

MECHANICAL SPECIFICATION

Work included - The work included under this section shall consist of all labor, materials, tools, equipment, power transportation, holding equipment, etc. of every description necessary for entire completion of the mechanical work of contract, all as specified herein, shown on the drawings or reasonably implied by either, complete in every respect unless specifically excepted herein. The work included in this contract shall consist of the installation, test, and guarantee of all work.

Site Visit - Contractor shall visit site during bidding period to determine field conditions that may affect his work.

HVAC work shall be as indicated on the plans and as herein specified, the work shall consist of providing complete operational hvac systems as indicated on the drawings. The system shall be tested and balanced. Capacities shall be as shown on the drawings, adjustments as required shall be made by the contractor to install the work within the intent of the drawings and specifications and to provide an acceptable system. The work shall be tested in accordance with state codes, local codes, orders, and standard recommendations.

Whenever a material, article, or piece of equipment is identified on the drawings by reference to manufacturers' vendors names, trade names, catalog numbers, or the like, the contractor shall purchase and install the material, article, or piece of equipment of other manufacturers or vendors which will perform adequately the duties imposed by the general design will be considered equally acceptable provided the material, article, or piece of equipment so proposed is of equal substance, appearance, and function.

Shop Drawing - Submit shop drawings for all material and equipment

Laying out of Work - Contractor shall be governed by the existing field conditions shall coordinate all work with other trades.

Cutting and Patching- Respective contractors shall do all necessary cutting and patching for installation of his work. Patch all work to match

Painting - as a part of General Trades Work.

Guarantee - Contractor shall test all duct and piping systems for leakage before the system is placed in operation. The contractor shall test and balance the system, and instruct the owner in operation of the system after all test and balancing has been accomplished. All leaks observed in the system shall be repaired by either replacing or repairing the defective material or equipment in a manner approved by the engineer. Contractor shall guarantee all work and material for a period of one year after final acceptance by the owner.

Code and Permits - Contractor shall obtain and pay for all official permits, licenses and inspections required by law of governing bodies.

Steel Metal Work - All sheet metal work shall be fabricated and installed in accordance with SMACNA and ASHRAE standards constructed of galvanized steel with Pittsburgh lock seams. All square elbows shall include single

Calling Outlets - All floor outlets shall be as manufactured by Price Air Conditioning and Heating Equipment Co. Each outlet shall be furnished with an equalizing damper and volume control damper in the extension collar of each outlet. All outlets in floor shall be white unless otherwise noted.

Gas Fired Unit Heaters - shall be size and capacity listed on drawings. Acceptable manufacturer shall be Brierley, Moine and Sterling.

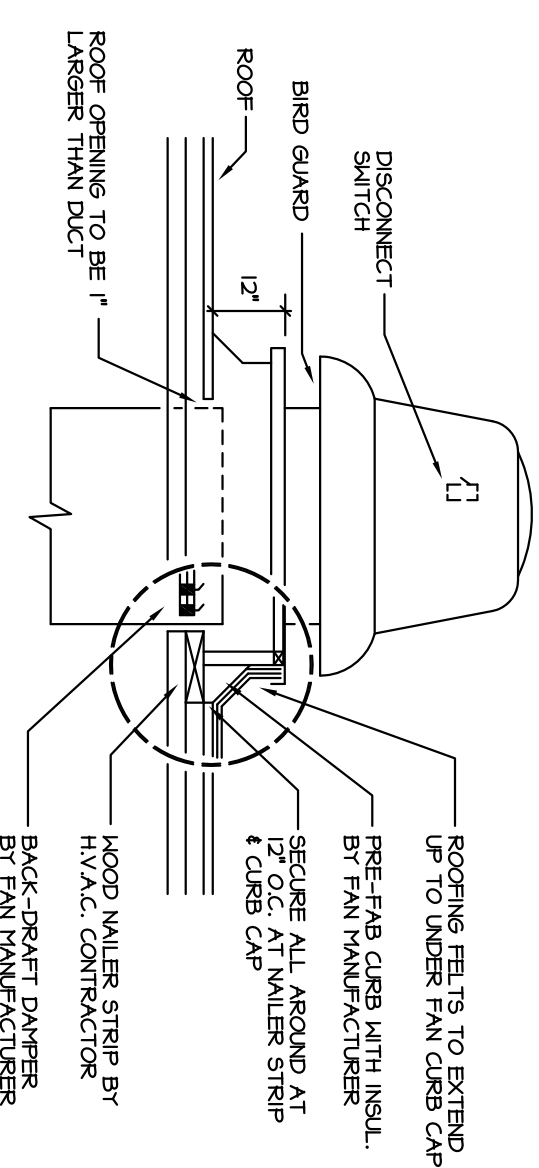
Exhaust Fans - Shall be size and capacity listed on drawings. Acceptable manufacturer shall be Greenheck, Cook, Fern Fan and Fenotherm.

TEMPERATURE CONTROL-

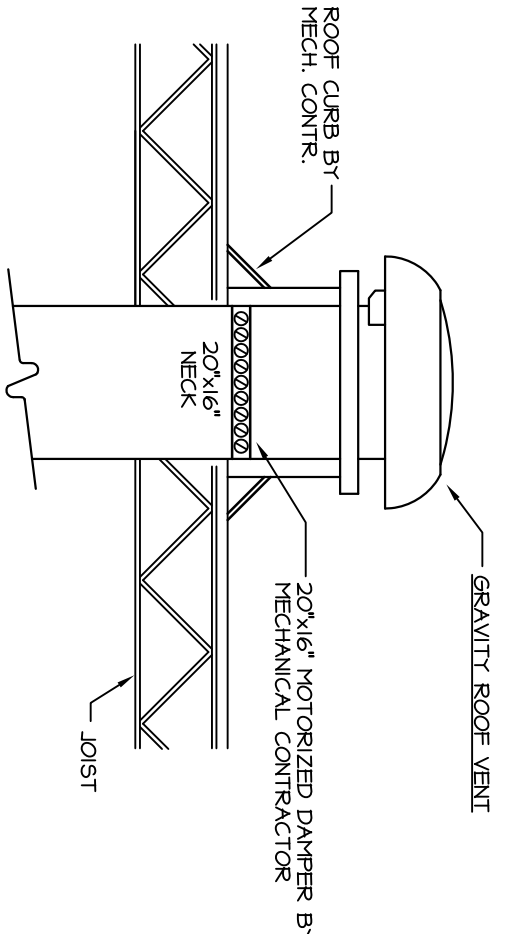
A. Service and Guarantee - This Contractor, after completion of the original test and installation and after acceptance by the Architect and engineer, shall provide any service incidental to the proper performance of the temperature control system under the guarantee as outlined in the general requirements for all trades.

B. Thermostats - All room thermostats where so indicated by a "T" on the plans shall be match the existing controls system. Each instrument shall be mounted on an insulating plate and the cover shall match the hardware within the room. The cover shall also have a thermometer, which will accurately indicate the temperatures at the instrument. Thermostats shall be of testing type.

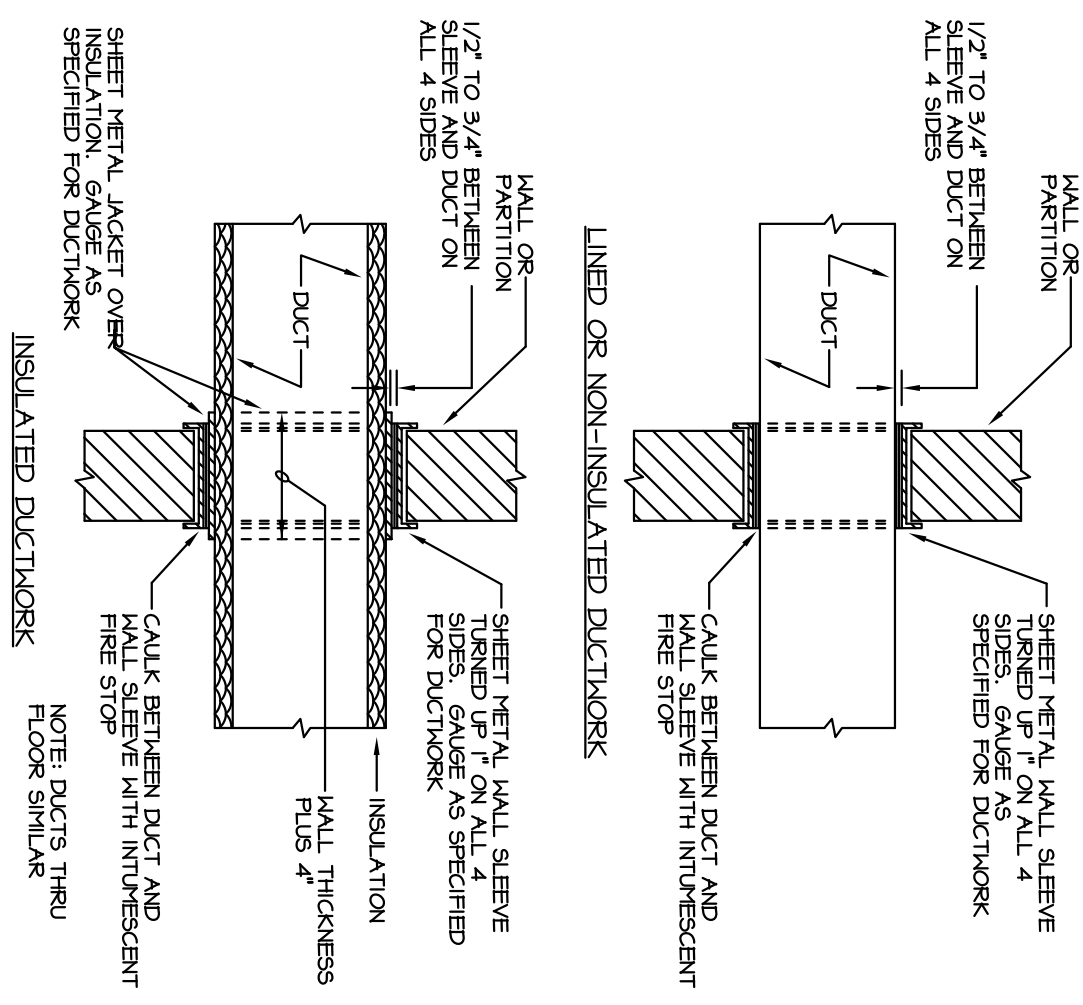
C. Electric Wiring - All electric wiring of room thermostats and necessary wiring for equipment interlocks shall be done by the HVAC Contractor.



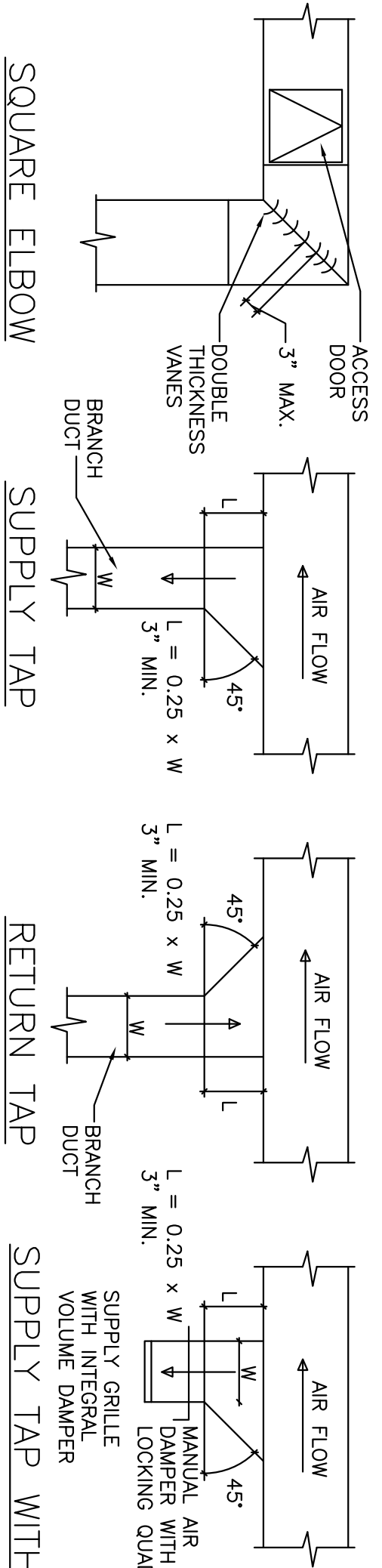
DETAIL OF ROOF EXHAUST FAN
N.T.S.



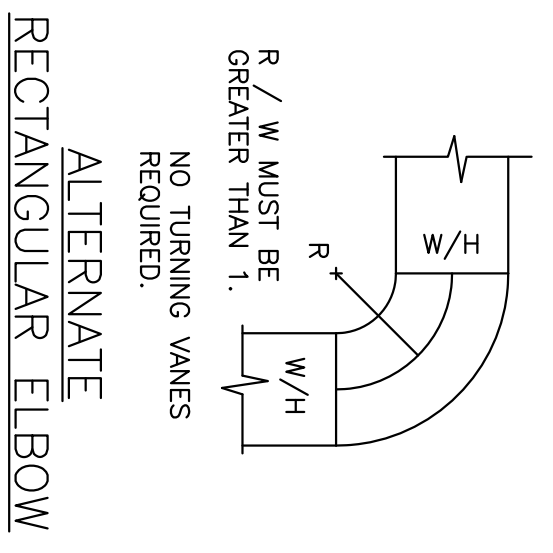
G.R.V. DETAIL
N.T.S.



DETAIL OF DUCTS PASSING THRU WALLS OR PARTITIONS
N.T.S.



DUCTWORK DETAIL
N.T.S.



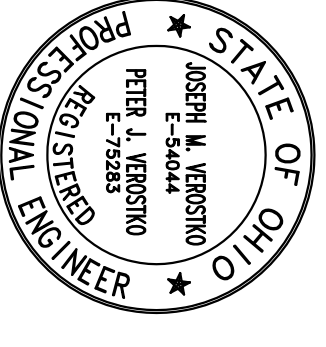
ALTERNATE RECTANGULAR ELBOW

J.M. VEROSTKO, INC.
CONSULTING ENGINEERS
2781 SALT SPRINGS ROAD
YOUNGSTOWN, OHIO 44509
PHONE: (330) 799-1339
URL: J.MVEROSTKO.COM

NEWPORT LIBRARY GARAGE ADDITION

NEWPORT BRANCH LIBRARY

YOUNGSTOWN, OHIO



FANIRO ARCHITECTS, INC.

217 1/2 WEST FEDERAL STREET YOUNGSTOWN, OHIO 44503

PHONE: 330 747 2800
FACSIMILE: 330 747 2802

SHEET NO. **M-2** DATE 30 SEPT. 2019
PROJ. NO. 1913 REV.

