

FORM "M" MECHANICAL SUBTRADE LIST

CONTRACTOR

PROJECT: Robert Service School Mechanical Upgrade Construction Contract

Mechanical contractors are to complete the following subtrade list and include a copy of it within the main envelope submitted through the Bid Depository. The list represents the Contractor and subcontractors that will be used to complete various portions of the Mechanical work on the project.

All Divisions and sections taken from Tender Specification Documents.

Each line is to be filled out with either the name of the Contractor or subcontractor to be used, or with an N/A (not applicable).

At the bottom of form M is the list of exclusions that are not the responsibility of the mechanical contractor. The work or services excluded below only apply for the purposes of the Bid Depository process, and do NOT apply to the procurement by the Owner. General Contractors are still solely responsible for and must include the full cost and price of such work or services into its Bid or Proposal for the Owner.

TABLE "A"

	Name of Contractor	Subcontractor	Own Forces (if contractor will also be General Contractor. Indicate all employees of General Contractor who will be performing work with their corresponding certification number)
DIVISION 20 – MECHANICAL SUPPORT			
Section 20 01 01 - Common Work Results for Mechanical			
Section 20 01 06 - Mechanical Operation and Maintenance Manuals			
Section 20 20 10 - Pipe and Pipe Fittings			

Section 20 15 00 - Tanks			
Section 20 20 30 - Piping and Equipment Insulation			
DIVISION 22 - PLUMBING			
Section 22 42 01 - Plumbing Specialties and Accessories			
Section 22 42 03 - Plumbing Fixtures and Trim			
DIVISION 23 – HEATING, VENTILATION AND AIR CONDITIONING (HVAC)			
Section 23 05 05 - Selective Demolition for Mechanical Systems			
Section 23 05 13 - Common Motor Requirements for HVAC Equipment			
Section 23 05 14 - Variable Frequency Drives			
Section 23 05 17 - Pipe Welding			
Section 23 05 19 - Meters			

Section 23 05 20 - Thermometers and Pressure Gauges			
Section 23 05 23 - Valves			
Section 23 05 29 - Hangers and Supports for HVAC Piping and Equipment			
Section 23 05 48 - Vibration and Seismic Controls for HVAC Piping and Equipment			
Section 23 05 53 - Identification for HVAC Piping and Equipment			
Section 23 05 90 - General Mechanical Starting and Testing Requirements			
Section 23 05 91 - Mechanical Equipment Starting and Testing			
Section 23 05 93 - Balancing and Adjusting for HVAC			
Section 23 05 95 - Mechanical Equipment and Systems Demonstration and Instruction			
Section 23 07 00 - Ductwork and Breeching Insulation			
Section 23 08 01 - Performance Verification Mechanical Piping Systems			

Section 23 08 02 - Cleaning and Start-up of Mechanical Piping Systems			
Section 23 09 33 - Electric and Electronic Control System for HVAC			
Section 23 21 14 - Hydronic Specialties			
Section 23 21 23 - Pumps			
Section 23 25 00 - HVAC Water Treatment Equipment			
Section 23 31 13 - Ductwork			
Section 23 33 00 - Air Duct Accessories			
Section 23 34 00 - Fans			
Section 23 36 00 - Air Terminal Units			
Section 23 44 00 - HVAC Air Filtration			
Section 23 51 00 - Breeching, Chimneys and Stacks			

Section 23 52 00 - Heating Boilers			
Section 23 73 10 - Air Handling Units - Custom			
Section 23 82 10 - Coils			
Section 23 84 13 - Humidifiers			
DIVISION 25 – Integrated Automation Building Controllers, Field Control Devices, Variable Frequency Drives (600 Volts)			
All Applicable Wiring & Conduit for Controls			
Section 25 01 11 - BMS: Start-up, Verification and Commissioning			
Section 25 01 12 - BMS: Training			
Section 25 05 01 - BMS: General Requirements			
Section 25 05 02 - BMS: Submittals and Review Process			
Section 25 05 03 - BMS: Project Record Documents			

Section 25 05 54 - BMS: Identification			
Section 25 05 60 - BMS: Field Installation			
Section 25 08 20 - BMS: Warranty and Maintenance			
Section 25 10 01 - BMS: Local Area Network (lan)			
Section 25 10 02 - BMS: Operator Work Station (ows)			
Section 25 30 01 - BMS: Building Controllers			
Section 25 30 02 - BMS: Field Control Devices			
Section 25 90 01 - BMS: Site Requirements, Applications and Systems Sequences of Operation			
Blanks for any section or subsection not listed from the above.			

COMMON EXCLUSIONS FOR ALL TRADE SECTIONS AND DIVISIONS

- temporary power, heat, water, sanitation, barriers
- heating and hoarding
- onsite first aid
- final cleaning
- initial removal of snow and ice
- fees or cash allowances for service connections unless specified in the trade section
- on site security, if specified
- testing unless specified in the trade section
- provision of gridlines and benchmarks on each level
- repairs to damage by others after completion and acceptance of the work
- temporary lighting unless specifically detailed on the electrical drawings that are part of the *Bid* for Division 2 work
- provision of garbage/refuse/recyclable containers and their removal (including disposal fees), except the *Trade Contractor* shall be responsible for removal from the site of demolition materials, hazardous materials and drywall
- cost for a reasonable number of copies of all *Project Documents* where not provided by the *Owner*
- temporary dust control and/or ventilation systems required as a project specified environmental condition for the entire project. Note: where it is a requirement to meet the needs of one specific *Trade Contractor* and specified thus, then that *Trade Contractor* shall be responsible to include for the cost of this work.

DIVISION 1 – MECHANICAL (and related Sections/Divisions)

- outside service piping not shown or specified in the Division 1 plans or specifications, fittings, precast concrete and related
- work beyond one meter of the building, with the exception of gas line from the gas meter to the building
- excavation, compaction, backfilling, dewatering (except where required for geothermal heat pump systems)
- line voltage wiring or control (over 24 volt) unless specified in this section
- painting when specified in Section 09900 Painting
- pipe bollards
- asbestos abatement unless specified in this section
- asbestos abatement when also specified in another section
- cutting, patching unless due to error by this trade (except in-ground coring or drilling for geothermal heat pump systems)
- concrete work
- furring and backing
- filter fabric and drain rock
- weeping tile and/or footing drains and their cleanout risers including the cleanout
- seismic restraint, seismic restraint design, approval or seals unless specified in this section
- thermal concrete used for duct insulation (zonolytic concrete)
- buried corrugated metal culvert piping or tanks constructed of corrugated metal culvert

- non-plumbing pipe rainwater leaders such as hollow steel sections (HSS)
- removal of existing outside site service piping and underground piping except petroleum fuel pipes and tanks when specified in this division
- perforated piping/weeping tile drainage systems (such as for playing fields)
- x-rays for cutting, patching unless due to error by this trade