

McDOUGALL & FRIEDMAN

C. P. CREIGHTON, B.Sc.
A.M.E.I.C., P.E.Q.

J. D. FRY, B.Sc.
P.E.Q.

D. W. HEYWOOD,
M.E.I.C., P.E.Q.

CONSULTING ENGINEERS

1235 MCGILL COLLEGE AVE.
MONTREAL 2, CANADA
TELEPHONE MA.6291

December 4th, 1944.

Dr. Wilder G. Penfield,
Director, Montreal Neurological Institute,
University St., MONTREAL.

Machinery basement

Dear Sir:

Re: M.N.I. - Annex - Ventilation

As you are aware MD #4 has complained of the high cost of the Annex, and the Architect and ourselves are being pressed to give a report outlining the items which might be omitted from the contract, these items being considered as equipment. So far, the probable credits for Sterilizing Equipment and for the Hydro-treatment bath have been submitted by the sub-contractor together with other credits from the General Contractor.

The matter of the ventilating system has now arisen. This system has been designed to meet the requirements expressed by you and Dr. Cone at a meeting held in your office on August 30th, 1944. They could only be discussed in a general way at that time but they were recorded in our letter of Sept. 15th, 1944 to the Architect, copy of which was sent to you.

We attempt below to describe as briefly as possible the ventilating system shown on the plans:-

#1 Supply System

1st Floor: Clinical Examination 195

2nd Floor: Utility Room 277

Service Room 278

Dressings 279

Ward 286 (mainly to provide the humidity as asked for,
partly to make up deficiency of air caused
by the exhaust requested)

Service Room 295

Contaminated Dressings 296

In addition to the above, air is being supplied to the Corridors, principally to provide some humidity to the adjacent

rooms where this was called for, but partly to make up the deficiency of air caused by the exhaust systems.

We need hardly add that no summer air conditioning has been included. The system as shown simply draws in outside air, warms and humidifies it, and distributes it to the rooms listed above.

The sub-contractors' price for this supply system, including his overhead and profit amounts to approximately \$3327.00.

#2 Exhaust System

1st Floor: Heater Room 180 (W)
Closets 181, 182, 183 (Duct passes through these)
Laundry Alcove 184
Toilet 185 (W)
Cleaners Closet 190

x 2nd Floor: Sterilizer Room 282 x
Toiler 283 (W)

The sub-contractor's price for the above exhaust system, including his overhead and profit amounts to approximately \$602.00.

#3 Exhaust System

2nd Floor: Ward 286

The sub-contractor's price for the above exhaust system, including his overhead and profit amounts to approximately \$594.00.

#4 Exhaust System

1st Floor: Kit Storage 174
Toilet 175
Toilet 177 (W)
Locker Room 178 (w)
Clinical Examination 195 (w)

2nd Floor: Nurses Station 257 (W) (Duct passes this room)
Continuous Bath 258 (W)
Toilet 262 (W)
x Sterilizer Room 263
Bath Room 267 (W)
Bath Room 270
Cleaners' Closet 274
Toilet 275
Linen 276
x Utility 277
x Service Room 278
x Dressings 279 (W)
x Service Room 295 (W)
x Contaminated Dressings 296 (W)
Kitchen 297 (W)
Soiled Linen 298

ESSENTIAL -

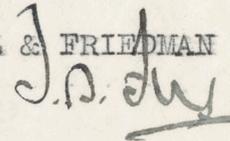
The sub-contractor's price for the above exhaust system, including his overhead and profit amounts to approximately \$1192.00.

Rooms followed by (W) have windows and it might be felt that the exhaust ventilation could be omitted. The ducts, however, pass near these rooms and the only saving would be in grilles and short lengths of duct. The fan might be reduced a little in size but the system in general would probably be required by you.

If the ventilating system is to be omitted in whole or in part, such a decision must be reached without delay. The matter is urgent. The planning of the building is also affected, since there are now rooms without windows where mechanical ventilation is essential. A pent house has also been planned to house the supply system.

Yours truly,

MCDUGALL & FRIEDMAN



JDE/B

c.c.

Dr. W.V. Cone

Walter Molson, Esq.

P.W. MacFarlane, Esq.

Fetherstonhaugh & Durnford