MCG Inner - Watering Extension

# Introduction

Need exists to reduce the need for older people to drag hoses everywhere.

Hoses cannot be left out as mowing between plots is required.

The existing two rows of 4 standpipes each are misplaced in that long lengths of hose are required to service plots, herb garden and windbreak.

Two sets of standpipes in the centre of the garden is redundant. One set only should suffice.

# Proposal

Propose that the existing set of 4 standpipes in the south row be converted as necessary to remove the standpipes and to run underground extensions south at selected points to provide new standpipes at the Pumpkin Patch and the Herb Garden and plots in rows 2 and 4. See diagram attached.

Standpipes would each have a tap and a small bore ½ inch hose attachment facility. This could be accomplished in phases.

The existing ¾ inch hoses could be redeployed strategically in windbreak and outer areas of the garden. Buried sufficiently to avoid the mower.

# Cost

Costs are based on an indicative quote for bits from Milton Hardware and Mowers.

## Section 1

This encompasses 4 standpipes servicing Pumpkin Patch, Herb Garden and 2 further standpipes at garden rows 2 and 4.

**Cost is $448.55**

## Sections 2, 3 and 4

2 standpipes at garden rows 2 and 4

**Cost is $266.55 per Section**

## Potential savings

Buy 200m roll of polypipe for an additional $40 and use the left over 100m for something else. This would reduce the unit cost to just over half. Provided that there is a use for the leftover.

Recycle 4 existing Taps would save about $88.

Shorten standpipes to use a 1200mm post. This would mean 10 off standpipe posts out of 2 lengths of timber instead of three lengths. A saving of about $120.

# Assessment

My personal view is that a total cost of full implementation of around $1250 is too expensive for the benefits gained.

It is possible that implementation of Section 1 only at about $450 may be affordable if it provides enough benefit.

# Recommendation

I recommend that the Committee consider Section 1 only on its merits and either accept or reject accordingly.

Don Davidson

9 February 2018

Attachment A

Schematic Layout

G

F

C

B

A

4

Main

Valve

E

D

Pumpkin

Patch

C

B

A

C

B

A

C

B

A

3

2

1

Junction

New Standpipe

Existing Standpipe

Herb

Garden

Gate

N

Attachment B

Detailed Description

# Section 1

## A

Remove existing Standpipe and Tap

Place Reducing union 40mm to 1 inch with olive couplings each end. [$29.05]

## B

Place Post [$30], ¾ inch BSP standpipe, Ball valve and ½ inch hose fitting. [33.10]

Place Tee joint 1 inch in (olive coupling) and out with ¾ inch BSP side fitting and 1” out (olive coupling). [$20.40]

## C

Place Tee Joint 1 inch each leg and 3 (olive couplings) [$17.50]

## D

Place Post [$30], ¾ inch BSP standpipe, Ball Valve and ½ inch hose fitting [$33.10]

Place Elbow 1 inch (olive coupling) in and ¾ inch BSP out. [$15.40]

## E

Place 1 inch Tee with olive couplings. [$17.50]

## F

Place Post [$30], ¾ inch BSP standpipe, Ball valve and ½ inch hose fitting [$33.10]

Place Elbow 1 inch (olive coupling) in and ¾ inch BSP out. [$15.40]

## G

Place Post [$30], ¾ inch BSP standpipe, Ball Valve and ½ inch hose fitting [$33.10]

Place Elbow 1 inch (olive coupling) in and ¾ inch BSP out. [$15.40]

## X

1 inch distribution line approx. 40 metres with ¾ inch BSP standpipes. Polypipe Green line. [$1.75/m]

 4 x Posts Treated Pine 90mm square approx 1500mm [6m length = 4 posts costs $120]

4 x Bags redimix concrete [$8.50/ bag = $34]

## Total Cost Section 1

Fittings - $214.55

Posts and cement - $154

Piping 40m - $70

**Total - $448.55**

# Sections 2,3 & 4

## A

Remove existing Standpipe and Tap

Place Reducing union 40mm to 1 inch with olive couplings each end. [29.05]

## B

Place Post [$30], ¾ inch BSP standpipe, Ball valve and ½ inch hose fitting [33.10]

Place Tee joint 1 inch in and out (Olive coupling) with ¾ inch BSP side fitting. [$20.40]

## C

Place Post, ¾ inch BSP standpipe, Ball valve and ½ inch hose fitting [$33.10]

Place Elbow 1 inch olive coupling in and ¾ inch BSP out. [$15.40]

## X

1 inch distribution line approx. 22 metres with ¾ inch BSP standpipes. Polypipe Green line [$1.75/m]

Posts Treated Pine 90mm square approx 1500mm [6m length = 4 posts costs $120]

## Costs per Section

Fittings – $131.05

Posts and Cement $77

Piping 22 m at $1.75/m - $38.50

**Total - $266.55**