

\\DESKTOP-RH8PLV2\CAD Projects\2023\2321 TUCKAHOE PUBLIC LIBRARY\2321 H-100 GROUND FLOOR PLAN & SCHEDULES - EXISTING.dwg, 25/7/2023 10:14:04, F.G.

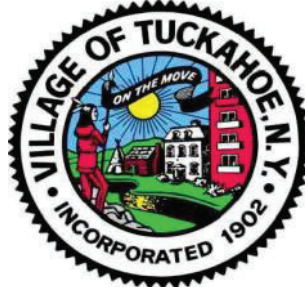
EXISTING AIR BALANCING REPORT (FOR REFERENCE)								
OUTLET			OUTLET			OUTLET		
No.	SIZE	AIR FLOW (CFM)	No.	SIZE	AIR FLOW (CFM)	No.	SIZE	AIR FLOW (CFM)
CD#1	10"	160	SD#1	36"x6"	300	REG#1	8"x58"	500
CD#2	10"	140	SD#2	36"x6"	360	REG#2		725
CD#3	10"	155	SD#3	36"x6"	230	REG#3		405
CD#4	10"	185	SD#4	36"x6"	130	REG#5		495
CD#5	10"	160	SD#5	36"x6"	260	REG#7	11"x17"	5
CD#6	10"	120	SD#6	36"x6"	170	REG#8	8"x29"	140
CD#7	8"	105	SD#7	36"x6"	265	REG#9		170
CD#8	8"	125				REG#10		490
CD#9	8"	125						
CD#10	10"	110						
CD#11	10"	180						
CD#12	10"	190						
CD#13	10"	100						
CD#14	10"	125						
CD#16	10"	120						
CD#17	10"	85						
CD#18	10"	120						
CD#19	10"	150						
CD#20	12"	200						

EXISTING AIR HANDLING UNIT BALANCING REPORT (FOR REFERENCE)		
MANUFACTURER/ MODEL	SOURCE	AIR FLOW (CFM)
-	O.A.	1636
BOHN:HOS114LF	SUPPLY	4920
BOHN:HD112LF	RETURN	3284
-	TOTAL AIR FLOW	4370

HVAC LEGEND	
SYMBOL	DESCRIPTION
	SUPPLY DUCT
	RETURN/EXHAUST DUCT
	EXISTING
	REMOVAL
	NEW
	CONNECT TO EXISTING
	THERMOSTAT
	SWITCH FOR EXHAUST FAN

ABBREVIATIONS	
A.C.	AIR CONDITIONING UNIT
A.D.	ACCESS DOOR
B.D.D.	BACKDRAFT DAMPER
C.D.	CEILING DIFFUSER
C.F.M.	CUBIC FEET PER MINUTE
DN	DOWN
E.A.	EXHAUST AIR
E.C.	ELECTRICAL CONTRACTOR
E.F.	EXHAUST FAN
FX	FLEXIBLE CONNECTION
F.U.	FAN COIL UNIT
G.C.	GENERAL CONTRACTOR
H.C.	HEATING CONTRACTOR
M.D.	MOTORIZED DAMPER
N.T.S.	NOT TO SCALE
O.A.	OUTSIDE AIR
Ø	DIAMETER
P.C.	PLUMBING CONTRACTOR
R.A.	RETURN AIR
REG.	RETURN/EXHAUST REGISTER
S.A.	SUPPLY AIR
S.R.	SUPPLY REGISTER
T	THERMOSTAT
V.A.V.	VARIABLE AIR VOLUME
V.D.	VOLUME DAMPER

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SYMBOLS:	
	EXIST. CONSTRUCTION
	NEW CONSTRUCTION
	DEMOLITION
	CELLULAR PVC & PLASTIC DECKING
	SPRAY FOAM INSUL.
	RIGID INSULATION
	SAND OR CONC. IN ELEVATION
	CONCRETE
	EARTH
	FINISHED WOOD
	GRAVEL/FILL
	GYPSUM WALLBOARD
	PLYWOOD
	ENGINEERED LUMBER
	LUMBER IN SECTION

1	OWNER REVIEW	3.16.23
No.	Revision/Issue	Date

Date: 04.01.2023

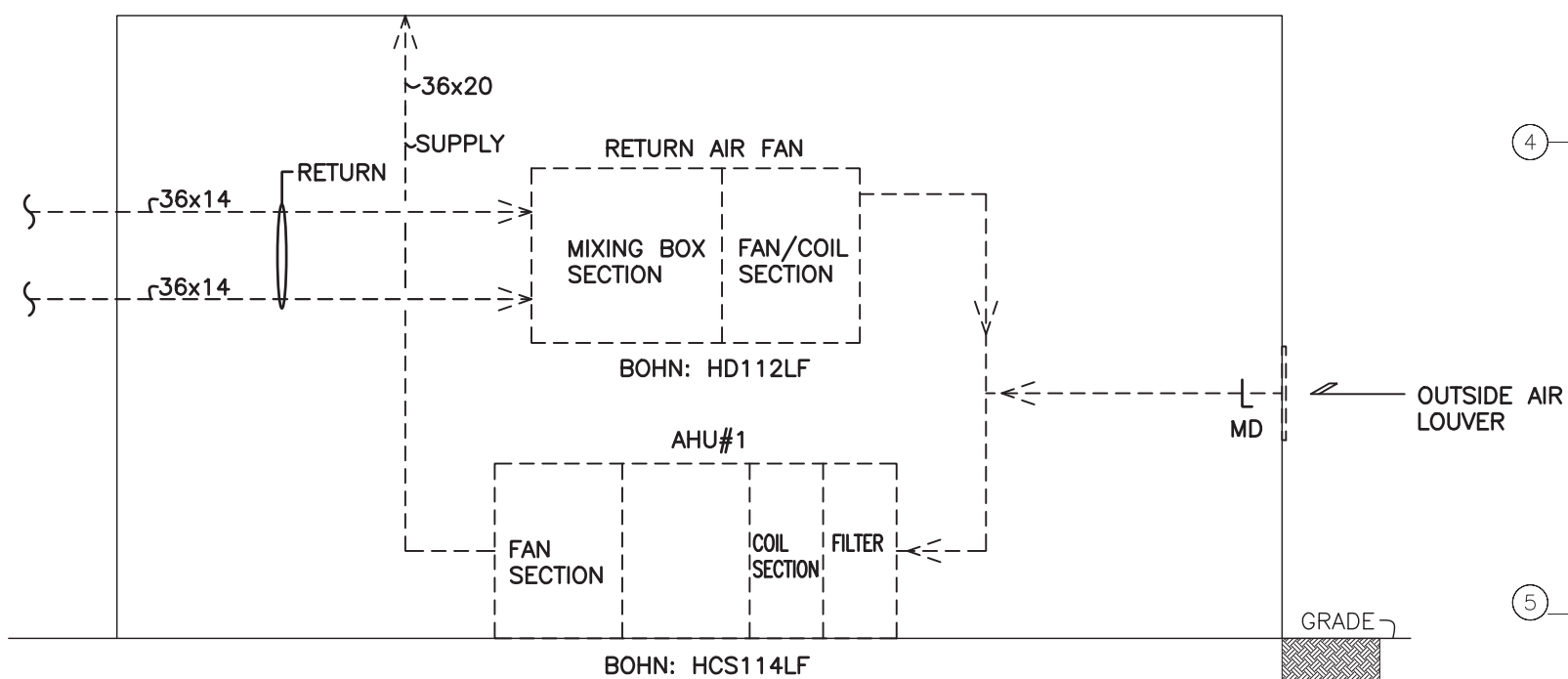
Scale AS NOTED

Title
HVAC-EXISTING
GROUND FLOOR PLAN, SCHEMATIC, SCHEDULES
LEGEND & ABBREVIATIONS

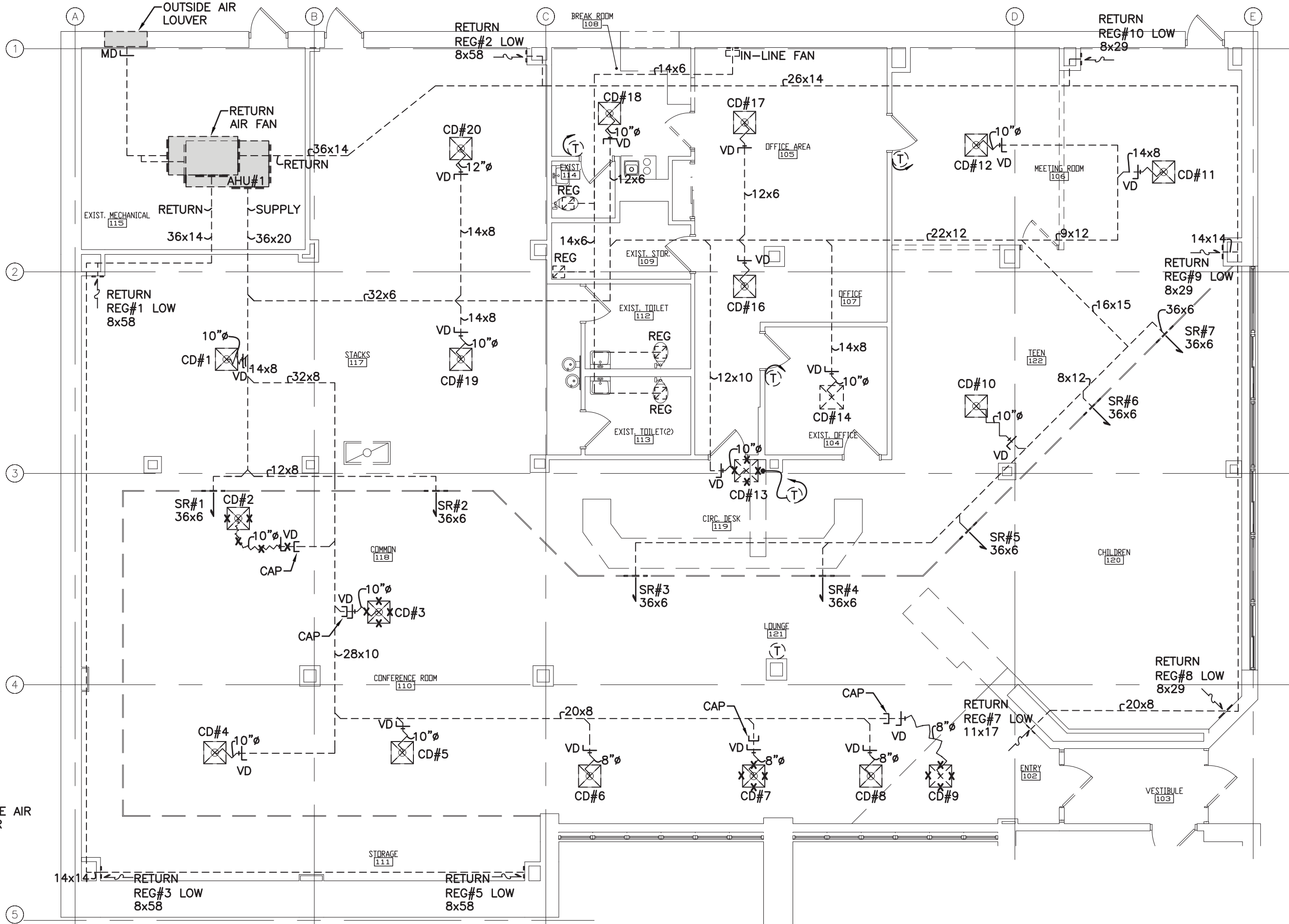
Sheet

H-100

Job No. 2321

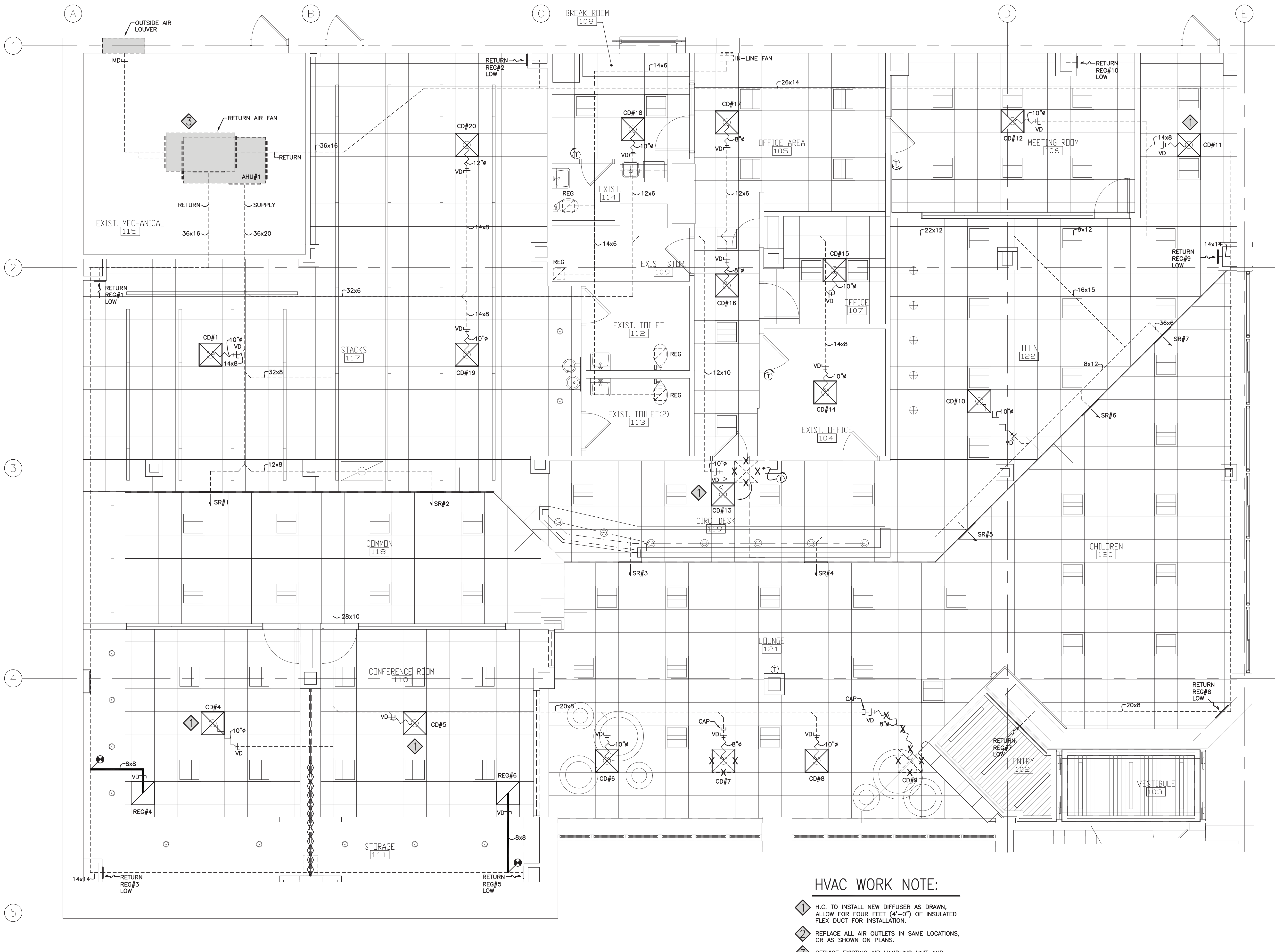


2 AIR HANDLING UNIT SCHEMATIC-HVAC
H-100 NOT TO SCALE



1 GROUND FLOOR PLAN - EXISTING/REMOVAL
H-100 SCALE: 1/8" = 1'-0"

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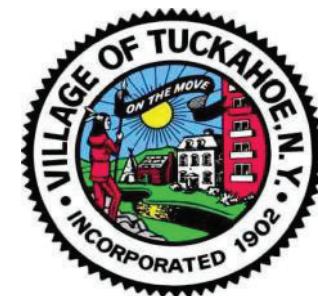
1 GROUND FLOOR PLAN — PROPOSED
H-101 SCALE: 1/4" = 1'-0"



HVAC WORK NOTE:

- 1 H.C. TO INSTALL NEW DIFFUSER AS DRAWN, ALLOW FOR FOUR FEET (4'-0") OF INSULATED FLEX DUCT FOR INSTALLATION.
- 2 REPLACE ALL AIR OUTLETS IN SAME LOCATIONS, OR AS SHOWN ON PLANS.
- 3 SERVICE EXISTING AIR HANDLING UNIT AND RETURN FAN INCLUDING CLEANING COILS, REPLACING BLOWER BELTS, LUBRICATE BEARINGS, CLEAN DRAIN PANS AND CONFIRM OPERATION OF DAMPERS.

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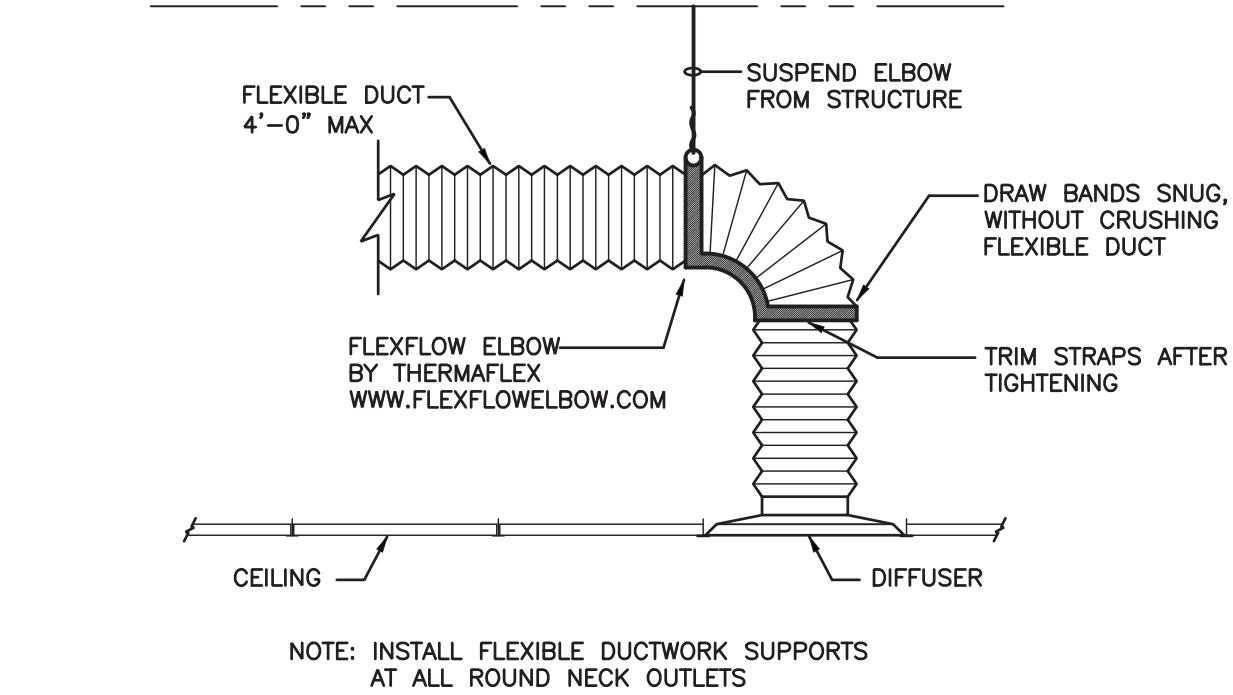
- EXIST. CONSTRUCTION
- NEW CONSTRUCTION
- DEMOLITION
- CELLULAR PVC & PLASTIC DECKING
- SPRAY FOAM INSUL.
- RIGID INSULATION
- SAND OR CONC. IN ELEVATION
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1	OWNER REVIEW	3.16.23
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Date: 04.01.2023		
Scale AS NOTED		
Title HVAC-EXISTING GROUND FLOOR PLAN & SCHEMATIC		
Sheet		
H-101		
Job No. 2321		

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GENERAL NOTES:

1. FINISH OF ALL VISIBLE EQUIPMENT IN INTERIOR SPACES, EXTERIOR WALLS AND ON ROOF SHALL BE SELECTED BY ARCHITECT.
2. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS, ALLOW FOR ACOUSTIC LINER.
3. SUPPORT DUCT RISERS AT EACH FLOOR.
4. VENT ALL HIGH POINTS AND DRAIN ALL LOW POINTS OF PIPING.
5. FOR EXACT LOCATION OF CEILING MOUNTED REGISTERS, DIFFUSERS AND GRILLES, REFER TO ARCHITECTURAL REFLECTED CEILING PLANS.
6. PROVIDE FLEXIBLE CONNECTION WHERE DUCTS AND PIPING CROSS BUILDING EXPANSION JOINTS.
7. VERIFY ALL CLEARANCES, DUCTWORK, EQUIPMENT, PIPING, ETC. BEFORE SUBMITTING SHOP DRAWINGS.
8. DO NOT SCALE DRAWINGS MAKE REFERENCE TO SPECIFIC DIMENSIONS NOTED ON ALL PLANS.
9. INTERIOR OF DUCTWORK IN BACK OF DIFFUSERS, REGISTERS AND GRILLES SHALL BE PAINTED BLACK.
10. FURNISH SPLITTER DAMPERS AT ALL SUPPLY DUCT TAKE-OFFS AND VOLUME DAMPERS AT ALL RETURN BRANCHES.
11. PROVIDE SAFETY CHAIN FOR ALL CEILING DIFFUSERS, REGISTERS AND GRILLES IN GYM. CHAINS TO CONNECT TO STRUCTURAL MEMBERS OR RIGIDLY FIXED DUCTWORK.
12. FURNISHING AND SETTING OF ALL CURBS FOR HVAC EQUIPMENT TO BE BY H.C., FLASHING OF CURBS BY OTHERS.
13. RIGGING AND SETTING OF ALL EQUIPMENT PROVIDED UNDER HEATING CONTRACT SHALL BE BY H.C.
14. EXCEPT AS NOTED ALL EQUIPMENT SHALL BE MOUNTED ON 6" THICK REINFORCED CONCRETE BASE.
15. PIPING DETAILS SHOWN ARE SCHEMATIC. H.C. TO VERIFY AND COORDINATE VALVE, COIL AND EQUIPMENT CONNECTIONS WITH MANUFACTURER.
16. ALL PIPING AT EXTERIOR WALLS AND ROOF TO BE RUN ON INTERIOR SIDE OF BUILDING INSULATION.



1
H-102
FLEXIBLE DUCT CONNECTION TO AIR OUTLET
NOT TO SCALE

CEILING DIFFUSER SCHEDULE

CEILING DIFF. No.	MFR.	MODEL	CFM.	SIZE	NOTES
CD#1	PRICE	ASPD	160	10"ø	
CD#4		VDP-HC	320		THERMALLY POWERED, WITH PRESSURE RELIEF COLLAR
CD#5		↓	320		↓
CD#6		ASPD	260		
CD#8			260		
CD#10			110		
CD#11			180		
CD#12			190		
CD#13		↓	100		
CD#14		VDP-HC	125		THERMALLY POWERED, WITH PRESSURE RELIEF COLLAR
CD#15		VDP-HC	125		THERMALLY POWERED, WITH PRESSURE RELIEF COLLAR
CD#16		ASPD	120	↓	
CD#17			85	8"ø	
CD#18			120	8"ø	
CD#19			150	10"ø	
CD#20	↓	↓	200	12"ø	
NOTE: DIFFUSERS TO BE EXTRUDED ALUMINUM CONSTRUCTION FOR SURFACE MOUNTING. PROVIDE WITH VOLUME DAMPERS					

SUPPLY REGISTER SCHEDULE

SUPPLY REG. No.	MFR.	MODEL	CFM.	SIZE	NOTES
SD#1	PRICE	620DAL	300	16x6	
SD#2			380		
SD#3			230		
SD#4			130		
SD#5			260		
SD#6			170		
SD#7	↓	↓	265	↓	
NOTE: EXTRUDED ALUMINUM, REVERSIBLE CORE SIDE WALL SUPPLY REGISTER WITH ALUMINUM DAMPER, 1" FLAT BORDER AND DIRECTIONAL VANES, PROVIDE CLEAR ANODIZED FINISH.					

RETURN EXHAUST REGISTER SCHEDULE

RETURN EXH. No.	MFR.	MODEL	CFM.	SIZE	NOTES
REG#1	PRICE	635DAL	500	8x58	
REG#2			725	↓	
REG#3			405		
REG#4			185	8x8	
REG#5			495	8x58	
REG#6			160	8x8	
REG#7			5	11x17	
REG#8			140	8x29	
REG#9			170		
REG#10	↓	↓	490	↓	
NOTE: EXTRUDED ALUMINUM LOUVER TYPE, 45° FIXED BLADES, 1/2" SPACING, BLADES PARALLEL TO SHORT DIMENSION, PROVIDE CLEAR ANODIZED FINISH.					

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Scale: AS NOTED

Title: HVAC SCHEDULES, DETAIL & NOTES

Sheet: H-102

Job No. 2321