SCOPE OF WORK

EXISTING EQUIPMENT

The following represents an analysis of existing equipment at each school.

Sullivan School - Existing Units/Proposed Units

Existing Unit Tag	Existing Model	Existing Serial	Existing Tonnage	Existing BTU/h	Existing Voltage	Existing Phase	Existing Amps	Existing EER/SEER
1/ACCU 4	TTA090AA400AA	F08194656	7.5	90000	460	3	13.2 - 30 Max	9.59
1	TTD724B100B0	F12229962	2	24000	200/230	1	12.0 - 25 Max	9.2
2	TTA030A400B0	F10212419	2.5	30000	460	3	4.9 - 15 Max	9.2
3	TTD718B100A0	F12228072	1.5	18000	200/230	1	8.7 - 20 Max	9.2
4	TTA036A400B0	F07287081	3	36000	460	3	6.0 - 15 Max	9.2
5	TTA042A400B0	F07287105	3.5	42000	460	3	6.9 - 15 Max	9.2
6	TTA030A400B0	F10212414	2.5	30000	460	3	4.9 - 15 Max	9.2
7	TTA030A400B0	F10212415	2.5	30000	460	3	4.9 - 15 Max	9.2
8	TTA036A400B0	F05270389	3	36000	460	3	6.0 - 15 Max	9.2
9	TTD718B100A0	F12228070	1.5	18000	200/230	1	8.7 - 20 Max	9.2
10	TTA030A400B0	F10212418	2.5	30000	460	3	4.9 - 15 Max	9.2
11	TTA042A400B0	F07287107	3.5	42000	460	3	6.9 - 15 Max	9.2
12	TTA072A400B0	F13241741	6	72000	460	3	10.1 - 20 Max	9
14	RAUCC254BD03B	J90M82325	25	300000	460	3	56 - 80 Max	12.38

Wang School - Existing Units/Proposed Units

Existing Unit Tag	Existing Model	Existing Serial	Existing Tonnage	Existing BTU/h	Existing Voltage	Existing Phase	Existing Amps	Existing EER/SEER
ACCU-1	TTA090A400AA	F08194657	7.5	90000	460	3	13.2 - 30 Max	9.59
1	TTA036A400B0	F05270385	3	36000	460	3	6.0 - 15 Max	9.2
2	TTD718B100A0	F12228050	1.5	18000	200/230	1	8.70 - 20 Max	9.2
3	TTD724B100B0	F12229917	2	24000	200/230	1	12.0 - 25 Max	9.2
4	TTD718B100A0	F12228058	1.5	18000	200/230	1	8.7 - 20 Max	9.2
5	TTA030A400B0	F10212412	2.5	30000	460	3	4.9 - 15 Max	9.2
6	TTA030A400B0	F10212416	2.5	30000	460	3	4.9 - 15 Max	9.2
7	TTD718B100A0	F12228042	1.5	18000	200/230	1	8.7 - 20 Max	9.2
8	TTA036A400B0	F05270382	3	36000	460	3	6.0 - 15 Max	9.2
9	TTA030A400B0	F10212413	2.5	30000	460	3	4.9 - 15 Max	9.2
10	TTA042A400B0	F07287099	3.5	42000	460	3	6.9 - 15 Max	9.2
11	TTA036A400B0	F05270381	3	36000	460	3	6.0 - 15 Max	9.2
12	TTA042A400B0	F07287104	3.5	42000	460	3	6.9 - 15 Max	9.2
13	TTA072A400B0	F13241735	6	72000	460	3	10.1 - 20 Max	9.2
14/ACCU-2	RAUCC254BD03B	J90M82332	25	300000	460	3	56 - 80 Max	12.38

PROPOSED EQUIPMENT REQUIREMENTS

All units to be replaced shall be properly disposed of by the selected applicant. Applicant shall also confirm necessary tonnage and voltage.

An excerpt of the MassSave Rebate form can be found below. All replacement equipment is required to meet a Level 2 Minimum SEER & EER rating requirements.

Minimum Efficiency Levels /Incentive Levels			
HVAC UNIT SIZE		LEVEL 2	
Tons	Btuh	Min. SEER/EER for Incentive	Incentive $/Ton
Air Conditioning Systems			
Air Cooled Unitary and Split (new condenser and new coil) Air Conditioning Systems			
< 5.4	< 65,000 Split	15.0 SEER & 12.5 EER	$125
< 5.4	< 65,000 Packaged	15.0 SEER & 12.0 EER	$125
≥ 5.4 to < 11.25	≥ 65,000 to < 135,000	12.0 EER	$80
≥ 11.25 to < 20	≥ 135,000 to < 240,000	12.0 EER	$80
≥ 20 to < 63	≥ 240,000 to < 760,000	10.8 EER	$50
≥ 63	≥ 760,000	10.2 EER	$50

Contractor will be responsible for furnishing and installing new replacement condenser units for all of the aforementioned units listed in the Existing Equipment section of this scope. Contractor is required to furnish and supply all materials and labor required for a complete installation of these units. All new equipment shall be compatible with the existing Trane operating system. Contractor will be required to submit cut sheets of all proposed mechanical equipment to be used on this project for approval from the proper City personnel.

All units are required to be R22 compatible. All existing piping shall be utilized, but contractor will be responsible for providing any additional piping required to tie the new units into the existing piping. Contractor shall be responsible for vacuum pumping and flushing the existing piping, as well as installing compatible filter dryers. All pipe tie-ins and any damaged piping shall be the responsibility of the contractor. Any expansion valves upgrades and/ or meter replacements necessary to ensure condenser/coil compatibility shall be the responsibility of the applicant.

Contractor shall additionally be responsible to commission new units and leak check and repair/replace any units as necessary. The contractor will be responsible to verify electrical service needs, and will be responsible for any service repairs as needed. All existing phases shall be replaced like-for-like. Contractor will be responsible for reconnecting any existing EMS wiring to the new condenser units.

All new condenser units shall include a new sleeper/condenser pad. The contractor will be responsible for providing and installing new sleeper/pads at the time of installation of the condenser units.

Delivery of units and work schedule shall be coordinated with Brian Curley, the School Department's Operations and Maintenance Director. Any personnel to work on site shall need to pass a CORI examination. Contractor shall be responsible for all hoisting of equipment and materials required to complete this scope of work.

Any new rooftop pads necessary shall be the responsibility of the applicant. All connections to existing air handlers/ EMS system shall be completed by the applicant.

Contractor shall provide a site logistics plan. Contractor shall be responsible for labeling the new units for ease of any necessary future maintenance.