



MECHANICAL AND ELECTRICAL PLAN

1
1/4" = 1'

LEGEND	
	BALL VALVE W/HOSE THREADS & BRASS CAP
	MOTOR FOR OVERHEAD GARAGE DOOR
	ELECTRICAL PANEL
	CEILING MOUNTED LIGHTS
	ELECTRICAL OUTLETS 4'-0" ABOVE FLOOR
	LIGHT SWITCH (THREE WAY)

SPECIFICATIONS

1. All water piping shall be Type-L hard drawn copper tubing with wrought copper or bronze fittings, 95-5 or "Silvabrite" solder.
2. HMC
- 2.1 Submittals
After the award of contract as soon as reasonably possible, the Contractor shall submit (4) copies of submittals for equipment and materials listed below. Submittals shall include catalogue cuts and descriptive data showing conformance with this Specification for:
 - A. Furnace
 - B. Oil Tank and Specialties
 - C. Supply Grilles
 - D. Fire Dampers
- 2.3 Ductwork
 - A. All sheet metal work shall be erected in a first class and workmanship manner, in accordance with the latest edition of the sheet metal duct manual published by SMACNA - Sheet Metal and Air Conditioning Contractors National Association, Inc., unless otherwise specified hereinafter in this Section
 - B. All duct work shall be supported rigidly and be securely braced as specified by means of angle iron, rods, channels irons, and cross-bracing and adequately attached by means to the structure. Hangers shall not be greater than 4'-0" apart. Ducts shall be securely anchored to structure.
 - C. All notches for connecting section of ducts, and all grooving seam notches shall not be cut any deeper than necessary to insure tight corners.
 - D. All ductwork shall be of the best bloom galvanized steel of gauges specified below and shall be stiffened by the use of galvanized rolled steel or aluminum angles.
 - E. All ducts shall be cross-broken. All exposed ducts shall be especially fabricated so as to present a pleasing appearance with all joints flush.
 - F. Ends of duct sections shall be notched and lapped at least one inch and connected with slip bolts, S slip or drive caps. Slips shall be made of a frame, flared and riveted at the corners to prevent leakage.
 - G. Maximum leakage for all ducts systems shall be 5% of design flow.
 - H. Duct elbows shall be square or rectangular, with a radius to which ratio of 1.5 unless otherwise specified.
- 2.4 Grilles
Grilles- provide supply air grilles sizes as indicated in drawings. Grilles shall be constructed of aluminum, with aluminum finish. Dampers for balancing shall be provided either with the grill or in the ductwork. Grilles shall be Metadore Model VHD, or approved equal.
- 2.5 Furnace
Furnace shall be 80% efficient, Oil Fired, 125,000 BTU input, 100,000 BTU output, 1100 CFM, Lowboy. Furnace to be York Model #A1f1d1f10001 or approved equal.
- 2.6 Thermostat
Thermostat shall be Honeywell Model 187J2350 or approved equal.
- 2.7 Cleaning
The interior of the duct shall be cleaned thoroughly, so that no dirt, dust, or other foreign matter can be deposited in or carried through the system, or discharged through the outlets.

**PROPOSED ADDITION
WESTMORE TOWN GARAGE
MECHANICAL & ELECTRICAL**

STATE OF VERMONT
Department of State Buildings
Agency of Administration
Montpelier, Vermont

SCALE:	AS NOTED
DATE:	JUNE 1995
DRAWN BY:	K. HENDERSON
APPROVED BY:	

REVISIONS	
	Approved