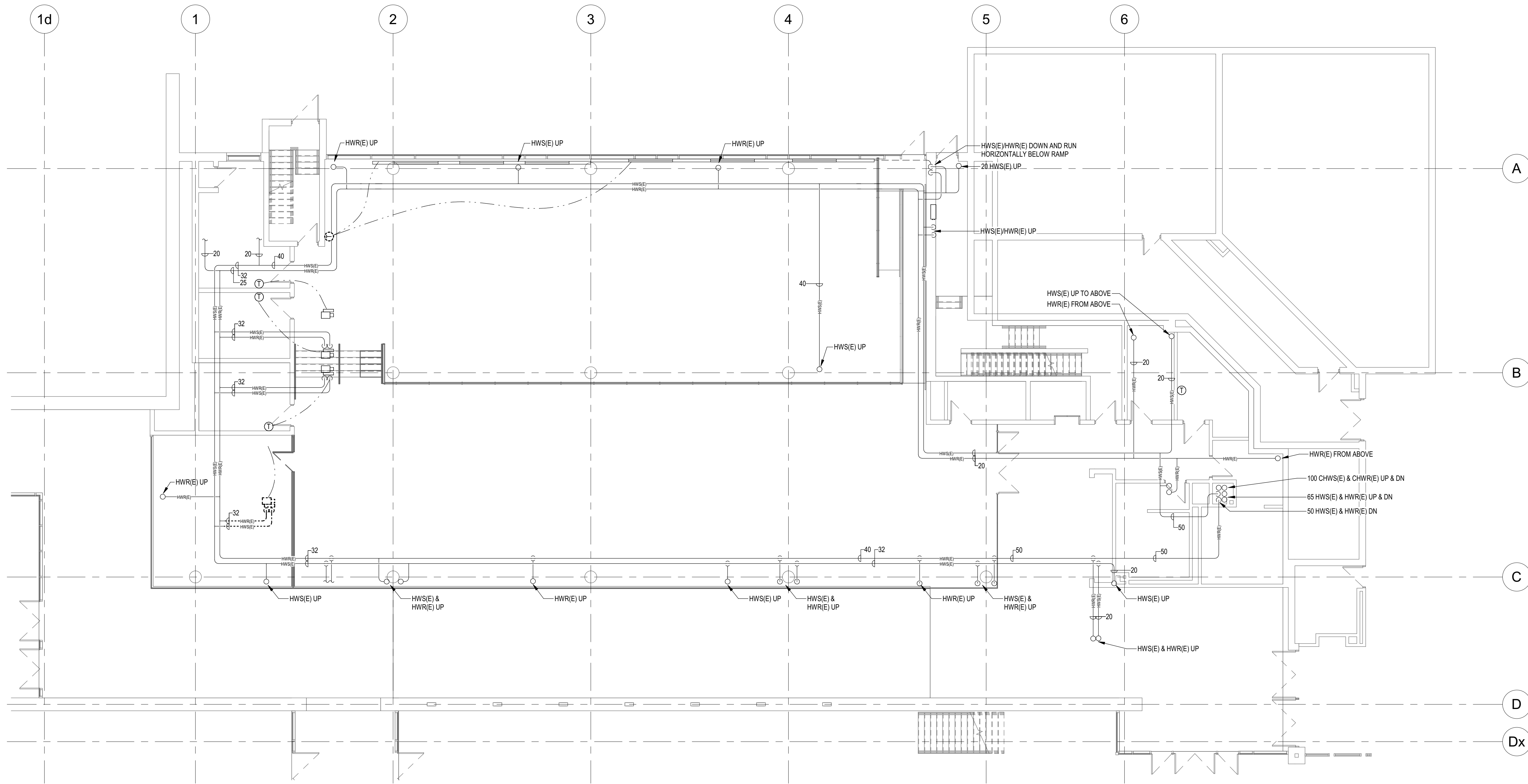
No.	ISSUED FOR	DATE
2	TENDER	2025-03-21
1	BUILDING PERMIT	2025-03-14

DRAWING TITLE:
**LEVEL 200 FL. PLAN -
FIRE PROTECTION
DEMO**

DRAWN:	TN	SCALE:	1:100	PROJECT NO:	10348
CHECKED:	JHE	DATE:	MARCH, 2025		

M602

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LEVEL 200 FLOOR PLAN RENOVATION - HEATING DEMOLITION
SCALE 1:100

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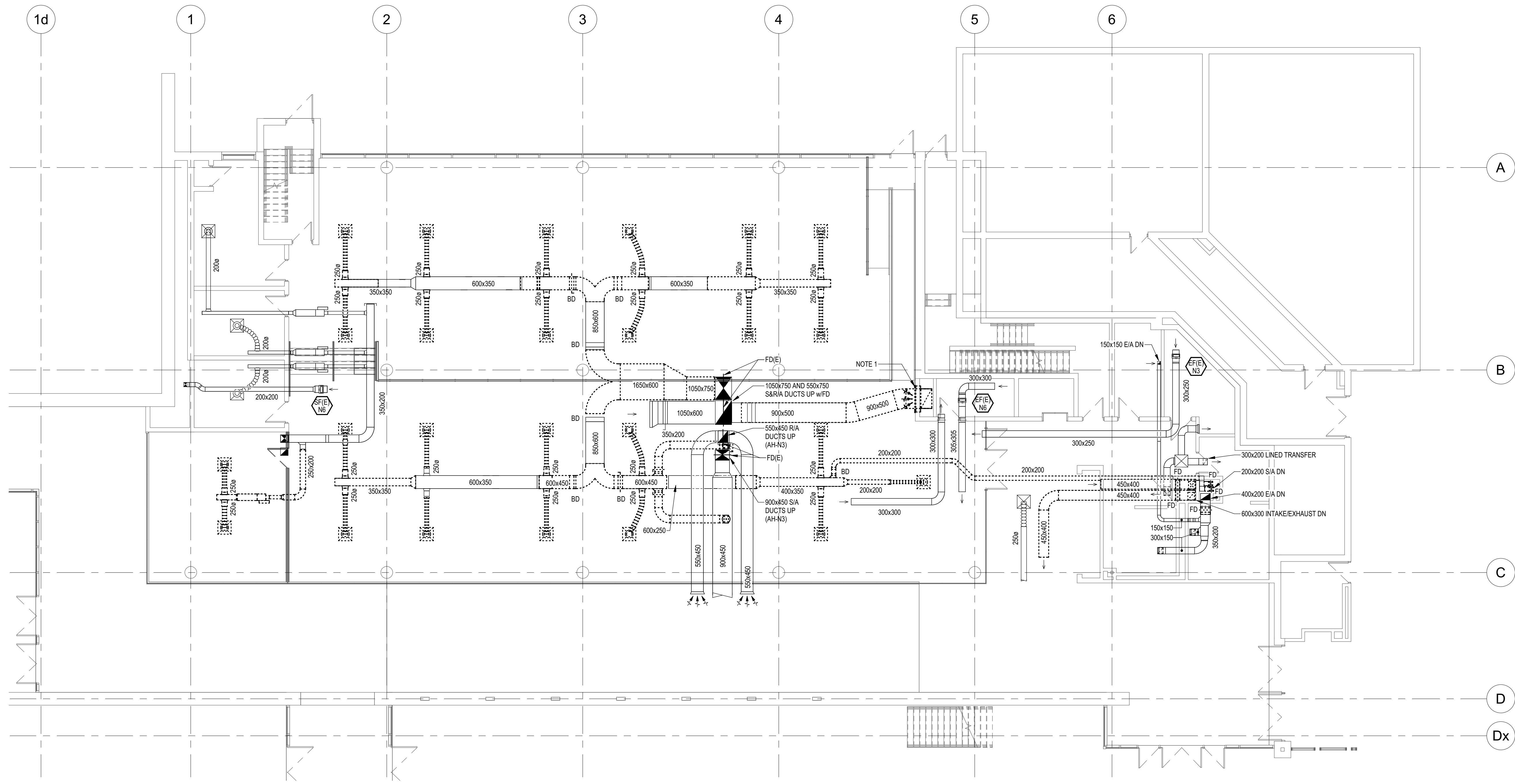
No.	ISSUED FOR	DATE
2	TENDER	2025-03-21
1	BUILDING PERMIT	2025-03-14

DRAWING TITLE:
LEVEL 200 FLOOR PLAN - HEATING DEMO

DRAWN:	TN	SCALE:	1:100	PROJECT NO:	10348
CHECKED:	JHE	DATE:	MARCH, 2025		

M603

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LEVEL 200 FLOOR PLAN RENOVATION - AIR DISTRIBUTION DEMOLITION
SCALE: 1:100

- NOTES:**
- REMOVE EXISTING RETURN GRILLE AT LOW LEVEL. REFER TO ARCHITECTURAL DRAWINGS FOR WALL REPAIR.



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No.	ISSUED FOR	DATE
2	TENDER	2025-03-21
1	BUILDING PERMIT	2025-03-14

DRAWING TITLE:
**LEVEL 200 FL. PLAN -
AIR DISTRIBUTION
DEMO**

DRAWN:	TN	SCALE:	1:100	PROJECT NO.:	10348
CHECKED:	JHE	DATE:	MARCH, 2025		

M604

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