PRELIMINARY FIRE FLOW CALCULATION

City of Melbourne

Λ	
TEL	3

Project Name

Project
Description

City Project No

This form is to estimate fire flow requirements to determine possible watermain extension. Actual fire flow requirements for the proposed facility will be verified by the Fire Prevention Division.

FIRE AREA (A)			
1 st Floor		Sq. Ft.	
2 nd Floor		Sq. Ft.	
3 rd Floor		Sq. Ft.	
4 th Floor		Sq. Ft.	
5 th Floor		Sq. Ft.	
6 th Floor		Sq. Ft.	
TOTAL AREA (A)		Sq. Ft.	

CONSTRUCTION TYPE (C)		
Wood Frame	1.5 = C	
Ordinary	1.0 = C	
NonCombustible	0.8 = C	
Fire Resistive	0.6 = C	

BASE FLOW (Q) GPM \triangleleft Q = 18(C)(\sqrt{A})

HAZARD (P) %

Hazard Classification Table		
Light	-25%	
Ordinary	0%	
Extra	+25%	
Complete Auto Sprinkler	-30%	

NEW BASE FLOW (N) GPM \rightarrow N = (1+P)*Q

EXPOSURES %			
	Distance (Ft.)	Charge	
North			%
South			%
East			%
West			%
TOTAL % (E)			%

Exposure Charge Table		
+25%		
+20%		
+15%		
+10%		
+5%		

(75% Maximum)

TOTAL FLOW (T) GPM \leftarrow T = (1+E)*N

HYDRANTS
NEEDED GPM

▼ T/1000

(within 500' of remote point of building)

Calculated By: Date: