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899 Old Saw Mill River Road  
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Project No. B17-DAYCARE

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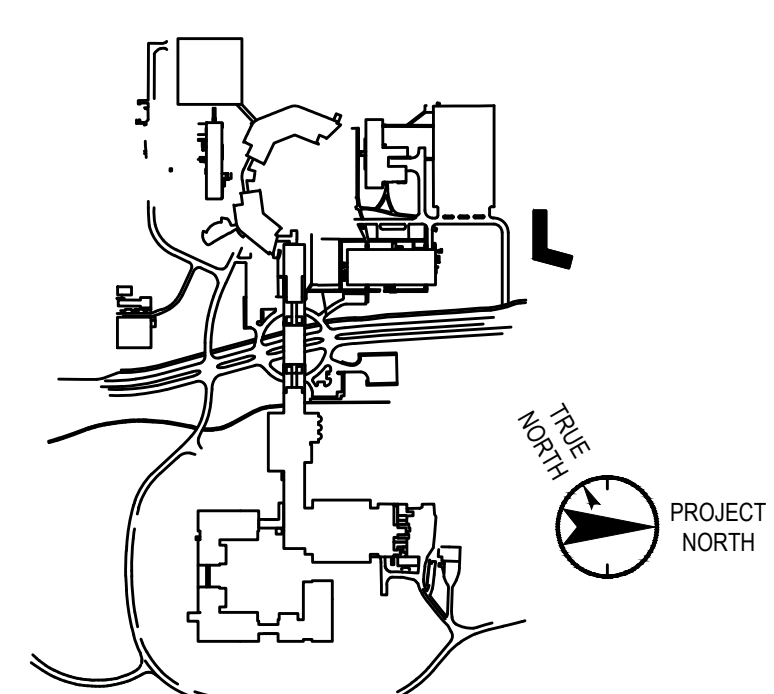
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### Key Plan



No.	Date	Description
0	05.20.2022	ISSUED FOR PERMIT
1	06.20.2022	100% CONSTRUCTION DOCUMENTS
2	07.01.2022	100% CONSTRUCTION DOCUMENTS-1

[illegible]

**Plot Date: 07.01.2022**

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Professional Seal and Signature

Vendor Name: COSENTINI  
Vendor Project No.: 210104  
Discipline: Mechanical Drawn By: BC

MECHANICAL  
EQUIPMENT  
SCHEDULE  
SHEET 1

Scale: NTS      Floor:

Scale: NTS      Floor:

# M-600

UNIT TAG		AIR-COOL HEAT PUMP HEATING DATA				AUXILIARY HEAT KW (0 DEG F - 60 DEG F)	DEDICATED OUTSIDE AIR SYSTEM (DOAS) SCHEDULE (CONTINUED)																ELECTRICAL INFO				WEIGHT (LBS)	MODEL NO.	NOTES			
		TMBH	EAT (DEG F)	LAT (DEG F)	COP @ 47 DEG_F		SUPPLY FAN								EXHAUST FAN															PRE FILTERS	FINAL FILTERS	PRE FILTERS
							TYPE	CFM	E.S.P. (IN. W.C.)	T.S.P. (IN. W.C.)	RPM	BHP	HP	FLA/ MOTOR	TYPE	CFM	E.S.P. (IN. W.C.)	T.S.P. (IN. W.C.)	RPM	BHP	HP	FLA/ MOTOR										
899-DOAS-R-01	164.2	45.0	97.2	3.64	72	SWSI AF, ECM DIRECT DRIVE	2,900/ 3,700	2.5	3.9	1,550	3.3	8	6.1	SWSI AF, ECM DIRECT DRIVE	2,100/ 2,900	2.5	3.8	2,050	1.67	4	4	2" MERV 8	4" MERV 14	2" MERV 8	119	122	125	460/3/60	2,800	DP5015A	1 TO 10	
899-DOAS-R-02	165.5	45.00	94.2	3.64	72	SWSI AF, ECM DIRECT DRIVE	3,100/ 3,900	2.5	4	1,600	3.5	8	6.1	SWSI AF, ECM DIRECT DRIVE	2,100/ 2,900	2.5	3.8	2,100	1.7	4	4	2" MERV 8	4" MERV 14	2" MERV 8	119	122	125	460/3/60	2,800	DP5015A	1 TO 10	

FAN SCHEDULE													"GREENHECK" AS STANDARD				
FAN TAG	LOCATION	SERVICE	CFM	STATIC PRESS. (IN W.G.)	RPM	OUTLET VELOC. (FPM)	TYPE	DRIVE	MODEL NO.	MOTOR			WEIGHT (LBS.)	VIBRATION ISOLATION		ECM/ EMERGENCY POWER	NOTES
										BHP (AMPS)	HP (WATTS)	VOLT/PH/HZ		SPEC. TYPE	DEFLECTION (IN.)		
899-TXF-R-01	ROOF	TOILET ROOM EXHAUST	400	0.6	1,450	600	UTILITY - UNIVERSAL SINGLE WIDTH FAN	ECM	USF-06	0.09	0.25	208/1/60	100	SEE SPECS		YES/ NO	1.2
899-TXF-R-02	ROOF	TOILET ROOM EXHAUST	650	1.0	1,750	1,000	UTILITY - UNIVERSAL SINGLE WIDTH FAN	ECM	USF-08	0.19	0.50	208/1/60	100	SEE SPECS		YES/ NO	1.2
899-GXF-R-01	ROOF	WARMING KITCHEN	225	0.4	1,225	350	UTILITY - UNIVERSAL SINGLE WIDTH FAN	ECM	USF-04	0.04	0.25	208/1/60	100	SEE SPECS		YES/ NO	1.2
899-TF-1-01	ELECTRICAL CLOSET	CLOSET HEAT TRANSFER	225	0.10	875	-	CEILING EXHAUST FAN	ECM	SP-A390-VG	(.8)	(100)	277/1/60	25	SEE SPECS		YES/ YES	1.3
899-TF-1-02	IDF ROOM	BACK-UP HEAT TRANSFER	225	0.10	875	-	CEILING EXHAUST FAN	ECM	SP-A390-VG	(.8)	(100)	277/1/60	25	SEE SPECS		YES/ YES	1.3
899-TF-1-03	ELECTRICAL ROOM	BACK-UP HEAT TRANSFER	675	0.20	1,025		INLINE CABINET	ECM	CSP-A700-VG	(4.1)	(104)	120/1/60	40	SEE SPECS		YES/ YES	1.3
GENERAL NOTES: 1) PROVIDE UNIT-MOUNTED DISCONNECT. NOTES: 1) VARI-GREEN EC MOTOR. 2) PROVIDE WITH MOTORIZED EXHAUST DAMPER TO BE INTERLOCKED WITH FAN OPERATION. 3) VARI-GREEN MOTOR TO INCLUDE MANUAL DIAL FOR BALANCING. CONTRACTOR TO PROVIDE NECESSARY CONTROLS FOR ON/OFF OPERATION VIA SPACE TEMPERATURE SENSOR.																	

AIR OUTLET & INLET SCHEDULE										MANUFACTURER "TITUS"			
TAG	SERVICE	SPEC. TYPE	SIZE IN INCHES			MAX CFM	TOTAL PRESSURE (IN. W.C.)	VELOCITY PRESSURE (IN. W.C.)	THROW	MAX NC	MODEL NUMBER	NOTES	
			FACE	NECK NOM. DUCT SIZE	BLADE SPACING								
CD-1	SUPPLY AIR	SQUARE CEILING DIFFUSER	12x12	4" Ø	-	75	0.134	0.040	2-3.6	21	OMNI		
CD-2	SUPPLY AIR	SQUARE CEILING DIFFUSER	12x12	6" Ø	-	157	0.194	0.040	4-6.12	21	OMNI		
CD-3	SUPPLY AIR	SQUARE CEILING DIFFUSER	12x12	8" Ø	-	244	0.213	0.031	5-8.16	17	OMNI		
CD-4	SUPPLY AIR	SQUARE CEILING DIFFUSER	24x24	6" Ø	-	180	0.044	0.040	2-4.7	13	OMNI		
CD-5	SUPPLY AIR	SQUARE CEILING DIFFUSER	24x24	8" Ø	-	280	0.072	0.040	4-6.12	17	OMNI		
CD-6	SUPPLY AIR	SQUARE CEILING DIFFUSER	24x24	10" Ø	-	450	0.107	0.040	5-8.14	20	OMNI		
CG-1	EXHAUST/RETURN AIR	CEILING GRILLE (SQUARE PANEL)	12x12	-	-	350					OMNI		
CG-2	EXHAUST/RETURN AIR	CEILING GRILLE (SQUARE PANEL)	24x24	-	-	800					OMNI		
SG-1	SUPPLY AIR	SUPPLY GRILLE	8x8	6x6	3/4"	150	0.131	0.040	10-12-18	24	301RL		
SG-2	SUPPLY AIR	SUPPLY GRILLE	10x10	8x8	3/4"	300	0.131	0.040	14-17-25	27	301RL		
SG-3	SUPPLY AIR	SUPPLY GRILLE	12x12	10x10	3/4"	450	0.131	0.040	18-22-31	29	301RL		
EG-1	EXHAUST AIR	EXHAUST GRILLE	8x8	6x6	3/4"	150	-	0.040	-	25	350RL		
EG-2	EXHAUST AIR	EXHAUST GRILLE	14x12	12x10	3/4"	360	0.051	0.016	-	11	350RL		
EG-3	EXHAUST AIR	EXHAUST GRILLE	20x14	18x12	3/4"	675	0.051	0.016	-	13	350RL		
COMMON NOTES:													
A. DATA OBTAINED FROM TESTS CONDUCTED IN ACCORDANCE WITH ANSI/ASHRAE STANDARD 20-1991.													
B. THROW VALUES ARE GIVEN FOR TERMINAL VELOCITIES OF 150, 100 AND 50 FPM AND FOR ISOTHERMAL CONDITIONS.													
C. NC VALUES BASED ON OCTAVE BAND 2 TO 7 SOUND POWER LEVELS MINUS A ROOM ABSORPTION OF 10 DB.													
D. EACH NC VALUE REPRESENTS THE NOISE CRITERIA CURVE WHICH WILL NOT BE EXCEEDED BY THE SOUND PRESSURE IN ANY OF THE OCTAVE BANDS, 2 THROUGH 7, WITH A ROOM ABSORPTION OF 10 DB, RE 10'-12" WATTS.													
E. DATA UNDER TOTAL PRESSURE FOR RETURN GRILLES IS NEGATIVE STATIC PRESSURE.													
F. COORDINATE BORDER TYPE WITH ARCHITECTURAL, REFLECTED CEILING PLANS. OFFICE BATHROOMS TO HAVE BORDER TYPE 3.													
G. PROVIDE CABLE OPERATED DAMPER THRU DIFFUSER IN UNACCESSIBLE CEILING (SEE DETAIL).													
H. PROVIDE LIGHT SHIELD FOR RETURN GRILLES.													
NOTES:													
1.) THROW AND PRESSURE DROP INFO PROVIDED FOR 45 DEG DEFLECTION ANGLE.													
2.) BORDER TYPE 7. INSTALL AS PER MANUFACTURERS RECOMMENDATIONS. GRILLE TO BE HEAVY DUTY CONSTRUCTION. DAMPER ACCESS IS THROUGH THE GRILLE. FINISH BY ARCHITECT.													
3.) PROVIDE WITH REMOTE CABLE OPERATED DAMPER FOR AIR OUTLETS NEAR UNACCESSIBLE CEILINGS.													
4.) THROW AND PRESSURE DROP INFO PROVIDED FOR 22.5 DEG DEFLECTION ANGLE.													

LINEAR DIFFUSER SCHEDULE										(TITUS AS STANDARD)		
TAG	LOCATION	MODEL NO.	MAX CFM PER FT OF ACTIVE LENGTH	ACTIVE LENGTH	NO. OF SLOTS	SLOT WIDTH (IN.)	MAXIMUM STATIC PRESSURE (IN. W.C.)	MAXIMUM DIFFUSER NC	PATTERN	THROW DIRECTION	SIZE OF DUCT CONNECTION TO PLENUM (IN.)	NOTES
LD-1	REFER TO PLANS	MLR-39	25	SEE PLAN	1	1	0.05	20	ADJUSTABLE	VERTICAL &/OR HORIZONTAL	SEE PLANS	1.2,3,4,5
LD-2	REFER TO PLANS	MLR-39	50	SEE PLAN	2	1	0.05	23	ADJUSTABLE	VERTICAL &/OR HORIZONTAL	SEE PLANS	1.2,3,4,5
LR-1	OFFICE SPACE	MLR-39	25 (50)	SEE PLAN	1	1		10 (25)	NA	SEE PLAN	N/A	1,2,3
LR-2	OFFICE SPACE	MLR-39	50 (100)	SEE PLAN	2	1		12 (28)	NA	SEE PLAN	N/A	1,2,3
NOTES:												
1. NC VALUE REPRESENTS THE NOISE CRITERIA THAT WILL NOT BE EXCEEDED BY THE SOUND PRESSURE IN ANY OF THE OCTAVE BANDS, 2 THOUGH, WITH A ROOM ABSORPTION OF 10 DB, RE 10-12 WATTS.												
2. DATA OBTAINED FROM TESTS CONDUCTED IN ACCORDANCE WITH ASHRAE STANDARD 70-1991 "METHOD OF TESTING FOR RATING THE PERFORMANCE OF AIR OUTLETS AND INLETS."												
3. COORDINATE ROOFER TYPE WITH ARCHITECTURAL REQUIREMENTS FOR CEILING PLANS												
4. CONTRACTOR SHALL FIELD SET PATTERN DEFLECTORS AS REQUIRED, 5. PROVIDE WITH REMOTE CABLE OPERATED DAMPER												

VARIABLE REFRIGERANT VOLUME AIR CONDITIONING UNIT SCHEDULE - CRITICAL SPACES																														MANUFACTURER "DAIKIN" OR APPROVED EQUAL				
INDOOR UNIT TAG	OUTDOOR CONDENSING UNIT TAG	SERVICE	TYPE	OUTDOOR UNIT										INDOOR UNIT										REFRIGERANT		PIPING				VIBRATION ISOLATION		REMARKS		
				OPERATING RANGE		ELECTRICAL			QUANTITY	MAX AIR FLOW RATE (CFM)	SOUND PRESSURE (DBA)	WEIGH T (LBS)	EER	Region IV HSPF RATING (HEATING)	MODEL NO.	TOTAL COOLING CAPACITY (BTU/HR)	SENSIBLE COOLING CAPACITY (BTU/HR)	HEATING CAPACIT Y (BTU/HR)	ELECTRICAL			FAN AIR FLOW (CFM) HL	SOUND PRESSURE (DBA) HL	WEIGHT (LBS)	MODEL NO.	TYPE	CHARGE (LBS)	LIQUID LINE (IN. OD)	VAPOR LINE (IN. OD)	MAX PIPE LENGTH (FT.)	MAX ELEVATIO N (FT.)		TYPE	DEFLECTIO N (IN.)
				COOLING DB	HEATING DB	V / PH / HZ	MOP	MCA											V / PH / HZ	MOP	MCA													
899-AC-1-06	899-CU-R-06	ELECTRICAL ROOM	SINGLE ZONE EXTENDED PPE	95	5	208 / 1 / 60	20	18.3	1	2,800	59	150	9.1	15.9 (5.8)	9.2	RX36NMVJU	34,400	22,800	15,740	208 / 1 / 60	64 WATTS	.37 FLA	915 / 575	5440	40	FTX36NVJU	410A	3.96	1/4	5/8	98	65	SEE SPECS	
899-AC-1-07	899-CU-R-07	IT CLOSET	SINGLE ZONE EXTENDED PPE	95	0	208 / 1 / 60	20	16.5	1	2,900	58	175	10.2	17.6 (5.8)	8.4	FAQ24TAVJU	24,000	18,000	27,000	208 / 1 / 60	15	0.6	635 / 470	43 / 37	35	RZQ24TAVJUA	410A	6.44	3/8	5/8	25	-	SEE SPECS	
NOTES: PROVIDE UNITS WITH THE FOLLOWING: a) PROVIDE TEMPERATURE SENSOR AND BACNET INTERFACES TO BE MONITORED BY BMS b) PROVIDE CONDENSATE PUMP TO BE POWERED THROUGH THE UNIT. PROVIDE SHELVE ON WALL FOR PUMP c) VIBRATION ISOLATORS d) DISCONNECT SWITCHES.																																		

ELECTRIC HEATER SCHEDULE												
UNIT TAG	TYPE	LOCATION	MODEL NO.	CFM	EXT S.P. IN.W.G.	FAN SPEED	FLA	HEATING CAPACITY			ELECTRICAL DATA	NOTES/ REMARKS
								E.A.T.	L.A.T.	BTUH		
							AMPS	(°F) DB	(°F) DB	TOTAL	VOLTS/PH/HZ	
899-EH-1-01	HORIZONTAL	LOBBY VESTIBULE	P-963U1T05U-DEU6L4	350 (170-950)	0.2	HIGH	8	30.0	75.0	5 KW	480/3/60	INDEECO MODEL WITH DUCT COLLAR
899-EH-1-02	VERTICAL	PLUMBING ROOM	T33D052033B3D00F	250	0.2	HIGH	7.8	30.0	75.0	5 KW	480/3/60	REDD-I MODEL
NOTES		1) PROVIDE WITH INTEGRAL THERMOSTAT IN RETURN AIR PATHWAY OF UNIT AND DISCONNECT SWITCH.										

TO THE BEST OF MY KNOWLEDGE, BELIEF AND  
PROFESSIONAL JUDGMENT, THESE PLANS AND  
SPECIFICATIONS ARE IN COMPLIANCE WITH THE  
2020 ENERGY CONSERVATION CODE OF NYS

This plan is approved only for work indicated on the application specification sheet. All other matters shown are not to be relied upon, or to be considered as either being approved or in accordance with applicable codes.

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