

FORM "M" MECHANICAL SUBTRADE LIST

CONTRACTOR

PROJECT: WHITEHORSE GYMNASTICS AND CLIMBING FACILITY CONSTRUCTION

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 10 – SPECIALTY SYSTEMS			
10 44 16 – FIRE EXTINGUISHERS			
DIVISION 20 – PIPING			
20 01 01 – COMMON WORK RESULTS FOR MECHANICAL			

20 01 06 – MECHANICAL OPERATION AND MAINTENANCE MANUALS			
20 15 00 – TANKS			
20 20 10 – PIPE AND PIPE FITTINGS			
20 20 30 – PIPING AND EQUIPMENT INSULATION			
DIVISION 21 – FIRE SUPPRESSION			
21 08 00 – COMMISSIONING OF FIRE SUPPRESSION			
21 13 13 – WET PIPE SPRINKLER SYSTEMS			
21 13 16 – DRY PIPE SPRINKLER SYSTEMS			
DIVISION 22 – PLUMBING			
22 08 00 – COMMISSIONING OF PLUMBING			
22 42 00 – PLUMBING FIXTURES AND TRIM			

22 42 01 – PLUMBING SPECIALTIES AND ACCESSORIES			
DIVISION 23 – HEATING, VENTILATION AND AIR CONDITIONING (HVAC)			
23 05 13 – COMMON MOTOR REQUIREMENTS FOR HVAC EQUIPMENT			
23 05 14 – VARIABLE FREQUENCY DRIVES			
23 05 16 – EXPANSION FITTINGS AND LOOPS FOR HVAC PIPING			
23 05 17 – PIPE WELDING			
23 05 19 – METERS			
23 05 20 – THERMOMETERS AND PRESSURE GAUGES			
23 05 23 – VALVES			
23 05 29 – HANGERS AND SUPPORT FOR HVAC PIPING AND EQUIPMENT			
23 05 48 – VIBRATION AND SEISMIC CONTROLS FOR HVAC PIPING AND EQUIPMENT			

23 05 53 – IDENTIFICATION FOR HVAC PIPING AND EQUIPMENT			
23 05 90 – GENERAL MECHANICAL STARTING AND TESTING REQUIREMENTS			
23 05 91 – MECHANICAL EQUIPMENT STARTING AND TESTING			
23 05 92 – MECHANICAL SYSTEMS STARTING AND TESTING			
23 05 93 – BALANCING AND ADJUSTING FOR HVAC			
23 05 95 – MECHANICAL EQUIPMENT AND SYSTEMS DEMONSTRATION AND INSTRUCTION			
23 07 00 – DUCTWORK AND BREECHING INSULATION			
23 08 01 – PERFORMANCE VERIFICATION MECHANICAL PIPING SYSTEMS			
23 08 02 – CLEANING AND STARTUP OF MECHANICAL PIPING SYSTEMS			
23 21 14 – HYDRONIC SPECIALTIES			
23 21 23 – PUMPS			

23 23 00 – REFRIGERANT PIPING			
23 25 00 – HVAC WATER TREATMENT EQUIPMENT			
23 31 13 – DUCTWORK			
23 33 00 – AIR DUCT ACCESSORIES			
23 34 00 – FANS			
23 36 00 – AIR TERMINAL UNITS			
23 37 10 – AIR OUTLETS			
23 44 00 – HVAC AIR FILTRATION			
23 51 00 – BREECHING, CHIMNEYS AND STACKS			
23 52 00 – HEATING BOILERS			
23 57 00 – HEAT EXCHANGERS FOR HVAC			

23 73 10 – AIR HANDLING UNITS – CUSTOM			
23 81 40 – AIR AND WATER SOURCE UNITARY HEAT PUMPS			
23 82 10 – COILS			
23 82 19 – TERMINAL HEAT TRANSFER UNITS			
23 82 20 – ELECTRIC HEATERS			
23 84 13 – HUMIDIFIERS			
DIVISION 25 – CONTROLS AND AUTOMATION			
25 01 11 – BMS: START-UP VERIFICATION AND COMMISSIONING			
25 01 12 – BMS: TRAINING			
25 05 01 – BMS: GENERAL REQUIREMENTS			
25 05 02 – BMS: SUBMITTALS AND REVIEW PROCESS			

25 05 03 – BMS: PROJECT RECORD DOCUMENTS			
25 05 54 – BMS: IDENTIFICATION			
25 05 60 – BMS: FIELD INSTALLATION			
25 08 20 – BMS: WARRANTY AND MAINTENANCE			
25 10 01 – BMS: LOCAL AREA NETWORK (LAN)			
25 10 02 – BMS: OPERATOR WORKSTATION (OWS)			
25 30 01 – BMS: BUILDING CONTROLLERS			
25 30 02 – BMS: FIELD CONTROL DEVICES			
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 the propane system (tanks, piping, equipment and devices)
- excavation, compaction, backfilling, dewatering
- 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
- 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
- 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