

EASTCHESTER
UNION FREE
SCHOOL DISTRICT

2022 CAPITAL PROJECT
PHASE 4

ANNE HUTCHINSON
ELEMENTARY SCHOOL

ARCHITECT

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MECHANICAL/ELECTRICAL/PLUMBING CONSULTANT
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WSP
ONE PENN PLAZA
250 W 34TH ST., 4TH FLOOR
NEW YORK, NY 10014

VENTILATION SCHEDULE																
BUILDING	LEVEL	AIR HANDLING SYSTEM DATA				ROOM DATA					OUTSIDE VENTILATION AIRFLOW REQUIRED PER THE 2020 NEW YORK STATE MECHANICAL CODE - SECTION 403					
		AIR HANDLING SYSTEM DESIGNATION	DESIGN SUPPLY AIRFLOW (CFM)	DESIGN OUTSIDE VENTILATION AIRFLOW (CFM)	ROOM NUMBER	ROOM NAME	FLOOR AREA (SQ.FT.)	NUMBER OF OCC.	DESIGN SUPPLY AIRFLOW (CFM)	DESIGN OUTSIDE VENTILATION AIRFLOW (CFM)	OUTSIDE VENTILATION AIRFLOW PER PERSON (CFM / PERSON)	OUTSIDE VENTILATION AIRFLOW PER SQUARE FOOT (CFM / SF)	ZONE AIR DISTRIBUTION EFFECTIVENESS	ROOM OUTSIDE VENTILATION AIRFLOW (CFM)	ROOM VENTILATION AIRFLOW MEETS OR EXCEEDS REQUIREMENT (YES / NO)	DESIGN OUTSIDE VENTILATION AIRFLOW MEETS OR EXCEEDS REQUIREMENT (YES / NO)
ELEMENTARY SCHOOL	GROUND	UVA	1,150	445	101	STEM LAB	728	31	1,150	445	10	0.18	1	441	YES	YES
ELEMENTARY SCHOOL	GROUND	UVA	1,150	400	102	CLASSROOM	733	31	1,150	400	10	0.12	1	398	YES	YES
ELEMENTARY SCHOOL	GROUND	UVA	1,150	400	103	CLASSROOM	746	31	1,150	400	10	0.12	1	400	YES	YES
ELEMENTARY SCHOOL	GROUND	UVA	1,150	400	104	CLASSROOM	728	31	1,150	400	10	0.12	1	397	YES	YES
ELEMENTARY SCHOOL	GROUND	UVA	1,150	405	105	CLASSROOM	768	31	1,150	405	10	0.12	1	402	YES	YES
ELEMENTARY SCHOOL	GROUND	UVA	1,150	405	106	CLASSROOM	758	31	1,150	405	10	0.12	1	401	YES	YES
ELEMENTARY SCHOOL	GROUND	UVA	1,150	405	107	CLASSROOM	752	31	1,150	405	10	0.12	1	400	YES	YES
ELEMENTARY SCHOOL	GROUND	UVA	1,150	405	108	CLASSROOM	757	31	1,150	405	10	0.12	1	401	YES	YES
ELEMENTARY SCHOOL	GROUND	UVA	1,150	415	109	CLASSROOM	856	31	1,150	415	10	0.12	1	413	YES	YES
ELEMENTARY SCHOOL	GROUND	UVA	1,150	410	110	CLASSROOM	822	31	1,150	410	10	0.12	1	409	YES	YES
ELEMENTARY SCHOOL	GROUND	UVA	1,150	410	111	CLASSROOM	798	31	1,150	410	10	0.12	1	406	YES	YES
ELEMENTARY SCHOOL	GROUND	UVA	1,150	405	112	CLASSROOM	780	31	1,150	405	10	0.12	1	404	YES	YES
ELEMENTARY SCHOOL	GROUND	FCU-B	600	20	113	OFFICE	186	1	600	20	5	0.06	1	16	YES	YES
ELEMENTARY SCHOOL	GROUND	UVA	1,150	405	114	CLASSROOM	777	31	1,150	405	10	0.12	1	403	YES	YES
ELEMENTARY SCHOOL	GROUND	UVA	1,150	385	115	CLASSROOM	600	31	1,150	385	10	0.12	1	382	YES	YES
ELEMENTARY SCHOOL	GROUND	FCU-A	600	15	115A	STORAGE	79	0	600	15	0	0.18	1	14	YES	YES
ELEMENTARY SCHOOL	GROUND	FCU-A	1,150	350	115B	CLASSROOM	306	31	1,150	350	10	0.12	1	347	YES	YES
ELEMENTARY SCHOOL	GROUND	UVA	1,150	400	116	CLASSROOM	732	31	1,150	400	10	0.12	1	398	YES	YES
ELEMENTARY SCHOOL	GROUND	UVA	1,150	395	117	CLASSROOM	704	31	1,150	395	10	0.12	1	394	YES	YES
ELEMENTARY SCHOOL	GROUND	UVA	1,150	395	118	CLASSROOM	888	31	1,150	395	10	0.12	1	393	YES	YES
ELEMENTARY SCHOOL	GROUND	FCU-A	600	20	123	OFFICE	199	1	600	20	5	0.06	1	17	YES	YES
ELEMENTARY SCHOOL	GROUND	FCU-B	600	25	125	CUSTODIAL	211	1	600	25	5	0.06	0.8	22	YES	YES
ELEMENTARY SCHOOL	GROUND	FCU-B	600	20	125	HEAD CUSTODIAN	148	1	600	20	5	0.06	0.8	17	YES	YES
ELEMENTARY SCHOOL	GROUND	RTU-AH-3	5,100	2,025	126	CAFETERIA	2,868	147	5,100	2,025	7.5	0.18	0.8	2,023	YES	YES
ELEMENTARY SCHOOL	GROUND	FCU-B	600	25	128	OFFICE	235	1	600	25	5	0.06	0.8	24	YES	YES
ELEMENTARY SCHOOL	GROUND	FCU-B	600	20	129	OFFICE	153	1	600	20	5	0.06	0.8	18	YES	YES
ELEMENTARY SCHOOL	GROUND	FCU-B	600	25	-	STAIR A	280	0	600	25	0	0.06	0.8	21	YES	YES
ELEMENTARY SCHOOL	GROUND	FCU-B	600	15	-	STAIR B	187	0	600	15	0	0.06	0.8	14	YES	YES
ELEMENTARY SCHOOL	GROUND	FCU-B	600	25	-	STAIR C	283	0	600	25	0	0.06	0.8	21	YES	YES
ELEMENTARY SCHOOL	GROUND	FCU-A	600	5	-	VESTIBULE	54	0	600	5	0	0.06	1	3	YES	YES
ELEMENTARY SCHOOL	GROUND	FCU-B	600	20	-	CORRIDOR 1A	204	0	600	20	0	0.06	0.8	15	YES	YES
ELEMENTARY SCHOOL	GROUND	FCU-B	600	230	-	CORRIDOR 1B	3,035	0	600	230	0	0.06	0.8	228	YES	YES
ELEMENTARY SCHOOL	1ST FLOOR	UVA	1,150	405	201	CLASSROOM	762	31	1,150	405	10	0.12	1	401	YES	YES
ELEMENTARY SCHOOL	1ST FLOOR	UVA	1,150	405	202	CLASSROOM	776	31	1,150	405	10	0.12	1	403	YES	YES
ELEMENTARY SCHOOL	1ST FLOOR	UVA	1,150	405	203	CLASSROOM	755	31	1,150	405	10	0.12	1	401	YES	YES
ELEMENTARY SCHOOL	1ST FLOOR	UVA	1,150	405	204	CLASSROOM	760	31	1,150	405	10	0.12	1	401	YES	YES
ELEMENTARY SCHOOL	1ST FLOOR	UVA	1,150	405	205	CLASSROOM	757	31	1,150	405	10	0.12	1	401	YES	YES
ELEMENTARY SCHOOL	1ST FLOOR	UVA	1,150	405	206	CLASSROOM	757	31	1,150	405	10	0.12	1	401	YES	YES
ELEMENTARY SCHOOL	1ST FLOOR	UVA	1,150	400	207	CLASSROOM	749	31	1,150	400	10	0.12	1	400	YES	YES
ELEMENTARY SCHOOL	1ST FLOOR	UVA	1,150	405	208	CLASSROOM	760	31	1,150	405	10	0.12	1	401	YES	YES
ELEMENTARY SCHOOL	1ST FLOOR	UVA	1,150	415	209	CLASSROOM	862	31	1,150	415	10	0.12	1	413	YES	YES
ELEMENTARY SCHOOL	1ST FLOOR	UVA	1,150	410	210	CLASSROOM	821	31	1,150	410	10	0.12	1	409	YES	YES
ELEMENTARY SCHOOL	1ST FLOOR	FCU-A	600	20	213	OFFICE	218	1	600	20	5	0.06	1	18	YES	YES
ELEMENTARY SCHOOL	1ST FLOOR	FCU-A	600	20	214	ASSISTANT PRINCIPAL	226	1	600	20	5	0.06	1	19	YES	YES
ELEMENTARY SCHOOL	1ST FLOOR	FCU-B	600	45	216	OFFICE	550	2	600	45	5	0.06	1	43	YES	YES
ELEMENTARY SCHOOL	1ST FLOOR	FCU-B	600	35	217	NURSE	241	2	600	35	5	0.06	0.8	31	YES	YES
ELEMENTARY SCHOOL	1ST FLOOR	FCU-B	600	50	219	NURSE	446	2	600	50	5	0.06	0.8	46	YES	YES
ELEMENTARY SCHOOL	1ST FLOOR	FCU-A	600	35	220	PRINCIPAL'S OFFICE	422	1	600	35	5	0.06	1	30	YES	YES
ELEMENTARY SCHOOL	1ST FLOOR	FCU-A	600	35	220A	TEACHERS	226	4	600	35	5	0.06	1	34	YES	YES
ELEMENTARY SCHOOL	1ST FLOOR	UVA	1,150	435	221	CLASSROOM	1,010	31	1,150	435	10	0.12	1	431	YES	YES
ELEMENTARY SCHOOL	1ST FLOOR	FCU-A	600	10	221A	OFFICE	69	1	600	10	5	0.06	1	9	YES	YES
ELEMENTARY SCHOOL	1ST FLOOR	UVA	1,150	430	222	LIBRARY	965	31	1,150	430	10	0.12	1	426	YES	YES
ELEMENTARY SCHOOL	1ST FLOOR	FCU-A	600	15	222A	OFFICE	102	1	600	15	5	0.06	1	11	YES	YES
ELEMENTARY SCHOOL	1ST FLOOR	UVA	1,150	390	223	CLASSROOM	646	31	1,150	390	10	0.12	1	388	YES	YES
ELEMENTARY SCHOOL	1ST FLOOR	UVA	1,150	365	223A	CLASSROOM	420	31	1,150	365	10	0.12	1	360	YES	YES
ELEMENTARY SCHOOL	1ST FLOOR	FCU-A	600	25	224	COUNSELOR	168	2	600	25	5	0.06	1	20	YES	YES
ELEMENTARY SCHOOL	1ST FLOOR	UVA	1,150	410	225	CLASSROOM	817	31	1,150	410	10	0.12	1	408	YES	YES
ELEMENTARY SCHOOL	1ST FLOOR	FCU-A	600	20	226	COUNSELOR	164	2	600	20	5	0.06	1	20	YES	YES
ELEMENTARY SCHOOL	1ST FLOOR	RTU-AH-2	9,550	3,885	227	AUDITORIUM	4,787	564	9,550	3,885	5	0.06	0.8	3,884	YES	YES
ELEMENTARY SCHOOL	1ST FLOOR	FCU-A	600	20	228	SPECIAL ED	166	2	600	20	5	0.06	1	20	YES	YES
ELEMENTARY SCHOOL	1ST FLOOR	RTU-AH-1	6,000	1,720	229	GYM	4,190	31	6,000	1,720	20	0.18	0.8	1,718	YES	YES
ELEMENTARY SCHOOL	1ST FLOOR	FCU-A	600	25	230	STORAGE	122	0	600	25	0	0.18	1	22	YES	YES
ELEMENTARY SCHOOL	1ST FLOOR	FCU-B	600	35	-	STAIR 5	443	0	600	35	0	0.06	0.8	33	YES	YES
ELEMENTARY SCHOOL	1ST FLOOR	FCU-B	600	25	-	STAIR 2	307	0	600	25	0	0.06	0.8	23	YES	YES
ELEMENTARY SCHOOL	1ST FLOOR	FCU-B	600	25	-	STAIR 4	284	0	600	25	0	0.06	0.8	21	YES	YES
ELEMENTARY SCHOOL	1ST FLOOR	FCU-B	600	155	101	CORRIDOR	2,003	0	600	155	0	0.06	0.8	150	YES	YES

REGISTER, GRILLE, AND DIFFUSER SCHEDULE																
DESIGNATION	SERVICE	TYPE	NOMINAL OVERALL DIMENSION (IN)	NECK SIZE (IN)	CFM RANGE	CONFIGURATION	BORDER TYPE	MATERIAL OF CONSTRUCTION	EQUALIZING GRID IN NECK	OPPOSED BLADE DAMPER IN NECK	FILTER RACK	FINISH COLOR	MANUFACTURER	MODEL	REMARKS	
CD-A	SUPPLY	CEILING DIFFUSER	24x24	6"DIA	0-100	PLAQUE-STYLE, 4-WAY THROW	LAY-IN	STEEL	YES	NO	NO	WHITE	TITUS	OMNI	SEE NOTES BELOW	
				8"DIA	101-175											
				10"DIA	176-350											
				12"DIA	351-550											
ER-A	EXHAUST	CEILING REGISTER	12X12 OR 24x24	6"DIA	0-100	LOUVERED FACE, 1/2" BLADE SPACING, 45° FIXED DEFLECTION	LAY-IN OR SURFACE MOUNTED	ALUMINUM	NO	NO	NO	WHITE	TITUS	355FL	SEE NOTES BELOW	
				8"DIA	101-175											
				10"DIA	176-350											
				12"DIA	351-550											
RG-A	RETURN	CEILING GRILLE	24x12 24x24	24x12 24x24	0-1000 1001-2000	LOUVERED FACE, 1/2" BLADE SPACING, 45° FIXED DEFLECTION	LAY-IN	STEEL	NO	NO	NO	WHITE	TITUS	355RL	SEE NOTES BELOW	
RR-A	RETURN	SIDEWALL REGISTER	72" WIDE X 36 " HIGH	72" WIDE X 36 " HIGH	0-7000	LOUVERED FACE, 5/16" BLADE SPACING, REVERSIBLE CORE FOR 3" OR 15" FIXED DEFLECTION	SURFACE MOUNT BORDER WITH CONCEALED SCREW FASTENING	ALUMINUM	NO	ONLY IF REGISTER IS MOUNTED TO EXPOSED SPIRAL DUCT	NO	WHITE	TITUS	1700L	SEE NOTES BELOW	
LD-A	SUPPLY	LINEAR DIFFUSER	(2) 2" WIDE SLOT, LENGTHS AS NOTED ON	8"DIA (CONNECTION TO FACTORY PLENUM) 10"DIA (CONNECTION TO FACTORY PLENUM)	0-175 176-300	CONTINUOUS SLOT LINEAR DIFFUSER WITH "VERTICAL & HORIZONTAL" PATTERN CONTROLLER WITH THE SLOT	LAY-IN OR SURFACE MOUNTED WITH CONCEALED SCREW FASTENING	ALUMINUM	NO	NO	NO	BLACK PATTERN CONTROLLER & VISIBLE INTERNAL	TITUS	ML-39	SEE NOTES BELOW	
SR-A	SUPPLY	CEILING/SIDE WALL REGISTER	RE: PLAN	RE: PLAN	RE: PLAN	INDIVIDUALLY ADJUSTABLE BLADES, 3/4" BLADE SPACING, DOUBLE DEFLECTION	LAY-IN OR SURFACE MOUNTED	STEEL	NO	ONLY IF REGISTER IS MOUNTED TO EXPOSED SPIRAL DUCT	NO	WHITE	TITUS	300RL	SEE NOTES BELOW	
NOTES:																
1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.																
2. ALL FINISH COLORS ARE SUBJECT TO APPROVAL BY THE ARCHITECT. SUBMIT COLOR CHART FOR REVIEW.																
3. COORDINATE BORDER TYPES WITH ARCHITECTURAL CEILING SPECIFICATIONS.																
4. ER-A: PROVIDE FACTORY FURNISHED SQUARE-TO-ROUND ADAPTER FOR EACH REGISTER, MATTE BLACK FINISH FOR INTERNAL SURFACES.																
5. RG-A: PROVIDE FACTORY FURNISHED LIGHT SHIELD, MATTE BLACK FINISH FOR INTERNAL SURFACES.																
6. LD-A:																
6.1. ALL ACTIVE SUPPLY, EXHAUST, AND RETURN (DUCTED) SECTIONS SHALL BE PROVIDED WITH FACTORY FURNISHED ACOUSTICALLY LINED 2', 3', OR 4' LONG PLENUMS WITH SIDE INLET CONNECTIONS.																
6.2. ALL ACTIVE RETURN (CEILING PLENUM) SECTIONS SHALL BE PROVIDED WITH RETURN HOOD LIGHT SHIELDS, LENGTHS AS SHOWN ON PLANS.																
6.3. INACTIVE PORTIONS WITHOUT PLENUMS OR LIGHT SHIELDS SHALL BE BLANKED OFF, MATTE BLACK FINISH FOR VISIBLE SURFACES.																
6.4. PROVIDE "MP" MITERED CORNERS, FACTORY BLANKED, 6"x6" AND FACTORY END CAPS.																
6.5. PROVIDE CABLE OPERATED DAMPER (COD) FOR LINEAR DIFFUSERS ABOVE SHEETROCK CEILING.																