

ITEM 1  
MANAGER'S REPORT NO. 13  
COUNCIL MEETING 1982 03 01

RE: LETTER FROM INTERNATIONAL UNION OF OPERATING ENGINEERS  
LOCAL 882 AND 882B

ROOM 304 - 4533 LEDGER AVENUE, BURNABY, B.C. V5G 3T3

LETTER FROM CARLTON PRIVATE HOSPITAL WHICH APPEARED ON THE AGENDA

FOR THE 1982 FEBRUARY 22 MEETING OF COUNCIL (ITEM 4f)

ADEQUACY OF EXISTING STREET LIGHTING AND BUS SERVICE ON CANADA WAY

MUNICIPAL MANAGER'S RECOMMENDATION:

1. THAT the recommendations of the Director Engineering be adopted.

\* \* \* \* \*

TO: MUNICIPAL MANAGER 82 02 23

FROM: DIRECTOR ENGINEERING

SUBJECT: 4125 CANADA WAY  
CARLTON PRIVATE HOSPITAL

RECOMMENDATIONS:

1. THAT Council concur in the replacement of the existing 400 watt M.V. lamps on Canada Way between Boundary and Willingdon Avenue with 250 watt H.P.S.
2. THAT Mr. R.B. Watson, Administrator of the Carlton Hospital be sent a copy of this report.

REPORT:

Reference the submission dated 1982 February 16 from R.B. Watson, Administrator of the Carlton Hospital on Canada Way related to the adequacy of the existing street lighting and bus service.

In regard to the street lighting we would advise that the existing lighting on Canada Way is provided by an ornamental lighting system using 400 watt mercury vapour lighting. The 400 watt mercury vapour lighting is the highest wattage lighting we use and when initially installed provides what has been considered as adequate lighting. Mercury vapour lighting lumen output does, however, deteriorate with age and should be replaced at some predetermined time period. In Burnaby we have adopted a relamping program where we will relamp an entire system every five years when the lumen output (light hitting the road) has dropped to 65% of the initial output. The subject section of Canada Way is scheduled for relamping in the 1982-83 maintenance contract and would be done this Fall.

(cont'd)

In view of this complaint and others related to the widening and median work that was done on Canada Way we have been considering the use of high pressure sodium vapour lighting. There are a number of advantages in using this type of lighting. These are:

1. While the lamp is more expensive, you require less wattage to produce the same lumen output, i.e. 400 watt mercury vapour (M.V.) produces 23,000 lumens initially. 250 watt high pressure sodium (H.P.S.) produces 27,500 lumens initially.

While low energy costs have made it uneconomical in the past to convert our existing M.V. lights to H.P.S. lights because of the cost of the lighting equipment, we are now approaching increasing energy costs that can justify the switch, particularly if there are added benefits and we are able to use the replaced 400 watt M.V. luminaires in other areas.

If, for example, we were to replace the existing 43 - 400 watt M.V. lights on Canada Way between Boundary Road and Willingdon Avenue with 250 watt H.P.S. lighting we would have the following costs.

Relamp with 400 watt M.V.	= \$	474.29
Replace with 250 watt H.P.S. lamps & luminaires	= \$	9,245.00
Recovery of 400 watt M.V. luminaires	= \$	6,708.00
Energy saving in first year of operation	= \$	849.34

The actual cost in the first year of replacing the existing 43 - 400 watt M.V. luminaires with 250 watt H.P.S. luminaires would be:

\$9,245.00  
- \$8,031.63

\$1,213.37

Energy savings over the next four years before relamping is required would be \$3,400.00+.

2. There is a better distribution of light with H.P.S.
3. The lamps maintain a higher lumen output throughout the life of the lamp which is rated equal to M.V. lamps.

In dealing with the second item, that of providing a feeder bus to the Carlton Hospital from either the #28 Smith Avenue service or the #32 Grandview Highway service, we would advise that such a decision would be one that the Urban Transit Authority (U.T.A.) would have to rule on. We will convey this request to the U.T.A. for their consideration.

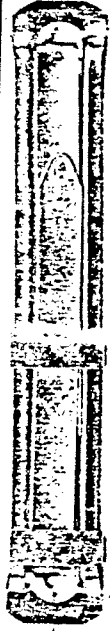
For the information of Council maps of the above two bus routes are attached.

HB:sp  
Attach.

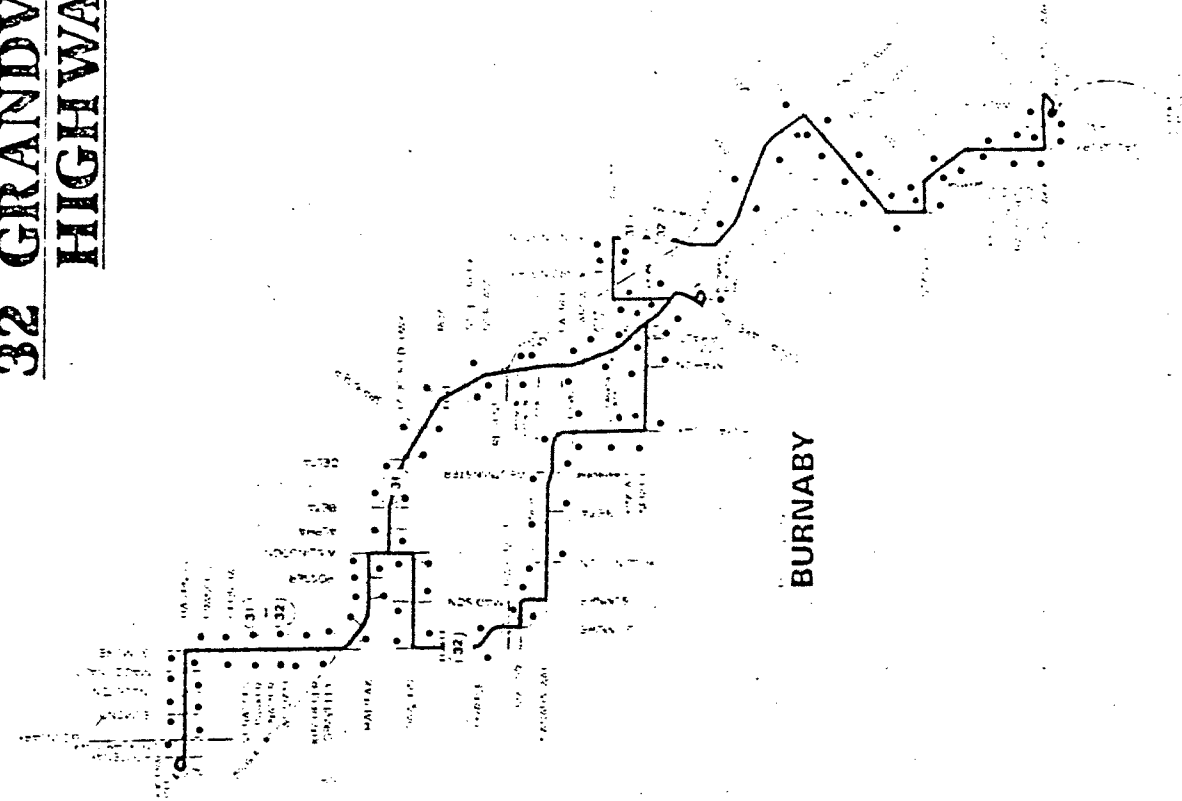
cc: ( ) Traffic Supervisor

  
DIRECTOR ENGINEERING

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**31 DOUGLAS**  
**32 GRANDVIEW**  
**HIGHWAY**



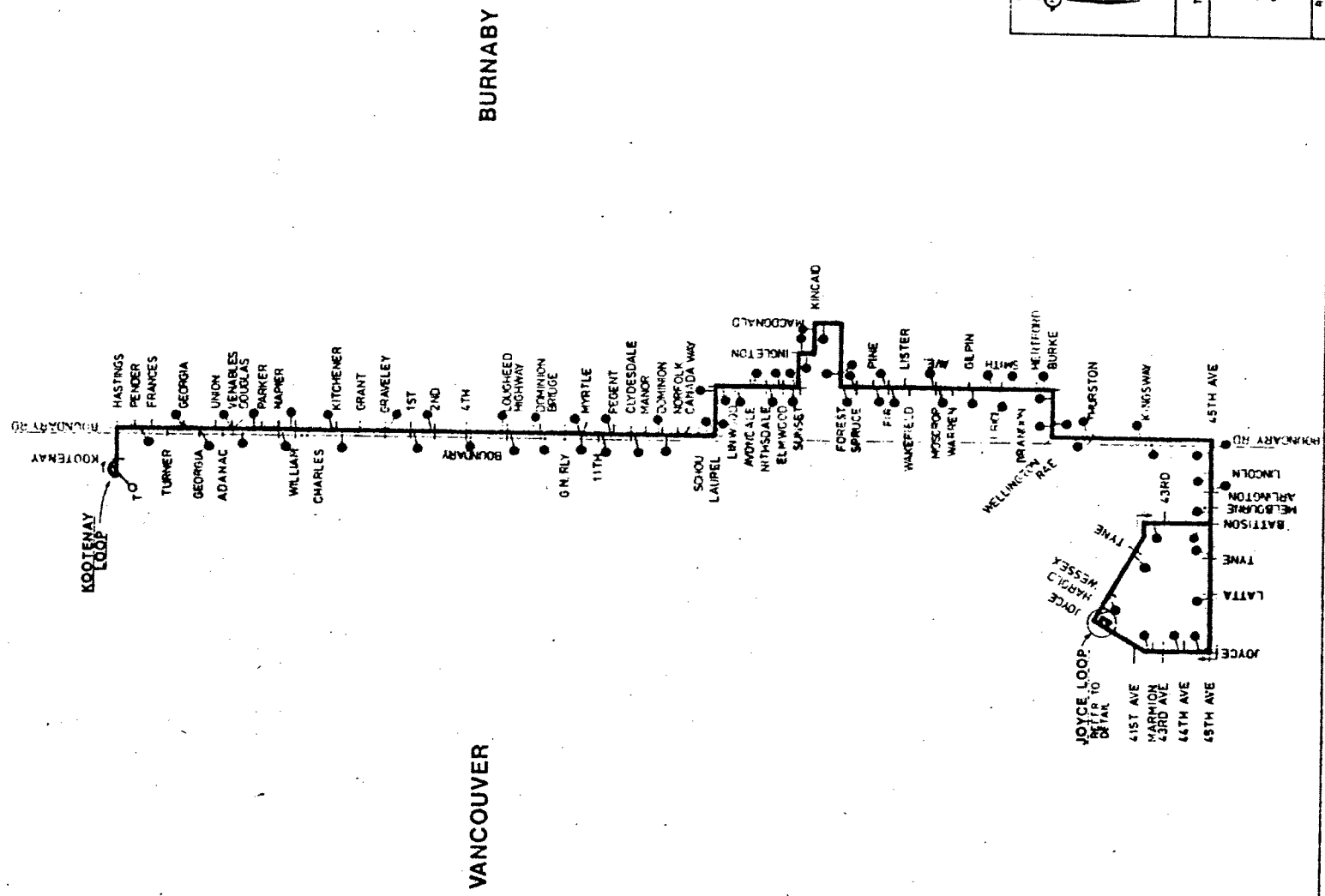
DATE	
BY	
SCALE	

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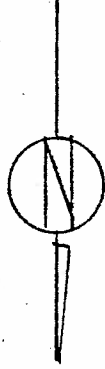


# 28 SMITH

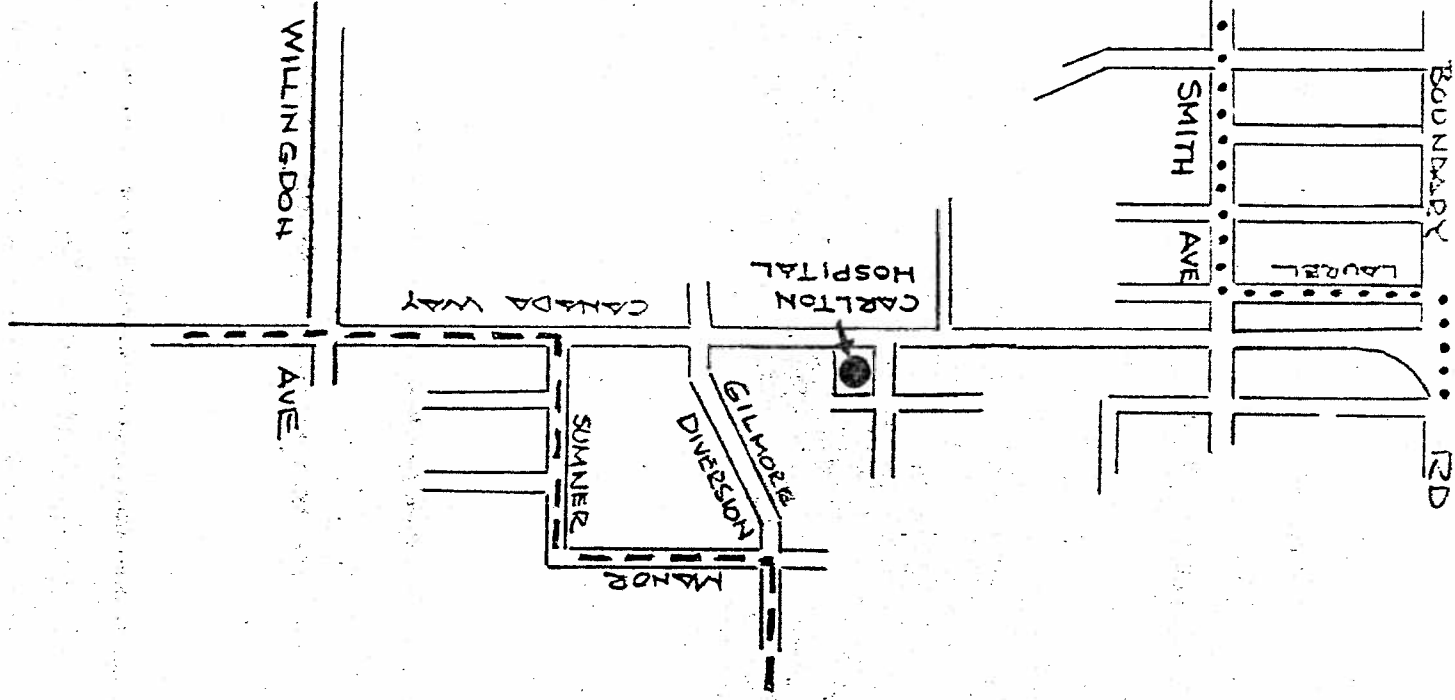


Map details including legend and title.

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# 28 SMITH BUS  
 # 32 GRANDVIEW BUS



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No.	DATE	REVISION
CORPORATION OF THE DISTRICT OF BURNABY ENGINEERING DEPARTMENT		
DESIGNED BY		DIVISION
DRAWN BY		SCALE
CHECKED BY		DATE
APPR'D BY		DRWG NO.
		L.

