

UNIT VENTILATOR (UV) SCHEDULE																	
DWG LABEL	LOCATION	MODEL NO.	SA CFM	MIN. OA	HEATING DATA				ESP (IN. WG.)	RPM	ELECTRICAL					NOTES	
					NO. ROW	EAT (°F)	LAT (°F)	CAP. (MBH)			MOTOR QTY	MOTOR SIZE (HP)	V/PH	FLA	MCA		MOP
UV-A-1	CLASSROOM 1	VUVE150	1220	430	1	44.0	110.0	111.1	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1-7
UV-A-2	CLASSROOM 2	VUVE150	1220	490	1	44.0	110.0	111.1	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1-7
UV-A-3	CLASSROOM 3	VUVE100	830	410	1	38.5	110.0	75.4	0.00	1110	1	0.25	120V/1ø	3.5	4.5	15	1-7
UV-A-4	CLASSROOM 4	VUVE100	830	410	1	38.5	110.0	75.4	0.00	1110	1	0.25	120V/1ø	3.5	4.5	15	1-7
UV-A-4A	SPEECH 4A	VUVE075	290	130	1	40.8	110.0	55.2	0.00	670	1	0.25	120V/1ø	3.5	4.5	15	1-7
UV-A-5	MUSIC CLASSROOM 5	VUVE100	830	340	1	38.5	110.0	75.4	0.00	1110	1	0.25	120V/1ø	3.5	4.5	15	1-7
UV-A-6A	CLASSROOM 6 A	VUVE100	830	370	1	38.5	110.0	75.4	0.00	1110	1	0.25	120V/1ø	3.5	4.5	15	1-7
UV-A-7	CLASSROOM 7	VUVE100	830	400	1	38.5	110.0	75.4	0.00	1110	1	0.25	120V/1ø	3.5	4.5	15	1-7
UV-A-8	ART CLASSROOM 8	VUVE100	830	390	1	38.5	110.0	75.4	0.00	1110	1	0.25	120V/1ø	3.5	4.5	15	1-7
UV-A-9	CLASSROOM 9	VUVE100	830	390	1	38.5	110.0	75.4	0.00	1110	1	0.25	120V/1ø	3.5	4.5	15	1-7
UV-A-10	CLASSROOM 10	VUVE100	830	390	1	38.5	110.0	75.4	0.00	1110	1	0.25	120V/1ø	3.5	4.5	15	1-7
UV-A-11	CLASSROOM 11	VUVE100	830	390	1	38.5	110.0	75.4	0.00	1110	1	0.25	120V/1ø	3.5	4.5	15	1-7
UV-A-12	CLASSROOM 12	VUVE100	830	390	1	38.5	110.0	75.4	0.00	1110	1	0.25	120V/1ø	3.5	4.5	15	1-7
UV-A-16	CLASSROOM 16	VUVE100	830	380	1	38.5	110.0	75.4	0.00	1105	1	0.25	120V/1ø	3.5	4.5	15	1-7
UV-A-17	CLASSROOM 17	VUVE100	830	380	1	38.5	110.0	75.4	0.00	1105	1	0.25	120V/1ø	3.5	4.5	15	1-7
UV-A-18	CLASSROOM 18	VUVE100	830	380	1	38.5	110.0	75.4	0.00	1105	1	0.25	120V/1ø	3.5	4.5	15	1-7
UV-A-19	CLASSROOM 19	VUVE100	830	380	1	38.5	110.0	75.4	0.00	1105	1	0.25	120V/1ø	3.5	4.5	15	1-7
UV-A-20	CLASSROOM 20	VUVE100	830	380	1	38.5	110.0	75.4	0.00	1105	1	0.25	120V/1ø	3.5	4.5	15	1-7
UV-A-E10	LIBRARY E-10	VUVE150	1220	490	1	44.0	110.0	111.1	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1-7
UV-A-E19	MUSIC E-19	VUVE075	490	220	1	40.4	110.0	55.1	0.00	730	1	0.25	120V/1ø	3.5	4.5	15	1-7
UV-A-E20	FACULTY E-20	VUVE075	560	260	1	40.6	110.0	55.1	0.00	1110	1	0.25	120V/1ø	3.5	4.5	15	1-7
UV-A-E21	RESOURCE E-21	VUVE075	290	130	1	40.8	110.0	55.2	0.00	670	1	0.25	120V/1ø	3.5	4.5	15	1-7
NOTES:																	
1. DESIGN BASIS: TRANE			3. STEAM COIL CONDITIONS: STEAM TEMP=222°F, PRESSURE=3 PSIG				6. UNIT 21-1/4" DEEP W/CLOSED PIPE TUNNEL.										
2. FLOOR MOUNTED UNIT			5. VERIFY PIPE AND ELECTRICAL LEFT/RIGHT HAND CONNECTIONS PRIOR TO ORDERING.				7. NEMA 1 DISCONNECT SWITCH.										
3. PROVIDE 1" MERV13 FILTER.			5. PROVIDE LOUVER AND WALL SLEEVE TO MATCH EXISTING OR NEW WALL OPENING.														

FAN COIL UNIT (FCU) SCHEDULE																
EQUIP NO.	LOCATION	MODEL NO.	SA CFM	MIN. OA	HEATING DATA				SUPPLY FAN		ELECTRICAL					NOTES
					NO. ROW	EAT (°F)	LAT (°F)	CAP. (MBH)	ESP (IN. WG.)	RPM	MOTOR SIZE (HP)	V/PH	FLA	MCA	MOP	
FCU-A-E2	GEN. OFF. E-2	FCDB020	150	20	1	60.1	110.0	13.2	0.00	700	0.02	120V/1ø	2.2	2.8	15	1-7
FCU-A-E3	PRINC. E-3	FCDB020	200	30	1	59.2	110.0	15.5	0.00	870	0.02	120V/1ø	2.2	2.8	15	1-7
FCU-A-E4	NURSE E-4	FCDB020	200	30	1	59.2	110.0	15.5	0.00	870	0.02	120V/1ø	2.2	2.8	15	1-7
FCU-A-E6	S.W. E-6	FCDB020	150	20	1	60.1	110.0	13.2	0.00	700	0.02	120V/1ø	2.2	2.8	15	1-7
FCU-A-E7	CONF. E-7	FCDB020	200	30	1	59.2	110.0	15.5	0.00	870	0.02	120V/1ø	2.2	2.8	15	1-7
NOTES:																
1. DESIGN BASIS: TRANE		4. STEAM COIL CONDITIONS: STEAM TEMP=222°F, PRESSURE=3 PSIG														
2. VERTICAL CABINET UNIT		5. VERIFY PIPE AND ELECTRICAL LEFT/RIGHT HAND CONNECTIONS PRIOR TO ORDERING.														
3. PROVIDE 1" MERV13 FILTER.		6. PROVIDE RETURN AIR BOTTOM INLET TOP GRILLE OUTLET AND OUTSIDE AIR WALL BOX.														
												7. PROVIDE NEMA 1 DISCONNECT SWITCH.				

VERTICAL UNIT VENTILATOR (VUV) SCHEDULE																	
EQUIP NO.	LOCATION	MODEL NO.	SA AND EA (CFM)	MIN. OA AND EA (CFM)	HEATING DATA				STEAM COIL INLET (PSI)	SUPPLY ESP (IN. WG.)	ELECTRICAL					NOTES	
					NO. ROW	EAT (°F)	LAT (°F)	TC (MBH)			SUPPLY FAN (HP)	RELIEF FAN (HP)	WHEEL (W)	V/PH	MCA		MOP
VUV-A-K1	KINDERGARTEN K-1	VER 1800D	1400	630	1	61.6	133.0	108.9	3.0	0.20	0.5	0.33	76	120 V/1ø	22.0	25	1-8
VUV-A-K2	KINDERGARTEN K-2	VER 1800D	1400	630	1	61.6	133.0	108.9	3.0	0.20	0.5	0.33	76	120 V/1ø	22.0	25	1-8
NOTES:																	
1.	DESIGN BASIS: TEMPSPEC				4. STEAM COIL CONDITIONS: STEAM TEMP=222°F, PRESSURE=3 PSIG				7.	PROVIDE ENERGY RECOVERY WHEEL (70% MIN. EFFICIENCY)							
2.	VERTICAL CABINET UNIT				5. PROVIDE NEMA1 1 DISCONNECT SWITCH				8.	A. WINTER (73%): OA EDB: 8.4; EWB: 6.6. RETURN AIR EDB: 65; EWB: 45							
3.	PROVIDE 2" MERV13 FILTER.				6. PROVIDE RELIEF FAN CAPABLE OF 580 CFM.				PROVIDE 12" BACK CABINET EXTENSION AND 24" SHEET METAL VERTICAL EXTENSION.								

LOUVER (L) SCHEDULE											
DWG LABEL	SERVES	MODEL NO.	TYPE	LENGTH (IN)	HEIGHT (IN)	DEPTH (IN)	FREE AREA (S.F.)	AIRFLOW (CFM)	VELOCITY (FPM)	MAX APD (IN WG)	NOTES
L-A-KA	VUV-A-K1 AND VUV-A-K2	ESD-635HP	INTAKE	13	46	6	2.20	1400	640	0.07	1-5
L-A-KB	VUV-A-K1 AND VUV-A-K2	ESD-635HP	EXHAUST	13	15	6	0.50	580	1160	0.2	1-5
NOTES: 1. DESIGN BASIS: GREENHECK 2. PROVIDE WITH KYNAR FINISH. 3. COLOR TO BE SELECTED BY ARCHITECT. 4. PROVIDE WITH EXTENDED SILL. 5. PROVIDE WITH ALUMINUM BIRDSCREEN IN REMOVABLE FRAME.											

JV FORRESTAL BUILDING/EQUIPMENT VENTILATION CALCULATIONS														
EQUIPMENT NUMBER	ZONE ID				MINIMUM VENTILATION RATES									
	ROOM NUMBER	ROOM NAME	OCCUPANCY CLASSIFICATION	Az - AREA (SF)	Pz - ZONE OCCU. #/1000 FT	ZONE OCCU.	Rp (CFM/ Person)	RpP	Ra (CFM/SF)	RaA	Vbz (CFM)	EZ	Voz (CFM)	
VUV-A-K1	K-1	KINDERGARTEN	Classrooms (ages 5-8)	1350	25	34	10	340	0.12	162	502	0.8	630	
VUV-A-K2	K-2	KINDERGARTEN	CLASSROOMS (AGES 5-8)	1313	25	33	10	330	0.12	158	488	0.8	610	
UV-A-1	1	CLASSRM.	CLASSROOMS (AGE 9 PLUS)	914	35	32	10	320	0.12	110	430	0.9	480	
UV-A-2	2	CLASSRM.	CLASSROOMS (AGE 9 PLUS)	1028	35	36	10	360	0.12	123	483	0.9	540	
UV-A-3	3	CLASSRM.	CLASSROOMS (AGE 9 PLUS)	857	35	30	10	300	0.12	103	403	0.9	450	
UV-A-4	4	CLASSRM.	CLASSROOMS (AGE 9 PLUS)	848	35	30	10	300	0.12	102	402	0.9	450	
UV-A-5	5	MUSIC CLASSRM.	CLASSROOMS (AGE 9 PLUS)	711	35	25	10	250	0.12	85	335	0.9	380	
UV-A-6A	6A	CLASSRM.	CLASSROOMS (AGE 9 PLUS)	756	35	27	10	270	0.12	91	361	0.9	410	
UV-A-7	7	CLASSRM.	CLASSROOMS (AGE 9 PLUS)	831	35	30	10	300	0.12	100	400	0.9	450	
UV-A-8	8	ART CLASSRM.	CLASSROOMS (AGE 9 PLUS)	819	35	29	10	290	0.12	98	388	0.9	440	
UV-A-9	9	CLASSRM.	CLASSROOMS (AGE 9 PLUS)	824	35	29	10	290	0.12	99	389	0.9	440	
UV-A-10	10	CLASSRM.	CLASSROOMS (AGE 9 PLUS)	822	35	29	10	290	0.12	99	389	0.9	440	
UV-A-11	11	CLASSRM.	CLASSROOMS (AGE 9 PLUS)	823	35	29	10	290	0.12	99	389	0.9	440	
UV-A-12	12	CLASSRM.	CLASSROOMS (AGE 9 PLUS)	816	35	29	10	290	0.12	98	388	0.9	440	
UV-A-16	16	CLASSRM.	CLASSROOMS (AGE 9 PLUS)	796	35	28	10	280	0.12	96	376	0.9	420	
UV-A-17	17	CLASSRM.	CLASSROOMS (AGE 9 PLUS)	774	35	28	10	280	0.12	93	373	0.9	420	
UV-A-18	18	CLASSRM.	CLASSROOMS (AGE 9 PLUS)	785	35	28	10	280	0.12	94	374	0.9	420	
UV-A-19	19	CLASSRM.	CLASSROOMS (AGE 9 PLUS)	792	35	28	10	280	0.12	95	375	0.9	420	
UV-A-20	20	CLASSRM.	CLASSROOMS (AGE 9 PLUS)	797	35	28	10	280	0.12	96	376	0.9	420	
UV-A-E10	E-10	LIBRARY	CLASSROOMS (AGE 9 PLUS)	945	35	34	10	340	0.12	113	453	0.9	510	
UV-A-4A	4A	SPEECH	CLASSROOMS (AGE 9 PLUS)	244	35	9	10	90	0.12	29	119	0.9	140	
FCU-A-E2	E-2	GEN. OFF.	OFFICE SPACE	171	5	1	5	5	0.06	10	15	0.9	20	
FCU-A-E3	E-3	PRINC.	OFFICE SPACE	225	5	2	5	10	0.06	14	24	0.9	30	
FCU-A-E4	E-4	NURSE	OFFICE SPACE	287	5	2	5	10	0.06	17	27	0.9	40	
FCU-A-E6	E-6	S.W.	OFFICE SPACE	154	5	1	5	5	0.06	9	14	0.9	20	
FCU-A-E7	E-7	PSYC.	OFFICE SPACE	249	5	2	5	10	0.06	15	25	0.9	30	
UV-A-E19	E-19	MUSIC	CLASSROOMS (AGE 9 PLUS)	467	35	17	10	170	0.12	56	226	0.9	260	
UV-A-E20	E-20	FACULTY	BREAKROOMS	687	50	35	5	175	0.12	82	257	0.9	290	
UV-A-E21	E-21	RESOURCE	CLASSROOMS (AGE 9 PLUS)	275	35	10	10	100	0.12	33	133	0.9	150	
NOTES: UV EZ = AIR DISTRIBUTION CONFIGURATION, Voz = ZONE OUTDOOR AIRFLOW														

S.E.D. Control No. 13-02-00-01-0-002-021

Rev. No.: Date: Description:



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& Landscape Architects, P.C.



Beacon City School District
Beacon, New York

Reconstruction to:
JV Forrestal Elementary School

Schedules

Drawn By: JPF1/pgm Date: 10/28/2022 Drawing Number:
Project No.: 279180-22004 **AM600**