									SCH	EDULE	OF EX	ISTING	AIR H	ANDLING	G UNIT	Τ										
		GENERAL DATA			FAN L	DATA			HEATING	DATA 3		COOLII	NG DATA	34	CONDE	ENSING UNIT	F	ILTER D	DATA	PHYSIC	CAL DATA	E	LECTRI	ICAL D	ATA	
MARK	SERVICE	MODEL NUMBER	OAI CFM MAX./MIN.	CFM	EXT. S.F IN H <sub>2</sub> O	P. FAN RPM	MOTOR HP	TOTAL CAP. MBH	ENT. AIR TEMP. DB °F	.LVG. AIR TEMP. DB °F	TOTAL CAP. MBH	SENSIBLE CAP. MBH	ENT. AIR TEMP. DB/WB *F	.LVG. AIR TEMP. DB/WB °F	MARK	SERVICE	QTY.	SIZE (IN.)	TYPE	WEIGHT (LBS.)	LxWxH (IN.)	FLA	MCA	MOP	SERVICE	REMARKS
AHU1 EXIST	AUXILIARY GYI	<b>—</b>	4500 1800	4500	1.0	_	_	205	40	110	170	120	78/65	55/54	(CU)	AUXILIARY GYM	_	_	MERV 13	-	_	_		-	208/3/60	REFER TO  ②⑤
AHUZ EXIST	AUXILIARY GYI	м —	4500 1800	4500	1.0	_	_	205	40	110	170	120	78/65	55/54	(CU) 12	AUXILIARY GYM	_	_	MERV 13	_	_	_		-	208/3/60	<b>2</b> 6
																							<u> </u>			

N 1 AS MANUFACTURED BY "CARRIER".

6 REFURBISH EXISTING UNITS TO INCLUDE STEAM CLEANING OF EXISTING UNIT COILS, REPLACEMENT OF ALL FILTERS WITH MERV 13 FILTERS, AIR BALANCING OF EXISTING FANS AND AIR OUTLETS, PROVIDE NEW DUCT MOUNTED DX COILS IN EACH OF THE FOUR DISTRIBUTION MAINS, INSTALL VRF TYPE CONDENSING UNITS ON ROOF WITH

CONNECTING REFRIGERANT PIPING AND CONTROLS FOR ASSOCIATED DX COILS.

0 (2) REFURBISH IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS.

F (3) DESIGN AIR CONDITIONS: SUMMER: OA  $(94^{\circ}F/75^{\circ}F)$  RA  $(77^{\circ}F/65^{\circ}F)$ ; WINTER: OA  $(5^{\circ}F/3^{\circ}F)$  RA  $(70^{\circ}F/55^{\circ}F)$ .

S A BASED ON A.R.I. CERTIFIED COIL SELECTIONS; REFRIGERANT R-410A, SEER 12.0,

			SC	CHED	ULE	OF U	INIT H	HEATER		
'K	MODEL No. 🕦	BTU/HR	CAPACIT EWT °F	Y DATA LWT °F	GPM	MOTOR WATTS	ELECTRIC SERVICE		DATA WEIGHT (LBS)	REMARKS
)	HS-18	11725	160	140	1.0	9	120/1/60			REFER TO (1)(2)(3)(4)

N (1) AS MANUFACTURED BY "STERLING".

O INSTALL PER MANUFACTURER'S RECOMMENDATIONS

E CAPACITIES BASED ON HIGH SPEED FAN SETTING AND HW 160°F/140°F

S 4 QUANTITIES AS IDENTIFIED ON HVAC DRAWINGS.

		SC	HEL	)UL	E	OF	CA	BINE	T HE	EATER	S	
MARK	TYPE UNIT	MODEL N≗	CAP. BTU/HR	ACITY L CFM		<b>2</b> PD.FT.	MOTOR HP	MOTOR RPM	ELECTRIC SERVICE	PHYSICAL (IN)	DATA WEIGHT (LBS)	REMARKS
CH A	RECESSED CLG. MTD.	RC1200-03	21,900	265	3.0	0.77	1/15	1100	120/1/60	43Wx25Lx10H	125	REFER 10 234
CH B	RECESSED WALL MTD.	RW1120-03	21,900	265	3.0	0.77	1/15	1100	120/1/60	43Wx25Lx10H	125	REFER 10 234

N 1 AS MANUFACTURED BY "STERLING".

O 2 INSTALL PER MANUFACTURER'S RECOMMENDATIONS

(3) CAPACITIES BASED ON LOW SPEED FAN SETTING AND HW 160°F/140°F

4 PROVIDE THROWAWAY FILTERS, DISCONNECT SWITCH, TWO ROW COIL, REMOTE THERMOSTAT/FAN CONTROLS, ELECTRONICALLY COMMUTATED MOTOR (ECM), OPTIONAL COLOR/FINISH SELECTED BY ARCHITECT, INTEGRAL SPEED CONTROL SWITCH FIELD MOUNTED, RECESSED TRIM

	SCH	HEDU	JLE C	DF (	CON	IVE	CTOF	<i>PS</i>						
MARK	No. U MEIGHT													
CONV	SF-A	3.5	1.0	4"	<i>36"</i>	26"	50	REFER TO						
CONV	SF-A	8.0	2.0	6"	48"	32"	<i>75</i>	23						
COND	SF-A	11.0	2.0	6"	64"	32"	100	23						

**N** (1) AS MANUFACTURED BY "STERLING". (2) INSTALL PER MANUFACTURER'S RECOMMENDATIONS

· (3) CAPACITIES BASED ON 150° A.W.T.

SC	HEDULE	OF EX	PANSION	V TANK
MARK	MODEL N≗ <b>⊙</b>	TANK VOLUME GALS.	ACCEPTANCE VOLUME GALS.	REMARKS
ET 1	B-400	106	106	REFER TO 23

(1) AS MANUFACTURED BY "BELL & GOSSETT".

T (2) INSTALL PER MANUFACTURER'S RECOMMENDATIONS. 3 VERTICAL MOUNTING 125PSI ASME TANK, DIMENSIONS 24"x65"H / 1200LBS.

			SC	HED	ULE	OF	DU	CT N	10UN	ITED	HEATI	NG	CO	ILS		
	GENERAL	. DATA			SIZE				Al	R SIDE				WATER	SIDE	
MARK	BUILDING	SERVICE	WIDTH (IN.)	HEIGHT INCHES	FACE AREA (FT²)	ROWS	FINS PER INCH	CFM	MBH	PRESS DROP	P VELOCITY FPM	E.A.T. *F	L.A.T. *F	FLOW RATE (GPM)	PRESS DROP Δ HEAD (FT)	REMARKS
$\frac{HC}{1}$	HIGH SCHOOL	ERU 1	-	_	_	2 MINIMUM	12 MAXIMUM	6600	435	0.2" MAX	600 MAX.	10	70	STEAM	5 FT. MAX	REFER TO ①②③
$\frac{HC}{2}$	HIGH SCHOOL	ERU 2	-	_	_			6600	435					STEAM		
$\frac{HC}{3}$	HIGH SCHOOL	ERU 3	-	_	_			600	36					STEAM		
(HC)	HIGH SCHOOL	ERU 4	-	_	_			400	27					3.0		
(HC) 5	HIGH SCHOOL	ERU 5	_	_	-			200	14					2.0		
$\frac{HC}{6}$	HIGH SCHOOL	ERU 6	-	_	_			6000	396					40.0		
(HC) 7	MIDDLE SCHOOL	ERU3 EXIST	-	_	_			8000	528					53.0		
HC 8	HIGH SCHOOL	ERU 8	_	_	_			1500	99					10.0		
$\frac{HC}{9}$	HIGH SCHOOL	ERU 9	-	_	_			400	27					3.0		
(HC)	MIDDLE SCHOOL	ERU 11	_	_	_	V	•	400	27	•	V		•	3.0		

 $oldsymbol{N}$  (1) entering water temperature 180°F, 20°F  $\Delta$ T.

2) PROVIDE INSPECTION AND CLEANING DUCT ACCESS DOOR ON UPSTEAM SIDE OF COIL.

THE HOT WATER COIL IS SIZED TO HANDLE OUTDOOR AIR QUANTITIES AT 100 PERCENT OF OCCUPANCY WITHOUT HAVING TO RESORT TO CLOSING OUTDOOR AIR INTAKE DAMPERS ON A "DESIGN HEATING DAY" TO PREVENT FREEZE-UP.

			SC	CHEL	DULE	OF	B	OILERS	)	
В	OILER DATA	4	BURI	VER DAT	A	ELECTR	ICAL	PHYSICAL	DATA	
MARK	LOCATION	MODEL Nº ①	INPUT (MBH)	OUTPUT (MBH)	FUEL	SERVICE	MCA	(IN)	WEIGHT (LBS)	REMARKS
B B B B 6	BOILER ROOM	ENDURA 1000	1000	902	GAS	120/1/60	20	28Wx51Lx68H	2000	REFER TO 23456

 ${\sf N}$  (1) as manufactured by "fulton".

BURNER INTEGRAL TO BOILER.

[ (3) INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

BOILER INSTALLATION SHALL CONFORM TO ALL REQUIREMENTS OF INSURANCE UNDERWRITER, NFPA AND ALL AUTHORITIES HAVING JURISDICTION. BOILERS SHALL BE FULLY FIELD COMMISSIONED BY AUTHORIZED TECHNICIAN FOR THE TYPE OF GAS FIRED (LPG OR NG). IF THE TYPE OF GAS IS CHANGED AFTER STARTUP 6 HOT WATER BASED ON 140°F E.W.T., 160°F L.W.T. THE BOILERS SHALL BE FULLY RE-COMMISSIONED BY AUTHORIZED TECHNICIAN.

5 PROVIDE MANUFACTURER RECOMMENDED COMBUSTION AIR INTAKE AND EXHAUST VENT PIPING, VENT PIPE CONDENSATE DRAIN, HIGH/LOW LIMIT CONTROL, DUAL LOW WATER CUT OFFS, OUTDOOR AIR TEMPERATURE SENSOR KIT, MULTIPLE BOILER CONDENSATE NEUTRALIZER PACKAGE. VENT PIPING PER THIS MANUFACTURER AL-29-4C OR 316L, BACNET CONTROLS, DISCONNECT SWITCH, LEAD LAG CONTROLS, MOTORIZED ISOLATION VALVES, BOILER PUMP START/STOP SIGNAL, VENTLESS GAS TRAIN, MODSYNC CONTROL PANEL

3 AS MANUFACTURED BY "AUBURN".

CLASSROOM (AGES 9+)

80

150

ELEVATOR LOBBY 300

			BOILER DATA	4							BURΛ	IER DATA							INDUCED DA	PAFT FAI	N DATA	
MARK	SERI	/ICE	MODEL Nº ①	NUMBE SECTI		MOL Nº	DEL ②	OUTPU (BHP)	T OU. MBI	ITPUT PH/HR)	BOILER EFFICIENCY	FIRING RATE OIL (GPH)	FIRING GAS (	G RATE (MBH)	BUR MOTO	NER R HP	OIL PU MOTOR	JMP HP	MODEL Nº ③	MO. H	TOR IP	REMARKS
BOILER #1	ORIG.L & ADL	BLDG. DITION	6500 -S-21	2	1	C7-G	0–30	325	84	463	83.7%	92	-	_	7 (208/	1/2 (3/60)	3/4 (208/3)	1 /60)	24C30D-3	(208/	3 /3/60)	
BOILER #2																						
BOILER #3			V		1	Ţ	1	•		V	V	V		<b>V</b>	Ţ	1	<b>V</b>		•		<b>V</b>	
N (	1) AS 2) AS		FACTURED E																			

SCHEDULE OF EXISTING STEAM BOILERS

				S	CHE	DUL	E O	F PL	<i>IMPS</i>		
MARK	SERVICE	LOCATION	MODEL Nº <b>①</b>	GPM	HEAD FT.H₂O	RPM	MOTOR HP/BHP	ELECTRIC SERVICE	PHYSICAL (IN)	DATA WEIGHT (LBS)	REMARKS
HWP HWP 2	HEATING LOOP	MECHANICAL	SERIES E-1510 5GB	800	80	1800	30/21	460/3/60	25Wx56Lx30H	1100	REFER TO 23
HWP HWP 3 4	HEATING LOOP	MECHANICAL	SERIES E-1510 3AD	300	130	1800	25/17.5		21Wx52Lx24H	900	REFER TO 23
HWP HWP 5 6	HEATING LOOP	MECHANICAL	SERIES E-1510 3AD	300	130	1800	25/17.5		21Wx52Lx24H	900	REFER TO 23
1 8 9	HEATING LOOP	MECHANICAL	SERIES E-80 4x4x9.5B	200	20	1170	2/1.5		12Wx25Lx29H	300	REFER TO 23
EHWP EHWP 10 11	HEATING LOOP	MECHANICAL	- -	200	75	1750	7.5/-	•	_	_	REFER TO 4

AS MANUFACTURED BY "BELL & GOSSETT".

EXISTING PUMPS SHALL BE INSPECTED, REFURBISHED TO EXISTING DESIGN CONDITIONS. REPAIR PUMPS AS REQUIRED IF FOUND NOT OPERATING PROPERLY. PROVIDE INITIAL WATER BALANCING REPORT PRIOR TO HEAT EXCHANGER DEMOLITION FOR BASELINE OF

				•	SCH	EDU	LE	OF	UNIT	VE	NTIL	AT	OR.	S		
	MODEL		MIN.	COOLING	G DATA	HEAT		TA 2	FILTER	LIOTOS	FLEC				PHYSICAL DATA	
MARK	No.	CFM	O.A. CFM	TOTAL CAPACITY MBH	SENSIBLE CAPACITY MBH	CAPACITY MBH	GPM	ROWS			SERV.		MCA	MOP	DIMENSION / WEIGHT	REMARKS
$\frac{UV}{A}$	FRESHMAN ① HNA1000BC	1000	550	-	_	76	5	2	THROWAWAY (2)12"x20"x2"	0.5 EA	208/1/60	4.7	9.5	15	40"Lx35"Wx115"H/600LBS	REFER TO
UV B	FRESHMAN ① HNA1800BC	1750	550	_	_	76	5	2	THROWAWAY (2)12"x20"x2"	0.5 EA	208/1/60	4.7	14.4	20	47"Lx35"Wx115"H/600LBS	34
COS	MAUV1500	1500	1055	_	_	84	9	3	THROWAWAY	0.5	115/1/60	4.7	5.9	15	100"Lx22"Wx30"H/750LBS	36

O 6 AS MANUFACTURED BY "MAGIC AIRE CORP". T 2 BASED ON 160° F E.W.T., 140° F L.W.T.

N () AS MANUFACTURED BY "CHANGEAIR SYSTEMS". 4 UNIT SHALL INCLUDE ERV (ENERGY RECOVERY WHEEL) PACKAGE, SOUND PACKAGE, (5) UNIT SHALL INCLUDE HOT WATER HEATING COIL, FULL ADAPTER

HOT WATER HEATING COIL, DX COIL FOR FUTURE CONNECTION, 24" HIGH

BACK WITH PIPE TUNNEL, INSULATED VALVE PACKAGE, DISCHARGE ACOUSTICALLY LINED SUPPLY PLENUM WITH MULTIPLE REGISTERS, FIELD ERECTED GRILLE WITH SCREEN, INSULATED OUTSIDE AIR DAMPER, FACE TOP EXTENSION SECTIONS TO CEILING, MODULATING ECONOMIZER (100% OA) AND BYPASS DAMPER, 2" MERV 8 FILTERS.

E 3 INSTALL PER MANUFACTURER'S RECOMMENDATIONS CONTROLS, POWERED EXHAUST, FIELD ERECTED REAR PLENUM SECTIONS, FULL SIZE LOUVER, BACNET CONTROLLER, ISOLATION VALVES, STRAINERS, PT PORTS, BRAIDED HOSE-KIT, 2" THICK MERV 13 FILTERS, SIDE PIPE COVERS, FULL HEIGHT SIDE PANELS FROM UNIT TO WALL AND TOP/BOTTOM TRIM/COVE BASE PIECES. (ALL EXTENSIONS, PANELS, PIPE ENCLOSURÉS AND TRIM/COVE BASE PIECES SHALL MATCH UNIT COLOR AND FINISH).

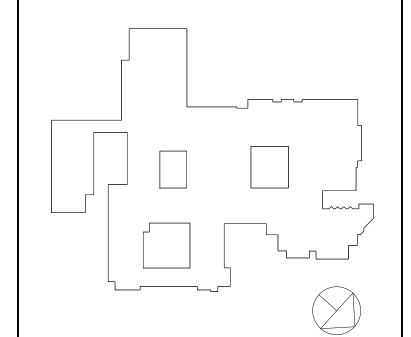
			SCHEDUL	LE OF MINIMU	JM VENTILATIO	N ROOM FLOV	V RATES				
		А	В	С	D	E	F	G	н		
ROOM NAME/NUMBER	OCCUPANCY CATEGORY	ROOM AREA (SQ.FT.)	PEOPLE DENSITY (#P/1000 SQ.FT.)			EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	NUMBER OF PEOPLE (A×B)÷1000=#P	OUTDOOR AIR FLOW RATE WITHOUT ZONE EFFECTIVENESS FACTOR (F×C)+(A×D)=CFM	ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	MINIMUM ROOM VENTILATION AIR FLOW RATE G÷H=CFM	MINIMUM EXHAUST AIR FLOW RATE A×E=CFM
H203				T							
CLASSROOM 191	CLASSROOM (AGES 9+)	743	35	10	0.12	0	27	359	0.8	449	0
CONFERENCE ROOM	, ,										
102	CONFERENCE/MEETING	377	50	5	0.06	0	19	118	0.8	147	0
OFFICE 112	OFFICE SPACE	99	5	5	0.06	0	1	11	0.8	14	0
OFFICE 116	OFFICE SPACE	105	5	5	0.06	0	1	11	0.8	14	0
NURSE 118	OFFICE SPACE	115	5	5	0.06	0	1	12	0.8	15	0
TOILET 118A	TOILETS - PUBLIC	53	2 FIXTURES		-	50 CFM/ FIXTURE	-	-	-	-	100
ROOM 143I	BREAK ROOMS	50	50	5	0.12	0	3	21	0.8	26	0
H204 MIDDLE SCHOOL GYM 131 H205	GYM, SPORTS ARENA (PLAY AREA)	6287	7	20	0.18	0.5	45	2032	0.8	2540	3144
LEARNING COMMONS 143	MEDIA CENTER	1996	25	10	0.12	o	50	740	0.8	924	0
OFFICE 141A	OFFICE SPACE	253	5	5	0.06	0	2	25	0.8	31	0
CLASSROOM 136	CLASSROOM (AGES 9+)	677	35	10	0.12	0	24	321	0.8	402	0
GLASSROOM 138	CLASSROOM (AGES 9+)	677	35	10	0.12	0	24	321	0.8	402	0
CLASSROOM 140	CLASSROOM (AGES 9+)	677	35	10	0.12	0	24	321	0.8	402	0
TEACHER WORKROOM 145	CLASSROOM (AGES 9+)	756	35	10	0.12	o	27	361	0.8	451	0
H206 HIGH SCHOOL GYM 179  AUXILARY GYM 177	GYM, SPORTS ARENA (PLAY AREA) GYM, SPORTS ARENA	8987 5507	7	20	0.18	0.5 0.5	63	2878 1771	0.8	3597 2214	4494 2754
H207	(PLAY AREA)										
CAFETERIA	CAFETERIA/FAST-FOOD DINING	4488	100	7.5	0.18	О	449	4175	0.8	5219	0
H209 CLASSROOM 221	CLASSROOM (AGES 9+)	691	35	10	0.12	0	25	333	0.8	416	0
CLASSROOM 223	CLASSROOM (AGES 9+)	691	35	10	0.12	0	25	333	0.8	416	0
CLASSROOM 225	CLASSROOM (AGES 9+)	691	35	10	0.12	0	25	333	0.8	416	0
CLASSROOM 224	CLASSROOM (AGES 9+)	920	35	10	0.12	0	33	440	0.8	551	0
CLASSROOM 226	CLASSROOM (AGES 9+)	716	35	10	0.12	0	26	346	0.8	432	0
CLASSROOM 218	CLASSROOM (AGES 9+)	1040	35	10	0.12	0	37	495	0.8	619	0
CLASSROOM 220	CLASSROOM (AGES 9+)	1030	35	10	0.12	0	37	494	0.8	617	0
CLASSROOM 222	CLASSROOM (AGES 9+)	908	35	10	0.12	0	32	429	0.8	536	0
H210											
OFFICE 239	OFFICE SPACE	870	5	5	0.06	0	5	77	0.8	97	0
OFFICE 240	OFFICE SPACE	870	5	5	0.06	0	5	77	0.8	97	0
H211											
LEARNING STUDIO 310	CLASSROOM (AGES 9+)	402	35	10	0.12	o	15	198	0.8	248	0
LEARNING STUDIO 312	, , ,	402	35	10	0.12	0	15	198	0.8	248	0
LEARNING COMMONS	CLASSROOM (AGES 9+)	2240	35	10	0.12	0	79	1059	0.8	1324	0
SGD 215	I // A CCDOOM /ACEC OA)	105	25	10	0.12	1 0 1	Λ	52	າ ຂ	l 66	Λ

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Revision Schedule Description

09/15/2020 SED Submission 01/08/2021 SED Submission Addendum#1

ISSUED FOR BID 01/19/2021 BID ADDENDUM #1



## Geddis Architects

Architecture. Planning. Interiors

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Transforming Education by Design

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401-861-3218

## SED #: 6618-0001-0005-031

PROJECT

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Rye City School District 555 Theodore Fremd Ave, Rye, NY 10580

Rye High School & Middle

1 Parsons Street, Rye, New York 10580

HIGH SCHOOL & MIDDLE SCHOOL SCHEDULE

SEAL & SIGNATURE | DATE: PROJECT No: 9200

DRAWING BY: BGA BGA CHK BY: DWG No: H2-302

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

DBE: TAB: Layout1 - Y:\RYE CITY SD\Rye CSD - 2019 Bond - Phase 2 (1937.00)\Drawings\HVAC\a193700H-302-MHS.dwg - DATE: Jan 28, 2021 - 2:31pm