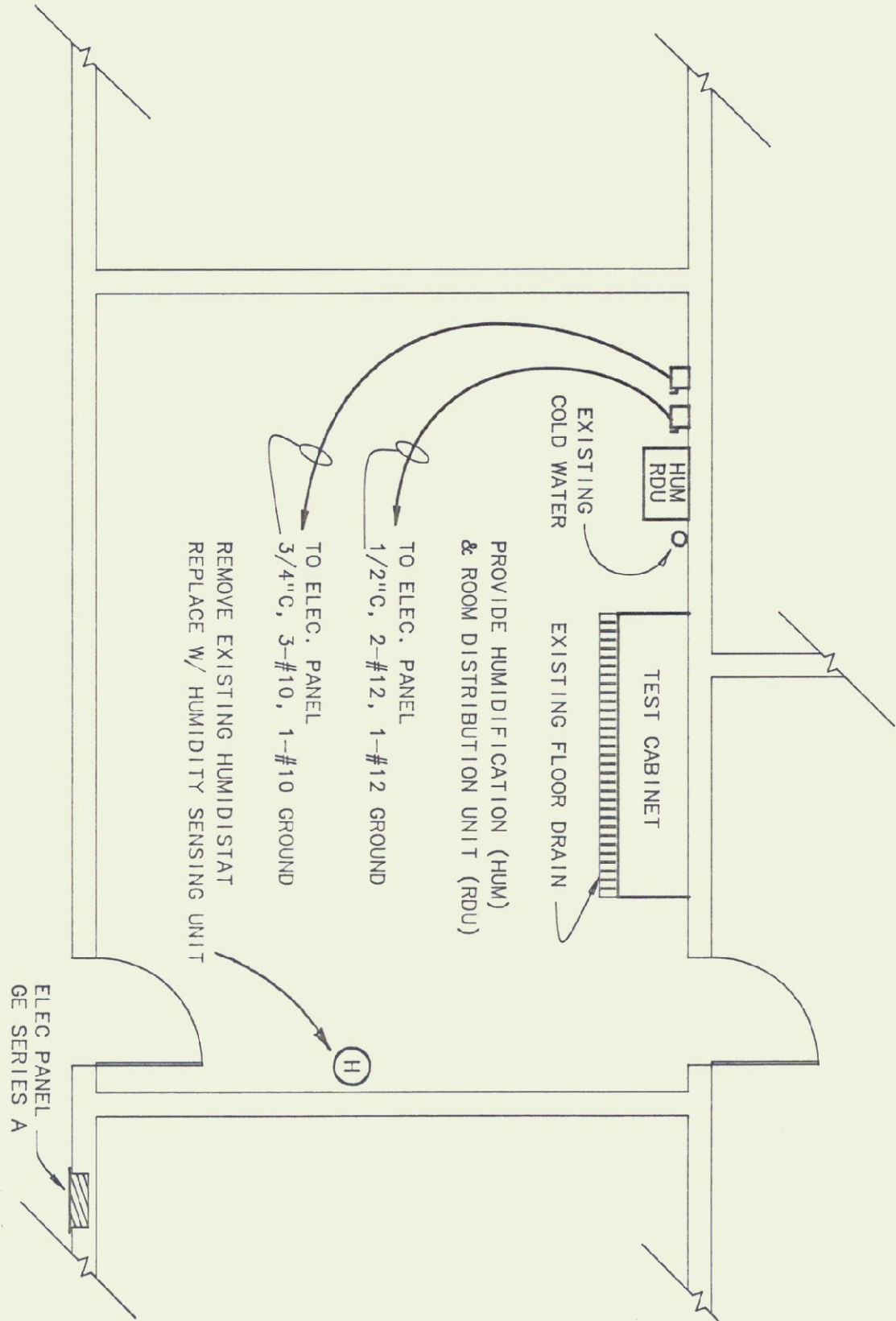


MECHANICAL EQUIPMENT SCHEDULE	
HUM	HUMIDIFIER, 20 LBS/HR, 6.6KW, 208VAC 3 PHASE, 18.3 AMP'S, HUMIDIFIER CO., INC. HERIRRONIC II, MODEL MDM W/PROPORTIONAL CONTROL
RDU	ROOM DISTRIBUTION UNIT, DIRECT MOUNTED, AIR PROVING SWITCH, THERMOSTAT, INTERNAL CONDENSATE TRAP, 208 VAC, 1 PHASE

SPECIFICATIONS - STEAM HUMIDIFIER & ROOM DISTRIBUTION UNIT

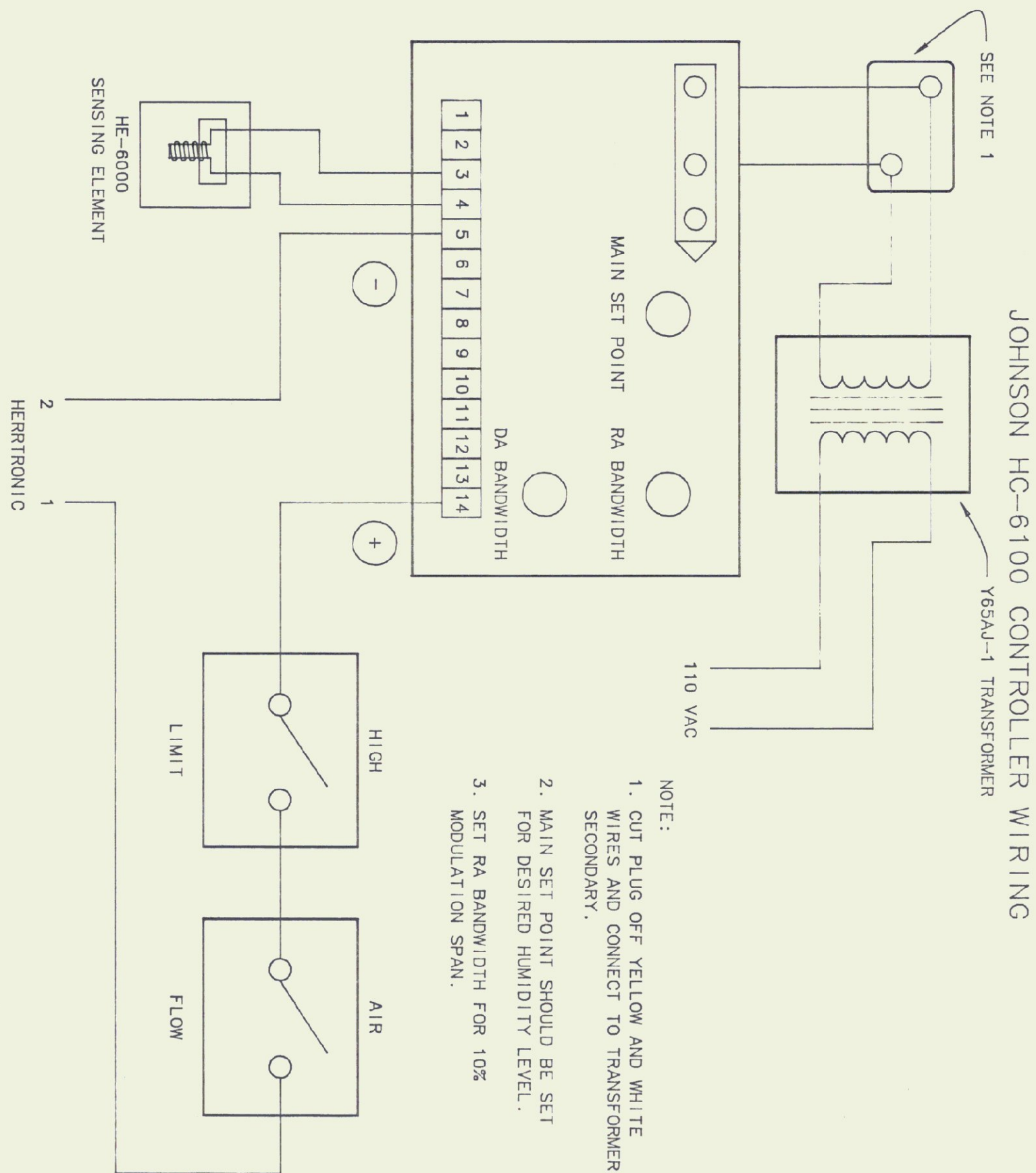
- 1.01 DESCRIPTION
- A. Provide all labor, materials, equipment and transportation as required to completely install a humidifier and room distribution unit for the Agency of Transportation Laboratory, Berre - Montpelier Road, Berlin, Vermont.
- 1.02 SUBMITTAL DATA AND SHOP DRAWINGS
- A. Submit five copies of all submittal data and/or complete shop drawings. Submittals shall include wiring diagrams.
- B. Submittals and/or shop drawings are to be efiled to show specific data for the mechanical equipment that the contractor intends to provide.
- 1.03 OPERATIONS AND MAINTENANCE MANUAL
- A. Upon completion of this portion of the work, and as a condition of it's acceptance, deliver to the Engineer four copies of a manual describing the system.
- B. An outline of a preventative maintenance program which shall include a schedule of inspection and maintenance. It shall suggest the maintenance and inspection that should be done.
- C. Complete name and address of nearest vendor of replaceable parts.
- D. Copy of all guarantees and warranties issued.
- 1.04 GUARANTEE
- A. The Contractor shall guarantee to repair or replace at his own expense any work or material installed or furnished under this contract which develops defects, except for normal wear, within one year from the date of final acceptance of the entire work.
- 2.01 MATERIALS
- A. Provide and install steam humidifier (HUM) with following features:
- Microprocessor control adjust automatically to any water quality
 - 3-digit precise L.E.D. read out of capacity
 - Proportional control of output
 - Digital readout of input signal of 0-20 mA
 - Disposable steam cylinder
 - Circuit board with diagnostic output provide for system shut-down in case of abnormal operations
- B. Provide and install room distribution unit (RDU). RDU to be direct mounted on humidifier. Unit requires a standard air proving switch and thermostat.
- 2.02 ELECTRICAL EQUIPMENT
- A. All wiring shall be in thiwall (EMT) conduit with steel compression fittings in accordance with NEC 348.
- 2.03 PIPING
- A. Cold water supply piping to be Type L copper with ball valve shut off.
- B. Drain piping to be Type M copper.
- 3.01 INSTALLATION
- A. Install all work with a neat and orderly appearance, as specified and as shown on the Drawings.
- B. Make all installations structurally sound throughout.
- C. Locate all installations to avoid interference with existing piping and equipment.
- D. Perform all work incidental to the installation of the apparatus including, but not limited to, cutting, patching, electrical power and controls, plumbing and mechanical equipment.
- 3.02 CLEANING
- A. Do not allow refuse and surplus materials to accumulate and obstruct the operation of laboratory.
- B. Upon completion of the installation, remove refuse and surplus materials, leave the room neat and clean.



- 1) PROVIDE 30 AMP, 3-POLE CIRCUIT BREAKER
GE THOB FOR HUMIDIFIER
- 2) PROVIDE 15 AMP, 2-POLE CIRCUIT BREAKER
GE THOB FOR RDU

TEST LAB HUMIDIFICATION PLAN

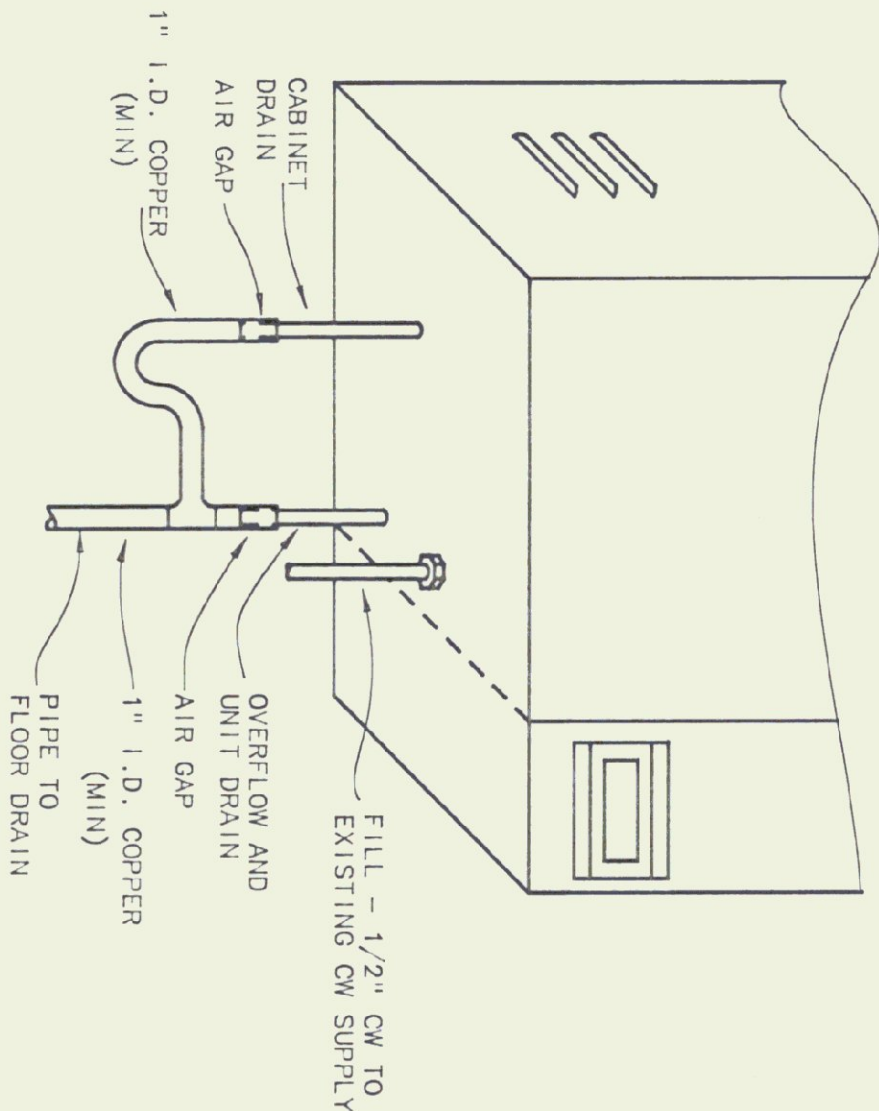
SCALE = 1/4"=1'-0"



- NOTE:
1. CUT PLUG OFF YELLOW AND WHITE WIRES AND CONNECT TO TRANSFORMER SECONDARY.
2. MAIN SET POINT SHOULD BE SET FOR DESIRED HUMIDITY LEVEL.
3. SET RA BANDWIDTH FOR 10% MODULATION SPAN.

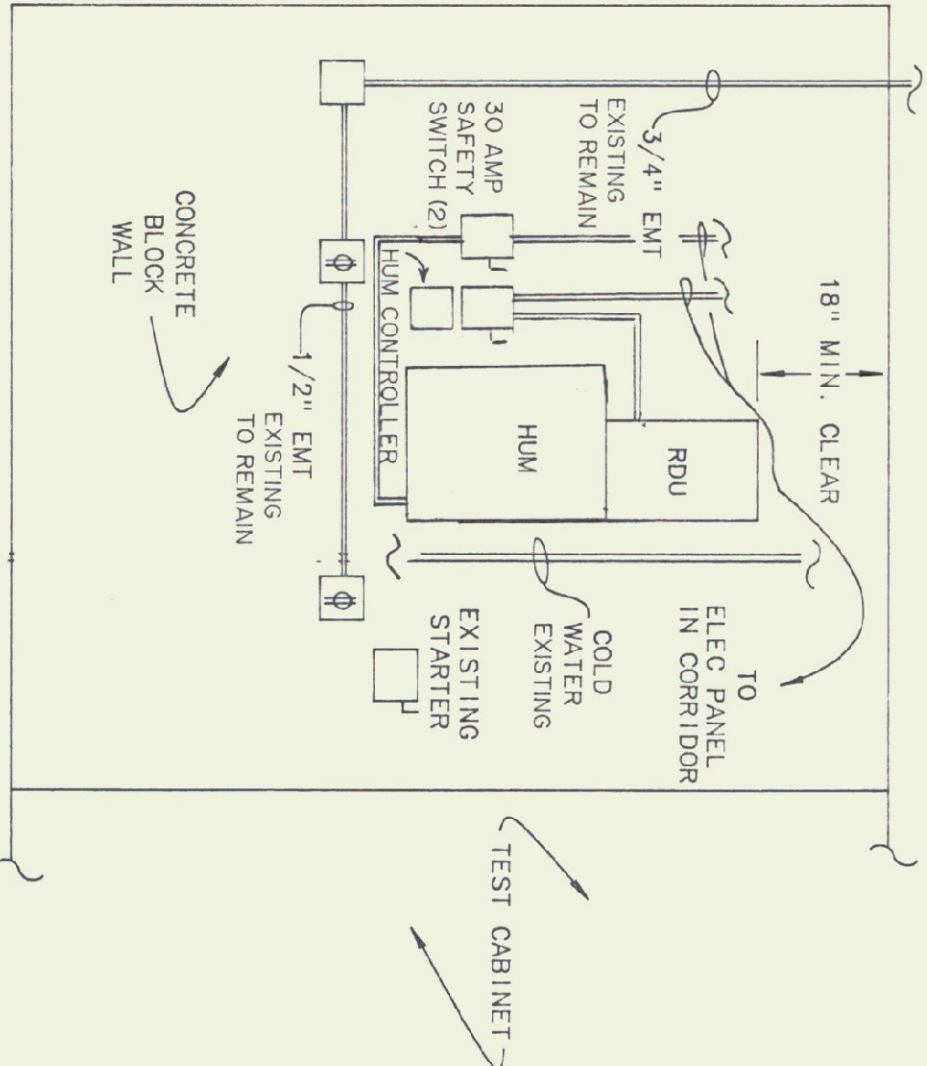
HUMIDIFIER CONTROL WIRING DETAIL

NO SCALE



HUMIDIFIER WATER SUPPLY & DRAIN DETAIL

NO SCALE



HUMIDIFIER ELEVATION

SCALE - 1/2"=1'-0"

STATE OF VERMONT
PROFESSIONAL ENGINEER
No. 5197
PEARSON & ASSOCIATES

Pearson & Associates

MECHANICAL & ELECTRICAL ENGINEERS

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TEL. (802) 253-9607 FAX. (802) 253-9290

STATE OF VERMONT DEPARTMENT OF STATE BUILDINGS AGENCY OF ADMINISTRATION				VERMONT	
MONTPELIER					
AGENCY OF TRANSPORTATION LABORATORY					
Berlin, Vermont					
TEST LAB - HUMIDIFICATION					
DATE: 07/24/92	SCALE: AS SHOWN	REVISIONS:	CAD FILE: PSHUMID	DWG NO.	
DRAWN BY: B.W.M	APPROVED BY: BWP		SHEET: 1 OF	1	