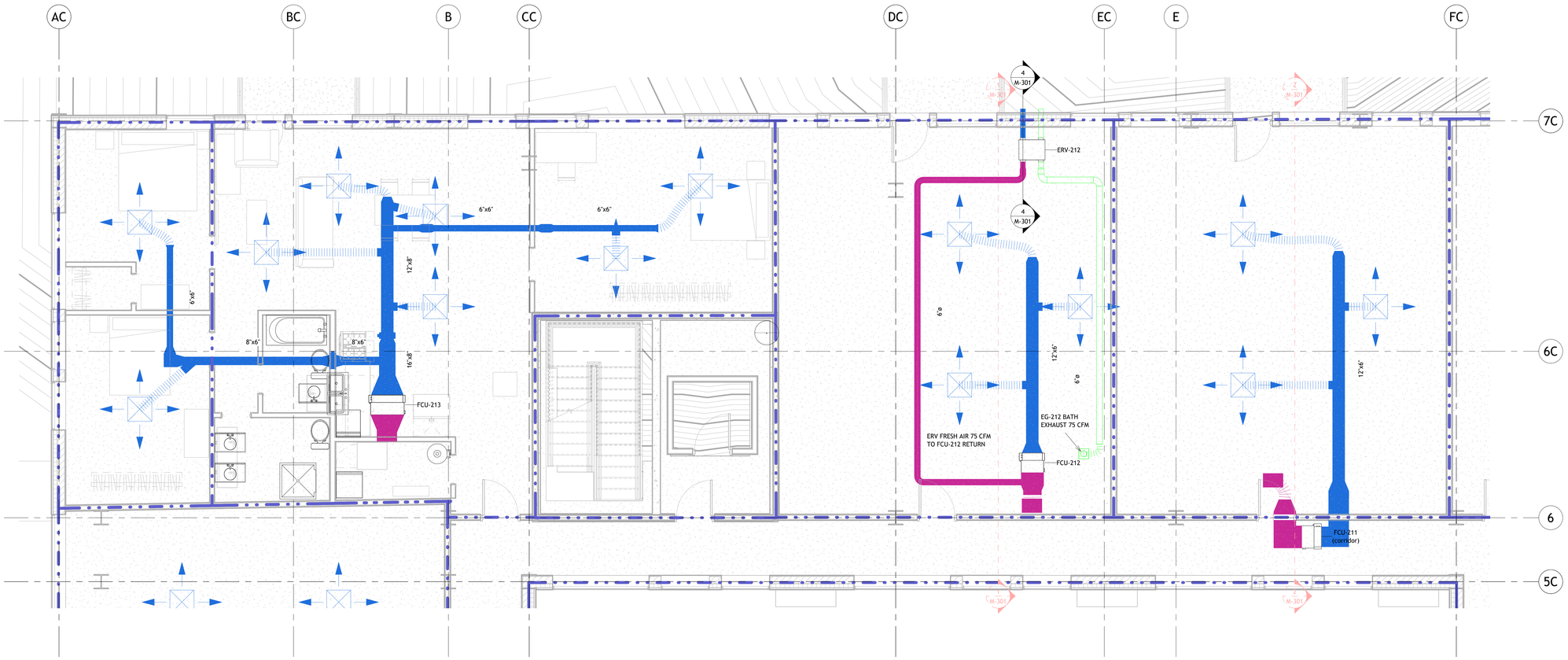
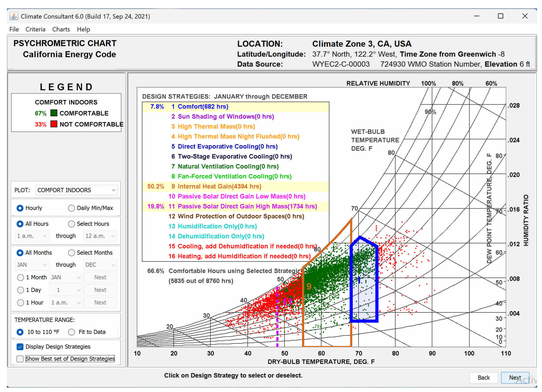
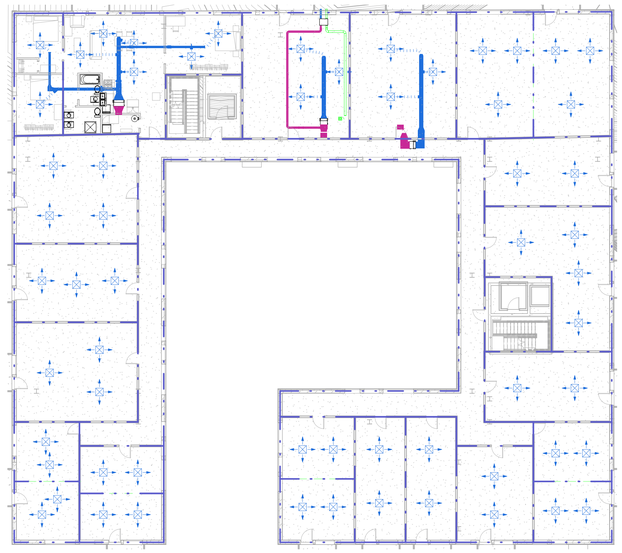


1 L02 - Units 211-213 Ductwork (Enlarged)
1/4" = 1'-0"

MECHANICAL STRATEGY (NOV 14, 2026)
SITE: 1070 OAK ST, SAN FRANCISCO - CA CLIMATE ZONE 3, MILD, HEATING-DOMINATED.
PASSIVE: COMFORT + INTERNAL GAINS + HIGH-MASS DIRECT SOLAR COVER 67% OF HOURS (CLIMATE CONSULTANT); MIXED-MODE VENTILATION.
ACTIVE: ONE DUCTED DX HEAT PUMP FAN COIL PER UNIT IN THE CEILING PLENUM, AIR-COOLED CONDENSER ON ROOF.
STANDARD UNITS = 1 ZONE (212). CORNER UNITS = 2 ZONES BY ORIENTATION WITH AUTOMATIC CONTROL DAMPERS (213).
CORRIDORS: UNCONDITIONED - NO HEATING OR COOLING AND NO SUPPLY DIFFUSERS; CODE CORRIDOR VENTILATION NOT MODELED.
ALTERNATIVE (211): FAN COIL IN CORRIDOR DROP CEILING - 2 RATED-WALL CROSSINGS WITH FIRE/SMOKE DAMPERS,
CORRIDOR CEILING DROPS TO 8'-0". BASE CASE (212) SELECTED.
OPTIONAL ERV-212: 75 CFM OA VIA TWO 5" FACADE DUCTS THROUGH THE WEB OF THE W18 EDGE GIRDER;
FRESH AIR DUCTED TO FCU-212 RETURN (216 CFM RETURN = 75 CFM OA + 291 CFM). 75 CFM BATH EXHAUST (EG-212) BACK TO ERV.
DUCTS SIZED AT 0.08 IN. W.G./100 FT AND 700 FPM MAX; FLEX RUNOUTS 8x8 TO 24x24 DIFFUSERS.
LOADS: REVIT SYSTEMS ANALYSIS (HVAC SYSTEMS LOADS AND SIZING), NAS ALAMEDA WEATHER.
AIR TRANSPORT MODELED FOR UNITS 212, 213 AND ALTERNATIVE 211; OTHER UNITS SHOW TERMINALS FOR AIRFLOW.



CLIMATE CONSULTANT 6.0, CA CLIMATE ZONE 3 (ZIP 94117):
COMFORT + INTERNAL HEAT GAIN + HIGH-MASS PASSIVE SOLAR
= 66.6% OF HOURS COMFORTABLE; HEATING 30.1%, COOLING 0.1%.



2 L02 MECHANICAL KEY PLAN - ALL UNITS
1/16" = 1'-0"

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CEE 120A/220A
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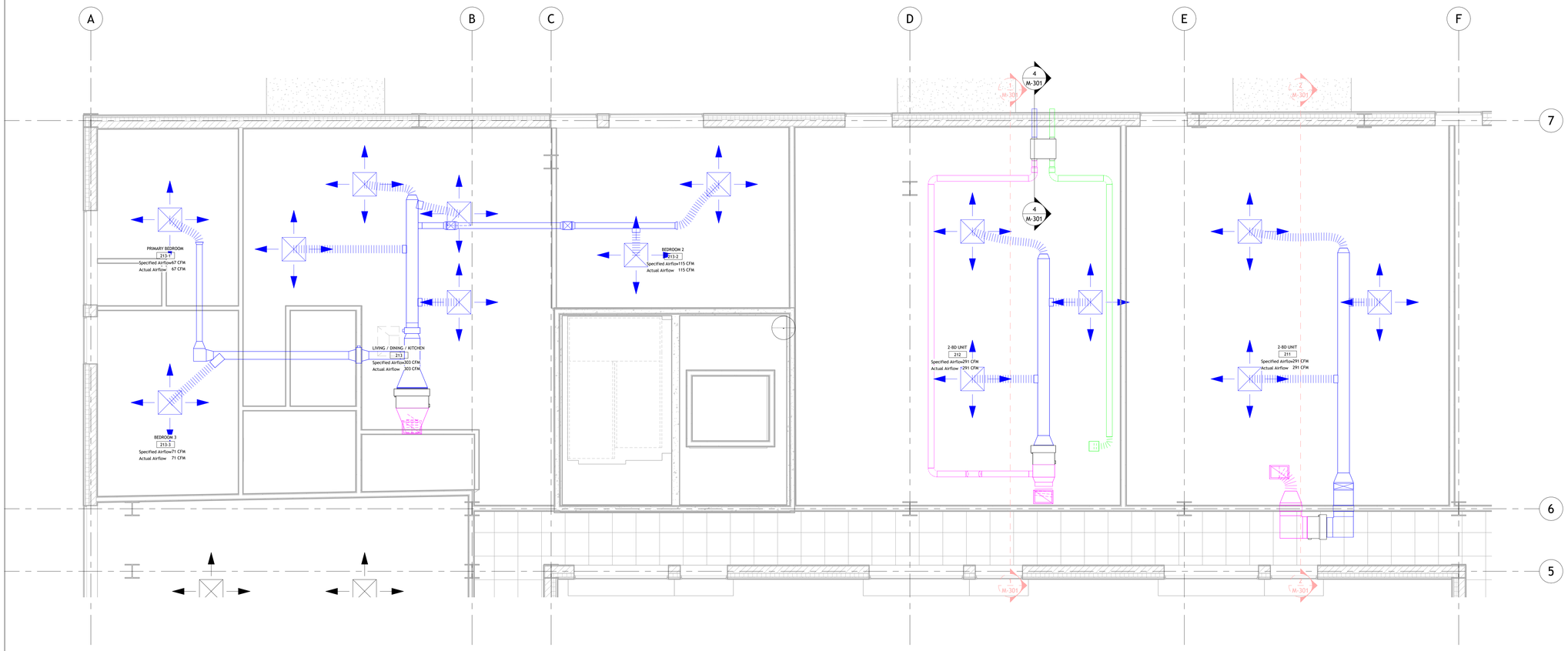
L02 DUCTWORK PLAN

Project Number	M7
Date	11/14/2026
Drawn By	SDM
Checked By	SDM

M-101

Scale As indicated

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1 L02 - Units 211-213 RCP (Enlarged)
1/4" = 1'-0"

MECHANICAL SPACE SCHEDULE - L02

NUMBER	NAME	SPACE TYPE	CONDITION TYPE	AREA	NUMBER OF PEOPLE	SPECIFIED SUPPLY AIRFLOW	ACTUAL SUPPLY AIRFLOW	AIRFLOW PER TERMINAL	NUMBER OF TERMINALS REQUIRED	ADDITIONAL AIRFLOW NEEDED
200-SW	1-BD UNIT	MF Dwelling - 1BD (2 occ)	Heated and cooled	247 SF	1.0	101 CFM	101 CFM	100 CFM	2	0 CFM
200-W	1-BD UNIT	MF Dwelling - 1BD (2 occ)	Heated and cooled	247 SF	1.0	101 CFM	101 CFM	100 CFM	2	0 CFM
201-E	1-BD UNIT	MF Dwelling - 1BD (2 occ)	Heated and cooled	257 SF	1.0	101 CFM	101 CFM	100 CFM	2	0 CFM
201-SE	1-BD UNIT	MF Dwelling - 1BD (2 occ)	Heated and cooled	257 SF	1.0	101 CFM	101 CFM	100 CFM	2	0 CFM
202-SW	1-BD UNIT	MF Dwelling - 1BD (2 occ)	Heated and cooled	297 SF	1.0	115 CFM	115 CFM	100 CFM	2	0 CFM
202-W	1-BD UNIT	MF Dwelling - 1BD (2 occ)	Heated and cooled	297 SF	1.0	115 CFM	115 CFM	100 CFM	2	0 CFM
203	STUDIO	MF Dwelling - Studio (1 occ)	Heated and cooled	406 SF	1.0	151 CFM	151 CFM	100 CFM	2	0 CFM
204	STUDIO	MF Dwelling - Studio (1 occ)	Heated and cooled	406 SF	1.0	151 CFM	151 CFM	100 CFM	2	0 CFM
205	STUDIO	MF Dwelling - Studio (1 occ)	Heated and cooled	476 SF	1.0	160 CFM	160 CFM	100 CFM	2	0 CFM
206-E	1-BD UNIT	MF Dwelling - 1BD (2 occ)	Heated and cooled	299 SF	1.0	113 CFM	113 CFM	100 CFM	2	0 CFM
206-SE	1-BD UNIT	MF Dwelling - 1BD (2 occ)	Heated and cooled	299 SF	1.0	113 CFM	113 CFM	100 CFM	2	0 CFM
207	1-BD UNIT	MF Dwelling - 1BD (2 occ)	Heated and cooled	576 SF	2.0	198 CFM	198 CFM	100 CFM	2	0 CFM
208	2-BD UNIT	MF Dwelling - 2BD (3 occ)	Heated and cooled	869 SF	3.0	302 CFM	302 CFM	100 CFM	4	0 CFM
209	1-BD UNIT	MF Dwelling - 1BD (2 occ)	Heated and cooled	564 SF	2.0	195 CFM	195 CFM	100 CFM	2	0 CFM
210-N	3-BD UNIT	MF Dwelling - 3BD (4 occ)	Heated and cooled	637 SF	2.0	222 CFM	222 CFM	100 CFM	3	0 CFM
210-NE	3-BD UNIT	MF Dwelling - 3BD (4 occ)	Heated and cooled	630 SF	2.0	220 CFM	220 CFM	100 CFM	3	0 CFM
211	2-BD UNIT	MF Dwelling - 2BD (3 occ)	Heated and cooled	878 SF	3.0	291 CFM	291 CFM	100 CFM	3	0 CFM
212	2-BD UNIT	MF Dwelling - 2BD (3 occ)	Heated and cooled	883 SF	3.0	291 CFM	291 CFM	100 CFM	3	0 CFM
213	LIVING / DINING / KITCHEN	MF Dwelling - 3BD (4 occ)	Heated and cooled	636 SF	1.0	303 CFM	303 CFM	100 CFM	4	0 CFM
213-1	PRIMARY BEDROOM	MF Dwelling - 3BD (4 occ)	Heated and cooled	155 SF	1.0	67 CFM	67 CFM	100 CFM	1	0 CFM
213-2	BEDROOM 2	MF Dwelling - 3BD (4 occ)	Heated and cooled	301 SF	1.0	115 CFM	115 CFM	100 CFM	2	0 CFM
213-3	BEDROOM 3	MF Dwelling - 3BD (4 occ)	Heated and cooled	187 SF	1.0	71 CFM	71 CFM	100 CFM	1	0 CFM
213-4	BATHROOM 1	MF Dwelling - 3BD (4 occ)	Heated and cooled	45 SF	0.0	0 CFM	0 CFM	100 CFM	0	0 CFM
213-5	BATHROOM 2	MF Dwelling - 3BD (4 occ)	Heated and cooled	66 SF	0.0	0 CFM	0 CFM	100 CFM	0	0 CFM
213-6	STORAGE / W/D	MF Dwelling - 3BD (4 occ)	Heated and cooled	45 SF	0.0	0 CFM	0 CFM	100 CFM	0	0 CFM
213-7	CLOSET	MF Dwelling - 3BD (4 occ)	Heated and cooled	20 SF	0.0	0 CFM	0 CFM	100 CFM	0	0 CFM
214	2-BD UNIT	MF Dwelling - 2BD (3 occ)	Heated and cooled	876 SF	3.0	308 CFM	308 CFM	100 CFM	4	0 CFM
215	1-BD UNIT	MF Dwelling - 1BD (2 occ)	Heated and cooled	628 SF	2.0	214 CFM	214 CFM	100 CFM	3	0 CFM
216	2-BD UNIT	MF Dwelling - 2BD (3 occ)	Heated and cooled	801 SF	3.0	268 CFM	268 CFM	100 CFM	3	0 CFM
217	CORRIDOR	Corridor/Transition	Unconditioned	1734 SF	16.1	0 CFM	0 CFM	100 CFM	0	0 CFM
218	STAIR	Stairway	Unconditioned	267 SF	2.5	0 CFM	0 CFM	100 CFM	0	0 CFM
219	STAIR	Stairway	Unconditioned	231 SF	2.1	0 CFM	0 CFM	100 CFM	0	0 CFM
220	ELEVATOR	Electrical/Mechanical	Unconditioned	36 SF	0.1	0 CFM	0 CFM	100 CFM	0	0 CFM
221	ELEVATOR	Electrical/Mechanical	Unconditioned	42 SF	0.1	0 CFM	0 CFM	100 CFM	0	0 CFM
222	MECHANICAL SHAFT	Electrical/Mechanical	Unconditioned	23 SF	0.1	0 CFM	0 CFM	100 CFM	0	0 CFM
Grand total				14619 SF	61.0	4386 CFM	4386 CFM		60	0 CFM

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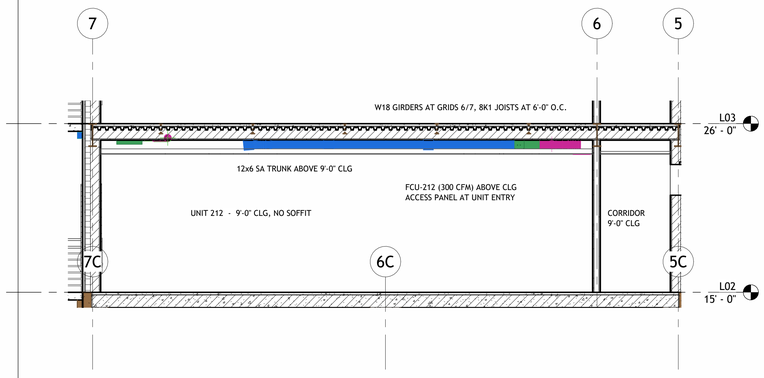
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L02 CEILING PLAN

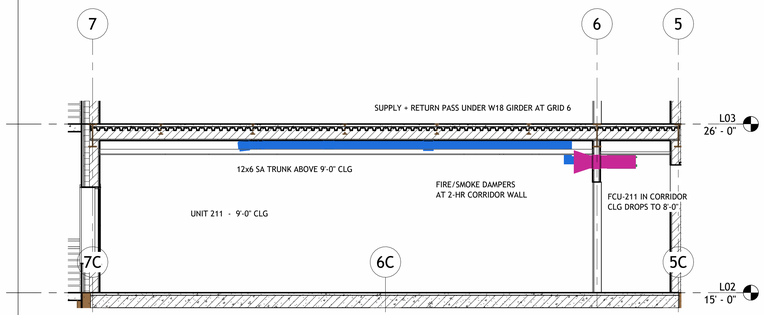
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Date	11/14/2026
Drawn By	SDM
Checked By	SDM
Scale	1/4" = 1'-0"

M-102

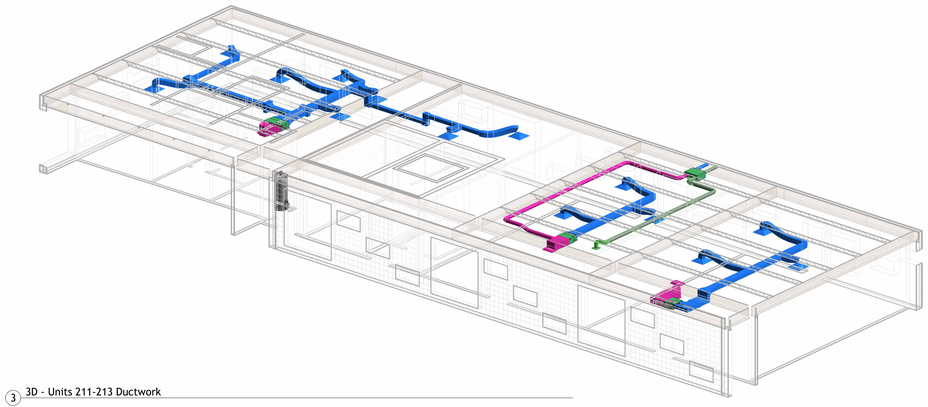
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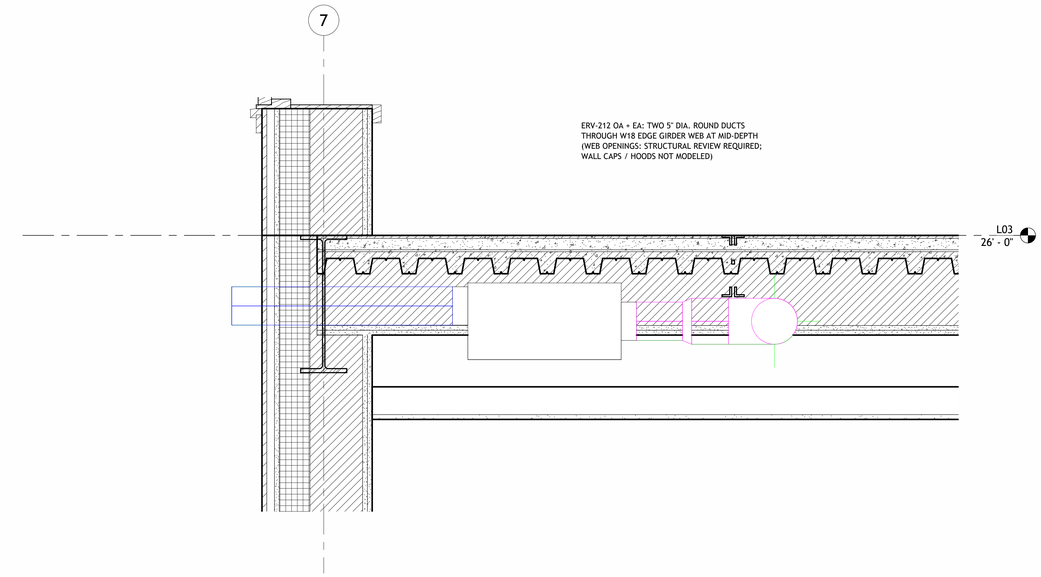
1 Section A - Unit 212 Plenum (In-Unit FCU)
1/4" = 1'-0"



2 Section B - Unit 211 Plenum (Corridor FCU)
1/4" = 1'-0"



3 3D - Units 211-213 Ductwork



4 Section C - ERV-212 Ducts at W18 Girder
1 1/2" = 1'-0"

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PLENUM SECTIONS + 3D

Project Number	M7
Date	11/14/2026
Drawn By	SDM
Checked By	SDM

M-301

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