Block Pruning Program Operations Parks Forestry October 22, 2021

Block Pruning Results- Miley Crescent Before and After

Capital Project 20197 Block Pruning

Block Pruning - Capital Project 20197 - 3 Years - 70,000 Trees										
Projected Cost Year 4-8										
YEAR	TENDER	#TREES	# GRIDS	TOTAL dbh	Avg dbh	COST	VARIANCE	# CONTRACTOR	AVG COST/DBH	
1	216-T-19	24,027	7	529238 cm	22cm	$1,244,395.71	($226,795.71)	2	$2.35	
2	232-T-20	24,840	6	398445 cm	16cm	$459,190.15	$558,409.85	1	$1.15	
3	ICIP GRANT	23,595	7	417483 cm	18cm	$669,634.69	$347,365.31	2	$1.60	
4 TO 8		34,158	20	532512cm	16cm	$905,270.40	*Estimated cost*		$1.70	
TOTAL		106,620	40	1877678cm		$2,608,856.20				

Cost Analysis/Considerations by Year

Year 1 – Large Trees Average 22cm dbh, 7 map grids, aerial work, slow pace, 2 contractors

Year 2 - Much smaller trees 16cm dbh, 6 map grids, ground work, fast pace, 1 contractor who reported price error on 2 map grids

Year 3 – Slightly larger trees 18cm dbh, 7 map grids, aerial and ground work – 2 contractors, timing was favorable for largest contractor

Year 4-8 – Average 16cm dbh over 20 maps grids, large trees will affect costs, low volume per map grid will affect costs, costs are estimated based on 3 year average cost/dbh and volume of trees

Cost Analysis cont'd

- Using the average 16cm dbh and 3 year average cost $1.70/dbh for all 20 remaining map grids the estimated cost to clear the backlog is $905,270.40
- Of the remaining trees 36% average 30cm dbh which will likely be a significant cost driver
- Continue ramp up of $50k in 2022 to Operating and complete remainder of map grids in years 4-8
- After completion of year 8 initiate a yearly 8 year rotational Block Pruning program for all City trees