Memo

Date:

April 13, 2011

File:

0220-02

To:

City Manager

From:

R. Cleveland, Director, Infrastructure Planning

Subject:

2030 - 20 Year Servicing Plan & Financing Strategy/Development Cost Charges

Bylaw #10515

Report Prepared by: Jim Wunderlich

THAT Council receives, for information, the Report from the Director of Infrastructure Planning dated April 13, 2011 with respect to the 2030-20 year Servicing Plan and Financing Strategy and Development Cost Charges Bylaw #10515;

AND THAT Council endorse the new 2030-20 Year Servicing Plan and Financing Strategy for the infrastructure required to support new growth within the City of Kelowna as projected in the 2030 Official Community Plan;

AND THAT Council approve expansion of the Water Sector boundary to Lots 1 and 2, Plan 65503, as well as 1650 Glenmore Road, the SE Quarter, Section 17, Township 23, and 1630 Glenmore Road, the SW Quarter, Section 16, Township 23; per the attached map dated January 26, 2011;

AND THAT Council approve expansion of the Wastewater Sector boundary to Lots 1 and 2, Plan 65503 as well as 1650 Glenmore Road, the SE Quarter, Section 17, Township 23, and 1630 Glenmore Road, the SW Quarter, Section 16, Township 23, and to Lot 1, Plan 2237, Twp. 23, Land District 4; Free Form Legal: Section 9 & 16 & 21, Except Plan KAP45841, West of Glenmore Road AND Lot 5, KAP63448, Twp 23, Land District 41, Free Form Legal: Section 15, 16, 21 & Section 22, per the attached maps dated January 26, 2011 and November 23, 2010;

AND FURTHER THAT Council give readings consideration to the Development Cost Charge Bylaw 10515 to become effective the date of final adoption and to repeal the City of Kelowna "Development Cost Charges Bylaw No. 9095" and all amendments thereto upon adoption of Bylaw 10515.

To provide an opportunity for Council to consider the 20-Year Servicing Plan & Financing Strategy to accommodate growth anticipated in the draft 2030 Official Community Plan (OCP) along with the consequential Development Cost Charges Bylaw. This is required by legislation in order to advance the OCP to final reading.

Development of the 2030-20 Year Servicing Plan and Financing Strategy has been in progress since April 2010. The major objectives of the Plan are:

Project infrastructure requirements relative to roads, water, wastewater and the acquisition of park land over the 20-year planning horizon;

Confirm the overall affordability of the infrastructure required to support projected

Allocate infrastructure costs between the existing population and new growth units based on the relative benefit of the infrastructure;

Integrate the plan into the City's financial planning documents and the OCP;

Continue to structure DCCs so as to encourage the development of a compact, liveable and walkable community serviced with green infrastructure (parks and trees), sidewalks, bicycle lanes and transit.

The 2030 20-year plan has been developed in consultation with Council as follows:

May 20, 2010: Council Workshop identifying key transportation infrastructure planning

June 23, 2010: Council Workshop on Central Okanagan Multi-modal Corridor from Spall to UBCO; Hollywood Road N Extension to East Kelowna; and Lakeshore Road widening from

October 4, 2010: Council Report on proposed 2030 Plan for Water, Wastewater Trunks,

Wastewater Treatment and scenarios for parkland acquisition;

October 18, 2010: In-camera discussion of parkland acquisition recommendations;

November 1, 2010: Council Report on alternative parkland acquisition and park

November 18, 2010: Information Memo and PowerPoint presentation provided to Council

January 24, 2011, Council Report on final parkland acquisition and park development

January 24, 2011: Council Report on proposed 2030 Plan for Transportation Networks.

The 2030 20-year plan has been developed with input from the Urban Development Institute (UDI) as follows (see Annex 1):

June 14, 2010: City provided UDI construction unit cost calculations for roads, water and sewer services as well as the methodology used for the development of unit costs;

June 24, 2010: City provided UDI with revisions to the road construction unit cost

June 28, 2010: UDI responded to the construction unit cost submissions;

July 1, 2010: City provided a response to the June 28 letter from UDI;

July 5, 2010: City met with UDI regarding the process for incorporating the unit costs into

October 6, 2010: City provided draft 2030 DCC Unit Rates based on the 2030 Servicing Plan for Water, Wastewater Trunks, Wastewater Treatment and revised construction unit prices for Water, as well as boundary changes for the Water and Wastewater Sector Plans;

November 22, 2010: UDI responded to the October 6 letter and requested additional

November 22, 2010: UDI responded to the City regarding the October 27 report to Council

regarding parkland acquisition and park development policy options;

November 22, 2010: UDI copied the City on its letter to School District #23 regarding the School Site Acquisition Charge to be administered with the City's Development Cost Charge program. Note the School District responded directly to this letter and copied the City;

- February 2, 2011: City provided draft 2030 DCC Unit Rates based on the 2030 Servicing Plan for the Transportation Network and revised rates for parkland acquisition in response to UDI's November 22 letter;
- February 17, 2011: City provided transportation network maps associated with the February 2 letter;
- March 4, 2011: UDI requested meeting to review details;
- March 10, 2011: City hosted with UDI a meeting on OCP, 20-year plan and school site acquisition charge;
- March 17, 2011: Detailed cost estimates for the South West Mission area DCC roads were provided to a group of developers in the South West Mission at their request for review and comment:
- March 23, 2011: Southwest Mission developers wrote to the City regarding the Upper South Mission DCC Roads program, resulting in 2 information meetings.
- March 23, 2011: UDI wrote to Mayor and Council on Development Cost Charges;
- March 31, 2011: UDI met with the City for further discussion regarding the allocation of costs in the transportation network plan;
- April 1, 2011: City responded to UDI request at March 10, 2011 meeting, for information.
- April 6, 2011: City responded to UDI letter of March 23.
- April 8, 2011: Final Project Cost Binder provided to UDI.
- April 15, 2011: Final response to SWM developers with resolution of issues.

The total cost of providing infrastructure in the 2030 Plan is \$709.0 million, \$7.1 million more than the \$701.9 million initial draft presented to Council on January 24th, 2011. This difference is attributable to net changes made in the Transportation program since the January presentation, as a result of discussions with various stakeholders and staff. To summarize, increases in costs include the addition of Burtch 4 (Sutherland - Hwy 97) and Hwy 33(1) (Clement - Enterprise) for a total \$4.8 M., Hollywood Roads (\$2.4 M.), Highway 33 (\$1.3 M), Lakeshore 3 & 4 (\$1.3 M.) and John Hindel (\$0.8 M.) as well as some smaller increases, offset by net reductions in the Southwest Mission (\$2.2 M.); Guisachan 2 (\$1.1 M.) and Rutland 2 (\$0.9 million). As well, the criteria surrounding the existing benefits component of taxation was re-examined. This resulted in a net increase in taxation of \$11.5 million since the January presentation. Non-tax funding was also reviewed, resulting in a decrease under the 'By Developer' funding of \$1.4 million and an increase in Provincial Assist of \$2.8 million. The overall impact is substantial DCC rate decreases in Sectors A, B and E with C and D relatively unchanged since the January 24th Council presentation.

The overall 2030 DCC program now shows a decrease of \$206.9 million or 22.6% from the current program total of \$915.9 million. Summary Cost Sharing Models are included as Exhibit "A" to "E". This corresponds well with anticipated reductions in population growth since the 2020 OCP. A summary of existing and revised Development Cost Charge rates by growth area of the City are included for 4 development types in Schedules 1-4. Schedule 5 shows the updated DCC rates for the various service areas.

The summary of program costs relative to the 2020 plan follows. It reflects the 20.6% reduction in anticipated growth units, the reduction in construction costs observed in 2010 projects, qualitative improvements to the level of service in the water service and the impact of fixed costs in the wastewater treatment service divided by reduced growth projections.

			2030 Plan	relative to	2020 Plan			
		Funding	g Sources (\$ Millions)				
Service	BC Grant	Developer Construct	DCCs Reserves	Taxation	Utility Rates	2030 Totals	2020 Totals	%change from 2020
Arterials	26.6	50.9	186.1	136.8		400.4	588.5	-32.0
Water		5.4	23.0		30.7	59.1	48.1	22.8
WasteWater		4.9	23.6		9.4	37.9	43.3	-12.5
Treatment			66.6		19.5	86.1	92.0	-6.3
Parkland	5.4	-5	107.1	13.0		125.5	144.1	-12.9
2030 Totals	32.0	61.2	406.4	149.8	59.6	709.0	915.9	-22.6
2020 Totals	43.2	99.0	577.5	154.9	41.5	915.9		
% change From 2020	-25.9	-38.2	-29.6	-3.3	43.5	-22.6		

The program changes result in an overall reduction in the DCC rates. The following compares the Residential 1 rate for the two City DCC sectors that receive all services from the City. The remaining 10 sectors are either not served by the City water utility or the City sewer utility, or both. The differences between these two sectors reflect the different costs associated with low vs. high density areas and the impact of hillside developments on costs. Approximately 50% of current residents live in the Inner City and 60% of the residential growth is anticipated in the Inner City.

% change from 2020 Program	-5.6%	-8.6%
2020 Program	\$35,124	20,608
2030 Program	\$33,145	\$18,844
Parks 2020	\$5,069	\$5,069
Parks	\$5,300	\$5,300
Treatment 2020	\$3,044	\$3,044
Treatment	\$3,723	\$3,723
Wastewater 2020	\$1,979	\$1,562
Wastewater	\$1,903	\$1,294
Water 2020	\$1,289	\$1,757
Water	\$679	\$998
Roads 2020	\$23,743	\$9,176
Roads	\$21,540	\$7,530
Service	B: South Mission	l: Inner City

City staff are pleased with the cooperation received from the public and stakeholders in completing the 2030 - 20 Year Servicing Plan and Financing Strategy update. We wish to thank all who took the time to review, comment and discuss the Plan with the participating departments.

Internal Circulation:

Director, Policy & Planning Director, Financial Services

Legal/Statutory Authority:

The Development Cost Charge (DCC) Bylaw sets out the charges imposed for public roads, water, sanitary sewer, drainage and public park infrastructure when subdividing or constructing, altering or extending a building, pursuant to Chapter 323, Part 26, Division 10 of the Local Government Act (R.S.B.C., 2000).

A development cost charge is a means provided by Sections 932 through 937 of the *Local Government Act* to assist local governments in paying the capital costs of installing certain local government services, the installation of which is directly or indirectly affected by the development of lands and/or the alteration/extension of buildings (Section 933(1) and (2)). DCCs can be specified according to different zones or specified areas as they relate to different classes and amount of development, but charges should be similar for all developments that impose similar capital cost burdens on a local government (Section 934(2) and (3)).

The Local Government Act permits DCCs to be established for providing, constructing, altering, or expanding facilities related only to the following local government services: roads, other than off-street parking; sewage; water; drainage; and parkland acquisition and improvement (Section 933 (2)).

DCCs are payable by parties obtaining an approval of subdivision or a building permit, as the case may be (Section 933(1) and (5)).

DCCs are established within a layered governance structure. At the most direct level, DCCs are subject to the policy and technical bulletins issued by the Ministry whose responsibility it is to review and approve the bylaws submitted by local government. This level lies under the legislative framework described by the Sections 932 - 937 of the *Local Government Act* related to DCCs. The provincial legislation is enacted under the authority of the provincial government as set out in the Canadian Constitution.

Legal/Statutory Procedural Requirements:

Section 882 of the *Local Government Act* regarding the adoption procedures for the Official Community Plan specifies that:

- (3) After first reading of a bylaw under subsection (1), the local government must, in sequence, do the following:
 - (1) consider the plan in conjunction with
 - (i) its financial plan....

Consideration of the 2030 20-year servicing plan and financing strategy as reflected in the DCC Bylaw is therefore required prior to final consideration of the 2030 OCP.

The Local Government Act (Section 937(1)) requires the Inspector of Municipalities to approve local government DCC bylaws. The following steps reflect the typical process required for developing a DCC program.

- Council passes a motion to consider a DCC program and the development of a DCC bylaw based on the DCC Best Practices Guide.
- Staff, in conjunction with consultants, develop a bylaw and calculate the DCC rates.
- During the bylaw development phase, input is obtained from the public and interested parties.
- The proposed bylaw is presented to Council for first reading.
- If Council wishes, they may request additional public input or revisions prior to second and third reading.
- Following third reading the DCC bylaw and supporting documentation is forwarded to the Inspector of Municipalities for review and approval.
- If no revisions are required, the bylaw is returned for adoption and the DCC bylaw takes effect.

Further to the above, the 20-year Servicing Plan and Financing Strategy have been revised to reflect the impact of the new 2030 OCP on the City's municipal infrastructure. The Bylaw has been re-written to reflect these changes. The new 2030 20-year plan has:

- Updated project costs to reflect more recent construction costs
- Removed projects in the 2020 plan that have been completed
- Removed, revised the scope and added projects that respond to the locations and magnitude of projected growth in the 2030 OCP
- Recalculated the DCC charges based on the planned projects divided by the anticipated units of residential and Industrial, Commercial and Institutional (ICI) construction in each sector.

The revised bylaw, following public consultation requirements and then approved by Council, will be submitted to the Inspector of Municipalities for ratification. This is scheduled for April 2011 so that ratification can be available prior to the public hearings regarding the OCP scheduled for May 25 & 26, 2011.

Existing Policy:

2020 20-Year Servicing Plan and Financing Strategy

Financial/Budgetary Considerations:

DCCs contribute to the initial capital cost of growth-related infrastructure, along with taxpayer contributions that account for the benefit of the new infrastructure to the existing community. The subsequent operation, maintenance, capital renewal and the eventual replacement of all infrastructures accrues to general taxation or utility rates. The expectation is that the property taxes generated by the new development will pay the costs beyond the original capital construction. Historically in Canada, property taxation has not been adequate to cover asset management costs resulting in a growing deficit between the need to replace aging infrastructure at the end of its service life and property tax revenues. As a result, municipalities are developing new approaches to infrastructure development and asset management that are more affordable over the long term. Kelowna will need to address asset management cost issues over the next few years through the development of a renewed long-term capital plan.

External Agency/Public Comments:

Staff conducted joint public open houses on both the draft OCP and the draft DCC Plan simultaneously as follows:

- Thursday February 17th at St David's Presbyterian Church in Glenmore; Saturday, February 19th at the Laurel Packinghouse;
- o Monday, February 21st at the Rutland Centennial Hall; and
- Wednesday February 23rd at St Paul's United Church in the Mission.

Exit surveys were available at the open houses as well as on the City's website, for written input. Staff requested that all submissions, questions and comments be received by March 18, 2011. A total of 460 people attended the 4 open houses and 628 people completed the feedback form. In summary, 86% of respondents agree (strongly/somewhat) to the Parkland Acquisitions plan; 83% agree with the Transportation plan; 80% agree with the Water priorities and 79% agree with the Wastewater priorities (see also the report to Council from the Policy & Planning Department dated March 23, 2011 and presented to Council on March 28, 2011). Respondents provided approximately 240 written comments to the open ended questions related to Infrastructure Planning (see Annex 2). Staff have thoroughly reviewed and considered each of the comments in drafting the proposed 2030 Servicing Plan and Financing Strategy.

Considerations not applicable to this report Personnel Implications:

Community & Media Relations Comments:

Alternate Recommendation:

Submitted by:

R. Cleveland, Director, Infrastructure Planning

Approved for inclusion:

J. Paterson, General Manager, Community Sustainability

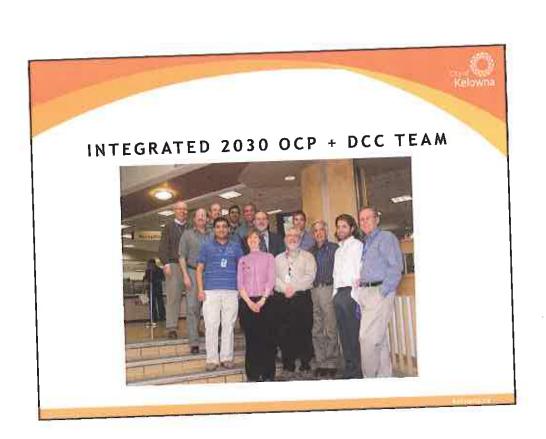
General Manager, Community Services cc: General Manager, Corporate Sustainability Director, Financial Services Director, Policy and Planning

2030 20-YEAR SERVICING PLAN & FINANCIAL STRATEGY: City of Kelowna

DCC BYLAW #10515

Council: 2011 April 18







AGENDA

- Context
- Network Solutions
- Program Costs & DCC Rates
- Next Steps & Recommendations





WHO PAYS FOR WHAT?

Financing Source	Pays For:
Development Costs paid in part by developer	New Water, Wastewater Trunks, Wastewater Treatment, Park Land Acquisition, Transportation networks required to increase system capacity to accommodate growth
Taxation & Utility/User Rates	Operation, maintenance, capital upgrades and eventual replacement of all DCC infrastructure, AND Acquisition, operation, maintenance, capital upgrades and replacement of: • Park construction, linear parks, natural areas • Non DCC local roads and highway urbanization • All buildings (operations, community protection, recreation/culture, airport)

Every DCC acquisition becomes an on-going liability to taxation.



DEVELOPMENT COST CHARGE ELEMENTS

20-year Servicing Plan and Financing Strategy (2030)

- Network Changes
- Project Descriptions
- Service Network Maps
- Service Cost Models

DCC Bylaw #10515

- Service Sector Maps
- DCC Sector Rates by service type correlated with each building type



CONSULTATION PROCESS

- Council Reports: 8 (May 2010-Jan 2011)
- Public Open Houses: 4 (2011 Feb 17,19,21,23)
- ▶ UDI Consultation: 20 (June 2010-April 2011)



interest #4

OCP CHAPTER7 INFRASTRUCTURE PRINCIPLES

- Life Cycle Analysis
- Integrated Resource Management Strategy
- GHG Reduction
- Multiple Bottom Line Assessment
- Integrated Regenerative Design Processes
- Maximize Infrastructure Utilization





OCP SERVICE OBJECTIVES

- Transportation: Balanced/healthy choice
- Utilities: Resource Conservation
 - Active/Natural & Linear Parks: Connectivity, quality





CHALLENGE: DEVELOPMENT FORECAST

Residential Unit comparison for 2020 & 2030 OCP

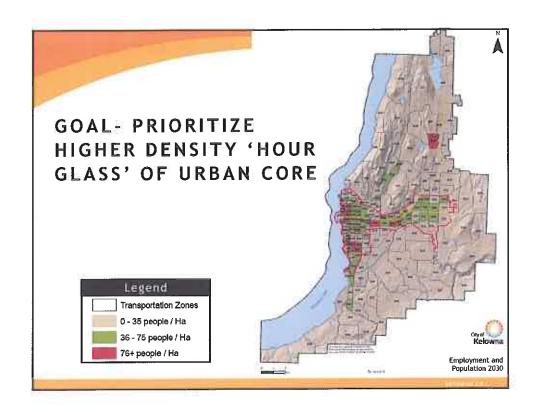
OCP	RES UNIT GROWTH	% CHANGE
2020	25,144	N/A
2030	19,952	-20.6%

Residential Units by 2030 Transportation Sector

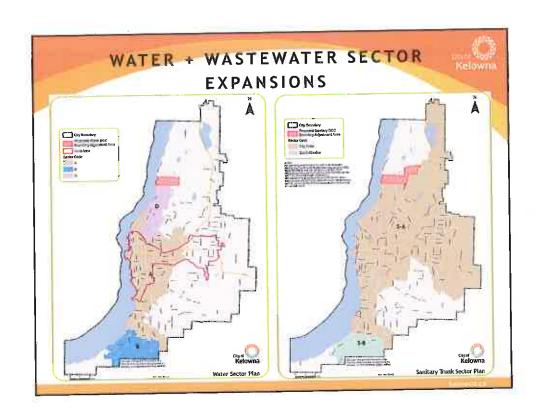
SECTOR	A: St Kelowna	B: South Mission	C: North East of 'I'		E. North of 'I'	I: Inner City ('I')
Units	45	2,117	691	1,657	2,146	9,851
% of Total	0.3%	12.8%	4.2%	10.0%	13.0%	59.7%

Growth triggers build out solutions in fixed increments BUT burden may be shouldered by fewer units. Suburban growth needs infrastructure support equally in South Mission, Black Mtn/Tower Ranch and Glenmore/UBCO.

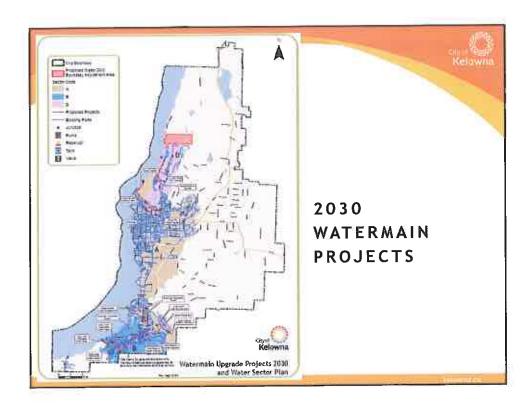
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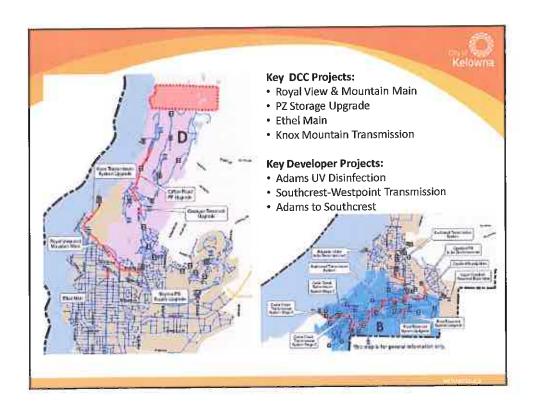




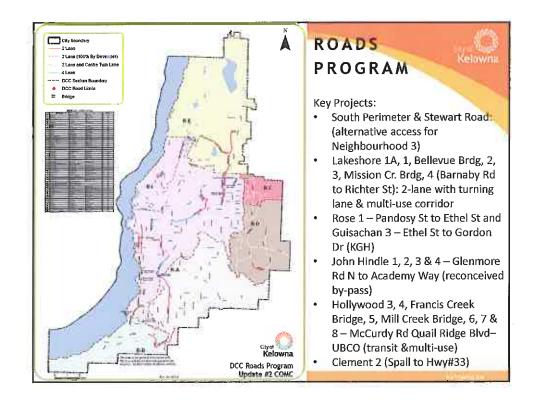


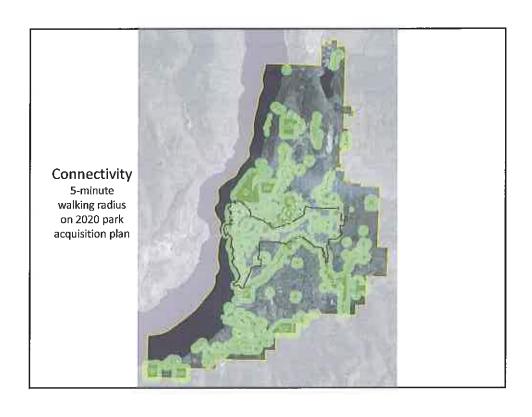


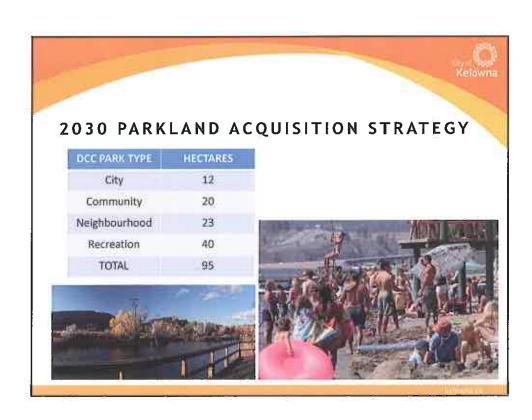




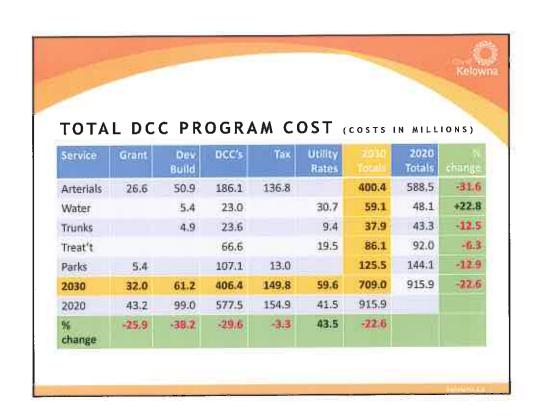




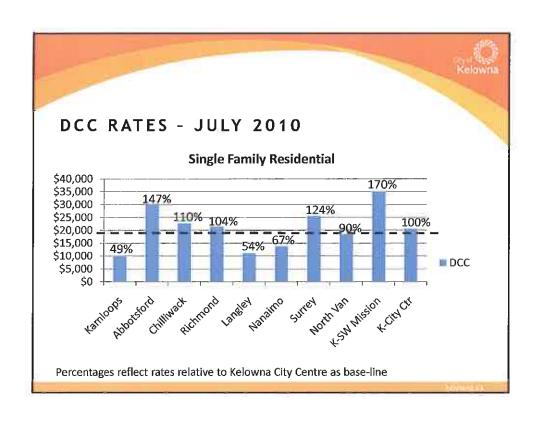


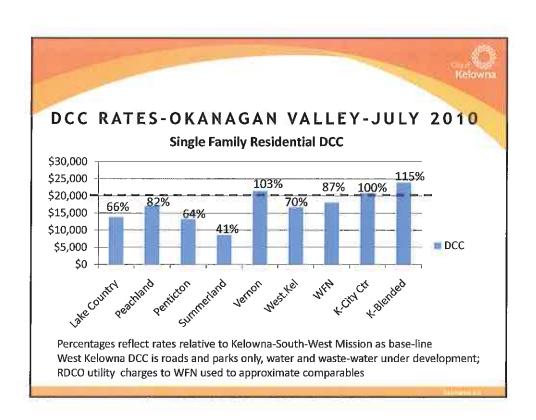














NEXT STEPS & RECOMMENDATIONS



Council Workshop: 2011 January 24





RECOMMENDATIONS

- Endorse 2030 20-year Servicing Plan & Financing Strategy
- Approve Water Sector Boundary Expansion
- Approve Wastewater Sector Boundary Expansion
- Give readings consideration to DCC Bylaw #10515; eventual repeal of DCC Bylaw #9095



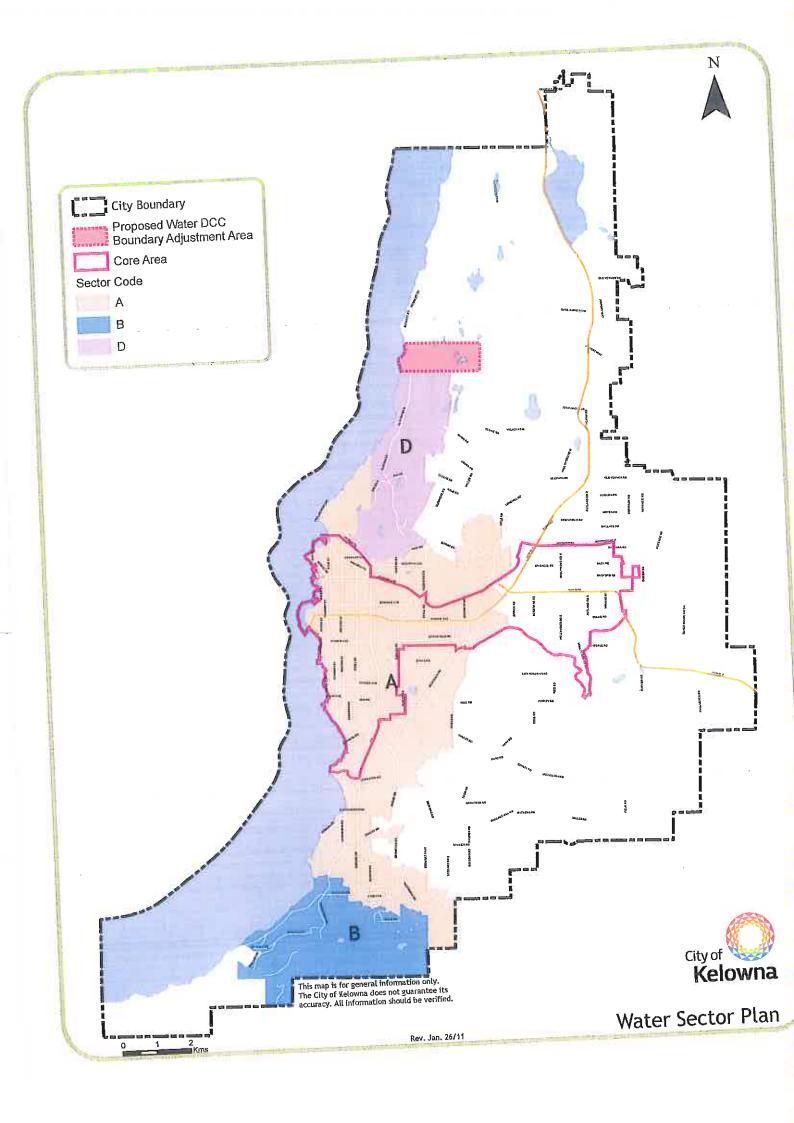
TENTATIVE SCHEDULE FOR 2030 OCP & 20-YEAR DCC BYLAWS

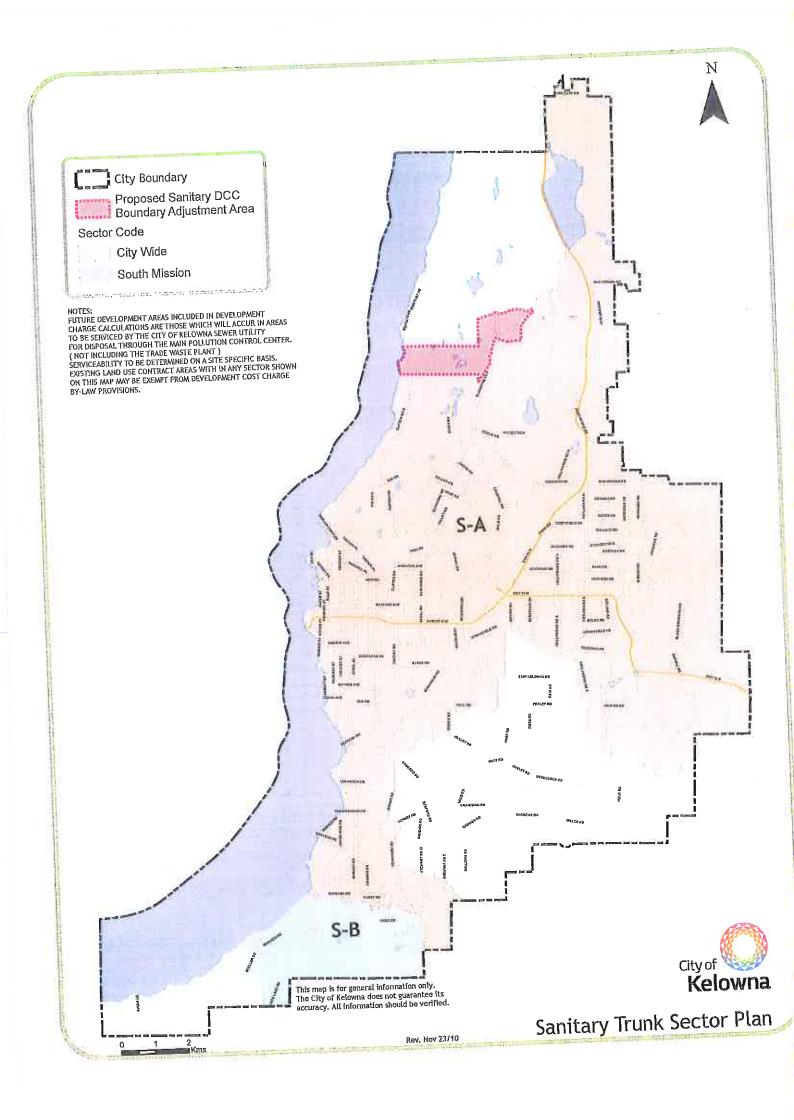
- April 11: OCP 1st Reading
- April 18: DCC Bylaw 1st Reading
 - Refer OCP Bylaw to ALC
 - Refer DCC Bylaw to MCRD
- May 24-25, 2011: Public Hearings
- After Public Hearings: 4th Readings

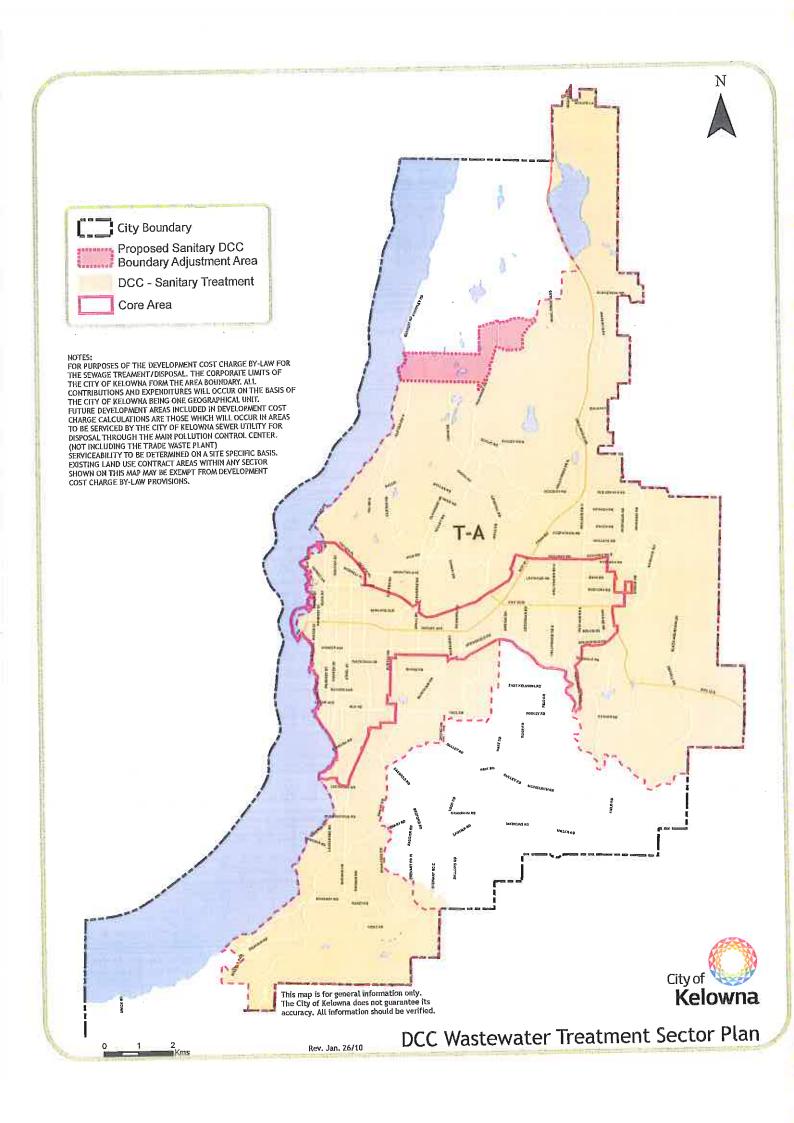


20 YEAR SERVICING PLAN AND FINANCING STRATEGY – 2030 REVIEW

MAPS









20 YEAR SERVICING PLAN AND FINANCING STRATEGY – 2030 REVIEW

ANNEX 1

City of Kelowna

April 6, 2011 File No. 1210-01



Office of the Mayor

Mr. Randali Shier Okanagan Chapter President Urban Development Institute-Okanagan Chapter 300-1708 Dolphin Avenue Kelowna, BC V1Y 9S4

Dear Mr. Shier:

re: Development Cost Charges (DCC)

Thank you for your letter dated March 23, 2011. It has been provided to City Council. The City of Kelowna recognizes the broad spectrum of UDI's membership, the impact of the development industry on the economic health of Kelowna and the collaborative partnership between UDI and the City of Kelowna. I understand that staff and UDI met on March 10, 2011 for a detailed review of the OCP Bylaw timelines, the pending School Site Acquisition Charge, as well as the 20 year Servicing Plan and Financing Strategy.

I understand your concern that DCC charges should be scrutinized during the preparation of the new Development Cost Charge Bylaw so that they reflect the true costs of growth-driven infrastructure, are fairly distributed between the beneficiaries of that infrastructure, and to the extent possible, stimulate the land development and construction sector during this time of economic downturn.

As you are well aware, the DCCs are a provincial-wide mechanism to assist municipalities in financing the capital cost of essential municipal infrastructure as a result of development. Additional capacity is required to support the demands of new growth: water treatment and distribution, wastewater collection and treatment, the arterial transportation network and parkland acquisition. It does not include the operation, maintenance, capital renewal or replacement of this infrastructure, nor does it include other municipal infrastructure such as linear park and natural open space acquisition, park development, recreational/cultural facilities, or operational facilities and capital equipment; all of which are financed through user fees and property taxes. Similarly, DCCs do not contribute towards the expansion of valued public programs and services as needed by citizens, nor new facilities for police, fire, or schools to serve an expanding population at the periphery of our City.

Kelowna has the median DCC rate of mid-sized municipalities in BC providing comparable services (Cities over 75,000 in population). In 2010, Surrey's DCC was 24 per cent higher and Abbotsford's DCC was 47 per cent higher than Kelowna's City Centre DCC rate, which is applied to over 50 per cent of the planned development in the City (our urban core). However, it is true that the Southwest Mission is the highest rate in the province, reflecting the actual cost of servicing a low-density, hillside development on the periphery of the City boundary. In terms of the rates relative to other Okanagan jurisdictions, Kelowna's City Centre DCC rate is between Penticton's and Vernon's. Kelowna's commercial rate is lower than the Westbank First Nation. In this regard, Kelowna's existing rates are already competitive both locally and provincially.

However, the fundamental principle in the determination of DCC rates is the anticipated cost of the actual infrastructure needed to support development in a specific location. This cost depends on many variables including the maturity of infrastructure build-out and the geographic (topographic, geotechnical, environmental sensitivity) attributes. In their work to date, City staff acknowledges that a 20.6 per cent decrease in equivalent residential units is anticipated relative to the growth that was projected in the 2020 Official Community Plan. As a result, new infrastructure capacity has been adjusted accordingly. (see chart below).

The DCC rates have been rising since the last full review of the DCC program in 2004, to keep pace with rapidly escalating construction costs. As you know, each of the rate increases in that period occurred one

City Hall, 1435 Nater Street, Kelowna, B.C. V1Y 1J4 Telephone 250-469-8980 Facsimile 250-862-3399 year after the project costs were incurred which means that the program was inadequately funded during the boom years of highest growth and highest infrastructure construction. The developer contribution was considerably less than the actual costs attributed to development. Acceptable unit rate corrections based upon actual Tender results were provided to UDI in the summer of 2010 and these have been applied to the projects identified within the 2030 Servicing Plan and Financing Strategy.

Highlighted by the current economic condition, Council directed City staff to examine the new 2030 DCC program closely to identify acceptable project scope reductions that might also yield a DCC rate reduction. The result has been a significant reduction in most DCC unit rates relative to the current rates across the program.

SECTOR	City Centre	SE Kelowna	SW Mission	Hwy.#33	Univ/Airport	NE Rutland
% CHANGE	-8.4%	-52.5%	-2.0%	-19.5%	-12.3%	+1.9%
from current				_		

Our proposed reductions will further widen the gap between Kelowna and the higher priced DCCs of Surrey, Abbotsford, Chilliwack and Richmond.

UDI has raised a number of other development related issues both individually with members of Council, as well as with City staff, many of which were discussed at a previous UDI Liaison Meeting with City staff held on March 10, 2011. Council has requested that City staff present a report to Council with regard to what the City is currently doing to address those issues raised by the UDI. It is my understanding that report will be on the April 18, 2011 afternoon Council agenda. Council agendas are posted at kelowna.ca/council at 4pm on Thursday afternoons for the following Monday's meeting. You are welcome to attend.

We remain confident that staff and UDI will continue to ensure that the right projects are completed to accommodate growth, that costs are appropriately allocated between beneficiaries, and that new employers and residents will be attracted to Kelowna because of the City's consistent dedication to fiscal accountability and prudence as well as transparent governance. Our relationship with UDI is very important. We look forward to a continuing constructive relationship with UDI in achieving sustainable prosperity.

Sincerely,

Sharon Shepherd

MAYOR

CC:

City Council

Ron Mattiussi, City Manager
Jim Paterson, GM, Community Sustainability

Randy Cleveland, Director, Infrastructure Planning

Keith Grayston, Director, Financial Services

April 1, 2011 File: 0220-02 City of Kelowna

Matt Cameron UDI-DCC Committee Chair Urban Development Institute #300 - 1708 Dolphin Ave. Kelowna, BC V1Y 9S4 MCameron@ctgconsultants.ca

Dear Matt:

Re: 2030 Development Cost Charges

Further to our meeting of March 10, 2011 where we agreed to provide you a detailed breakdown of the DCC Roads existing benefits (EB), the following is our response:

Existing Benefits: The existing benefits on the financial model are broken down into the following 4 categories: (note - the standard existing population/ new population ratio for the 2030 plan is 73.4%)

- <u>Sidewalks</u>: cost is taken directly from the roads detail cost estimate and applies to all roads in Sector I only, including those where only portion of the road is considered Sector I. Additional to that amount are 5% contract fees, 10% engineering and the applicable contingency percent. Applied to the total is the standard 73.4% ratio.
- <u>Bike Paths</u>: for sector I roads only. It is the length of each side of the road at a per meter cost of \$150 per meter. The per meter cost is determined by the Transportation & Mobility branch.
- Bridges: where there is not an existing bridge in place, one-half of the standard ratio, or 36.7%, is applied to the total cost of the bridge; the reason being that the new bridge is required mostly because of growth.

General:

For those strategic roads located in the heart of the City's existing population (the urban core), we will assign an existing benefit by applying criteria on a road by road basis to determine either a percentage EB (applied to net project cost) or a dollar amount of EB, as follows:

Existing Benefit of 33%:

Applied to Clement 2, Clement 3 and Highway 33(1) as these projects are basically growth driven, however there is some benefit to existing population as congestion on Enterprise and Springfield will be reduced.

Applied to Guisachan 2, Guisachan 3, Hollywood 3, 4, 5 & 6, Pandosy 1, Sexsmith 3 - these roads are being upgraded from rural to urban and the EB is to recognize that although these upgrades are triggered by growth, a portion of the existing population will benefit. Note, EB is not applied to Richter 1, as is being expanded to 3 lanes or Sexsmith 5, being expanded to 4 lanes, both strictly to accommodate growth.

Dollar amount - 4 meters of the 30 meter land right of way is applied as existing benefit as construction costs for the 2030 plan are for 26 meters. Land beyond 26 meters is included so it can be purchased as it becomes available. This applies to Lakeshore 1 and Lakeshore 2. This EB is not applied to Lakeshore 3 & 4 as the 30 meters are required in the 2030 time horizon.

Other:

John Hindle Drive - replaces McKinley Rd. (in the current (2020) plan at the standard of 62.5%) so in order to remain consistent we will keep the standard, now 73.4%. As well, it is a new road in a location servicing a large existing population; also recognizes the benefits to the University.

Lakeshore Bridge - Mission Creek - the existing structure (2 lanes) needs replacing as it is at the end of its useful life so an EB of 50% has been applied. This does not apply to the Wilson Creek Bridge as the existing structure is ok.

Other Spreadsheet Categories:

By Developer: is based on development being responsible for construction of roadway fronting their property. Staff estimated, based on zoning, where development is anticipated to occur along the DCC road network by reviewing ortho photos of each road, calculating the ratio of the length of the frontage of anticipated development to total road length and applying that ratio to the total cost of the project to give the 'by developer' amount.

<u>Highway Assist:</u> based on past experience with the Province, determining a percentage which it is felt can be negotiated. Note - Highway 33 is an actual amount as this road is complete. A 33% Provincial Assist is applied to the following roads projects:

Houghton Active Transportation - as this corridor connects users to the Rapid Bus system

Clement 2 - for congestion reduction on Hwy 97.

Clement 3 - no Provincial Assist as cost is for land only.

Highway 33(1) - for congestion reduction on Hwy 97.

<u>Secondary Suites</u>: the difference between the Residential 3 rate, the rate at which secondary suites would normally be charged and the flat rate approved by Council. This is absorbed by taxation.

Please note a 15% assist factor is applied to all project costs net of all the above amounts.

Attached is an updated copy of the 2030 Roads model. The binder of all the cost estimates for the 2030 Roads program will be forwarded to you next week.

We will be providing the final report to Council on April 13, 2011 for approval of the DCC Plan.

I hope this clarifies the financial model for you. If you have any questions please do not hesitate to call.

Thank you;

Jim Wunderlich Financial Strategist, Infrastructure Planning

cc.Randy Cleveland, Director, Infrastructure Planning Keith Grayston, Director, Financial Services Doug Gilchrist, Director, Real Estate & Building Services

Infrastructure
Planning
1435 Water Street
Kelowna, BC V1Y 1J4
TEL 250 469-8614
FAX 25 862-3349
kelowna.ca

CITY OF KELOWNA 2030 TRANSPORTATION SERVICING PLAN & FINANCING STRATEGY (2010) COST SHARING MODEL

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URBAN DEVELOPMENT INSTITUTE- OKANAGAN CHAPTER

300 - 1708 Dolphin Avenue Kelowna, BC V1Y 954 Canada T. 778.478.9649 F. 778.478.0393 udiokanagan@udi.org www.udi.bc.ca

- March 23, 2011

City of Kelowna 1435 Water Street Kelowna, BC V1Y 1J4

Attention: Mayor Sharon Shepherd and City of Kelowna Council

Her Worship Mayor Shepherd, Sirs and Mesdames:

Re: Development Cost Charges

The Urban Development Institute (UDI) is a national association (with international affiliations) of the development industry and its related professions. The 115 corporate members of the UDI - Okanagan Chapter represent hundreds of individuals involved in all facets of land development and planning, including: developers, property managers, financial lenders, lawyers, engineers, planners, architects, appraisers, real estate professionals, local governments and government agencies.

As a Partner in Community Building, the UDI is committed to working with communities and governments to create and achieve the vision of balanced, well-planned, sustainable and affordable communities.

Over the past eight or so years, our city has experienced both periods of rapid growth in population and development as well as a more recent three year period of a slowdown and virtual halt to private sector development and growth. During the "boom years", generally attributed to 2004 through to mid 2008, Kelowna DCCs rose dramatically, given the increased demands on infrastructure from emerging neighbourhoods and development projects as well as inflationary civil construction costs. Our membership and industry at large absorbed the escalating construction and DCC costs in our business models and passed these costs through to our customers. Actual percentage increases range by service area between 70.18% and 175.53% over these boom years.

How is it possible that with such large DCC increases, which outpaced construction costs during these boom years, that there is no significant reduction in the DCC rates in a proven environment of lower construction and land costs? The DCC rates have simply not declined as one would expect.

Until the new 2030 plan was released, DCC rates have been frozen or fixed at the absolute maximum of peak levels. We do acknowledge proposed reductions in some sectors in the 2030 plan. These have primarily been achieved with future infrastructure reductions in the SE sector. There have been reductions in some unit costing, but somewhere in the program there must be costs to pay for new requirements or we have not reduced our infrastructure requirements significantly enough to keep in line with the lower projected population growth. We need to better understand how these DCCs are established and ensure the proper split (assist factor) exists between the benefit of infrastructure to existing residents versus new residents.

Our concern today is that with all indicators of population growth and anticipated development pointing to a multi-year period of conspicuously slow growth, the simple act of not reducing DCCs significantly will, itself, have its own negative impact on our fragile recovery.

The development marketplace has adjusted to declining demand with lower unit costs in an effort to bring new product to market that is as affordable and value laden as possible. Declining material costs for non-petroleum based materials, the release of embedded cascading taxes through HST, competitive pressures on skilled trades to provide service at lower rates and lower land costs all reflect an industry hanging on by a thin thread and yet prepared to invest the time and money necessary to claw its way back to some measure of economic and job growth.

We know you are familiar with the significant contribution DCCs make to funding infrastructure placement and maintenance and, as stated earlier, the development industry is prepared to pay its fair share. However, Kelowna's DCC rates seem out of step with the economic realities of the day. Our DCCs here in the Upper Mission sector are the highest in the Province. DCC rates have significantly outpaced civil costs over the last decade. Civil costs are back to approximately 2002 levels yet DCCs remain near boom time 2007 levels. DCCs actually rose in the first full recessionary year [2008] and then were fixed in 2009. Construction unit costs are down at least 12% by index and as much as 20% for major components from peak rates.

Currently, the development industry directly employs about 17% of the Kelowna workforce and contributes immensely to the overall economic vitality of the region as well as the tax bases of various sorts. Development industry employment generates better than average wages and particularly targets the rather mobile 20 - 45 year age demographic. Job creation and affordability of housing spurs retail spending in all sectors and makes any community an attractive place to live, work and do business.

Other communities are certainly starting to recognize this. Penticton and Vernon have shown great flexibility in DCC application and rates.

Our DCC Committee is currently working closely with staff on details of unit cost calculations, projections of anticipated infrastructure demands and provisions of fairness in the allocation of benefits (assist factor) that flow from the Provincial Best Practices Guide. We appreciate staff's effort and hope that as a result of this dialogue, further reductions will be forthcoming.

...

We ask Council to look for ways to reduce DCCs and conclude with the thought that lower DCCs will benefit the city through investment, jobs, economic activity and an ultimately increased tax base.

Thank you for your consideration.

Yours truly,

URBAN DEVELOPMENT INSTITUTE

Per:

Randall Shier Okanagan Chapter President

RS/jr

cc: UDI Okanagan Chapter - Board of Directors



February 17, 2011 File: 0220-02

Matt Cameron UDI-DCC Committee Chair Urban Development Institute #300 - 1708 Dolphin Ave. Kelowna, BC V1Y 9S4 MCameron@ctqconsultants.ca

Dear Matt:

Re: 2030 - 20 Year Servicing Plan & Financing Strategy

Further to our letter dated February 2, 2011 please find attached 2 transportation maps - one of the DCC roads program and the second showing the DCC active transportation program.

As previously stated we would like an opportunity to meet and discuss the roads network with you at your convenience.

Thank you;

J. Wunderlich Financial Strategist, Infrastructure Planning

Attachments



February 2, 2011 File: 0220-02

Matt Cameron **UDI-DCC Committee Chair** Urban Development Institute #300 - 1708 Dolphin Ave. Kelowna, BC V1Y 9S4 MCameron@ctqconsultants.ca

Dear Matt:

Re: 2030 - 20 Year Servicing Plan & Financing Strategy

The City has now completed the transportation network and parkland acquisition proposals for the 20 year Servicing Plan & Financing Strategy. Please find attached, for your review and comments, a draft of the Transportation Financial Model, a draft of the Parks Financial Model as well as the summary sheet showing the cost of the overall 2030 DCC program in comparison to the 2020 plan.

Previously UDI was forwarded the Water and Wastewater plans; these remain the same. The 2030 Parkland acquisition plan was also approved at the January 24th, 2011 Council meeting. This report as well as the transportation network report to Council can both be found on the City website, items 12.1 & 12.2 (www.City of Kelowna/Council/Council meetings/2011-01-04).

As you will note from the overall program cost sheet, the total cost of the 2030 program is down 23% versus the 2020 program. This includes cost decreases in all services with the exception of Water. Stemming from this is a decrease in total DCC rates in most areas of the City, including Sector I which is reduced by 7.8%. We believe that this is a significant accomplishment considering that the total number of projected equivalent units has decreased almost 27%.

We would like an opportunity to meet and discuss the roads network with you anytime after February 16th when the Director of Infrastructure Planning, Randy Cleveland has returned from vacation. We will be conducting 3 public open houses in February; the schedule in this regard will be available February 7th, 2011.

We look forward to working together with you in the development of a sustainable and prosperous city.

Thank you;

Acting Director, Infrastructure Planning

Attachments

cc: Randall Shier, Okanagan Branch Chair General Manager, Community Sustainability Director, Infrastructure Planning Director, Financial Services

Infrastructure Planning 1435 Water Street Kelowna, BC V1Y 1J4 TEL 250 469-8614 FAX 250 862-3363 kelowna.ca

CITY OF KELOWNÄ 2030 PARKS ACQUISITION PLAN & FINANCING STRATEGY (2010)

EXHIBIT "E"	_					(2010 Dolla	rs v 1000)	
				HON D	CC REVENUE			NET
		TOTAL CAPITAL	ВУ	GOV'T	TAXABLE BENEFIT	NET REMAINING	SECONDARY SUITES	FOR DCC CALCULATIONS
TYPE	ACQUISITIONS	COST	DEVELOPER	ASSIST	BEIGETT		793	19,159
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		Total Growth Un	115.			46,147.5	1,624.1	44,523.3
		51,547.5		5,400.0		27,226.7	958.2	26,268.5
ly	12 Hectares	27,226.7				31,508.2	1,108.9	30,399.3
ommunity	20 Hectares	31,508.2				14,105.8	496.4	13,609,4
eighbourhood	23 Hectares 40 Hectares	14,105.8						14.000 5
ecreation	40 Hectares					118,988.2	4,187.7	114,800.5
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UBTOTAL B							440# #	109,280.
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		<u>2030 P</u>			\	<u>, , , , , , , , , , , , , , , , , , , </u>		
203	0 Major Ser	vices - Fun	ding Sourc	es (\$ Millio	ns)			% Change
Major Service	Prov. Grant	Developer Construct	DCC's / Reserves	Taxation	Utility User Rates	2030 Totals	020 Totals	from 2020
Wajor Service			195.9	126.2		398.2	588.5	(32.3)
Arterial Roads	23.8	52.3			30.7	59.1	48.1	22.8
Water Distribution		5.4	23.0		•	37.9	43,3	(12.5)
Wastewater Trunks		4.9	23.6		9.4	1		
			66.6		19.5	86.1	92.0	(6.3)
Wastewater Treatment	,		107.1	13,0		125.5	144.1	(12.9)
Parkland Acquisition	5.4		107.1			706.8	915.9	(22.8
2030 Totals	29.2	62.6	416.2	139.2	59.6	100.0		
The second desired States of the States of t	43.2	99.0	577.5	154.9	41.5	916.9		1
2020 Totals	49.4	(36.8)	(27,9)	(102)	43.5	(22.6)		

ROADS (Res 1)	<u>A</u> S.E. Kelowna	<u>B</u> South Mission	<u>C</u> NE of Inner City	D North of Hwy 33	<u>E</u> North of Inner City	F South of Hwy 33	I Inner City	
2020 program Total DCC Rate	25,529	23,743	14,505	16,932	14,203	13,678	9,176	
2030 Program Total DCC Rate	9,323	23,609	14,473	11,238	12,285 (13.5)	combined w D	7,696 (16.1)	
% Change DCC Rates Roads 2020 equiv. units Roads 2030 equiv. units	(63.5) 553 43	3,701 2,117	781 689	1,801 1,657	2,161 2,143		13,461 9,847	22,458 16,496 (26.5)
% change equiv units	(92.2)	(42.8)	(118)	(8.0)	(0.8)	<u> </u>	11 (ZV.O) (3.11)	

PARKS

2020 Program	5,069
2020 Program	5,300
2030 Program.	4.6

TREATMENT

2020 Program	3,044
SARA Desarram	3,723
2030 Program % change	22.3

TRUNKS	Not S. Mission	S. Wission
2020 Program	1,562	1,979
2030 Program	1,294	1,903
% change	(17,2)	(3.8)

WATER	A	<u>B</u>	<u>D</u>
2020 Program	1,757	1,289	3,054
2030 Program	998	679	3,552
% change	(43:2)	(273)	16,3

% change						
DCC RATES ALL P	ROGRAMS S.E. Kelowna	s.w. Mission	N.E. Rutland	Highway 33	University/Airport	<u>City Centre</u> 20,608
2020 Program	30,598	35,124 35,214	24,180 24,789	26,607 21,55 <u>4</u>	23,878 22,601	19,010
2030 Program \$ Difference	14,623 (15,975)	90	608	(5,053)	(1,277) (53)	(1,598) (7.8)
% change	(52.2)	0.3	2.5	(3) (4) 30 (12)	Sept. Sept.	

02/01/2011

CITY OF KELOWNA 2030 ROADS SERVICING PLAN & FINANCING STRATEGY COST SHARING MODEL

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ACTIVITY TO NATIONAL PARTIES 1962 178 17	ACTIVITY TO ACTIVITY CONTINUES AND ACTIVITY	Kusing 4	Snowsell - Glentione Bynass	 	1	ļ	ļ	98.1	55,4		828		37.3					
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Control Cont	Comparison	Sexemith 3	pool protect that	8		4	0,106.5			ļ	25,463.		48,8				_	
	ACTIVETY NOWED TAXABLE March Mar	Saxsmith 5	LONGTHI - Preliatio I voca		П	1	34,285.4	ł	2,772.0	ŀ							_	
The control of the	The control of the				- 1	ı												
Control Registry Control Reg	The control of the					_	_	•		1	١		500	109.9			<u> </u>	
The control of the	Compact Comp	ACTIVE	TRANSPORTATION	1		-			306	1	ļ		2 4 5	121,5				
The control of the	The control of the	П					415.6		337	ı	ļ		217				41.7	
Part	Holymore Teach Effective Control of the Control of Co		Dahari Rd - Vintago 18(1809			١.	459.4		115		1						155.0	
The department of the content of t		1 attention S = 5 T	Old Meadows - DoHart						150				68,0				54.8	
No. Control Resident Parts State	Maintain Maintain	Lakein 2-2	Hollygood Road - Highway 97				4163						64.8				48.3	
		Airport	Cleamore Rd - Stallon 114340				0.000		100	1	ļ		48.3				52.4	
		E-W Connactor 1 - A1				1	2407		128	١	İ		29.4					 - -
		E-W Connector 2 - AT	Station 1945454 Bollate				175.0		144		ļ		, a, c, c, c, c, c, c, c, c, c, c, c, c, c,				30.4	
	The Statistic National Purpose 156.00 156.	E-W Connector 3 - AT	Station 11+900 - Stalian 12+300			L	196.9		142		ì	ļ	40.5				381.6	127.5
Section Sect	Committee Comm	TO Section 1	Station 12+300 - Station 12+750			 _	453.4			ļ	İ		509.1				_	2,803,3
Stricket Countries Stricke	Congineri - Cunidi Riego	E-ty Configuration	Sexsmills Road - Appaloase			L	Opco		10.5	ļ	ļ		803.3					1,121.
The control of the	Communication Course Cou	Hollywa / - M.	t Aushand - Ottell Ridge			1			in a	ļ	ł		121.7				<u> </u> -	128.4
The control of the	Harmer - Carlotte	Hollywd 8 - AT	Total and a second		ļ	\	5,37 b.3		3,14	1	١		128.A					1.111.
Human	Hart No. Hart No.	Abbott AT	ROSB - LAKEShore				1,241,4		355	ļ	1		1				1	840
Chical-Langer Curica 20 Control Curica 20 Curica 20 Control Curica 20 Control Curica 20 Control Curica 20 Control Curica 20 Curica 20 Control Curica 20	Clicia	TA-Engine	Barrora - KLO		ļ	L	485.4		3,08		١	ļ						
Control Cont	Climate Language Climate Lan	To- A control	KLO - Ethol	DCUZL SA	ļ	L	1,203.3		222	Į		6'2	019,0				-	408
Section Control Cont	Linearin Springfield United British	Cilsoland	Clement - Lawson	UCUZI 20		ļ	9 900 6			ļ	l		408.1					794.
Similaries Lories	Standard - Facilities Greek August Augus	Ethel 1 - A1	planuous - assure I	Ucuzi, 20		Į,	20000		1,13	ļ	Į	 	784,3				<u> </u>	1,518
State Stat	State Communication Comm	Ethol 2 - AT	Maria Company			╛	1,643.2		2,20	Į	ļ	١	0 6 7					1
The High-Dalles Use, as Serges	The Comment Planting Comment	Ethel 3-AT	Springfield - Morrison				3,003.7		4,21	١	Į	1	2010					
The Column With Ward W	The Column White	Ethol & . AT	Montson - Raymor			L	6,743.3		25.5			1	851.5				1	27000
The Page-Dalles Vocat of Carlotte Vocat	The Part Par	TO STATE OF	Clement - High			L	4 0001.0			ļ	l		057.6					÷
The contractive cases Section Contractive cases Section Contractive cases Section Contractive cases Section Contractive cases Section Contractive cases Section Contractive cases Section	The control of the	Glenmore 3 - Al	Cick. Online			ļ			7,80	1	١		41.7				<u> </u> 	**
The control of the	The Section	1 Glanmore 4 - AT	anima ilito		206,000	_	4,036,5		+	1		2	0.50	i				1
High grade - Figure High grade - Figure High grade - Figure High grade - Figure High grade - Figure High grade - Figure High grade - H	Machine Mach	1 Glommore 5 - AT	Scanta - EW Connector				167,8				ļ	17.7	O'BE					
Science - Holeway Track	Squared - Highway Track	Tomand 3 . AT	McCounty Road - Strame!			L	363.1					4.8	92.7					1
Highway Track Standing Name Excess	Highway Track Stratement Highway Track Strat	Donyway of the	Stramel - Highway 97				498.9			l		12.4	28.0					8
Fallway Track - Statement Rend 1900 19	Figure F	Hollywa 4 - At	Licham 97 - Raligay Track			120,802				1	ļ	183	546,0				- 	388
Honologic Honology Honology	Hally 1855 Hal	1 Hollywd 5 - AT	and the same of th		ļ	1	20,4		2,3		l		300.5				+	۲
The part of the	Hally State Hard State Ha	I Hollywd 8 - AT	Rollway Inter-Sonantalia	25:30		_]	3,199.1		우	-	١	213		 			-	
T Part Par	The part of the	. Wellings 8 - AT	Hollydell - Hwy 33	MANAGE MANAGE	100		1,467.6					49.7]			+	
The Employability Albanish Cheek Univat. 87 September Cheek Univat. 87 September Cheek Univat. 87 September Cheek Univat. 87 September Cheek Univat. 87 September Cheek Univat. 87 September Cheek September Cheek	The September Cheek Usuria, 27 2000 4,164.6 2,200.0 4,	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Hry 33 - McCurdy	UNUA PAREN		1	67.8					63.4	1,101,4				-	í.
	Var Nickel-Cicilio 3 Vicilia	To all and the	Saringeld - Mission Greek	UAUAL, 20		Ĺ	x 454.8			l		08.6	793,4				<u>_</u>	525
AT Compass @ House to expose 1,000.01 AT Advisor Posses to expose 1,250.4 And Advisor Posses to expose 1,250.4 Finding Posses to expose 1,2	AT	[Hollywd 13 - A l	Sales - Colife 3		2,005,320	1	4,10%		2,7	ļ	١	n ac	672.3					*
Art	AT Abhort-Pendesy Children User, 20 1782.0 1	Houghlon 1-AT	Michael Commission			_	1		2,	Į			11.11					15
AT Highwar Pullmind Under Unitarity Task of page 178.4 ESTA For the page 178.4 ESTA For the page Additional page Additio	Art Haywa Pullmin Value 1784 1806	1 Houghton Overpass - AT	Overpass @ HWY 97	DE INTERNA	1007 5501					1	1	50.3	100				1	i ?
Abdull Pendesy Upper Section	Abharit = Pendosy Usural 15-20 Gapton 15-64-16 24-16-16 15-64-16	. Ilmships 2- 6T	Hillyyd - Rulland	DENZI	ł	200			\ 			507.3	577.b				1	5
Principary - College Upput No. College College College College College College College 275.8 College	Punday Collège Unut. 1850 Genzo 178.00 178.00 278.30 278.30 Punday - Abient UCUR. 10 anyer 178.00 0.5 278.30 0.5 278.30	Haugust 1	Abhott - Pandosy	UCUAL 20	1	1	١			ì		948.8	341.1					ا ا
Principal Court		1 KL01-A1	Desident - Online	UCUAL \$5-30	Į	l	4. 100 m			ļ	ļ	2763	100.4					İ
Pandosy - Abitott	Parloby Abiliant Colds. 10 angles 379.0	1 KLO 2-AT	PRINCES - SAMPLE	ol journ		_	1,289,9			١		2/30						
	SOURCE POLICY TO THE COURT OF T	. Labs 4 a AT	Pandosy - Abhail	4			379.0											

Page 81

t 2 4

Sector Common Total Roads

Institutional - per Sq Mtr

									100	Containation X 40051				SWOILYOU I'V COME		-	
													DOG SECTOR	CALLOCATIONS		1	_
			$\mid \cdot \mid$	NON DOC REVENUE SOURCES	- 1			1	Speciality	_	NET FOR	4		O I	Morthaf Not	North of CO	COMMON
		TOTAL			MOTH	Bike Paths Biki	Bridges Sidewalk	Bonellt	Stilles	Pald By	DCC BASED	S.R. ' Kelosma	Master In	ļ		+	8 6 6 7
	Otors Bell?	CAPITAL		By rughways	150/97				100		369.8					<u> </u> -	628.2
LOGATION		1	۱.	1				1,041.8	27	7 744 7	625.2						316.7
nie chiwadi - Erfemise		١	1,4 / 0.0					1,738.1	2.0	1,141.	344.7					1	20.2
Enterprise - Springfield Rd.	UGUZI. 25		2,000,1					873,5	01	4004	8.83					1	4 469.3
Readows Road	H	١	a'ng					109.2	z l	100,4	7 707 7						100
Landonna Dond - Richler Sired		148,750	148.8					3,228.7	8,6	3,235.4	20014					1	1.00
Children Ivers	10	4,390,715 4,5	4,398.7					1927	4.0	193,1	4 200					1	1,738.2
Spall - Houghion		262,500	262.6					4.824.5	10,1	4,834,6	1,738.2					-	1,198.3
pandosy - Ether	25 507 500 500 500 500 500 500 500 500 50		6,572,9					3.328.0	7.0	3,333.0	1,198.3					_ _	
Hwy 87 • Gardon		'	4,631.3										1,000			772,0	22,712,9
Gordon - Lako		L	_					69.824.1	138,2	65,932.4	23,718.3		1 Eller				
	A214444	03,447,689 90,	90,78S.7	1,108.1													(3,000,0)
ACTIVE TRANSPORIALIUN	Ħ				1000					1	(3,000,0)					-	
					(A) DOM (A)						1	7 962	41,058,4	5,488.9	١	12,803.4	149,381,2
			- 1			9 1127 9	398.9 3,069.8	84,625.5	2,289.3	24,180,2	225,741.0	A 025 01	75 825.81	(46,5)	1	(1,350.0)	(1,485,0)
	73,000,000 347	362 37332344 396	396,000,5	52,344.8 23,784.0	2,0		ı	1 1	ıl	1	(14.678.4)	90.9	38.238.8	5,442.4	6,835.6	11,452.6	147,876.2
		- (Д.			2.027.2	398,9 3,069.B	84,626,5	2,209,3	94,180.2	210,820,0				1	1	
Reserva Balancoli:	72,495,210	577,392,244 39B	396,080,5	52,344,8 23,793,0			Į.	l				000	90.236.6	5.442.4	6,836.5	11,452.8	147,876,2
		_1	_			0.007.5	3089.6	84,526,5	2,289.3	84,100.2	210,926.3	e'on	A 400	56.4	68,4	114.5	1,478,3
	TO CHARACTE CI	396 942,285,244	396,060.5 52,	12,344.8 23,793,8	١	3,021.4	١.	1	l		2,109.3	8.0	2224	o gar a	6.904.9	11,687.1	149,355.0
	1		1,108.5 En	2,109.9 Englacering/Administratii	ratii 1%						213,034,6	DH.7	39,628,0	0,490.0			
		300	1,169.7 But	ototal D										10 1000	14.025.71	(1.735.1)	(22,403.3)
					١						(31,935.2)	(12.3)	(5,044,3)	[5.420]	f Daniel 1		-
			Lees	ss Assist	46%						464.079.6	58,4	33,534.6	4,672.3	5,869.2	9,032.1	176,831.0
			Total	to for DCG							100000						
			<u> </u>	10101									10 342	R 777	0,542	4,580	_
									Residential 1:		Sector	1,627	7,696	7,596	2,698	7,696	_
											Common Total Roads	9,323	\$2,609	14,473	11,238	12,245	_
															2.300	4.343	_
									Residential 2		Sootor	1,529	14,963	9,370 7,934	7,234	7,234	
					_						Common	7,234	22,193	13,804	10,584	11,547	
											DIN YORKS				0.070	3.074	_
									Daeldanflet 3.		Seator	1,090		4,540	1,450	99,168	_
									· wandering		Common	6,156	21,150	9,158	7.529	5,231	_
											Total Reads	47.40					
					_							1.025		4,269	2,231	2,1393	
									Residential 4:		Common	4,049	4,849	4,849	4,845	4739	
					_				_		Total Roads	5,873		8,118	1,000		
					_									9	3	40	
									Residential	5 - per Sq Mir.	Seator	4.		8 8	99	69	
									100 sq mp	(55 sq mtrs or less);	Common	000	208	127	68	108	
					_						Scator					44	
					_					and the same of th	Saakor			23	i i	2 12	
									Commercia	to lock	Common	25	26		3 25	4	
											Yotal Roads	r)					
									[4.045		l	8,749	11,334	
									- Industrial -	Industrial - par Heotare:	Common	19,008	19,009	18,009	19,009	30,343	
									_		Total Roads	23,02					
					_					1			1	66	12	ta ta	

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2020 ROADS COMPLETED/DROPPED

	a da da da da da da da da da da da da da	
	Lakeshore Road - Gordon Drive	Complete Complete
*B Dehart 1 (2L)	Gordon Rd to Swamp	Complete
*B Dehart 3	Barnaby/Gordon Intersect to Dehart	Complete
*B Gordon 2 *B Gordon 3	Dehart Rd to Old Meadows Rd	Complete
	DeHart Rd to Casorso	Complete
me e ladend	Frost Rd to South Perimeter Rd	Complete
B Chute Lake 2	Barnaby Rd to Frost Rd	Complete
B Frost 2	Kildeer to ending of Existing Frost	Complete
B Frost 3	End of Existing Frost to Gordon Dr.	Complete
B Kilideer	Chute Lake Road - Frost Road Vintage Terrace Rd to Barnaby Rd	Complete
B Lakshr 1A	Lebanon Creek to Chute 1	Complete
в S. Per. 2	Perimeter Rd to Crawford	Complete
B Stewart Rd 1 & 2	Craig Rd - Tower Ranch (All Dvlpr Credit)	Complete
C McCurdy 4 (Dev Credit)	Highway 33 - Treetop Road	Complete Complete
D Gallagher 3	Hghwy 97/Hllywd Rd/Unvrsiy Wy	Complete
E UBC Flyover	Cooper Road - Springfield Avenue	Complete
Benvoulin 2	MacLeay - Clifton (existing)	Complete
I Clifton 1 I COB A	Graham - Cerise	Complete
	Cerise - Spall	Complete
i COB 1 i Enterprise 1	Banks Road - Leathead Road	Complete
i Glenmore 1	High Road - Dallas	Complete
I Glenmore 2	Dallas Road - Union Road	Complete
I Glenmore 3	Union Road - Scenic Road	Complete
Gordon 5	Mission Creek - Casorso	Complete
I Gordon 5B	Mission Creek Crossing Casorso Road - Lanfranco Road	Complete
1 Gordon 6	Mountain Drive - Lynwood Cresent	Complete
ı High 2	McKenzie - Gallagher	Complete
1 Hwy 33	Enterprise - Highway 97	Complete
i Hwy 33 1	Gordon Drive - Highway 33	Complete
ı Hwy 97 1	Ellis/Hwy 97 Intersection	Complete
ı Hwy Link-Ellis	Lake - Lawrence	Complete
Hwy Link-Pand 3	Mill Creek Bridge	Complete
Hwy Link-Pand 3B	Sutherland - Bernard	Complete
1 Hwy Link-Richter	Gordon Drive - Benvoulin Road	Complete Complete
I KLO I McCurdy 2 (Dev Credit)	Enterprise - Highway 97	Complete
	Highlands - Internal Road C1	Complete
an tale of	Ridge Road - Millard Road	Complete
Springfield 2	Ziprick Road -Hollywood Road	•
1 Opting		Dropped
A Gulley 2	Spiers to Hart	Dropped
A Hollywd 2	East Kelowna Road - Springfield	Dropped
A Hollywd 2b	Mission Creek - Crossing Gordon Drive - Lakeshore Road	Dropped
*B OldMws (4L)	Frost - Frost	Dropped
B Frost 1b	City Limits - East Connector	Dropped
E Beaver Lake Rd	Glenmore Road - Highway 97	Dropped
E McKinley 1	Creek - Crossing - Crossing	Dropped Dropped
F Gallagher 1b	Richmond Street - Burtch Road	Dropped
Bernard 2 Burtch 1	Benyoulin Road - KLO Road	Dropped
m / 1 P	Highway 97 - Kelglen	Dropped
i Burton 5 i Hwy 97 2	Highway 33 - Sexsmith	Dropped
1 McCurdy 2b	Mill Creek - Crossing	Dropped
McCurdy 3	Hwy 97 N - Hollywood Rd N	Dropped
Pandosy 2	Royal - Lake	Dropped
Rutland 1	Leathead - Comish	Dropped
Sexsmith 4	Valley - Longhill Richter Street - Ethel Street	Dropped
ı Springfield 1	Richter Street - Ether Street Hollywood Road - Rufland Road	Dropped
ı Springfield 3	Hollywood Road - Rasanta - 1	

		TRANSITIONTING		
1			(X 1,000)	<u>Origin</u>
		_	2,885	2020 prog, updated cost
McCul	lloch	Various	1,981	2020 prog, updated cost
Casor	rso 1	Benvoulin - Swamp	2,744	New
Casor	rso Bridge - Mission Cr.	Widening bridge to 4 lane	1,719	2020 prog, updated cost
Dehar	rt 2	Lakeshore Road - Gordon Drive	455	2020 prog, updated cost
Gordo	on Bridge - Bellevue Cr.	Crossing - Bellevue Creek	4,713	2020 prog, updated cost
	nr 1 (4L)	Dehart Rd - Vintage Terrace	5,714	2020 prog, updated cost
Laksi	or 2 (4L)	Old Meadows - DeHart	1,428	2020 prog, updated cost
Laksi	hr Bridge - Bellevue Cr.	Crossing - Bellevue Creek	6,443	2020 prog, updated cost
Stew	art Rd 3	Swamp - Crawford Rd	2,114	2020 prog, updated cost
	iencies	Frost 2/3,Bmby 1, Kldr, S. Per 2,Stwrt 2	1,851	2020 prog, updated cost
Frost	t1	Kildeer - Chute Lake	1,783	2020 prog, updated cost
Gord	ion 1 - part 1	Frost - South Crest Dr	3,522	2020 prog, updated cost
	lon 1 - part 2	South Crest Dr - S. Perimeter	2,377	2020 prog, updated cost
	hr 1A (4L)	Vintage Terrace Rd to Barnaby Rd	8,585	2020 prog, updated cost
S. Pe	erimeter 1	Gordon Dr to Stewart 1	5,489	2020 Dvipr Credit
: McC	urdy 4 (Dev Credit)	Craig Rd - Tower Ranch (All Dvlpr Credit)	8,194	2020 prog, updated cos
Galla	agher 1	Lagovista - Gallagher Rd	21,604	2020 cmplt, not all pd
High	iway 33 (Complete)	Mckenzie - Gallagher	2,878	2020 prog, updated cos
Lone	e Pine	Highway 33 - 500m east	1,517	2020 prog, updated cos
E Airp		Hollywood Road - Highway 97	2,521	New
= F-W	Connector 1	Glenmore Rd - Station 11+340	1,136	New
EEW	Connector 2	Station 11+340 - Station 11+900	3,042	New
E E-W	Connector 3	Station 11+900 - Station 12+300	2,611	New
	Connector 4	Station 12+300 - Station 12+750	•	2020 prog, updated cos
e Holl		Sexsmith Road - Appaloosa	1,891	2020 prog, updated cos
e Holl		Lougheed - Quail Ridge	9,320	2020 prog, updated co
	ibie Road	Glenmore Highlands - Glenmore Rd.	2,247	2020 prog, updated co
	rvoulin 1	Casorso Road - KLO Road	9,242	2020 prog, updated co
_	rtch 2	KLO - Byrns Rd	4,830	2020 prog, updated co
	rtch 4	Sutherland Road - Highway 97	476	2020 prog, updated co
	ment 1	Ellis - Gordon	6,778	2020 prog, updated co
Cle	fton (formerly High 1)	Clement - Mountain	4,636	2020 prog, updated co
		Spall Road - Highway 33	46,121	2020 prog, updated co
	MC 2	Highway 33 - McCurdy Road	2,093	2020 prog, updated co
	MC 3	Old Meadows Rd - Lequime	794	2020 prog, updated of
	rdon 4 iisachan 2	Gordon - Nelson Rd	3,224	New
	nsachan 3	Ethel - Gordon	2,186	2020 prog, updated co
		McCurdy Road - Stremel	1,629	2020 prog, updated of
	iliywd 3	Stremel - Highway 97	4,438	2020 prog, updated of
	ilywd 4	Highway 97 - Cambrio	3,309	2020 prog, updated co
	ollywd 5	Camble - Sexsmith Rd	511	2020 prog, updated c
1 Ho	ollywd 6	Francis Creek - Crossing	35	2020 prog, updated c
Ho	ollywd Bridge - Francis Cr.	Mill Creek - Crossing	1,052	2020 prog, updated c
l Ho	ollywd Bridge - Mill Cr.	COMC - Enterprise	4,308	2020 prog, updated c
1 HV	wy 33 1	Sutherland - Bernard	3,443	2020 prog, updated c
1 H	wy Link - Gordon	Sutherland - Lawrence	3,000	2020 prog, updated o
1	wy Link - Pand 3	Richter Street - Old Meadows Road	19,821	2020 prog, updated o
l '	kshore 3	Lanfranco Road - Richter Street	3,792	2020 prog, updated o
l Li	kshore 4	Mission Creek - Crossing	5,662	2020 prog, updated o
1 1	kshore Bridge - Mission Cr.	Wilson Creek - Crossing	1,001	2020 prog, updated of
	kshore Bridge - Wilson Cr.	Dilworth - COMC	1,265	2020 prog, updated
1 ' '	lcCurdy 1	COMC - Highway 97 (& Dev Credit)	689	2020 Dvlpr Credi
1 '	lcCurdy 2	Raymer - Rose	3,702	2020 prog, updated
1	andosy 1	Sutherland - KLO	7,100	New
	Richter 1	Cara Glen Way - Sexsmith Road	20,416	2020 prog, updated
	Ridge	Clifton Road - Highlands	1,286	2020 prog, updated
	Rio 1	Dendery, Gerden	8,072	New
	Rose	Pandosy - Gordon Cornish Road - Old Vernon Road	5,210	2020 prog, updated
ı R				2020 prog, updated
1 F	Rutland 2	Output Note One Company	136	Zozo program
1 F 1 F 1 F	Rutland 2 Sexsmith 2	Snowsell - Glenmore Bypass		2020 prog, updated
1 R 1 R 1 R	Rutland 2	Snowsell - Glenmore Bypass Glenmore Bypass - Valley Road Longhill - Rutland Road	1,650 12,608	2020 prog, updated 2020 prog, updated

TRANSITION FROM 2020 ROADS PROGRAM TO 2030 PROGRAM

		416	New
Lakshr 1 - AT	Dehart Rd - Vintage Terrace	459	New
Lakshr 2 - AT	Old Meadows - DeHart	175	New
Airport - AT	Hollywood Road - Highway 97	586	New
TA . Bundanasanud . AT	Glenmore Rd - Station 11+340	245	New
	Station 11+340 - Station 11+900	175	New
was a section 2 - AT	Station 11+900 - Station 12+300	197	New
E-W Connector 4 - AT	Station 12+300 - Station 12+750	153	New
E-W Connector 4 - At	Sexsmith Road - Appaloosa	1,925	New
Hollywd 7 - AT	Lougheed - Quail Ridge	10,978	New
Hollywd 8 - AT	•	4,241	New
Abbott - AT	Barrera - KLO	485	New
Casorso 3 -AT	KLO - Ethel		New
Casorso 4 - AT	Clement - Lawson	4,203	New
Ethel 1 - AT	Lawson - Springfield	3,097	New
Ethel 2 - AT	Springfield - Morrison	1,543	New
Ethel 3 - AT	Morrison - Raymer	3,004	New
Ethel 4 - AT	Clement - High	5,743	New
I Glenmore 3 - AT	High - Dallas	7,001	New ·
I Glenmore 4 - AT	Scenic - EW Connector	4,036	New ·
l Glenmore 5 - AT	Hwy 33 - McCurdy	1,468	* *
Hollywd 10 - AT	Springfield - Mission Creek	68	New
Hollywd 11 - AT	McCurdy Road - Stremel	158	New
Hollywd 3 - AT	Stremel - Highway 97	363	New
1 Hollywd 4 - AT	Stremel - Filgilway 97 Highway 97 - Railway Track	197	New
Hollywd 5 - AT	Highway 97 - Nauway Have	98	New
Hollywd 6 - AT	Railway Track - Sexsmith Road	3,199	New
Hollywd 9 - AT	Hollydell - Hwy 33	4,165	New
1 Houghton 1 - AT	Nickel - COMC 3	3,880	New
Houghton 2 - AT	Hilywd - Rutland	3,000	New
Houghton Overpass - AT	Overpass @ Hwy 97	726	New
KLO 1 - AT	Abbott - Pandosy	2,185	New
10 0 0 AT	Pandosy - College	1,290	New
KLO2-AI Lake1-AT	Pandosy - Abbott	380	New
Lackie 1 - AT	COMC 2 - Dilworth	1,474	New
A TOTAL OF ATT	Dilworth - Enterprise	2,368	New
1 AT	Enterorise - Parkview Crescent	1,190	New
A Particular S. AT	Richter Street - Old Meadows Road	149	New
Lksnore 3 - Al	Lanfranco Road - Richter Street	4,399	New
Lkshore 4 - AT	COMC 4 - Hollywood	4,399 263	New
Raîls w Trails - AT	Pandosy - Gordon		New
Rose - AT	Hwy 97 - Gordon	6,573	New
Sutherland 1 - AT	Gordon - Lake	4,531	1.40.44
Sutherland 2 - AT	2030 program - total AT	90,787	
		396,065	
	2030 Program Grand Total	000,000	





URBAN DEVELOPMENT INSTITUTE- OKANAGAN CHAPTER

300 - 1708 Dolphin Avenue Kelowna, BC V1Y 9S4 Canada T. 778.478.9649 F. 778.478.0393 udiokanagan@udi.org www.udi.bc.ca

November 22, 2010

School District #23 (Central Okanagan) 685 Dease Road Kelowna, BC V1X 4A4

Attention: Mrs. Judy Shoemaker, Planning Manager, MBA, REFP

Dear Madam:

Re: School Site Acquisition Charge

With reference to the proposed School Site Acquisition Charge (SSAC), Urban Development Institute (UDI) does not support adding fees and charges to development, especially considering the current economic climate. However, we recognize that this initiative is a result of direction from the Ministry and is out of the control of School District #23 (School District). That being said, we have the following comments, suggestions and concerns:

- We ask that the School District work with the local municipalities to combine school sites with parkland to achieve a more efficient use of the land. We feel that combining the public use of school sites and parkland will not only result in relieving unnecessary burdens on the development industry and economic growth in the valley, but also on taxpayers who currently support the maintenance of both school district fields and public parks.
- Preliminary review of the budget for the school site acquisition does not appear to have taken into consideration the recent downturn in the real estate market and the downward pressure on land prices. We recommend that a review of these land prices be undertaken before the SSAC is adopted to ensure that developers are not overcharged for the acquisition of identified sites.
- We ask that the School District support UDI's recommendation to municipalities to charge the SSAC at building permit stage, rather than at subdivision or development cost charge, in an effort to reduce the negative impact of the additional charge. When fees are charged far in advance of the development of housing, the developer must carry the burden through the entire process until the home is purchased by the end user. By charging the SSAC at building permit stage, the charge is not collected until the

housing unit is built, therefore partially reducing the carrying costs associated with the charge.

- 4. We ask that, in keeping with the SSAC Implementation Guide recommendations, the School District fully account for and publish annually the money collected and spent from the SSAC account, the financial information on projects involving new school sites, and enrolment levels and projected demand so that we can report to our membership that the charge is indeed being used to benefit those that are paying.
- Our members have concerns that they will be paying charges towards acquiring land for which they will never see the benefit. What happens to fees collected that are not used to acquire lands that were identified at the time of the collection? Or, similarly, what happens when land is acquired, but then not used to build schools? Will the funds somehow be paid back?

UDI appreciates the opportunity to comment on the proposed SSAC. We welcome further discussion on the subject and look forward to your response.

Yours truly,

URBAN DEVELOPMENT INSTITUTE

Per:

Matt Cameron

Chair, DCC Review Committee

SH/jr

cc: Randy Cleveland, City of Kelowna

cc: UDI Okanagan Chapter – Board of Directors

File



URBAN DEVELOPMENT INSTITUTE- OKANAGAN CHAPTER

300 – 1708 Dolphin Avenue Kelowna, BC V1Y 9S4 Canada T. 778,478.9649 F. 778.478.0393 udiokanagan@udi.org www.udl.bc.ca

November 22, 2010

City of Kelowna 1435 Water Street Kelowna, BC V1Y 1J4

Attention: Randy Cleveland, MAIBC, Director, Infrastructure Planning

Dear Sir:

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Re: 2030 – 20 Year Servicing Plan and Financing Strategy - Parks Policies (SR 181502 and SR181504)

With reference to your Memo to the City Manager of October 27, 2010, a copy of which was provided to Urban Development Institute (UDI), we would like to thank you for making this document available to us. We have the following comments and/or concerns:

- 1. UDI supports the continuation of the 2.2ha/1000 population growth active parkland acquisition rate. Unlike many of the other municipalities used for comparison in your memo, the City of Kelowna (the City) is fortunate to have large areas of natural open space available for public use in and around it. These areas are not included in the 2.2ha/1000 population growth figures but do represent a significant park benefit. In addition, is the School District's land currently included in the City's parkland/population calculation? While these areas will not significantly impact the overall ratio of parkland to the population, it will add to the amount of developed parkland/population.
- UDI supports the City moving away from waterfront acquisition into land which is more reasonably priced.
- 3. UDI does not support shifting the cost burden for neighbourhood parks construction into the DCC program. This represents a major change in policy and UDI feels it is inappropriate and ill-timed given current market conditions. UDI is concerned that a burden has been taken off the existing taxpayer and once again, put onto the development industry.
- 4. UDI does not support the proposal to charge commercial development a Parks DCC and views this as "double-dipping".

5. UDI is concerned with the City's estimate of a 12% increase in land acquisition costs since the last DCC rate review (2009) and questions how, in the biggest downturn in the last ten years, land values could have gone up by 12%. This is certainly not what the development industry has experienced, where there has been a significant decrease in land values.

UDI members span all sectors of the development industry, representing residential, commercial, industrial, recreational and institutional projects which contribute more than (currently) \$25 Billion and 150,000 jobs to the provincial economy. The development industry is no different from any other industry in today's economy. Continued increases to development costs will negatively impact the development industry and in turn, the health of the local economy and are not sustainable at this time. The development industry has weathered large increases in DCC rates over the last 6 years, justified largely by increasing land and construction costs. In keeping with these same principals, UDI requests that the City apply the cost savings realized from reduced land values and acquisition of non-waterfront lands to reduce the Parks DCCs.

Yours truly,

URBAN DEVELOPMENT INSTITUTE

Per:

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Matt Cameron

Chair, DCC Review Committee

MC/jr

cc: Jim Paterson, General Manager, Community Sustainability

S. Bagh, Director, Policy & Planning

Keith Grayston, Director, Financial Services

cc: UDI Okanagan Chapter - Board of Directors



October 6, 2010

Randy Shier President Urban Development Institute 620-1632 Dickson Avenue Kelowna, BC v1Y 7T2 rshier@missiongroup.ca

Matt Cameron UDI-DCC Committee Chair #205 - 1726 Dolphin Ave. Kelowna, BC V1Y 9R9 MCameron@ctqconsultants.ca

Dear Randy and Matt:

2030 DCC Unit Rates: Water, Wastewater Trunks, Wastewater Treatment Revised Construction Unit Prices for Water Re:

Further to our correspondence of June 14, June 24, and July 1, find attached the following excerpts from the draft 2030 20-Year Servicing Plan and Financing Strategy in support of the draft 2030 Official Community Plan (OCP):

Water: projects map, projects narrative and detailed DCC cost worksheet

Wastewater Trunks: projects map, projects narrative and detailed DCC cost worksheet

Wastewater Treatment: detailed DCC cost worksheet

Note that there is a boundary extension in North Glenmore for all three services reflecting anticipated development. A summary analysis of the calculated impact on the current Residential 1 DCC rates on two representative sectors follows, and further details on cost sharing are in the detailed DCC cost worksheets:

Residential 1 DCC Unit Rate Changes for 2 representative sectors of draft 2030 20-year

ystem	& Financing Str	Unit Rate Change City	% Change City Centre	Mission	Change SW Mission	SW Mission
	Centre	Centre	-47.5%	\$1,289	-\$610 -\$111	-5.6%
Vater	\$1,757	-\$834 -\$265	-17.0%	\$1,979 \$3,044	+\$718	+23.69
runks	\$1,562 \$3,044	+\$718	+23.6%	\$6,312	-\$3	09
reatment Subtotal	\$6,363	-\$381	-0.070			

A significant challenge in the development of this plan has been the slowing growth rate. The reduced need for infrastructure and project cost reductions resulting from declining construction unit prices has been largely offset by the impact of some fixed costs (wastewater treatment plant financing) spread out over fewer development units and the increasing cost of bio-solid treatment technologies acceptable to the authorities having jurisdiction. Therefore, the reductions shown for water distribution and wastewater trunks have been largely offset by the increases in Wastewater

Further information on costs for the park land acquisition and the road network will be forthcoming shortly. We wanted to give you a head start on the review of this work to be able to shorten the time between now and OCP adoption.

We are also proposing a change in the methodology for water construction unit prices. Construction unit prices for water projects have posed a challenge because of the lack of depth in available tenders that are both local and comparable in scope to the large transmission main installations through urbanized areas that are proposed in the 2030 20year servicing plan. Unfortunately the previously submitted unit rate tables are based

Infrastructure Planning 1435 Water Street Kelowna, BC V1Y 1J4 TEL 250 469-8614 FAX 250 862-3349 kelowna.ca

on combined sewer and road improvement projects, which did not include water projects. The extrapolation of these figures for major water projects through urbanized areas is not as accurate as the new proposed calculation method.

Although the construction unit prices now proposed represents a different methodology for estimating water projects, they originate from an unbiased, credible third party. They were first developed by Associated Engineering for project estimates recently developed for the City-Wide Integrated Water Plan. These were based on a review of AE's internal cost data, City of Kelowna criteria for DCCs as well as the personal experience of the project leader for the City-Wide Integrated Water Plan and the 2030 20-year Water Servicing Plan, Bill Harvey.

The challenge with merging these unit prices into our previously proposed unit price table follows. The proposed costs per meter are set to include the reconstruction of backfill material as well as the cost of valves and valve chambers required for larger diameter pipes as an integrated cost. Breaking out these items to align with the previously proposed methodology for utility and road projects would require a separate exercise to account for valve chambers, as was done in the 2020 20-year servicing plan. For these reasons we submit that the attached revised unit rate table for water projects has advantages for estimating projects and is appropriate for this level of detail. The proposed unit price sheet is also attached.

Once we have submitted the DCC unit rate table for park land acquisition and roads, we will meet to discuss your input at a mutually agreeable time. We are expecting a series of public open houses on all aspects of the 2030 OCP and 20-year servicing plan and financing strategy before the end of November.

Thank you;

Randy Cleveland, MAIBC, Director, Infrastructure Planning

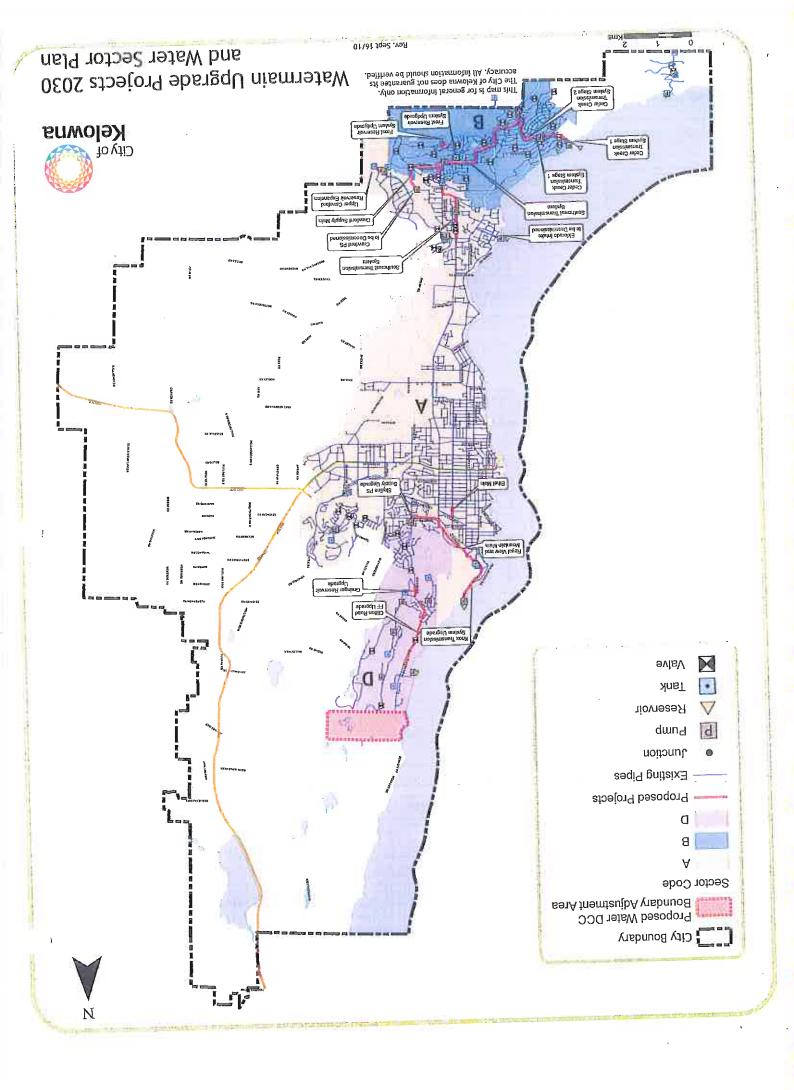
Attachments

CC. Jim Paterson, General Manager, Community Sustainability Keith Grayston, Director, Financial Services Bill Berry, Director, Design & Construction Jim Wunderlich, Financial Analyst, Infrastructure Planning

P:\Infrastructure Planning\0100 ADMINISTRATION\0155 PLANS AND PROGRAMS\0155-65 INFRASTRUCTURE PLANS - 20 YEAR SERVICING\DCC Unit rates 2010Water to UDI,10.10.05,jo-rlc.docx

EXHIBIT "B" - WATER DEVELOPE CREDIT A 2010 CAPOZZI FIRE FLOW A 2025 PZ STRG UPGRADE A 2016 KNOX MOUNTAIN TRANS D 2016 KNOX MOUNTAIN TRANS D 2016 CARAGLEN FIRE FLOW D 2016 CARAGLEN FIRE FLOW D 2016 CARAGLEN TRANS LOUTHCREST TO WESTFOINT TRANS 2020 CEDAR CRK TRANS STAGE 2 2021 ADAMS TO SOUTHCREST B 2021 ADAMS RESERVOIRS STAGE 2 2020 ADAMS RESERVOIRS STAGE 2 2021 ADAMS UY DISINFECTION B 2011 ADAMS UY DISINFECTION B 2011 ADAMS UY DISINFECTION B 2011 SKYLINE SUPPLY MAIN D 2011 SKYLINE PS Ann. ANNIL OS Ann. ANNIL OS	
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Water Distribution System Upgrades

Major Completed Projects from 2020 20-year Servicing Plan and Financing Strategy:

- Poplar Point Pumphouse Upgrades, including power supply
- Skyline Suction Trunk, Skyline Trunk 1
- Cedar Creek Pump Station Upgrade
- Crawford 3,4 and 5

Projects no Longer Required:

Due to conservation initiatives, improvements to the hydraulic model, project consolidation and alternate transmission main routes, as well as, changes to the proposed future land use, a number of projects previously identified in the 2020 20-year Servicing Plan and Financing Strategy can now be excluded from the 2030 20-year Servicing Plan and Financing Strategy. These projects include:

- Broadway Trunk Main 1, Broadway Trunk Main 2, Trench Trunk, and Weddell Trunk are replaced by Royal View Transmission Main.
- Lakeshore Trunk Main is replaced by Adams to Southcrest to Westpoint projects.
- Ellis and Broadway Trunk Mains would be necessary only if the Utility is mandated to install filtration for Poplar Point source.
- Clement and Richter Trunks deferred.
- Cambridge, Broadway, Weddell Valve Chambers.

Additional explanation provided by Associated Engineering for deferral of these projects is attached.

2010 - 2030 DCC Water Distribution Projects List

ROYAL VIEW AND MOUNTAIN MAIN UPGRADE

This project will install 300m of 1350mm pipe along Knox Mountain access road and 2270m of 900mm along Royal View Dr. to Mountain Ave.

- Increases conveyance to Dilworth Reservoir.
- Improves supply to Skyline Pump Station.

SKYLINE PUMP STATION

Install a third pump at Skyline Pump Station.

- Existing pumps are both required to meet current max day demand.
- Additional pump is needed to meet the redundancy requirement and demand increases due to projected growth Clifton North and Glenmore Highland areas.

CEDAR CREEK TRANSMISSION SYSTEM STAGE 1: Project 3(a)

Dedication of a raw water transmission main from Stellar Pump Station to Adams Reservoir, treated water conveyance to distribution, and fire flow improvements.

- This project is a required component of Cedar Creek UV Treatment.
- Fractional growth portion as shown in cost sharing model.
- Project is complete in 2010.

CEDAR CREEK TRANSMISSION SYSTEM STAGE 1: Project 3(b)

This final component of Stage 1 focuses on upgrades to Stellar Pump Station.

- This project is to increase capacity due to growth as well as to match the intake Pumphouse capacity.
- Includes backup power for fire flow and domestic supply.
- Cost share is 49% existing benefit.
- Project is a Priority 1 in the 2011 Capital Budget request.

KNOX MOUNTAIN TRNASMISSION SYSTEM UPGRADES

This project replaces existing 500mm main from Poplar Point Pumphouse to Knox Reservoir with 900mm.

- Previously identified in the 2020 servicing plan,
- Triggered by growth in sectors A and D

ETHEL MAIN INSTALLATION

This project will install 320m of 600mm main on Ethel St from Weddell Pl to Clement Ave.

Previously identified in the 2020 Servicing Plan

CLIFTON MAIN UPGRADE

This project will replace existing 150mm and 200mm watermain from Rio Dr to Bopart Ct with new 300mm.

Previously identified in the 2020 Servicing plan as SKY Trunk 2.

Required to provide sufficient fire flow and supply to future development Clifton North

CEDAR CREEK TRANSMISSION SYSTEM STAGE 2

This project will increase capacity at Cedar Pump Station, conveyance to Stellar and storage at Adams.

- It is anticipated that portions of this project will be triggered by growth beyond the 2030 Servicing Plan.
- IHA treatment requirements could trigger this project sooner than 2020.
- DCC cost share to upsize for future will be included in the next DCC program revision.

SOUTHCREST TRANSMISSION SYSTEM: Project #9 (a)

A 750mm transmission main from Adams Reservoir to Southcrest reservoir is anticipated to be triggered by growth in the first quarter of the 2030 Plan.

Significant conveyance is also required by the Utility to replace Eldorado capacity.

DCC program cost share is 27%.

SOUTHCREST TRANSMISSION SYSTEM: Project #9 (b)

Transmission main installations will be required from Southcrest reservoir down to Steele, Westpoint and McClure facilities to replace Eldorado supply capacity.

These works are Utility funded as part of Eldorado Pumphouse decommissioning and could be triggered by sooner than 2020 by IHA filtration requirement.

FROST PUMP STATION AND RESERVOIR

Future development in this area requires additional conveyance and storage capacity.

These works will be funded by development as an Extended Service Area.

PZ 419 STORAGE UPGRADE

Projected Infill growth will require additional storage capacity in Sector A.

GRAINGER RESERVOIR EXPENASION

Approved development units require additional storage capacity at Grainger Reservoir.

These works will be funded by development as an Extended Service Area.

UPPER CRAWFORD RESERVOIR EXPENASION

Additional storage capacity will be required if /when ICI or MF development is constructed in Crawford area designated zoning.

CARAGLEN SUPPLY MAIN FIRE FLOW UPGRADE

The existing main supplied by Caraglen PRV can not meet fire flow requirements future MF development west of Clifton Road.

An alternate watermain upgrade on Clifton related to an existing application may replace the need for this project.

CAPOZZI FIRE FLOW UPGRADE

Existing watermains can not meet Fire Flow requirements for future development in the North Mission Village area.

Deferred Projects 4.2

Several of the projects listed in the 2009 DMWP can be deferred, given the reduction in demand growth outlined in Technical Memorandum No. 1. The demand growth is significantly reduced from the 2009 DMWP because we have not included the 22% safety factor that was applied to future demands for existing development, and have also reduced all demands after 2015 by 15% to reflect the City's demand side management initiative. We should note, however, that the projections are still somewhat conservative in that projected demands for future development are based on criteria that are 15% to 160% higher than existing per capita demands.

Broadway / Ellis Trunks

These projects are only required before 2030 if filtration is mandated and a filtration plant is constructed in the vicinity of Knox Mountain. These transmission mains would then convey treated water to the Downtown area.

Richter / Clement Trunks

The existing Richter and Clement trunks have maximum velocities of less than 1.5 m/s at 2030 MDD peak hour demands. There is also adequate fire flow available to supply a commercial fire requirement.

Dilworth Supply and Twinning

Due to minimal growth projected in the Dilworth Mountain area over the next 20 years, the existing pump capacity at Daon pump station is able to supply the 2030 MDD, through the existing infrastructure.

Cedar Creek Transmission System Stage 3

This project can be delayed until after year 2030.

Summit Reservoir

Due to minimal growth projected in the Dilworth Mountain area over the next 20 years, the existing reservoir capacity is sufficient to year 2030.

Lower Crawford Reservoir Expansion

Due to minimal growth projected in the Lower Crawford service envelope, the existing reservoir can supply the required balancing volume and a single family residential fire flow.

Steel Reservoir Expansion

When the Southwest Transmission main is constructed it will be gravity supplied by Adams Reservoir and will be able to supply PZ 452 with adequate fire flow.

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2030 20-year Servicing Plan and Financing Strategy Wastewater Trunk Mains/Lift Stations

Completed Projects:

Lane North of Harvey - Ellis - Richter - Leon

SpringBlack - on Springfield from Belgo to Monterey

SpringZip - on Springfield from Monterey - Ziprick - Baron

- ByrnsBaron Phase 1 & MillsBar on Byrns/Baron, Mills Ziprick-Burtch-Hwy97-Baron
- Water Street Force Main Pandosy Water St Lift Station to Cadder
- Hall Fisher Road KLO to Benoulin

Birch Lift Station - Birch - @Richter

Due to changes in development servicing routing and upgrades to other trunk mains, as well Projects no Longer Required: as, changes to the proposed future land use, a number of projects previously identified in the 2020 20-year Servicing Plan and Financing Strategy can now be excluded from the 2030 20year Servicing Plan and Financing Strategy. These projects include:

- Glenmore 7C
- Gordon ELS

A pre-design for the "South Gordon Sanitary Sewer Trunk - Conceptual Routing" by Urban Systems recommended two alignment options for further consideration. One of the alignments is proposed on Gordon Drive and the other on Lakeshore Road. The City of Kelowna authorized AECOM to investigate the financial "Net Present Value Analysis" of those two options. From a financial perspective the Lakeshore Road option proved to be less onerous and therefore the preferred alignment. Other factors that influence the decision relate to scheduling with other capital improvements for construction savings (i.e., transportation improvements to Lakeshore Road). We propose that the project identifier in the 2030 20-year Servicing Plan and Financing Strategy be changed from Gordon Trunk to Lakeshore Trunk.

Some of the more significant works included are as follows:

- Extension of a major sewer trunk main, Lakeshore, to service new growth units (previously referred as South Gordon).
- Completion of the extension of a major sewer trunk main, Byrns-Baron Phase 2, from the wastewater treatment plant to the north and east area of the City to handle additional flows that cannot be accommodated in the North East Trunk main which runs from the intersection of Highway 33 & Highway 97.
- Extension of a sewer trunk main, Airport Gravity, to service new growth in the North
- Completion of sewer trunk main, Glenmore, to service new growth in the North Glenmore area.

2010 - 2030 DCC Sanitary Trunk Projects List

BYRNS/BARON - PHASE 2

Extents of project are defined as 1050mm pipe from Burtch Road (at Byrns Road) to Wastewater Treatment Plant.

Portions already completed include twin 1200mm pipes from Gordon to

Portions included in 2011 Capital Plan include crossing of Gordon Drive and upgrade to Raymer Lift Station.

 Trunk flows are monitored and remainder of work to be completed as flow demands. We anticipate completion of works within second quarter (10 years).

CROSS ROAD 6B

This project is complete in 2010.

KLO

Extents of project are defined as the twinning of the gravity main on Casorso and Swordy Roads between KLO Road and the Gyro Lift Station. Quantities are approximately 80m of 375mm and 360m of 525mm pipe.

 We propose to replace this main in conjunction with the replacement of the force main between the Gyro Lift Station and the Wastewater Treatment Plant.

GUY LS

This project is described as an upgrade to the Guy Street Lift Station.

Due to the upgrade to the Trade Waste Treatment Plant Lift Station, the need for this project is delayed and will be triggered by downtown growth likely in fourth quarter.

GYRO FM

Extents of project are defined as a replacement of the Force Main from Gyro Lift Station to the Wastewater Treatment Plant.

Anticipate work to be completed in conjunction with upgrade to Lakeshore Road.

RAYMER LS

This project is described as an upgrade to the Raymer Street Lift Station.

This project is currently in the 2011 Capital Plan.

WATER ST FM - PHASE 2

Extents of project are defined as replacement of the Force Main on Cadder Ave., from Pandosy to Ethel. Quantities are approx. 606m of 400mm pipe.

Phase 1 of this project on Pandosy Street, from Water Street Lift Station to Cadder Ave. is complete.

Anticipate this project to be completed in second quarter (10 years).

RUTLAND TRUNK

Extents of project is described as the replacement of the gravity main with approx. 740m of 525mm pipe on Hwy 33 and Nickel Road, from Ziprick Road to Houghton Road.

Trunks flows will be periodically monitored and we anticipate growth will trigger project in fourth quarter.

LAKESHORE TRUNK

This project was previously referred to as GORDON TRUNK in the 2020 DCC program. Extents of project are now defined as the twinning of the gravity main with approx. 2600m of 900mm pipe along Lakeshore Drive, from Old Meadows to the Gyro Lift Station.

Anticipate work to be phased, with works starting in conjunction with upgrades to Lakeshore Road.

AIRPORT GRAVITY

This project is defined as approx. 2030m of 525mm gravity main from (MH 111479) near Bulman Road, paralleling the west side of the railroad ROW, to Airport (Convair Place - MH 152199). Approximately 56.8% of the serviced area is existing.

A 6.5m wide ROW acquisition along is necessary and estimate is included in the project cost.

GYRO LS

Į

Upgrades to the Lift Station will be triggered when trunk flows exceed LS capacity (>230 L/sec). Timing for this is dependent on future development. We anticipate this will be needed before the third quarter (10-15 years).

KINNICKINNICK

This project will be funded through the Development Application process.

GLENMORE CONNECTION

This project will be funded through the Development Application process.

ROSE LS

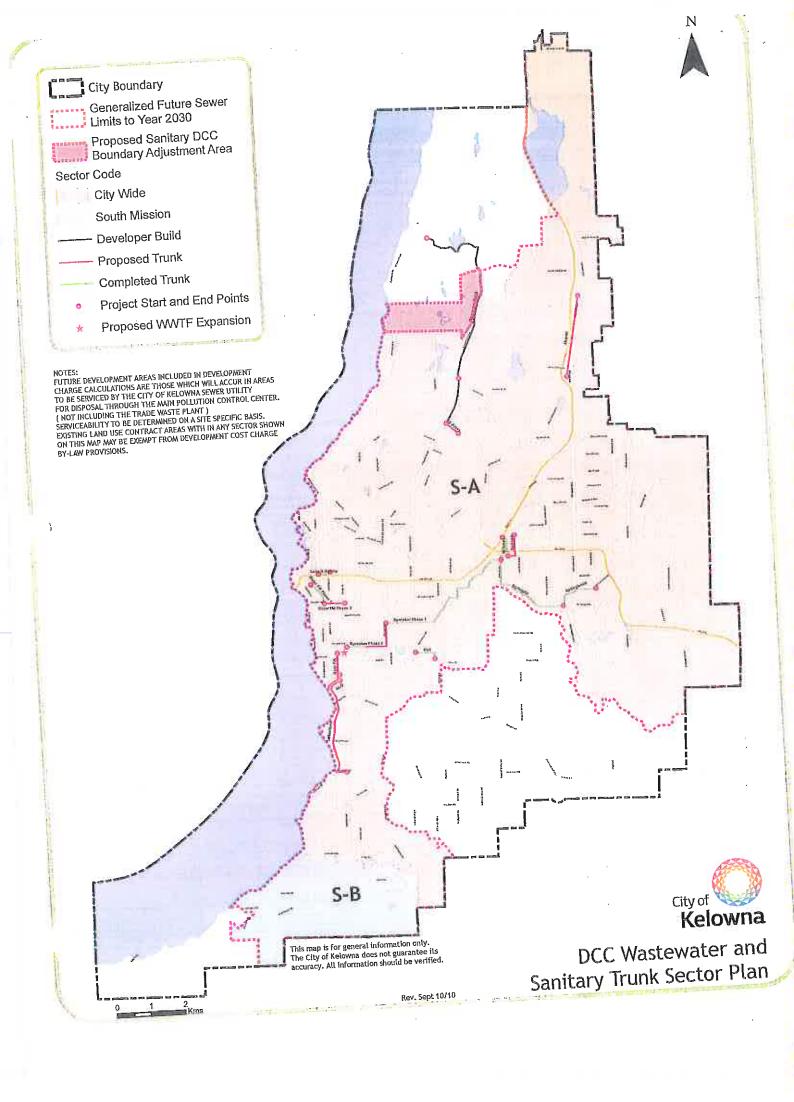
The majority of growth in the neighbourhood serviced by the Rose Lift Station is projected to be generated by hospital expansion. The existing LS is located in what has been described as an "ugly location." We anticipate the need to relocate and replace the LS when flows exceed capacity. A new force main will also need to be factored into this analysis.

Submitted by:

Fred Schaad, Utilities Technologist

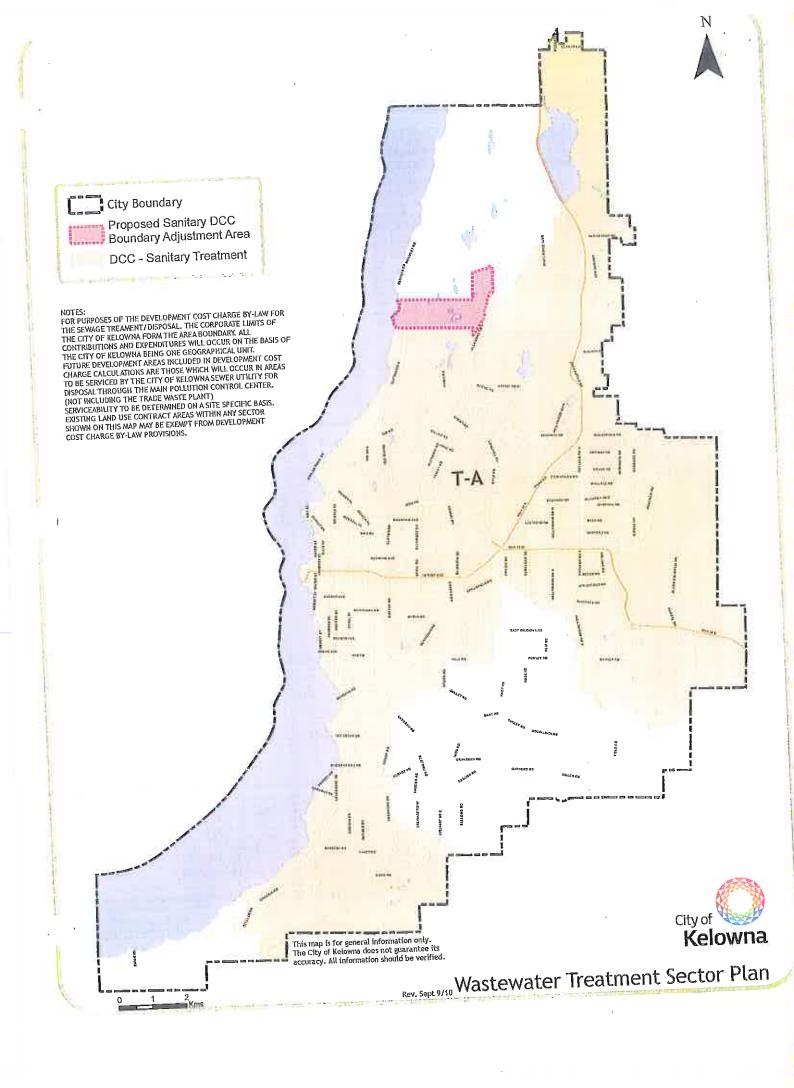
Unit Plate Table

	100000000000000000000000000000000000000	(\$/m)	Tota	d (\$/m)	cludes i	Remarks Installation, restraint and backfill Installation and restraint and backfill Installation and restraint and backfill Installation and restraint and backfill Installation and restraint and backfill Installation and restraint and backfill Installation and restraint and backfill Installation and restraint and backfill Installation and restraint and backfill Installation and restraint and backfill Installation and restraint and backfill Installation and restraint and restraint and backfill Installation and restraint and restraint and backfill Installation and restraint and restraint and backfill Installation and restraint and restraint and backfill Installation and restraint and backfill Installation and restraint and restraint and backfill Installation and restraint and restraint and backfill Installation and restraint and restraint and backfill Installation and restraint and restraint and restraint and restraint and restraint and restraint and restraint and restraint and restraint and restraint and restraint and restraint and restraint and restraint and restraint and restraint and restraint
1000	Pipe Unit Cost (\$/m)	Fittings and Valve Allocation (\$/m) \$55		\$335 lr \$390	Fittinas	nstaliation, restraint ex- include valves, bends, conflicts
Pipe Diameter	\$200	\$80		\$440		
150 mm	\$310	\$90		\$501		
200 mm	\$350	\$116		\$541		
250 mm	\$385	\$125		\$615		
300 mm	\$416	\$142		\$697		
350 mm	\$473	\$161		\$816		
400 mm	\$536	\$188		\$872		
450 mm	\$628	\$201		\$1,052		
500 mm	\$671	\$243		\$1,396		
600 mm	\$809	\$322		\$1,724		
750 mm	\$1,074	\$398		\$2,080		
900 mm	\$1,326	\$480		\$2,470		Rémarks
1050 mm	\$1,600	\$570		Total (\$/m)		ides tee, valve, lead, restoration
1200 mm	\$1,900	Cost (\$) \$5,000		\$25		ides tee, valve, local, valve,
1350 mm	Spacing (m)	\$5,000	 -	\$50	<u> </u>	Remarks
Hydrant SF Residential	200	\$5,000	To	tal (\$/Tie-In)		ludes tee, couplers, exploration
MF, Comm, Ind	100		1	\$6,100		Singles tee, coopies of
MF, Comm, and			+	\$7,300)	
300 mm			1-	\$8,500	ــــــــــــــــــــــــــــــــــــــ	
350 mm	T		-	\$9,70	이	
400 mm	T	 	-	\$10,90	0]	
450 mm	T	- 		\$14,60		
500 mm	T		+	\$18,20		
600 mm	T			\$21,80	10	
750 mm				\$25,50		
900 mm	T	- 		\$29,19		
1050 mm				\$32,7	001	Remarks
1200 mm	T			Total (\$/m)	-	Includes removal, gravel, asphalt
1350 mm	20 20 37 2 V	Cost (\$/m2)	40	\$1		
Asphalt R&R	Width (m)		40	\$2	00	Remarks
150mm to 500 mm Dia	4 5		14		- II-ali	Onerating and 1 Spar
Dia > 500 mm	5			Total (\$)	inci	piping, elect, & instr.
Dump Stations	per Ml/d	MI/d		\$150,	0001	
Pump System Costs	per tviid	2.5		\$250,	0001	
Fullip 0)	60000 50000	5	-7	\$400,	0001	
	40000	10	$\neg \neg$	\$600		
	40000	15	$\neg \neg$	\$800	,0001	
	40000	20	-1	\$1,000	,000	
	40000	25	-1	- 1 (4)	— 	ncludes single pump assembly, elect.
	4000	Ml/d	-	Total (\$)	. 000	instr. (no piping)
	per Mil/d	2.5		\$50	0,000	
Individual Pump Co	sts per ma	5		\$80	0,000	
		10		\$13	0,000	
		15		\$20	0,000	
		20		\$27	0,000	
		25		\$33	10,000	
ļ				Total (\$	/ MI/d\	Standard utility building, cost per M
		MI/d		Total (\$	/ Wildi	operating capacity
		Nation 1811/16		1	15,000	
Pump Building Co	ISTS	0-2		1	12,000	
		3-5		-\ \	11,000	
No Wetwell		6-10			10,000	
		11-30			,.0,555	
					30,000	
		0-2			\$24,000	
		3-5			\$22,000	
With Wetwe	<u></u>	6-10			\$20,000	
		11-30		Total (\$		Remarks
		1000		1 DESC (3	\$400	Includes site grading, piping, valve
				Total		
Reservoirs	1100			Tulbi	\$200,00	Includes elect., instr., chamb
Concrete	5	U. and C.			\$250,00	<u></u>
PRV's					\$300,00	
200 mm					\$350,00	0
300 mm					\$400,00	
400 mm					₩ 10013t	
500 mm	1					



This schedule is concaptual and is subject to revision to meet future needs and conditions.

	Less: Land Use Credits SUBTOTAL B Carry Over(2009-12-31 Reserve Bal SUBTOTAL C	WASTEWATE WASTEWATE OJECT Bot Commitment Plant Extension Plant Expansion Ion Expansion ation Expansion - Compost Site quisition
	85,494.2 85,494.2 Balances) 85,494.2 85,494.2 86,073.9 Less Assist Total for DCC NET UNIT I	2030 WASTEWATER TREATMENT TOTAL PROJECT PROVINCIAL COST ASSIST 11,216.8 6,600.0 1,000.0 6,000.0 1,218.0 5,600.0
Residential 4: Residential 5: Commercial - Per Sq. Mtr.: Industrial - Per Hectare: Institutional - Per Sq. Mtr.:	ngineering/Ac ubtotal D CCC FOR: Residential 1:	CITY OF KELOWNA 2030 WASTEWATER TREATMENT PLAN & FINANCING STRATEGY (2010) R TREATMENT TOTAL PROJECT PROVINCIAL BENEFIT COST SHARING MODEL COST ASSIST EXISTING COST 16,013 Total Growth Unite: 1,666.7 1,666.7 1,666.7 1,666.7 52,192.8 1,1,216.8 1,216.8 1,218.0 5,600.0 5,600.0 5,600.0 1,218.0 12,431.7 5,600.0 67,462.5
iq.Mtr.: ctare: Sq.Mtr.:		WNA 4.6. FINANCING STRATEGY 3.0. 5.600.0 WATHER STRATEGY (2010 Deltars x 1000) (2010 Deltars x 1000) 1.66 43,86 43,86 1.7 5.600.0 6.0 1.2
	67,462.5 67,462.5 1.00%	
		SECONDARY SUITES 403 403 403 546.3 139.7 39.1 4.5 74.7 15.2
	134.5	NIFILL C
2,031 1,655 15.54 26,031 15.54	66,487.7 (8,516.0) 57,971.7 58,551.4 (585.5) 57,965.9 3,762 3,762 2,107	NET FOR DCC CALC'S 15,410 1,645.9 43,314.1 11,077.0 3,059.4 353.9 5,850.3 1,187.0



July 1, 2010

Matt Cameron **UDI-DCC Committee Chair** Urban Development Institute #300 - 1708 Dolphin Ave. Kelowna, BC V1Y 9S4 MCameron@ctqconsultants.ca

Dear Matt:

Re: 2010 Development Cost Charges

Thank you for your letter of response dated June 28, 2010. To facilitate discussion at our upcoming July 5th meeting, we are providing advance responses to your comments in the order you raised them:

<u>Unit costs</u>: we are open to discussion with the usual proviso that specific tender details

Anticipatory 5% cost reduction: Decreasing costs will be welcomed by the City and accurately reflected in future unit rate calculations based on the evidence-based

Current DCC rates: A review was completed in 2009 that resulted in no change to the current DCC bylaw. The identified changes were deemed too small to prompt a revision to the bylaw this spring given that the revised 2030 OCP, together with associated bylaws, are scheduled for adoption around the end of 2010.

New DCC rates: We will be pleased to discuss the process and methodology for determining future DCC rates at our next meeting. In brief,

The new 20-year plan will eliminate work from the 2020 plan that has already been

All relevant infrastructure systems will be analyzed for the impact of anticipated population growth and development to 2030, with capacity increases determined relative to Council approved levels of service;

Identified projects will be costed using the proposed 2010 unit rates and those costs apportioned by sector and development type;

We do however anticipate some changes to the balance of projects to reflect emerging issues such as climate change and GHG emission reductions, asset management strategies and the natural tendency in maturing cities to seek compact, livable urbanization. We will be happy to discuss these policy issues.

We look forward to meeting with UDI next week.

Thank you;

Randy L. Cleveland Director, Infrastructure Planning

Jim Paterson, General Manager, Community Sustainability Keith Grayston, Director, Financial Services cc. Bill Berry, Director, Design & Construction Jim Wunderlich, Financial Analyst, Infrastructure Planning Randy Shier, President, UDI, rshier@missiongroup.ca

P:\Infrastructure Planning\0100 ADMINISTRATION\0155 PLANS AND PROGRAMS\0155-65 INFRASTRUCTURE PLANS - 20 YEAR SERVICING\DCC 2010-to UDI 2010 06 28 ftr.docx

Infrastructure Planning 1435 Water Street Kelowna, BC V1Y 1J4 TEL 250 469-8614 FAX 250 862-3349 kelowna.ca





URBAN DEVELOPMENT INSTITUTE- OKANAGAN CHAPTER
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Kelowna, BC V1Y 9S4 Canada
T. 778.478.9649 F. 778.478.0393
udlokanagan@udl.org
www.udl.bc.ca

June 28, 2010

City of Kelowna 1435 Water Street Kelowna, BC V1Y 114

Attention: Mr. Randy Cleveland, Director of Infrastructure Planning

Dear Sir:

Re: Development Cost Charges

Thank you for your letter dated June 14, 2010 and follow-up email of June 24th. First and foremost, we would like to thank you for the information put forward in your June 14th letter. We appreciate the transparency provided in the letter and look forward to meeting on July 5, 2010 to discuss further. In order to achieve the most in the next meeting, we have a few items that we would like you to consider in advance:

- With regard to the findings of your study, in general we support the average cost decrease of 9% subject to clarification on a few points that we can discuss at our July 5th meeting.
- We expect a further reduction in costs of at least 5% as the industry moves forward in this downward trending market.
- During the next meeting we would like to confirm the status of the current DCC rates. Your letter indicates that the DCC review took place in 2009 and that the rates were not updated. Based on our last meeting, we understood that the City anticipated the 2009 DCC bylaw, albeit late, would come forward in July 2010. We would like to know the findings of the 2009 review and whether or not the DCC bylaw has or will be, changed.

In the next meeting, we would like to confirm the process and methodology used to determine the DCC rates going forward, especially in light of the revised DCC project list and costs that will stem from the new OCP and 20 years servicing plan. While we believe that we agree on the correct approach, we would like to confirm that we have a consensus.

Yours truly,

URBAN DEVELOPMENT INSTITUTE

Per:

Chair, DCC Review Committee

MC/jr

Keith Grayston, Director, Financial Services cc:

Bill Berry, Director, Design & Construction

Jim Wunderlich, Financial Analyst, Infrastructure Planning Jim Paterson, General Manager, Community Sustainability

UDI Okanagan Chapter - Board of Directors cc:

Randy Cleveland

From:

Randy Cleveland

Sent:

June 24, 2010 12:01 PM

To:

'MCameron@ctqconsultants.ca'; 'rshier@missiongroup.ca'

Cc:

Jim Paterson; Jim Wunderlich; Keith Grayston; Jerry Behl; Bill Berry

Subject:

FW: Refinement of Unit Prices

Attachments:

2010 Roads Unit Prices Master Sheet Rev1.pdf; Refinement of 2010 Roads DCC Unit

Prices.pdf

Matt, Randy:

Further to my letter of June 14, find attached a refinement to the DCC Roads Unit prices with an explicit methodology. This allows greater precision in our estimating and has no implications on the bottom line.

Further to your e-mail of June 22 regarding a postponement of the proposed meeting date to the week of July 5, Jim Wunderlich will contact you to accommodate your request. Given holiday schedules, it will be inevitable that some people will not be able to attend. We'll do the best we can.

Thanks,

Randy L Cleveland, Director Infrastructure Planning

TEL 250 469-8472 FAX 250 862-3363 CEL 250 869-2489

City of Kelowna 1435 Water Street, Kelowna, BC V1Y 1J4 kelowna.ca

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Refinement of 2010 Roads DCC Unit Prices

Below is a summary of refinements to the proposed 2010 DCC Unit Prices. Most of the changes result from line items that have been added to accommodate active transportation projects. These new items do not appear in any projects in the current program but are anticipated to be included in future projects.

A) New Items:

1) Item 2512.4 – Asphalt for multi-use paths, 50mm

Price set at \$19.16/sq.m. based on average low bid on four recent City tenders.

The segregation of 50mm asphalt into two items (for sidestreets and multi-use pathways) has led to a reduction in unit price on item 2512.3 (asphalt for sidestreets) from \$16.81/sq. m. to \$14.60/sq. m.

2) Item 2523.5 – Concrete pathway edging

Price set at \$70.68/lin. m. based on average low bid on three recent City tenders.

3) Item 2523.6 – Stamped Concrete

Price set at \$95.00/sq. m. based on low bid on one recent City tender,

4) Item 2831.2 - Supply and install chain link fence (>1.2m)

Price set at \$58.50 based on low bid on one recent City tender.

The segregation of fencing into two heights (1.2m and >1.2m) has led to a reduction in unit price on item 2831.1 (1.2m high chain link fencing) from \$53.90/lin. m. to \$50.80/lin. m.

5) Item 2950.4 - Cast iron tree grate, including concrete support

Price set at \$2,500 each based on recent tender experience of Urban Systems Ltd.

6) Item 3001.1 – Standard Bollards

Price set at \$887 each based on low bid on one recent City tender.

7) Item 3001.2 – Decorative Bollards

Price set at \$1,209 based on average low bid on two recent City tenders.

8) Item 3400.2 – Benches

Price set at \$1,800 each based on recommendation of Urban Systems Ltd.

9) Item 3400.3 - Garbage Receptacles

Price set at \$1,388 based on low bid on one recent City tender. Note that Urban Systems recommended price for this item was \$1,400.

B) Other Refinements:

1) Item 2515.1 – Unit pavers c/w granular base and edging

Price updated (\$110.33/sq. m.) to reflect average of low bids on two recent City tenders.

2) Item 2950.2 Shrubs and other ground cover plantings

Unit pricing now based on each unit rather than per square meter to reflect normal tender pricing. Price set at \$18.19 based on average low bid on two recent City tenders.

2010 DCC UPDATE - UNIT PRICE MASTER SHEET CONSTRUCTION COST ESTIMATE

	CONSTRUCTIO							
195% Inflation Rate					2009		W W	TIT
aniadon italia			1000	2010 DCC	UNIT	Count	Chi	ange
ITEM DESCRIPTI	ON	LINE	100	Unit	PRICE	No.		3217
I LEW				Price	Trans.		-	
							1	
ection 01050 - Field Surveys				1 00/	1.0%		3	0.0%
1050.1 Surveys for layout and as-constru	icted records	_%		1.0%	1.074			
Section 01535 - Temporary Facilities	25				1.0%		3	0.0%
1535.1 Temporary utilities and construct	on facilities	%		1.0%	1.076		- 	
1535.1 Temporary dunices and conserver							7	0.0%
Section 01570 - Traffic Regulation		%		3.0%	3.0%_		1	0,070
1570.1 Traffic regulation	m and Domoval		-				_ _	
Section 02070 - Sitework Demolitic	in aliu Kelilovai	L.S.					0	1 2 00/
2070.1 Miscellaneous removals		lin. m		\$40.99		.00	- 1	12.8%
2070.2 Remove and disposal of pipe cul	vert	lin, m		\$19.00	\$21	.00	0	-9.5 <u>%</u>
2070.3 Fence removal and/or relocation		Big 117						
Section 02104 - Shrubs and Tree F	reservation	L.S.					1	
2104.1 Preservation of existing trees an	d snrubs	L.3		,			l	
Section 02111 - Clearing and Grub	<i>bing</i>			\$18,091.78	\$20,000	0.00	0	-9.59
2111.1 Close-cut clearing (1ha=10,000r	n2)	ha		\$4,714.24	\$65,00		3	-92.79
2111 2 General clearing and grubbing _		ha		\$4,714.24	400700			
Section 02113 - Removal of Existi	na Asphalt Paveme	nt		#4.20	4	4.87	1	-12.19
2113.1 Removal and disposal of aspha	t, regardless of depth	sq. m		\$4,28	4	4.07		
Z113.1 Removal and disposar of september 2113.1 Removal	<u> </u>				45	0 74	ol	-9,5
Section 02221 - Rock Removal		cu.m		\$51.30		6.71		-9.5
2221.1 Trench rock removal		cu.m		\$15.39		7.01		- 9.5
2221.2 Mass rock removal	quantity	cu.m		\$7.34		8.11	4	-0.0
2221.3 Off-site disposal of excess rock	hing and Packfillin	CI.			<u> </u>			2.4
Section 02223 - Excavating, Trend	: <u>Minu anu dackimin</u>	cu. m		\$24.89	l ·	5.50	4	-2.4
2223.1 Imported trench backfill materia	ļ	lin.m.		\$25.65		8,36	이	-9.5
2223.3 Dewater trench (250 to 450)		lin.m.		\$35.91	\$3	9.70	_0 _	<u>-9,5</u>
2223.4 Dewater trench (525 to 900)			ction					
Section 02224 - Roadway Excava	<u>tion, Embankment a</u>	cu. m	JE11418	\$5.60	9	5.54	2	1.0
2224 1 ITonsoil strinning And Stockbild	J11-511C	ha		\$2,051.97		38.40	0	-9.5
2224 21 Organic stripping, shrub remov	at on-site			\$7,86		\$8.30	3	-5.3
2224 31 Common excavation, on-site re	-use	cu, m		\$11.0		14.01	6	-21.4
ana 4 Common exceptation off-site di	snosal	cu. m		\$37.99		42.00	0	-9,5
2224 5 Common excavation, replace L	nsultable subul ade	cu.m		\$21.9	o \$	26.07	1	-16.0
2224.6 Imported granular fill, 75mm m	nus pitrun	L.S.		-) -	1	이	
2224.7 Miscellaneous Removal		sq. m		\$1.0	9	\$0.95	_5	14.
2224.8 Subgrade finishing and compa	ction	34,111						
Section 02233 - Granular Base		1 1		\$46.3	0 \$	56.67	8	-18.
2222 1 Cranular base, 25 mm minus (rushed gravel	cu. m		\$56.0		49.00	2	14.
2233.2 Shoulder gravel, 19 mm minus	(100 Hitt gebra)	cu.m					2	
Contan 02224 Cranular Subhas	e _			\$33.9	1 \$	44.14	4	-23
Consular cubbaco /5mm min	IS CHISHED DIAVEL	cu. m		\$11.2		19.44	1	-42
2234.1 Granular subbase, 75mm mag 2234.2 Select granular subbase salva	ged from excavation and	cu. m		411.2				
full depth reclamation								
Section 02235 - Unsuitable Tren	ch Material			620.0	<u>, , , , , , , , , , , , , , , , , , , </u>	32.06	0	-9
2235.1 Remove & replace unsuitable	material (50%)	lin.m.		\$29.0	<u>,,, </u>	. 3		
						t04 77	3	-42
Section 02271 - Riprap		cu. m		\$54.4	+1	\$94.77	ا -	7 Z
2271.1 Machine placed riprap	Concrete Daving					144 701	}	23
Section 02512 - Hot Mix Asphalt	CONCIECE FAVILLY	sg.m		\$14.		\$11.90	7	23 33
2512 1 Asphalt lower course, 60 mm		sq.m		\$10.		\$8.17	7	-12
2512.2 Asphalt surface course, 40 m	III Ioetroote EN mm	sq.m		\$14.	100	\$16.74	1	
2512.3 Asphalt surface course for sig	lesueers, oo miii	sq. m		\$19.			4	#D
2512.4 Asphalt for multi-use paths, 5 2512.5 Asphalt curb - 150mm high	omar	lin. m		\$16.	80	\$22.39	1	-25
2512.5 Asphalt curb - 150mm high		1 1		-				

				2010 DCC	2009	THE CA	
ITEM	DESCRIPTION	UNIT		Unit Price	UNIT PRICE	Count	Change.
2512.6	Asphalt - stamped and colored, including base & prep	sq. m		\$24.42	\$27.00	0	-9.5%
Section (02515 - Unit Paving			\$110.33	\$99,40	2	11.0%
	Unit pavers c/w granular base and edging	sq.m		\$110.33	\$33,40		
<u>Section</u>	02523 - Concrete Walks, Curbs and Gutters	lin, m		\$68.04	\$68.77	- 6	-1.1%
	Concrete curb and gutter, c/w granular base Sidewalks, c/w granular base	sq. m	i	\$53.08	\$61.05	6	-13.1%
2523.2	Concrete median curb per MMCD C6	lin. m		\$38.61	\$41.23	5	-6.4%
2523.4	Median Treatment - c/w asphalt/concrete/landscaping	sq. m		\$80.61	\$73.13	4	10.2% #DIV/0!
2523.5	Concrete pathway edging	lin. m		\$70.68 \$95.00	-	3 1	#DIV/0!
	Stamped Concrete	sq. m		จังงากกั			# C- C- C- C- C- C- C- C- C- C- C- C- C-
<u>Section</u>	02547 - Asphalt Tack Coat	sq. m		\$0.57	\$0.44	7	29.9%
~~~	Asphalt tack coat	54, 111		\$0.07		,	
<u>Section</u>	02574 - Cold Milling	sq. m		\$3.23	\$2.36	7	36.7%
	Mill existing asphalt pavement and stockpile at yards	1 24. III 1		Ţ <u></u>			
<u>Section</u>	02575 - Full Depth Reclaimation   Full depth reclamation of asphalt to 300mm depth	sq.m		\$4.52	\$5.00	0	-9.5%
		1 20011					
<u>Section</u>	02580 - Painted Pavement Markings Painted Pavement Markings	lin. m		\$1.02	\$1.13	0	-9.5%
2580.	02581 - Pavement Surface Cleaning and remo		avement Ma	· · · · · ·			
5 <i>ection</i> 2591 :	1 Removal of pavement markings	L.S.	avement ing	-		0	
	2 02721 - Storm Sewer (based on 2m depth)						
2721 11	O Catchbasin leads, non-perforated PVC Ultra Rib						
2/21.11	- 200 mm diameter	lin. m		\$82.84	\$145.00		
2721.2	O Drainage ditching	lin. m		\$24.00	\$9.29	1	1
	0 250mm PVC	lin.m.		\$112.92	\$253.00		
2721.4	0 300mm PVC	lin.m.		\$164.17 \$190.08	\$215.00 \$252.00		
	0 375mm PVC	lin.m.		\$190.08	\$349.00	1	
	0 450mm PVC	lin.m. lin.m.		\$275.00	\$221.17	l .	
	0 525mm PVC	lin.m.		\$335.00	\$308.16		8.7%
	0 600mm PVC 0 675mm PVC	lin.m.		\$402.89	\$406.60	1	-0.99
	0 750mm CONC	lin.m.		\$408.00	\$395.90		3.19
	1/900mm CONC	lin.m.		\$489.60	\$385.63		27.09
	2 1050mm CONC	lin.m.		\$571.20	\$856.00		-33.39
	3 1200mm CONC	lin.m.		\$652.80	\$465.02		40.49 1 40.89
	4 1350mm CONC	lin.m.		\$734.40 \$816.00	\$521.73 \$595.46		1 37.09
2721.1	5 1500mm CONC	lin.m.		\$120.00	\$153.12		-21.69
	6 250mm PERF PVC	lin.m. lin.m.		\$129.35	\$303.0	1	1 -57.39
2721.1	7 300mm PERF PVC 8 375mm PERF PVC	lin.m.		\$145.62	\$157.2		2 -7.49
	9 450mm PERF PVC	lin.m.		\$174.60	\$232.5	1	2 -24.99
2721.1	20 525mm PERF PVC	lin.m.		\$241.11	\$266.5	1	0 -9.59
	600mm PERF PVC	lin.m.		\$282.15	\$311.9		0 -9.5° 0 -9.5°
	22 675mm PERF PVC	lin,m,		\$338.58	\$374.2	3	0 -9.59
Section	n 02723 - Pipe Culverts					1	
2723	,1 Pipe culvert, galvanized CMP		[	\$160.00	\$153.1	2	1 4.5
ļ	- 450 mm diameter	lin. m	1	\$183.25	\$153.1 \$153.5	1	4 19.4
	- 600 mm diameter	lin. m	ļ	\$236.85		- 1	1 -12.3
2777	- 900 mm diameter .2 Pre-cast concrete headwall, complete with safety grill	W17. 111		+255,25			
2123	- 450 mm diameter	each	1	\$1,596,50		-1	1 -85.1
	- 600 mm diameter	each		\$2,256.50			1 -78.9
	- 900 mm diameter	each		\$6,500.00			0 -39.3
<u>2</u> 723	3.3 Sandbag endwalls for culverts, all diameters	each	<u>l</u>	\$775,00	\$515.5	ul	1 50.3
Sectio	n 02725 - Manholes and Catchbasins (based o	on averac	<u>je 2m depth</u>	)	44 504 4	41	7 -3.4
2725	5.1 Catchbasin, side inlet	eacn		\$1,470.01		7	7 -3.4 2 -17.9
2725	5.2 Catchbasin, top inlet	each each		\$1,410.00 \$1,193.50			5 14.8
	5.3 Adjust existing storm manholes	Loach		1 31145311	. al.U4U.U	IS EL	UI 1710

		on I		2010 DCC	2009 UNIT	Солпі	Change
ITEM	DESCRIPTION	UNIT		Unit Price	PRICE		
		0.0		\$2,140.75	\$1,847.47	6	15.9%
2725.4	1050 mm dia. (450 and less)	ea. ea.	1	\$2,583.33	\$2,658.75	3	-2.8%
2725.5	1200 mm dia. (525 and 600)	ea.		\$4,145,00	\$2,620.00	2	58.2%
2725.6	1350 mm dia. (675 and 750)	ea.		\$4,400.00	\$3,266.67	2	34.7%
2725.7	1500 mm dia. (900)	ea.		\$4,630.00	\$6,420.00	1	-27.9%
2725.8	1800 mm dia. (1050 and 1200)	ea.	i	\$2,955.50	\$3,174,25	2	-6.9%
2725,9	Drywells Drywells				_		
Section 6	02831 - Chain Link Fence and Gates	lin. m		\$50.80	\$72.00	5	-29.4%
2831.1	Supply and install chain link fence (1.2m)	lin. m		\$58.50		1	#DIV/0!
2831.2	Supply and install chain link fence (>1.2m)	in in in					
Section .	02921 - Topsoil and Finish Grading	sq. m		\$6.91	\$8.89	4	-22.3%
2921.1	Import topsoil - 150 mm depth for hydraulic seeding and	Sq. III		40,5.			
İ	sod in boulevard or other disturbed areas	sa. m		\$2.05	\$2.27	0	-9.5%
2921.2	Finish grading in embankment or cut areas at back of curb	34, 111				<u> </u>	
	or sidewalk	L					<u> </u>
Section	02934 - Hydraulic Seeding	aa m 1		\$1,07	\$1.75	2	-39.1%
2934.1	Hydro-seeding disturbed areas	sq. m		\$1101	<u> </u>		
Section	02938 - Sodding			\$6.99	\$13.90	1 2	-49.7%
2938.1	Supply and placement of nursery sod	sq. m		\$0.95	910.00		
Section	02950 - Planting of Trees, Shrubs and Ground	Covers	<u> </u>	1710.00	\$493.83	1 1	45.4%
2950 1	1 Roulevard trees	eacn		\$718.00	A contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of	' 2	1
2050 3	Shrubs and other ground cover plantings	each		\$18.19		I .	
2950	3 Irrigation - includes connection and curb stops	lin.m.		\$167.77	1	ή `	0.075
2950.4	4 Cast iron tree grate, including concrete support	each_		\$2,500.00	21		
Section	03001 - Protective Structures	S				1	#DIV/0!
3001	Standard Bollards	each		\$887.00		1	#DIV/0!
3001.	2 Decorative Bollards	each		\$1,209.00		1 .	-9.5%
3001	3 Cast in place retaining walls	v.sq.m	L	\$381.74	\$422.00	<u> </u>	-0,070
Coction	03/00 - Pre-Cast Concrete				- +oro or	2	3 3.1%
1 3400	1 Supply and install geogrid reinforced modular concrete	v.sq. m	ļ	\$257.8	5 \$250.00	٠ '	3.170
3400.	block retaining wall			California and		İ.,	0 #DIV/0
3400	2 Benches	each		\$1,800.0		1	1 #DIV/0
	3 Garbage Receptacles	each		\$1,388.0			9.5%
3400.	4 Noise attenuation - walls and berms	lin. m	<u></u>	\$102.6	0\$113.4	<u> </u>	-5.57
Section	n 16650 - Shallow Utilities and Electrical Work				1 +00 ==	-1	2 -20,7%
16650	1 Trenching and ducts for street lights	lin. m.		\$25.9	· •		2 -20.7% 2 -19.9%
16650	2 Supply and install pre-cast concrete street light bases	each		\$878.4			2 -19.9%
18850	.3 Erect street light poles, davits and luminaires	each		\$1,704.0			2 18.49
16650	4 Street light wiring	lin.m.		\$9.4		- 1	0 -9.59
16650	.5 traffic signal installation complete with wiring	each		\$130,727.2		- 1	0 -9.59
16650	.6 Relocate existing utility poles	each		\$3,489.9	1	.0	J -3.37
16650	.7 Miscellaneous adjustments	%_		<u> </u>	<u> </u>		

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June 14, 2010

Randy Shier President Urban Development Institute 620-1632 Dickson Avenue Kelowna, BC v1Y 7T2 rshier@missiongroup.ca

Matt Cameron **UDI-DCC Committee Chair** #205 - 1726 Dolphin Ave. Kelowna, BC V1Y 9R9 MCameron@ctqconsultants.ca

Dear Randy and Matt:

Re: 2010 DCC Unit Costs:

The City has now embarked on the preparation of the new 20-Year Servicing Plan and Financing Strategy (DCC Bylaw) in response to the revised DRAFT 2030 Official Community Plan. Both documents will be reviewed by Council for adoption at the end of 2010. We are pursuing an ambitious schedule for completion of the OCP and DCC Bylaw to clarify the vision and direction for the next 20-years of Kelowna's urban development.

The recent reorganization has resulted in a change of responsibilities among the new departments. This is a departure from the past when Financial Services had the primary role for DCC coordination. The new structure places the responsibility for technical planning of growth-driven infrastructure, as well as the financial planning for this work, within the capital infrastructure design and construction departments:

Infrastructure Planning is an amalgamation of professional planners representing all infrastructure disciplines. This department is responsible for planning the new infrastructure required to address the growth anticipated in the OCP, for coordinating the development of the 20-year servicing plan and financing strategy and for acting as the prime contact with external stakeholders, such as UDI.

Design and Construction is an integrated unit of interdisciplinary project managers responsible for the construction documentation and contract administration of construction projects. This department is responsible for developing unit costs for all infrastructure

types, having direct access and an in-depth understanding of current contract pricing. Financial Services is responsible for ensuring that there are strong fiscal controls in the collection and expenditure of DCC funds so that the implementation of the DCC bylaw is achieved within available funds. They are also providing process continuity for the new organizational structure.

The City is working towards a full discussion with UDI on the proposed 2030 Servicing Plan and DCC unit rate structure in mid-August. We expect to provide information to UDI in advance of our meetings as it becomes available, to allow for sequential decision-making and a higher value for our discussions.

Find attached:

The methodology used for the development of unit costs. The underlying principle is that the City is applying common sense to the analysis of the lowest acceptable bids to ensure that it is collecting the right amount of money to pay the costs of infrastructure

The unit cost calculations for roads, water and sewer services.

We are suggesting a meeting with UD1 at 9:30 am on Tuesday, June 29, 2010, Layer Cake Mountain Room,  $4^{\rm th}$  Floor City Hall, to discuss these attachments. This should provide sufficient time for you to review the material. We are requesting your final input by July 9, 2010 for our review and use in project costing on the 2030 DCC plan. The mid-August meeting, which will be preceded by another information package for your review, will

Infrastructure Planning 1435 Water Street Kelowna, BC V1Y 1J4 TEL 250 469-8614 FAX 250 862-3349 kelowna.ca

### look at:

Network changes to accommodate projected growth

Policy changes regarding levels of service and the items included in the DCC rates

DCC project costs 0

DCC rates 0

You will notice that the unit rates are showing reductions across the board. AS you are well aware, these rates need to be applied to existing and proposed new projects before a DCC rate can be determined. It would be premature to speculate on the change in the DCC rates at this time.

We look forward to continuing our close working relationship with UDI in this regard.

Thank you;

Randy(L) Cleveland

Director, Infrastructure Planning

Attachment:

Unit Cost Methodology

Unit Cost Analysis: Roads, Water, sewer

cc.

Keith Grayston, Director, Financial Services Neuri Grayston, Director, Financial Services
Bill Berry, Director, Design & Construction
Jim Wunderlich, Financial Analyst, Infrastructure Planning
Jim Paterson, General Manager, Community Sustainability

P:\Infrastructure Planning\0100 ADMINISTRATION\0155 PLANS AND PROGRAMS\0155-65 INFRASTRUCTURE PLANS - 20 YEAR SERVICING\DCC Unit rates, 2010, UDI, 2010.06.08, rtc.docx

# 2010 Roads DCC Unit Price Review Methodology

### 1. Background

The City of Kelowna DCC Roads Projects are reviewed annually to ensure that the cost estimates reasonably represent the projected cost of construction. The review process normally involves:

- For those roads that have been completed or that are under construction, the estimated costs are replaced with actual or tendered cost of construction.
- For those roads with advanced design complete, the preliminary cost estimates are replaced with detailed estimates (with lower contingencies) prepared by the design engineer.
- For those roads which have no new information available, the cost estimates are updated on the basis of revised unit prices. The revised unit prices are developed using recent City of Kelowna tender information, consultant advice and economic trend information.

During the time that the 2008 annual review was underway, the economy was showing signs of a downturn. While the downturn was not yet being reflected in lower pricing in City roads projects, the development community was predicting that lower prices were inevitable. Analysis of the available data as outlined above resulted in a recommendation of a 7% average increase in unit prices for 2008. After consultation with the development community, it was decided to update only those cost estimates for which better information was available (projects which had been designed, tendered and/or constructed). The cost estimates for all other roads were unchanged and unit prices were not updated from the previous (2007) rates.

A similar review took place in 2009 but again the rates were not updated. As such, the unit rates in the current DCC cost estimates are from 2007 based upon tenders received late in 2006 and early in 2007.

# 2. 2010 Unit Price Review Process

The process that has been followed in 2010 to arrive at the proposed new unit prices (attached) is outlined in this section.

 The DCC unit price spreadsheet was updated using the low bidder pricing on recent City tendered projects. For the current (2010) update, the following tenders were included:

- Glenmore Bypass
- Clifton/Highland Dr (Water & Storm Main and Retaining wall)
- Gordon Dr.
- BC Trade Waste Treatment Plant Lift Station and Force Main
- Highway 97 Widening
- Moyer Rd. Storm Sewer
- Abbott St. Recreation Corridor
- Gordon Dr. Bridge
- Highway 33 Upgrading
- 2. Items showing a very large percentage change in unit costs were analyzed. For these either:
  - The average of all (rather than low only) bid prices was used, or
  - Outlier bids were dropped (only where a minimum of two other tender prices are available) and the average of the low tender prices on the remaining projects were used.
- 3. For pricing of items with incremental sizes (e.g. pipe and manholes) a further test was applied. If unit prices did not steadily increase as the size increases, a cost curve was developed and the individual unit prices smoothed to fit the curve. This helped to remove bidding anomalies from the analysis.

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- 4. Line items which together comprise 80% of the total program costs were identified and the average percentage change in costs of these items was calculated. The average cost decrease for these items based on recent tender data is 9.5%.
- 5. Items for which no recent City tender data is available were deflated by this same 9.5%.
- 6. The new unit price model was tested by using it to update the costs of three (3) representative DCC Roads Estimates. The revised unit prices resulted in an average cost decrease on these three projects (exclusive of land) of 8.95%.

# CONSTRUCTION COST ESTIMATE

9,54	Inflation Rate	N NAMES OF THE PARTY OF	2010 DCC	2009		
110 68	BESCRIPTION	UNIT	Unite	THE RESERVE AND ADDRESS OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE	Count	Change
ITEM	BESCHIEFT.		Price	PRICE		
121 - 12						
Saction :	01050 - Field Surveys		1,0%	1.0%	6	0.0%
1050.1	Surveys for layout and as-constructed records	%		1,070		
Section	01535 - Temporary Facilities		\$1.00	\$1.00	3	0.0%
1535.1	Temporary utilities and construction facilities	%	41.00			
Section	01570 - Traffic Regulation	1 0/ 1	\$3.00	\$3.00	7	0.0%
1570.1	Traffic regulation	%	\$3.00			
Section	02070 - Sitework Demolition and Removal				0	
2070 1	Miscellaneous removals	L.S.	\$40.99	\$47.00	3	-12.8%
2070.2	Remove and disposal of pipe culvert	lin. m	\$19.00	\$21 <u>.00</u>	0	-9.5%
2070.3	Fence removal and/or relocation	lin. m		-		
Section	02104 - Shrubs and Tree Preservation			-	1	
2104.1	Preservation of existing trees and shrubs	L,S.				
Section	02111 - Clearing and Grubbing		\$18,091.97	\$20,000.00	0	-9.5%
2111.1	LClose-cut clearing (1ha=10,000m2)	ha l	\$4,714.24	\$65,000.00	3	-92.7%
2111 2	General clearing and grubbing	ha l	ψη,τ			
Section	02113 - Removal of Existing Asphalt Paveme	<i></i>	\$4.28	\$4.87	1	-12.19
2113.	Removal and disposal of asphalt, regardless of depth	sq. m	φτικο			
Section	02221 - Rock Removal		\$51.30	\$56.71	0	-9.59
2221.	1 Trench rock removal	cu.m	\$15.39		0	-9.59
2221.3	2 Mass rock removal	cu.m	\$7.34	\$8,11	0	-9.59
2221	3 Off-site disposal of excess rock quantity	cu.m	\$7,01			
Section	o 02223 - Excavating, Trenching and Backfillin	1 <i>q</i>	\$24.89	\$25.50	4	-2.49
2223.	1 Imported trench backfill material	[ 004 111 ]	\$169.39	I	1	
2223.	2 Concrete encasement of utilities	lin, m	\$25.65	1		
2223.	3 Dewater trench (250 to 450)	lin.m.	\$35.91			• •
2223.	4 Dewater trench (525 to 900)	lin.m.	\$46.17		. (	-9.5
0000	s Dawater tranch (1050 and 190)					
Section	1 02224 - Roadway Excavation, Embankment	and Compacue	\$5.60	\$5.54	1 2	1.0
2224	1 Tonsoil stripping and Stockblie UI-Sile	cu. m ha	\$2,051.99	1		9.5
2224	2 Organic stripping, shrub removal off-site	cu. m	\$7.86	\$8.30	-1	3 -5.3
2224	3 Common excavation, on-site re-use	cu, m	\$11.01		1	-21.4
2224	.4 Common excavation, off-site disposal	cu. m	\$37.99	\$42.00		-9.5
2224	.5 Common excavation, replace unsuitable subgrade	cu.m	\$21.90	\$26.07		1 -16.0
2224	.6 Imported granular fill, 75mm minus pitrun	L.S.	-	- 100	1	0  5  <u>14.5</u>
2224	.7 Miscellaneous Removal .8 Subgrade finishing and compaction	sq. m	<u>\$1.0</u> 9	\$0.9	<u> </u>	51 14.5
2224	.8 Subgrade inishing and compassion				-1	8 -18.3
Section	n 02233 - Granular Base 3.1 Granular base, 25 mm minus crushed gravel	cu, m	\$46.3			8 -18.3 2 14.5
2233	3.1 Shoulder gravel, 19 mm minus (100 mm depth)	cu.m	\$56.0	9 \$49.0	<u> </u>	2 -14.
2233	3.2 Shoulder glaver, 13 militaines cross to the same					4 -23,
Sectio	n 02234 - Granular Subbase 4.1 Granular subbase, 75mm minus crushed gravel	cu. m	\$33.9	1		4 -23.
2234	4.2 Select granular subbase salvaged from excavation and	1 cu. m	\$11.2	0 \$19.4	4	427.23
2232	full depth reclamation					
0	on 02235 - Unsuitable Trench Material			400.0	ıcl	0 -9.
Section	5.1 Remove & replace unsuitable material (50%)	lin.m.	\$29.0	0 \$32.0	10]	-9,
				1000	= -	3 -42.
Section	on 02271 - Riprap	cu. m	\$54.4	\$94.7	<u> </u>	3 -42.
227	1.1 Machine placed riprap	,			-	7 00
Section	on 02512 - Hot Mix Asphalt Concrete Paving	sq.m	\$14.7			7 23: 7 33:
251	2.1 Asphalt lower course, 60 mm	sq.m	\$10.8			
251	2.2 Asphalt surface course, 40 mm 2.3 Asphalt surface course for sidestreets, 50 mm	sq.m	\$16.8			1
251	2.3 Asphalt surface course for side-side 5. 33 min. 2.4 Asphalt - hand placed	sq. m	\$18.0			1 -38 1 -25
c 251	2.5 Asphalt curb - 150mm high	lin. m	\$16.8	30 \$22.	ופנ	11 -23

Section O2615 - Unit Paying   Section O2615 - Unit Paying   Section O2615 - Unit Paying   Section O2615 - Unit Paying   Section O2625 - Unit Paying   Section O2625 - Concrete Welks, Curbs and Section O2625 - Concrete Welks, Curbs and Gutters   Section O2625 - Concrete Welks, Curbs and Gutters   Section O2625 - Concrete Welks, Curbs and Gutters   Section O2625 - Concrete Welks, Curbs and Gutters   Section O2625 - Concrete Welks, Curbs and Gutters   Section O2625 - Concrete Welks, Curbs and Gutters   Section O2625 - Concrete Welks, Curbs and Gutters   Section O2625 - Concrete Welks, Curbs and Gutters   Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O2625 - Section O262	Total Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the	DESCRIPTION	UNIT		2010 DGC Unit Price	2009 LINIT PRICE	Count	Chan	ge (
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Section 22515 - Unit Parking   Sum   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say   Say	Valoració la ci	hall, stamped and colored, including base & prep	sq. m			2 2.44 1 2 2.4			
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Section D2523 - Concrete Welks: CUTIS and Section D2523   Concrete Welks: CUTIS and Section D2523   Concrete with any duties to be seen seen and quite row agrinular base sq. m   \$33.00   \$61.05   6.42   2523.4   Section D2524 - Asphalt Tack Coat   \$9.07   \$9.041   7   29.9   2523.4   Median Treatment - dw sphalt/concrete/landsceping   \$9.07   \$9.041   7   29.9   2523.4   Median Treatment - dw sphalt/concrete/landsceping   \$9.07   \$9.041   7   29.9   2524.1   Asphalt tack coat   \$9.07   \$9.041   7   29.9   2524.1   Asphalt tack coat   \$9.07   \$9.041   7   29.9   2524.1   Asphalt tack coat   \$9.07   \$9.041   7   29.9   2524.1   Asphalt tack coat   \$9.07   \$9.041   7   29.9   2524.1   Asphalt tack coat   \$9.07   \$9.041   7   29.9   2524.1   Asphalt tack coat   \$9.07   \$9.041   7   29.9   2524.1   Asphalt tack coat   \$9.07   \$9.041   7   29.9   2525.1   Full depth reclamation of asphalt to 300mm depth   \$9.0m   \$4.92   \$5.00   0   9.9   2526.1   Part of the sement Markings   \$1.02   \$1.13   0   9.9   2526.1   Part of the sement Markings   \$1.02   \$1.13   0   9.9   2526.1   Removal of pavement Surface Cleaning and removal of Pavement Markings   \$1.02   \$1.13   0   9.9   2526.1   Removal of pavement markings   \$1.5   \$9.00   \$9.00   2527.1   Catchbasin loads, non-perforated PVC Ultra Rib   \$1.00   \$1.22   \$2.50.00   2727.2   Orainage dichring   \$1.00   \$1.00   \$1.22   \$2.50.00   2727.2   Orainage dichring   \$1.00   \$1.00   \$1.22   \$2.50.00   2727.2   Orainage dichring   \$1.00   \$1.00   \$1.00   \$2.20   \$1.00   2727.2   Orainage dichring   \$1.00   \$1.00   \$1.00   \$2.20   \$1.00   2727.2   Orainage dichring   \$1.00   \$1.00   \$1.00   \$1.00   \$1.00   2727.2   Orainage dichring   \$1.00   \$1.00   \$1.00   \$1.00   \$1.00   2727.2   Orainage dichring   \$1.00   \$1.00   \$1.00   \$1.00   \$1.00   \$1.00   2727.2   Orainage dichring   \$1.00   \$1.00   \$1.00   \$1.00   \$1.00   \$1.00   2727.2   Orainage dichring   \$1.00   \$1.00   \$1.00   \$1.00   \$1.00   \$1.00   2727.2   Orainage dichring   \$1.00   \$1.00   \$1.00   \$1.00   \$1.00   \$1.00	ection U25	is powers of a grapular base and edging	sq.m		\$03,32				
2523.1   Concrete cutra highlights, o'ly granifat base   Sq. m   \$3.80   \$41.23   54.25   5.64     2523.2   Slowkerske, o'ly granifat base   Sq. m   \$3.80   \$41.23   5   5.64     2523.3   Verdinal retarient - div agribaldeoncretaflondscaping   Sq. m   \$3.80   \$41.23   5   5.64     2523.4   Median retarient - div agribaldeoncretaflondscaping   Sq. m   \$3.80   \$73.13   4   10.2     2523.4   Median retarient - div agribaldeoncretaflondscaping   Sq. m   \$3.23   \$2.36   7   36.7     2523.4   Nedian retarient - div agribaldeoncretaflondscaping   Sq. m   \$3.23   \$2.36   7   36.7     2524.1   Mill resisting ashhalt patement and stockolie et yards   Sq. m   \$3.23   \$2.36   7   36.7     2524.1   Mill resisting ashhalt patement and stockolie et yards   Sq. m   \$4.52   \$5.00   0   94.5     2525.1   Pul depth reclamation of asphalt to 300mm depth   Sq. m   \$4.52   \$5.00   0   94.5     2526.1   Pul depth reclamation of asphalt to 300mm depth   Sq. m   \$4.52   \$5.00   0   94.5     2526.1   Pul depth reclamation of asphalt to 300mm depth   Sq. m   \$4.52   \$5.00   0   94.5     2526.1   Pul depth reclamation of asphalt to 300mm depth   Sq. m   \$4.52   \$5.00   0   94.5     2526.1   Pul depth reclamation of asphalt to 300mm depth   Sq. m   \$4.52   \$5.00   0   94.5     2526.1   Pul depth reclamation of asphalt to 300mm depth   Sq. m   \$4.00   \$4.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.20   \$6.2	2515.1]00	TOO Comprose Walks Curbs and Gutters			#60 O4	\$68.7	7 6	-1	.1%
2873.3   Sidewalks, Ow gardial bases   San	ection UZ	523 - Concrete Warks, Consular base	lin. m	1					
2533.4 Median Treatment - Ow apphalbronorote/landscaping of, m \$80.61 \$73.69 \$253.4 Median Treatment - Ow apphalbronorote/landscaping of, m \$80.61 \$73.69 \$253.4 Median Treatment - Ow apphalbronorote/landscaping of, m \$80.61 \$73.60 \$253.4 Median Treatment - Ow apphalbronorote/landscaping of, m \$80.61 \$75.60 \$253.4 Median Treatment - Own apphalbronorote/landscaping of, m \$9.57 \$9.04 \$7 \$29.9 \$253.1 Median Treatment - Own apphalbronorote/landscaping of, m \$9.67 \$9.20 \$9.20 \$253.1 Median Treatment Medians of apphalbronorote/landscaping of parameter Medians of apphalbronorote/landscaping of parameter malkings	2523.1 Co	Accepted Color and golder, one granular hase	1						
2573.4   Median Treatment - or Asphanorance   Section   25847   Asphalt Tack Coat   Sq. m   \$0.57   \$0.44   7   29.9		· · · · · · · · · · · · · · · · · · ·	1			\$73.1	3 4	<b>∮</b> 10	).2%
Section 02547 - Asphalt Tack Coat	2523,3 CC	odian Treatment - c/w asphalt/concrete/landscaping	sq. m		\$00,07		_!		
Section   2847 - Aspident Pack Cus.   Sq. m   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Section   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy.97   Sy	Z3Z3.41VII	to the Track Cook			10.55	\$0.4	4]	7 29	9.9%
Section 02574 - Cold Milling   S3.23   S2.36   7   S3.27   S274.1   Mill existing aspinal payement and stockpile at yards   Sq.m   S4.52   S5.00   0   -9.5   Section 02575 - Full Pepth Reclaimation   Sq.m   S4.52   S5.00   0   -9.5   S5.00   S275.1   Full depth reclaimation of aspinalt to 300mm depth   Sq.m   S4.52   S5.00   0   -9.5   S5.00   Painted Payement Markings   Ilin. m   S1.02   S1.13   0   -9.5   S6.00   Painted Payement Markings   Ilin. m   S1.02   S1.13   0   -9.5   S6.00   Painted Payement Markings   Ilin. m   S4.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5.00   S5	<u>iection 02</u>	547 - Asphait Tack Cual	sq. m		\$0.57	4011		T	
Section 02574 - Cold withming   Section 02575 - Full Depth Reclamation   Section 02575 - Full Depth Reclamation   Section 02575 - Full Depth Reclamation   Section 02575 - Full Depth Reclamation   Section 02575 - Full Depth Reclamation   Section 02580 - Painted Pavement Markings   Section 02580 - Painted Pavement Markings   Section 02581 - Pavement Markings   Section 02581 - Pavement Markings   Section 02581 - Pavement Markings   Section 02581 - Pavement Markings   Section 02581 - Pavement surface Cleaning and removal of Pavement Markings   Section 02721 - Storm Sewer   Section 02721 - Storm Sewer   Section 02721 - Storm Sewer   Section 02721 - Storm Sewer   Section 02721 - Storm Sewer   Section 02721 - Storm Sewer   Section 02721 - Storm Sewer   Section 02721 - Storm Sewer   Section 02721 - Storm Sewer   Section 02721 - Storm Sewer   Section 02721 - Storm Sewer   Section 02721 - Storm Sewer   Section 02721 - Storm Sewer   Section 02721 - Storm Sewer   Section 02721 - Storm Sewer   Section 02721 - Storm Sewer   Section 02721 - Storm Sewer   Section 02721 - Storm Sewer   Section 02721 - Storm Sewer   Section 02721 - Storm Sewer   Section 02721 - Storm Sewer   Section 02721 - Storm Sewer   Section 02721 - Storm Sewer   Section 02721 - Storm Sewer   Section 02721 - Storm Sewer   Section 02721 - Storm Sewer   Section 02721 - Storm Sewer   Section 02721 - Storm Sewer   Section 02721 - Storm Sewer   Section 02721 - Storm Sewer   Section 02721 - Storm Sewer   Section 02721 - Storm Sewer   Section 02721 - Storm Sewer   Section 02721 - Storm Sewer   Section 02721 - Storm Sewer   Section 02721 - Storm Sewer   Section 02721 - Storm Sewer   Section 02721 - Storm Sewer   Section 02721 - Section 02721 - Section 02721 - Section 02721 - Section 02721 - Section 02721 - Section 02721 - Section 02722 - Section 02722 - Section 02722 - Section 02723 - Section 02723 - Section 02723 - Section 02723 - Section 02723 - Section 02723 - Section 02723 - Section 02723 - Section 02723 - Section 02723 - Section 02723 - Section 02723 - Sectio			<del></del>		1 2 2 2 3	42.21	<del></del>	7 3	6.7%
Section   2575.1   Full Depth Reclaimation   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section	Section 02	2574 - Cold Milling	sq. m		\$3,23	\$2,30	<u></u>		
Section 02576 - Full Depth Rectament   Sq.m   \$4.52   \$3.000	2574.1 M	ill existing asphalt pavement and stockpholes years				<b>ታር</b> ር	<u> </u>	0 -	9.5%
Section 02581 - Painted Pavement Markings	Section 02	2575 - Full Depth Recialmation	sa.m		\$4.52	\$5,0	301	4	0,0,0
Section 02880 - Painted Pavement Markings   Section 02881 - Pavement Surface Cleaning and removal of Pavement Markings   Section 02581 - Pavement Surface Cleaning and removal of Pavement Markings   L.S.	つこつに 1 [日]	ull denth reclamation of aspirantio society depart	<u>                                     </u>					0	9.5%
Section 07271 - Storm Sewer   Surface Cleaning and removal of Pavement Markings   Section 07271 - Storm Sewer   Surface Of Sewer   Surface Cleaning and removal of Pavement Markings   L.S.	Section 02	2580 - Painted Pavement Markings	lin m			\$1.	[3]	U	9,070
Section 02581 - Pavement Surface Cleaning and removal of pevement markings   L.S.	2580.1 P	ainted Pavement Markings	wal of De	wement Mar	kinas			-	
Section 02721 - Storm Sewer   Section 02721 - Storm Sewer   Section 02721 - Storm Sewer   Section 02721 - Storm Sewer   Section 02721 - Storm diameter   Section 02721 - Storm diameter   Section 02721 - Storm PVC   Section 02721 - Storm PVC   Section 02721 - Storm PVC   Section 02721 - Storm PVC   Section 02722 - Storm PVC   Section 02722 - Storm PVC   Section 02722 - Storm PVC   Section 02722 - Storm PVC   Section 02722 - Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC   Storm PVC	Section ()	2581 - Pavement Surface Cleaning and remo	iyai ui ra	A CHENIER INICAL	-			U	
Section 02721 - Storm Sewer   272.1.0   Catchbasin leads, non-perforated PVC Ultra Rib   -2.00 mm diameter   lin. m   \$24.00   \$9.29   1   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158	2581.1 F	Removal of pavement markings	L.J.						
2721.10 Catchbasin leads, non-pertolated PV of stat Ats.  - 200 mm diameter   10 mm diameter   10 mm   \$12,400   \$9.29   1   58   158   157,200   157   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158   158		GTON CHOPM SOME	<del></del>	<del></del>					ልቁ በመ
- 200 mm diameter	2721.10(	Catchbasin leads, non-perforated PVC Ultra Rib	lin m	1	\$82,84				
2721.20   Drainage diriching   Ilin.m.   \$112.92   \$253.00   2 - 24   2721.30   250mm PVC   Ilin.m.   \$19.008   \$252.00   2 - 24   2721.50   350mm PVC   Ilin.m.   \$190.08   \$252.00   2 - 24   2721.50   355mm PVC   Ilin.m.   \$228.53   \$349.00   2 - 24   2721.50   450mm PVC   Ilin.m.   \$228.53   \$349.00   2 - 24   2721.50   525mm PVC   Ilin.m.   \$228.53   \$349.00   2 - 24   2721.80   600mm PVC   Ilin.m.   \$335.00   \$308.16   1 - 5   2721.90   575mm PVC   Ilin.m.   \$402.89   \$406.60   1 - 5   2721.90   575mm PVC   Ilin.m.   \$408.00   \$395.90   1 - 2   2721.91   750mm CONC   Ilin.m.   \$489.60   \$395.90   1 - 2   2721.11   900mm CONC   Ilin.m.   \$557.20   \$856.00   1 - 3   2721.12   1260mm CONC   Ilin.m.   \$552.80   \$465.02   1 - 4   2721.13   1200mm CONC   Ilin.m.   \$734.40   \$521.73   1 - 4   2721.14   1350mm CONC   Ilin.m.   \$120.00   \$153.12   0 - 2   2721.15   1500mm CONC   Ilin.m.   \$120.00   \$153.12   0 - 2   2721.16   250mm PERF PVC   Ilin.m.   \$129.35   \$303.00   1 - 5   2721.19   450mm PERF PVC   Ilin.m.   \$149.35   \$303.00   1 - 5   2721.19   450mm PERF PVC   Ilin.m.   \$149.35   \$303.00   1 - 5   2721.19   450mm PERF PVC   Ilin.m.   \$149.35   \$303.00   1 - 5   2721.12   1600mm PERF PVC   Ilin.m.   \$149.35   \$303.00   1 - 5   2721.13   1600mm PERF PVC   Ilin.m.   \$149.35   \$303.00   1 - 5   2721.14   1600mm PERF PVC   Ilin.m.   \$149.35   \$303.00   1 - 5   2721.17   1600mm PERF PVC   Ilin.m.   \$145.62   \$157.29   2   2721.19   450mm PERF PVC   Ilin.m.   \$145.62   \$157.29   2   2721.21   1600mm PERF PVC   Ilin.m.   \$145.65   \$107.00   0   2721.22   1600mm PERF PVC   Ilin.m.   \$160.00   \$153.12   - 4   2721.21   1600mm PERF PVC   Ilin.m.   \$160.00   \$153.12   - 4   2721.22   1600mm PERF PVC   Ilin.m.   \$160.00   \$153.12   - 4   2721.21   1600mm PERF PVC   Ilin.m.   \$160.00   \$153.12   - 4   2721.21   1600mm PERF PVC   Ilin.m.   \$160.00   \$153.12   - 4   2721.21   1600mm PERF PVC   Ilin.m.   \$160.00   \$153.12   - 4   2721.21   1600mm PERF PVC   Ilin.m.   \$160.00   \$153.12   - 4   2721.21   1600mm PERF PVC	2121110	- 200 mm diameter			\$24.00			1	
2721.30 250mm PVC 2721.40 300mm PVC 375.00 375mm PVC 371.50 375mm PVC 3721.60 450mm PVC 3721.70 525mm PVC 3721.80 450mm PVC 3721.90 525mm PVC 3721.90 600mm PVC 3721.90 600mm PVC 3721.90 675mm PVC 3721.90 675mm PVC 3721.90 675mm PVC 3721.10 750mm CONC 3721.11 900mm CONC 3721.12 1050mm CONC 3721.12 1050mm CONC 3721.13 1200mm CONC 3721.14 1350mm CONC 3721.15 1200mm CONC 3721.16 1350mm CONC 3721.17 1300mm CONC 3721.17 1300mm CONC 3721.18 1350mm CONC 3721.19 1350mm CONC 3721.10 1500mm CONC 3721.10 1500mm CONC 3721.11 1500mm CONC 3721.11 1500mm CONC 3721.12 1050mm PCRF PVC 3721.13 1500mm PCRF PVC 3721.13 1500mm PCRF PVC 3721.14 1350mm PCRF PVC 3721.15 1500mm PCRF PVC 3721.17 300mm PCRF PVC 3721.18 375mm PCRF PVC 3721.18 375mm PCRF PVC 3721.19 300mm PCRF PVC 3721.19 300mm PCRF PVC 3721.10 525mm PCRF PVC 3721.11 \$266.54 3721.11 \$266.54 3721.12 \$265.50 375mm PCRF PVC 3721.13 \$266.54 3721.14 \$266.54 3721.15 \$265.50 375mm PCRF PVC 3721.16 \$255mm PCRF PVC 3721.17 \$266.54 375mm PCRF PVC 3721.18 \$266.54 375mm PCRF PVC 3721.20 \$255mm PCRF PVC 3721.20 \$255mm PCRF PVC 3721.20 \$255mm PCRF PVC 3721.21 \$255mm PCRF PVC 3721.21 \$255mm PCRF PVC 3721.22 \$255mm PCRF PVC 3721.23 \$255mm PCRF PVC 3721.24 \$266.54 3721.25 \$255mm PCRF PVC 3721.25 \$255mm PCRF PVC 3721.26 \$255mm PCRF PVC 3721.27 \$255mm PCRF PVC 3721.28 \$255mm PCRF PVC 3721.29 \$255mm PCRF PVC 3721.29 \$255mm PCRF PVC 3721.20 \$255mm PCRF PVC 3721.20 \$255mm PCRF PVC 3721.20 \$255mm PCRF PVC 3721.20 \$255mm PCRF PVC 3721.20 \$255mm PCRF PVC 3721.20 \$255mm PCRF PVC 3721.20 \$255mm PCRF PVC 3721.20 \$255mm PCRF PVC 3721.20 \$255mm PCRF PVC 3721.20 \$255mm PCRF PVC 3721.20 \$255mm PCRF PVC 3721.20 \$255mm PCRF PVC 3721.20 \$255mm PCRF PVC 3721.20 \$255mm PCRF PVC 3721.20 \$255mm PCRF PVC 3721.20 \$255mm PCRF PVC 3721.20 \$255mm PCRF PVC 3721.20 \$255mm PCRF PVC 3721.20 \$255mm PCRF PVC 3721.20 \$255mm PCRF PVC 3721.20 \$255mm PCRF PVC 3721.20 \$255mm PCRF PVC 3721.20 \$255mm PCRF PVC 3721.20 \$255mm PCRF PVC 3721.20 \$255mm PCRF PVC 3721.20 \$255mm PCRF PVC 3721.20 \$255mm PCRF PVC 3721.20 \$255mm PCRF PVC 37			1 1			1 :		1	
2721.40   300mm PVC   10.mm   \$190.08   \$432.00   2   -34	2721.30	250mm PVC	1		\$164.17			- 1	
2721.50   375mm PVC	2721.40	300mm PVC	1 1			1 :			34.59
2721.60   450mm PVC	2721.50	375mm PVC				1			24.39
2721.70   525mm PVC	2721.60	450mm PVC	1	ı	\$275.00	- 1		- 1	8.79
2721.80   600mm PVC   IIn.m.	2721.70	525mm PVC	1 [			1		1	-0.9
2721.90   675mm PVC   11n.m.   \$408.00   \$395.90   1   2721.10   750mm CONC   11n.m.   \$489.60   \$385.63   1   2   2721.11   900mm CONC   11n.m.   \$571.20   \$856.00   1   -3   2721.12   1050mm CONC   11n.m.   \$652.80   \$465.02   1   4   2721.13   1200mm CONC   11n.m.   \$652.80   \$465.02   1   4   2721.13   1200mm CONC   11n.m.   \$734.40   \$521.73   1   4   2721.15   1500mm CONC   11n.m.   \$120.00   \$153.12   0   -2   2721.16   250mm PERF PVC   11n.m.   \$120.00   \$153.12   0   -2   2721.17   300mm PERF PVC   11n.m.   \$145.62   \$157.29   2   2   2721.19   450mm PERF PVC   11n.m.   \$145.62   \$157.29   2   2   2   2   2   2   2   2   2	2721.80	600mm PVC	1 1		1 '	1007		1	3.1
2721.10   750mm CONC	2721.90	675mm PVC	1 1					1	27.0
2721.11   900mm CONC	2721.10	750mm CONC	1	l		~I			-33.3
2721.12   1050mm CONC	2721,11	900mm CONC	1	į		٠			40.4
2721.13   1200mm CONC   Ilin.m.   \$734.40   \$521.75   1   3   3   3   3   3   3   3   3   3	2721.12	1050mm CONC	1			+ = 0			40.8
2721.14 1350mm CONC	2721.13	1200mm CONC	1 '	1		Y :			37.0
2721.15   1500mm CONC   161.m.   1512.00   1515.12   1   1500mm PERF PVC   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.   161.m.	2721.14	1350mm CONC	1 .			·~! :			-21.6
2721.16   250mm PERF PVC	2721.15	1500mm CONC		1		,			-57.3
2721.17   300mm PERF PVC   1   1   1   1   2721.18   375mm PERF PVC   1   1   1   2721.19   450mm PERF PVC   1   1   1   2266.54   0   1   1   22721.20   525mm PERF PVC   1   1   1   2266.54   0   1   1   22721.21   600mm PERF PVC   1   1   1   2266.54   0   1   1   22721.21   600mm PERF PVC   1   1   1   1   2266.54   0   1   2   2721.21   675mm PERF PVC   1   1   1   1   2266.54   0   1   2   2721.21   675mm PERF PVC   1   1   1   1   1   1   2   2   2   2	2721 16	1250mm PERF PVC		Ì		1.1	3.00		-7.4
2721.18   375mm PERF PVC   lin.m.   \$174.80   \$266.54   0     2721.19   450mm PERF PVC   lin.m.   \$241.11   \$266.54   0     2721.20   525mm PERF PVC   lin.m.   \$282.15   \$311.91   0     2721.21   600mm PERF PVC   lin.m.   \$338.58   \$374.29   0     2721.22   675mm PERF PVC   lin.m.   \$160.00   \$153.12   1     2723.1   Pipe culvert, galvanized CMP   lin.m.   \$183.25   \$153.50   4     - 450 mm diameter   lin.m.   \$236.85   \$270.00   1     - 450 mm diameter   lin.m.   \$236.85   \$270.00   1     - 450 mm diameter   each   \$2,256.50   \$10,700.00   1     - 450 mm diameter   each   \$2,256.50   \$10,700.00   1     - 450 mm diameter   each   \$6,500.00   \$10,700.00   0     - 450 mm diameter   each   \$6,500.00   \$10,700.00   0     - 450 mm diameter   each   \$1,478.57   \$1,531.11   7     - 2723.3   Sandbag endwalfs for culverts, all diameters   each   \$1,478.57   \$1,531.11   7     2725.2   Catchbasin, side inlet   each   \$1,410.00   \$1,716.67   2     2725.2   Catchbasin, top inlet   each   \$1,193.50   \$1,040.00   5     2725.2   Catchbasin, top inlet   each   \$1,193.50   \$1,040.00   5     2725.2   Catchbasin, top inlet   each   \$1,478.57   \$1,531.47   6	2721.17	300mm PERF PVC	L			· i			-24.9
2721.19  450mm PERF PVC   Iin.m.   \$241.11   \$200.51   \$212.12   525mm PERF PVC   Iin.m.   \$282.15   \$311.91   0   \$2721.21   600mm PERF PVC   Iin.m.   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29   0   \$338.58   \$374.29	2721.18	375mm PERF PVC							-9.
2721.20   525mm PERF PVC   1   1   1   1   1   1   2   2   2   2	2721.19	450mm PERF PVC	l l			' ' I		-1	-9.
10   10   10   10   10   10   10   10	2721.20	525mm PERF PVC							-9,
Section 02723 - Pipe Culverts   Iin. m   \$160.00   \$153.12   1	2721.2	600mm PERF PVC	1	l l	\$338.	58] აა.	14.23		
Pipe culvert, galvanized CMP	2721.2	2 675mm PERF PVC							
Pipe culvert, galvanized CMP	Section	02723 - Pipe Culverts				44	CO 12	- 1	4.
- 450 mm diameter	2723.	1 Pipe culvert, galvanized CMP	lin, m	,				- 1	19
- 600 mm diameter - 900 mm diameter - 900 mm diameter - 450 mm diameter - 600 mm diameter - 600 mm diameter - 600 mm diameter - 600 mm diameter - 600 mm diameter - 600 mm diameter - 600 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm dia		- 450 mm diameter				,		7	-12
- 900 mm diameter Pre-cast concrete headwall, complete with safety grill - 450 mm diameter - 600 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm diameter - 900 mm di		- 600 mm diameter	1 '		\$236	.85  \$2	10,00	١'	
2723.2   Pre-cast concrete headwall, complete with safety   1		- 900 mm diameter				50 0107	וחת חחו	- 1	-85
- 450 mm diameter	2723	,2 Pre-cast concrete headwall, complete with safety grid	each	1			00.00	1	-78
- 600 mm diameter	1	- 450 mm diameter			\$2,256		ומטיססי		-39
- 900 mm diameter 2723.3 Sandbag endwalls for culverts, all diameters  Section 02725 - Manholes and Catchbasins  Each \$1,478.57 \$1,531.11 7  Each \$1,410.00 \$1,716.67 2  Each \$1,193.50 \$1,040.00 5  Each \$1,193.50 \$1,040.00 5  Each \$1,193.50 \$1,040.00 5  Each \$1,193.50 \$1,040.00 5		- 600 mm diameter		I					50
2723.3   Sandbag endwalls for cuverts, an diameters		- 900 mm diameter			<u>  \$775</u>	1.UU] \$:	110100		
2725.1 Catchbasin, side inlet 2725.2 Catchbasin, top inlet 2725.2 Catchbasin, top inlet 2725.3 Adjust existing storm manholes 2725.4 Adjust existing storm manholes 2725.3 Adjust existing storm manholes 2725.3 Adjust existing storm manholes 2725.3 Adjust existing storm manholes	2723	3 Sandbag endwalls for culvers, an diameters					501 11		-3
2725.1 Catchbasin, side inlet 2725.2 Catchbasin, top inlet 2725.2 Catchbasin, top inlet 2725.3 Adjust existing storm manholes 2725.4 Adjust existing storm manholes 2725.5 Adjust existing storm manholes 2725.6 Catchbasin, side inlet 2725.7 Catchbasin, side inlet 2725.8 Catchbasin, side inlet 2725.9 Catchbasin, side inlet 2725.1 Catchbasin, side inlet 2725.2 Catchbasin, side inlet 2725.3 Catchbasin, side inlet 2725.2 Catchbasin, side inlet 2725.2 Catchbasin, side inlet 2725.3 Catchbasin, side inlet 2725.4 Catchbasin, side inlet 2725.2 Catchbasin, side inlet 2725.2 Catchbasin, side inlet 2725.3 Catchbasin, side inlet 2725.3 Catchbasin, side inlet 2725.4 Catchbasin, side inlet 2725.5 Catchbasin, side inlet 2725.6 Catchbasin, side inlet 2725.7 Catchbasin, side inlet 2725.8 Catchbasin, side inlet 2725.9 Catchbasin, side inlet 2725.9 Catchbasin, side inlet 2725.9 Catchbasin, side inlet 2725.9 Catchbasin, side inlet 2725.9 Catchbasin, side inlet 2725.9 Catchbasin, side inlet 2725.9 Catchbasin, side inlet 2725.9 Catchbasin, side inlet 2725.9 Catchbasin, side inlet 2725.9 Catchbasin, side inlet 2725.9 Catchbasin, side inlet 2725.9 Catchbasin, side inlet 2725.9 Catchbasin, side inlet 2725.9 Catchbasin, side inlet 2725.9 Catchbasin, side inlet 2725.9 Catchbasin, side inlet 2725.9 Catchbasin, side inlet 2725.9 Catchbasin, side inlet 2725.9 Catchbasin, side inlet 2725.9 Catchbasin, side inlet 2725.9 Catchbasin, side inlet 2725.9 Catchbasin, side inlet 2725.9 Catchbasin, side inlet 2725.9 Catchbasin, side inlet 2725.9 Catchbasin, side inlet 2725.9 Catchbasin, side inlet 2725.9 Catchbasin, side inlet 2725.9 Catchbasin, side inlet 2725.9 Catchbasin, side inlet 2725.9 Catchbasin, side inlet 2725.9 Catchbasin, side inlet 2725.9 Catchbasin, side inlet 2725.9 Catchbasin, side inlet 2725.9 Catchbasin, side inlet 2725.9 Catchbasin, side inlet 2725.9 Catchbasin, side inlet 2725.9 Catchbasin, side inlet 2725.9 Catchbasin, side inlet 2725.9 Catchbasin, side inlet 2725.9 Catchbasin, side inlet 2725.0 Catchbasin, side inlet 2725.0 Catchba	Section	n 02725 - Manholes and Catchbasins	eacl	h l	\$1,478		11.160		-1
2725.2 Catchbasin, top inlet   \$1,193.50   \$1,040.00   \$1,847.47   6	2725	5.1 Catchbasin, side inlet	1		\$1,410				1.
2 140 75   \$1,841.47   91	2721	a 2 Catchhasin, top inlet	1 '	- N	\$1,19	31-4			
	2721	3 Adjust existing storm mannoles	1 -	1	\$2,14	D. <b>7</b> 5] \$1,	047.47]	U)	''
2725.4 1050 mm dia. (450 and less)	272	5.4 1050 mm dia. (450 and less)	1 521						
code Proposed Unit Prices Master Sheet, xls	1 "			_	2010 Drangs	ed Unit Price:	s Master	Sheet	ds
6/11/2010 12:37 PM Page 2 2010 Proposed office ricks		6/11/2010 12:37 PM	Page	4	2010 ( 10pos				

ITEM	DESCRIPTION	UNIT		Z010 DCC Unit Price	2009 UNIT PRICE	Count	Cha	nge 2.8%
		ea.	10	\$2,583,33	\$2,658.7	-		8.2%
2725.5	1200 mm dia. (525 and 600)	ea.		\$4,145.00	\$2,620.0	- 1		4.7%
2725 8	(11350 mm dia, (675 and 750)	ea.		\$4,400.00	\$3,266.6		-1	7.9%
2725	211500 mm dia. (900)	ea.	  -	\$4,630.00	\$6,420.0	/°I		6.9%
2725.8	1800 mm dia. (1050 and 1200)	ea.		\$2,955.50	\$3,174.2	.5]		<u> </u>
2725 (	1 Opening Is	cai					<del>_</del>	25,1%
2 65	02021 Chain Link Fence and Gales	It- ma	<u> </u>	\$53,90	\$72.0	JO	~1	-9.5%
ecuoni	UZOST - Chair Entre   UZOST - Chair Link fence	lin. m		\$64.13	\$70.8	39	0	-9,570
2831	1 Supply and install chain link lence 2 Supply and install 1.07 m high 38 mm diameter galvanized	lin, m	\					
	roiling			<del></del> -			_	22.3%
3 .53.00	- Finish Cradina		T	\$6.91	\$8.	89	4 -	22.570
ection.		sq. m	1			1		-9.5%
2921.	Sod in boulevard or other disturbed areas		į	\$2.05	\$2.	27	0	-9.570
2001	sod in boulevard or other distribed areas 2 Finish grading in embankment or cut areas at back of curb	sq. m						
2921	or sidewalk	1			<del></del>			
	occat Undraulic Speding		<u> </u>	\$1.0	7 \$1	.75	2	-39.19
<u>Sectioi</u>	n 02934 - Hydraulic Seeding	sg. m	<u> </u>	4110				
<u>2934</u>	1 Hydro-seeding disturbed areas			\$6.9	91 \$13	gnl	2	-49.79
Section	n 02938 - Sodding	sq. m		\$6.9	9 410	1001		
		Cove	rs		0 \$493	02	1	45.49
Sactio	n 02950 - Planting of Trees, Surups and Ground	Leach		\$718.0	مد ا	,70	o	-9.59
		sq.m		\$1.5	''I		0	-9,5
	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	lin.m		\$1,67.7	7 \$18	3.40]		
2051	o allumination - includes conflection and care stope	THE STATE OF	.,	_				-9.5
	- aggod Cost in Place Concrete	1 au r	n	\$307.8	, ,	0,26	0	-9.5
	a 4 la gracultando de l'Introduction Cal Managaria (a construire)	cu, r	l l	\$615.6	\$68		0	-9.5
330	0.1 Miscellaneous formed 25 Mpa concrete	cu. r	1	\$381.	74 \$42	2.00	_0	-3,3
330	0.3 Retaining walls	v.sq.	ru i					
	- 0 : O-mosofo			\$257.	85 \$25	0.00	3	3.1
Section	on 03400 - Pre-Cast Concrete 00.1 Supply and install geogrid reinforced modular concrete	v.sq.	m	φ2071			1	
340	block retaining wall			\$241.	98 \$26	7.50	0	-9.5
	block retaining waii   50.2   Supply and install 690 mm high concrete roadside barrie	r   lin. i	m	1 42			1	
340	c/w bullnose			\$153		70.13	0	-9.
	00.3 Supply and install bollards	eac		\$102		3.42	<u> </u>	-9.
1	- the three light in the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state	lin.	m					
340	100.4 Noise allendation - wors trib 100.16650 - Shallow Utilities and Electrical Work			\$25	07 \$	32.75	2	-20.
Secti	on 16650 - Shallow Utilities and Electrical	lin.	m.	\$878	.07	96.67	2	-19.
166	50.1 Trenching and ducts for street lights	ea	ch	\$1,704		80.67	2	-14
166	50.1 Trenching and ducts for sheet lights 50.2 Supply and install pre-cast concrete street light bases	ea	ch			\$7.94	2	18
166	50 31Frect street light poles, david and larming	lin.	m.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		0	-9
166	50.4 Street light wiring	ea	ch	\$130,727		56.28	0	-9
400	co Elroffic cional installation complete with winning	ea	ch (	\$3,489	1.53	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
400	550.6 Relocate existing utility poles 650.7 Miscellaneous adjustments	9	6	1	1 -	1	,	
			-					

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# 2010 Utility DCC Unit Price Review Methodology

### 1. Background

The City of Kelowna DCC Utility Projects are reviewed annually to ensure that the cost estimates reasonably represent the projected cost of construction. The review process normally involves:

- For those utility projects that have been completed or that are under construction,
   the estimated costs are replaced with actual or tendered cost of construction.
- For those utility projects with advanced design complete, the preliminary cost estimates are replaced with detailed estimates (with lower contingencies) prepared by the design engineer.
- For those utility projects which have no new information available, the cost
  estimates are updated on the basis of revised unit prices. The revised unit prices are
  developed using recent City of Kelowna tender information, consultant advice and
  economic trend information.

During the time that the 2008 annual review was underway, the economy was showing signs of a downturn. While the downturn was not yet being reflected in lower pricing in City roads projects, the development community was predicting that lower prices were inevitable. Analysis of the available data as outlined above resulted in a recommendation of a 7% average increase in unit prices for 2008. After consultation with the development community, it was decided to update only those cost estimates for which better information was available (projects which had been designed, tendered and/or constructed). The cost estimates for all other projects were unchanged and unit prices were not updated from the previous (2007) rates.

A similar review took place in 2009 but again the rates were not updated. As such, the unit rates in the current DCC cost estimates are from 2007 based upon tenders received late in 2006 and early in 2007.

# 2. 2010 Unit Price Review Process

The process that has been followed in 2010 to arrive at the proposed new unit prices (attached) is outlined in this section.

 The DCC unit price spreadsheet was updated using the low bidder pricing on recent City tendered projects. For the current (2010) update, the following tenders were included:

- Glenmore Bypass
- Clifton/Highland Dr (Water & Storm Main and Retaining wall)
- Gordon Dr.
- BC Trade Waste Treatment Plant Lift Station and Force Main
- Highway 97 Widening
- Highway 33 Upgrading
- 2. Items showing a very large percentage change in unit costs were analyzed. For these either:
  - The average of all (rather than low only) bid prices was used, or
  - Outlier bids were dropped (only where a minimum of two other tender prices are available) and the average of the low tender prices on the remaining projects were used.
- 3. For pricing of items with incremental sizes (e.g. pipe and manholes) a further test was applied. If unit prices did not steadily increase as the size increases, a cost curve was developed and the individual unit prices smoothed to fit the curve. This helped to remove bidding anomalies from the analysis.
- 4. Line items which together comprise 80% of the total program costs were identified and the average percentage change in costs of these items was calculated. The average cost decrease for these items based on recent tender data is 14.8%.
- 5. Items for which no recent City tender data is available were deflated by this same 14.8%.
- 6. The new unit price model was tested by using it to update the costs of all the representative DCC Sewer Utility projects Estimates. The revised unit prices resulted in an average cost decrease on all current DCC Sewer Utility projects (exclusive of land) of 8.0%

816% II	nflation Rate	We see	2010 DCC's	2007 DCC's	COL		010 Low s. 2007
MCD Ref	Item Description	Units	(Ave Low)	20070003	000		DCC's
aitom S	ewer - Average Annual Cost Inflation of Tendered Items			<u>وي ما دو او دو او دو استان و دو است</u> و	a almayo . Sa a agrandada ag		a <u>a a ja negoriko majoran</u>
	Mänholes		\$1,200.00	\$1,385.00	)	1	
	Top Slab, Frame & Cover	ea.	\$1,040.00				
	Base & Top Slab	ea.	\$570.00	0			
	Frame & Cover	ea.	\$560.00			3	
	Adjustable Frame & Cover	ea.	\$1,770.00		0	1	-25.3%
	Base, Lid & Casting (1050 dia)	ea.	\$3,770.00			1	
Ì	Base, Lid & Casting (1200 dia)	ea.	\$4,240.00			1	
	Base, Lid & Casting (1350 dia)	ea.	\$4,360.00				
	Base, Lid & Casting (1500 dia)	ea.	\$4,610.00				
	Base, Lid & Casting (1800 dia)	ea.	\$430.00		00	2	-13.19
	Riser Sections, 1050mm dia	w.w	\$630.00				
	Riser Sections, 1200mm dia	v.m	\$740.0	_		1	-4.5
	Riser Sections, 1350mm dia	v.m	1			'	
	Riser Sections, 1500mm dia	v.m		·			
	Riser Sections, 1800mm dia	v.m			00	1	
	Overbuilt MH (1050 dia Base, Lid, & Casting)	ea.			na	' {	
	Manhole Outside Ramp Structure	v.m			.00	1	
	Manhole Outside Drop - 200mm (Additional MH Cost)	ea.			00	1	-2,5
	Manhole Inside Ramp Benching	ea.			.00	1	l
	Manhole Inside Prop Structure (Additional MH Cost)	ea.			.00	1	-14.9
		ea.		-		3	-33.
	Clean Out Remove & Dispose of Manholes	ea					-54.
	Abandon Existing Manhole (fill w/CDF-crush & remove cover)	ea			),00	1 .	
		ea			* 00	2	0.
	Adjust Ex MH Lid  Adjust Ex MH c/w New Frame & Cover	ea	\$870.	.00 \$86	0.00	2	
7.4n - 1			ľ	*4.00	r 00		-15.
02731	Connections to Existing Sewer	ea					8.
1	Connect to ex Stub (coupler)	ea	ş. \$1,700			2	-14
	Tie to Ex MH & Re-Bench	ea					135
	Tie into ex main w/ new overbuilt MH	e	a. \$3,000	0.00 \$1,27	5.00	. 1	100
	Tie to existing pipe						
02731	Sanitary Sewer Main (SDR 35)	r	n \$100			1	1
1	150mm in SRW, 0 - 3.0m depths	r	m \$10!				
1	200mm in SRW, 0 - 3.0m depths	1	]	5.00			1
	200mm in SRW, 3.0 - 4.0m depths	1	111 [	5.00	٥٣ ٥٥		-
	200mm in SRW, 4.0 - 4.5m depths	!	111 }		95.00		
1	150mm, 0 - 3.0m depths		[]1		10.00		-2
1	150mm, 3.0 - 3.5m depths		111		30.00		
1	200mm, 0 - 3.0m depths		111		45.00		
	200mm, 3.0 - 3.5m depths		m [		275,00		
	200mm, 3.5 - 4.0m depths		114		305.00		
	200mm, 4.0 - 4.5m depths			45.00 \$3	355,00	}	ł
	200mm, 4.5 - 5.0m depths		•				

(13)6%	Inflation Rate					2010 Low
	THE REPORT OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF		2010 DCC's	007 DCC/s	COLUNIT	vs. 2007
MMCD	Item Description	Units	(Ave Low)	007/2003	JOURN ST	DCC's
Ref		m	\$170,00	\$280.00	3	-39.3%
	250mm, 0 - 3.0m depths	m m	\$200.00	\$285.00		
	250mm, 3.0 - 3.5m depths	m	\$205.00	\$340.00	2	-39.7%
	300mm, 0 - 3.0m depths	m	\$225.00	\$325.00		i
	300mm, 3.0 - 3.5m depths	m	\$235.00	\$385.00	2	-39.0%
	375mm, 0 - 3.5m depths	m	\$320.00	\$430.00	2	-25.6%
	450mm, 0 - 3.5m depths	m	\$410.00	\$505.00	2	-18.8%
	525mm, 0 - 3.5m depths	m	\$480,00	\$555.00	2	-13.5%
	600mm, 0 - 3.5m depths	m	\$560,00	\$640,00	2	-12.5%
	675mm, 0 - 3.5m depths	m	\$640.00	\$760.00	2	-15.8%
	750mm, 0 - 3.5m depths	m	\$790.00	\$1,025.00	2	-22.9%
	900mm, 0 - 3.5m depths	m	\$950.00	\$1,500.00	2	-36.7%
	1050mm SDR 41, 0 - 3.0m depths	m	\$1,120.00	\$2,235,00	2	-49.9%
	1200mm SDR 41, 0 - 3.0 depths	m	\$1,350.00	\$2,470.00	2	-45.3%
	1200mm SDR 41, 3.0 - 4.0 depths	m	\$41.00	\$70.00	1	-41.4%
	Removal & Disposal of Ex. Mains, all diameter & depths	m	\$19.00	\$27,00		ļ
1	Abandon existing sanitary main (fill with CDF)	ea.	\$6,100.00	\$8,800.00		1
	Temporary Main Bypass		\$195.00		1	
	Pipe Anchors	ea.				
02731	Services & Fittings	m	\$90.00	\$180.00	1	-50.0%
	100mmø SDR 28, all depths	m	\$60.00	\$159.00	)	
	100mmø SDR 28 (pipe in common trench with water service)	ea.	\$180.00	\$210.00	)	
	100mmø Inserta Tee on ex main		\$100.00	\$155.00	)	
	150mmø SDR 28, all depths	m	\$170.00		)	
1	150mmø SDR 28 (pipe in common trench with water service)		\$740.00		) 1	34.5%
1	IC (100 mm)	ea.	4990 00		0 1	25,4%
	IC (150 mm)	ea.	\$160.00	•	0 .	:
	Brooks Box	ea.	\$630 OU		0	
	IC (100 mm) c/w Brooks Box	ea.	\$1.250.00		0 .	
ŀ	IC (150 mm) c/w Brooks Box	ea.	\$120.00			
	Wye (150øX100ø)	ea	¢135 M		Ю	
1	Wye (200øX100ø)	ea	\$145 M		10-	
	Wye (250øX100ø)	ea	\$205.00			
l	Wye (300øX100ø)	ea	450E V		00	
l	Wye (375øX100ø)	ea	433E VI		1	
	Wye (525øX100ø)	ea	\$140.0		00	
	Wye (200øX150ø)	68	" ¢155 N		00	
- {	Wye (250øX150ø)	ea	" ¢220 0			
1	Wye (300øX150ø)	ea	"   ¢420.0		. 1	
- 1	Wye (525øX150ø)	ea	. 623U U		1	,
<u> </u>	Wye (525øX200ø)	ea	** \$205 C		00	
1	150mm Grade Riser	98	41/15(			
Į.	100mm Grade Riser	e	" e1 250 (			
	100mm service conn (c/w IC, 10m SDR 28 pipe, Wye)	93	a.	-		,

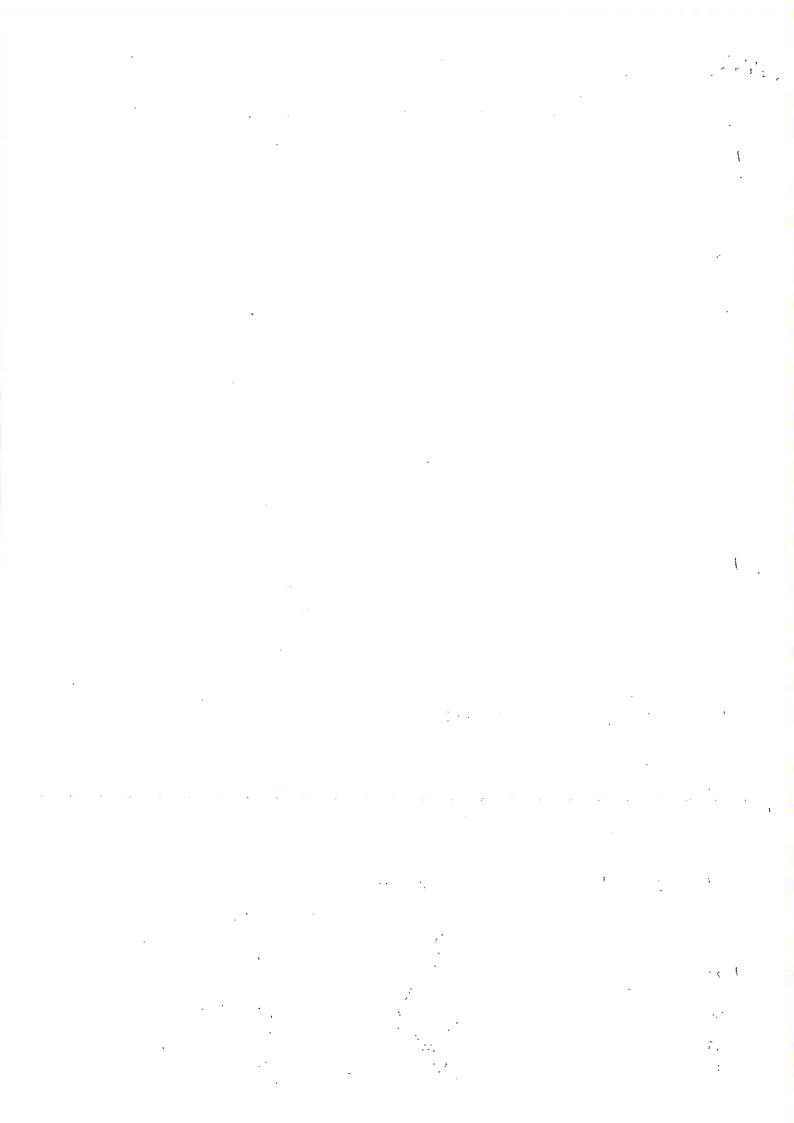
0 E46%	Inflation Rate					0010
MMCD Ref	Item Description	Units	2010 DGC's (Ave Low)	2007 DCC's	COUNT	2010 Low vs. 2007 DGC's
	150mm service conn (c/w IC, 10m SDR 28 pipe, Wye)	ea.	\$1,710.00	\$1,980.00		
	cap ex service at main	ea.	\$770.00	\$890,00		
	Coupler - 250mm	ea.	\$100.00	\$115.00	1	
	Coupler - 300mm	ea.	\$115.00	\$135.00		
	Coupler - 1200mm	ea.	\$1,620.00	\$1,875.00		
	End Cap, 100mm	ea.	\$22.00	\$26,00		
	End Cap, 200mm	ea.	\$175.00	\$200.00	:	
	End Cap, 250mm	ea.	\$240.00	\$275.00		
	End Cap, 300mm	ea.	\$285.00	\$330.00		
	End Cap, 1200mm	ea.	\$4,400.00	\$5,100.00		
	Temporary Service Bypass	ea.	\$480.00	\$550.00		
	50mm Service Connection at Forcemain	ea.	\$600.00	\$695.00		
	50mm HDPE DR 17 (38mm ID) Municipal Tubing	m	\$53.00		2	
02732	Sanitary Forcemains		· · ·			₹
Comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the comment of the commen	200mmø PVC Forcemain, 0 - 3.00m depths	m	\$160.00	\$295.00	1	-45.8%
	350mmø PVC Forcemain, 0 - 3.00m depths	m	\$215.00	\$355.00	1	-39.4%
	400mmø PVC Forcemain, 0 - 3.00m depths	m	\$245.00	\$395.00	1	-38,0%
	450mmø PVC Forcemain, 0 - 3.00m depths	m	\$275,00	\$430.00	1	-36.0%
	Air Valve Chamber	ea.	\$12,500.00		1	
	Check Valve Chamber	ea,	\$7,700.00		1	ĺ
	Forcemain Cleanout	ea.	\$3,310.00	•	1	
		ea.	\$2,290.00		1	<u> </u>
	200mm Plug Valve (c/w VB & Riser) 200mmø bend	ea.	\$460.00	\$845.00	1	-45.6%
02746	Lift Stations					
92790	Site Works	L,S.	\$6,500.00		1	}
	Supply and Install Tank	L.S.	\$170,000.00	\$375,000.00	1	-54.7%
	Supply and Install Flow Meter Chamber	L.S.	\$13,000.00	•		-35.0%
	Electrical	L.S.	\$70,000.00	\$132,000.00		-47.0%
	Communications	L,S.	\$13,000.00		1	
	Commissioning and Testing	L.S.	\$5,770.00	\$3,525.00	) 1	63.7%
	Gen Set	L.S.	\$50,000.00			-16.7%
4.	Transformer	L.S.	\$6,000.00	/	1	
	1	L.S.	\$40,000.00		1	
	Additional Depth & Capacity	L.S.	I	\$615,000.00		-36.1%
	Total Lift Station (Small)	L.S.	\$14,500.00			
	Tie into existing well	L.S.	\$5,900.00			
000001	Removal & Disposal of ex Wetwell LS			ψ0,000,00		
02666	Waterworks - Average Annual Cost Inflation of Tendered Item	J	1.			
i i	Watermain	m	\$100.00		2	1
	100mm	m	\$125.00		2	
	150mm	m	\$90.00		1	
	200mm	m	\$105.00		1	
	250mm	m	\$120.00		1	
1	300mm	111	1 4120.00	•	ı	i

MCD Ref	Item Description	Units	2010 DCC's (Ave Low) 2	007 DGC's COUNT	2010 Lov vs. 2007 DCC's
	350mm	m	\$140,00	1.	
	400mm	m	\$160.00	1	
	450mm	m	\$180.00	1	ļ
	500mm	m	\$195.00	1	
	600mm	m	\$310,00	1	,
	750mm	m	\$415.00	1	
	900mm	m	\$510.00	1	
	1050mm	m	\$630.00	1	
	1200mm	m	\$750,00	1	
	1350mm	m	\$890.00	1	
	Heat Shrink Wrap Joints	ea.	\$49.00	11	-12
	Services		4070.00		
	200mm x 19mm Saddle, Corp & Curb Stops, coupler	ea.	\$270,00	1	
	19mm Service Pipe	m	\$53.00	1	
	200mm x 38mm Saddle, Corp & Curb Stops, coupler	ea.	\$1,000.00	1	
	38mm Service Pipe	m	\$75.00	1	<del> </del>
	Fittings		\$275.00		
	Bend - 100mm	ea.	l	1 1	
	Bend - 150mm	ea.	\$315.00	ι 2	
	Bend - 200mm	ea.	\$450.00		
	Bend - 600mm	ea.	\$2,060.00 \$370.00	1 2	ļ
	Reducer - 200 x 100	ea.	\$425.00	2	
	Reducer - 250 x 150	ea.	1		
	Reducer - 250 x 200	ea.	\$475.00	2	
	Flexible PVC Joint - 150mm	ea.	\$980.00	1	
	Coupler - 100mm	ea.	\$135.00	1 1.	1
	Coupler - 150mm	ea.	\$250.00	. 4.	· `
	Coupler - 200mm	ea.	\$185.00	· I	Ì
	Coupler - 250mm	ea,	\$250.00	1	
	Tee - 150 x 150 x 150	ea.	\$490.00	1	
	Tee - 200 x 200 x 100	ea.	\$580.00	1	
ç	Tee - 200 x 200 x 150	ea.	\$540.00	2 .	
	Tee - 200 x 200 x 200	ea.	\$590,00	2	ļ
	Tee - 600 x 600 x 150	. ea.	\$2,790.00	1	1
	Pipe / Fitting Joint Restraints - 100mm	ea.	\$100.00	1	}
	Pipe / Fitting Joint Restraints - 150mm	ea.	\$145.00 \$170.00	2 2	
	Pipe / Fitting Joint Restraints - 200mm	ea.	\$170.00	4	1
	Pipe / Fitting Joint Restraints - 600mm	ea.	\$195.00	1	ļ
	End Cap c/w TB - 100mm	ea.	\$260.00	· 1	
	End Cap c/w TB - 150mm	ea.	\$305,00	1	
	End Cap c/w TB - 200mm	ea.	φ303,00		

-1816%	Inflation Rate	, 45,57				
MMCD Ref	Item Description	Units	2010 DCC's (Ave Law)	2007 DCC's	COUNT	2010 Low vs. 2007 DCC's
	Gate Valve - 150mm	ea.	\$910.00		3	
	Gate Valve - 200mm	ea.	\$1,280.00		2	
	Gate Valve - 250mm	ea.	\$2,070.00		2	
	Gate Valve - 300mm	ea.	\$3,330.00		2	
	Gate Valve - 600mm	ea.	\$8,700.00		2	
	Air Valve Chamber (25mm AV off 200mm main)	ea.	\$3,500.00		1	
	Air Valve Chamber (100mm AV off 600mm main)	ea.	\$19,500.00		1	
	Adjust Ex'g Valve Boxes to new grade	ea,	\$100.00		2	
	Remove Abandoned Gate Valve and plug pipe ends	ea.	\$305.00		1	
	Tie Ins		,			
	Tie in to Ex main - 200mm (no fittings)	ea.	\$1,220.00		1	
	Tie in to Ex main - 600mm (no fittings)	ea.	\$5,500.00		1	
	HOT TAP for Tee with 150mm Branch c/w 150mm Gate Valve	ea.	\$3,500.00		2	
	Hydrants					
	Complete Hydrant Assembly	ea.	\$3,780.00		2	
	Relocate Fire Hydrant	ea.	\$1,880.00		2	
	Watermain Undercrossings		Ť.			
	150mm Casing Pipe	m	\$150.00	\$175.00		
	200mm Casing Pipe	m	\$210.00	\$245.00		
	350mm Casing Pipe	m	\$270.00	\$315.00		
	100mm, Flex Joint	ea,	\$970.00	\$1,475.00	1	-34,2%
	150mm, Flex Joint	ea.	\$1,190.00	\$1,475.00	1	-19.3%
	200mm, Flex Joint	ea.	\$1,460.00	\$2,365.00	1	-38.3%
	250mm, Flex Joint	ea.	\$1,700.00	\$2,365.00	1	-28.1%
	300mm, Flex Joint	ea.	\$2,050.00	\$3,925.00	1	-47.8%
	100mm, U-Bend	ea.	\$2,040.00	\$2,365.00	-	
	150mm, U-Bend	ea.	\$2,340.00	\$2,705.00		
	200mm, U-Bend	ea.	\$2,630.00	\$3,045.00		
	250mm, U-Bend	ea.	\$3,070.00	\$3,555.00		
	300mm, U-Bend	ea.	\$3,650.00	\$4,230.00		
	100mm, Hand Dig	ea.	\$255.00	\$295.00		
	150mm, Hand Dig	ea.	\$255,00	\$295.00		
	200mm, Hand Dig	ea.	\$285.00	\$330.00		
	250mm, Hand Dig	ea.	\$285.00	\$330.00		
Addition	al Miscellaneous Items - Average Annual Cost Inflation of Te		També de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya del companya de la companya del companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de l			And the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s
	Mobilization & Demobilization	%	8,2%		4	
	Bonding & Insurance	%	1.5%		1	
5,50	· ·	l.m	\$90.00	\$105.00	-	
	Restoration (sod), based on property frontage		\$30,000.00	\$35,000.00		
	Land Acquisition - Major	L.S.	\$8,500.00	\$10,000.00		
	Land Acquisition - Minor	L.S.	\$180.00	\$210.00		
	Security	Day	ł			
	Utility Exploration	Day	\$1,200.00	\$1,385.00		
	Construction Fencing	l.m	\$12.00	\$14.00		

13:6%	Inflation Rate				A PROPERTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRES	COSOL
MMCD	Law Bacadation	Units	2010 DCC's	2007 DCG/s	COUNT	2010 Low vs. 2007
Ref	Item Description		(Ave Low)	5.0/1000		DCC's
01535	Field Office	week	\$570.00	\$660.00		
01570	Traffic Management (minor roads)	week	\$1,990.00	\$2,305.00		
01570	Traffic Management (major roads)	week	\$10,500.00	\$12,000.00		
02223	Re-use suitable site material in trench	cu. m	\$10.00		2	
02223	Dewatering - Pumps	t.m	\$31.31	\$60.00	1	-47.8
02223	Dewatering - Well Points	l.m	\$70.00	\$115.00	1	-39.1
02233	Roadway base (25mm-), 150mm thickness	sq. m	\$6.90	\$8.00		
02233	Roadway base (25mm-), 100mm thickness	sq. m	\$5.20	\$6.00		
02233	Roadway base, 75mm thickness	sq. m	\$6.00	\$7.00		
02233	Shoulder Gravel & Gravel Driveways, 50mm thickness	sq. m	\$5.20	\$6.00		
02234	Granular subbase, 300 minus	cu. m	\$31.00		1	
02234	Granular subbase, 150 minus	cu, m	\$28.00		2	
02234	Granular subbase, 150mm minus, 200mm thickness	są. m	\$10,00	\$11.00		
02234	Granular subbase, 150mm minus, 350mm thickness	sq. m	\$13.00	\$15.00		
02234	Granular subbase, 75mm minus, 200mm thickness	są, m	\$8.00	\$9.00		
02235	Unsuitable Trench Material, Removal & Disposal	cu. m				
	Unsuitable Trench Material, Import 150mm minus Pit Run	cu. m				
	Unsuitable Trench Material, Supply & Place Drain Rock	cu. m	\$26.00	\$55.00		
	Unsuitable Trench Material, Supply & Place Drain Rock	l.m	\$20.00		1	
02236	1	cu. m	\$150.00	\$225,00		-33.
	Controlled Density Fill				ı	
	Asphalt lower course, 60 mm	sq. m	\$14.00		2	
02512	Asphalt surface course, 40 mm	sq. m	\$9.00		2	
02512	Asphalt surface course, 100 mm	sq. m	\$19.00	\$22.00		
02512	Asphalt Driveways, 50 mm	sq. m	\$19.00	\$20.00	1	<b>-</b> 5.
02512	Asphalt Hwy Crossing - bottom lift (50mm)	sq. m	\$15.00		1	
02512	Asphalt Hwy Crossing - top lift (50mm)	sq. m	\$15.00		, 1 [°]	
02512	Asphalt Superpave Base Course (60mm)	sq. m	\$16.00	•	1	:
02512	Asphalt Superpave Surface Course (40mm)	sq. m	\$11.00		· 1	
02512	Asphalt Superpave Surface Course (50mm)	sq. m	\$15.00	!	' 1	
02512	Asphalt Leveling Course	tonne	\$115.00		2	
02512	Asphalt Superpave (upper & lower course)	tonne	\$105.00		1 .	
02512	Asphalt Pathway (50mm - including gravel)	są. m	\$21.00		2	
02512	Asphalt Sidewalk	sq. m	\$30,00	ı	1	
02512	Asphalt Sawcutting, < 100 mm depth	l.m	\$5.40	\$8.00	5	-32.
02512	Concrete Sawcutting	l.m	\$2,00		1	
02523	Barrier Curb & Gutter, c/w driveway & wheelchair drops	l,m	\$56.00	\$65,00	)	
02523	Roll-Over Curb & Gutter	1.m	\$105:00	\$120.00	) .	
02523	Removal of Concrete Walks & Driveways	sq. m	\$9.00	\$16.00	) 2	-43.
02523	Removal of Concrete Curb & Gutter	I.m	\$12,00	\$21,00	2	-42.
02523	Removal of Catch Basins	ea.	\$275.00	<b>)</b>	. 1	
02523	Curb & Gutter - Hand Formed c/w base & sub-base	l.m	\$85.00	\$100.00	)	
02523	Concete Driveways, 150mm thick	sq. m	\$100.00	\$115.00	) 2	-13.
0252	Stamped Concrete In Medians	sq. m	\$95,00	) .	1	-

-13.6%	Inflation Rate					
MMCD Ref	Item Description	Units	2010 DCC's (Ave Low)	2007 DCC's	COUNT	2010 Low vs. 2007 DCC's
02523	Stamped Concrete In Boulevards (c/w gravel base)	sq. m	\$90,00		2	
02523	Exposed Aggregate Concete, 150mm thick	sq. m	\$160.00	\$115.00	1	39.1%
02574	Asphalt Removal, Following Milling	sq. m	\$0,80	\$0.90		
02574	Asphalt Removal, all depths	sq. m	\$6.00	\$4.20	1	42.9%
02574	For Stepped Joint, ex pavement depth > 75 mm	l,m	\$42.00	\$49.00		
02721	Break in & tie into ex drywell	ea.	\$940.00	\$1,085.00		
02721	250 mm dia Catch Basin Lead	m	\$110.00	\$130.00		
02723	Culvert - 400mm CMP	m	\$115.00	\$120.00	1	-4.2%
02723	Culvert - 500mm CMP	m	\$130.00	\$150.00		
02723	Culvert - 800mm CSP	m	\$500.00		1	
02723	End Wall - 800mm Culvert	ea.	\$1,100.00		1	
02723	Pre-cast concrete endwalls, all diameters	ea.	\$1,290.00	\$1,495.00		
02725	Catchbasin, double inlet	ea.	\$1,680,00	\$1,945.00		
02526	Trenchless Pipe Installations (500mm casing c/w 200mm PVC pipe, twin 50mm ducts, restrainers, spacers, dewatering, pits, Permit for Railway Crossing	I.m LS	\$1,010.00	\$1,675.00	1	-39.7%
02831	Wooden Fence	l.m	\$110.00	\$105.00	1	4.8%
	Concrete Driveway Restoration - removal, disposal, replace	sq. m	\$110.00	\$130.00	J	





20 YEAR SERVICING PLAN AND FINANCING STRATEGY – 2030 REVIEW

# EXIBITS A-E

# CITY OF KELOWNA 2030 TRANSPORTATION SERVICING PLAN & FINANCING STRATEGY (2010) COST SHARING MODEL

California   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Information   Art   Infor	CAMPAIN   TAKA   TAKA   SPORITATION								7 860.9	25 7,4417	ICHAIL		On Hollywd Bridge - Francis Cr.
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Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Decided   Deci	DAMES			14.5		794		       			- 1	Highway 33 - McCurdy Road	_
EXMERS	CHAIRIT - N. TIRANSPORMANO	 						000				Spall Road - Figures so	-
EXMERS   No.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVARISH NO.   INVA	CAMPANIA			817		711.						Cidillative Moderna 33	-
EXMISSI No.   INVASOR NO.   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971	CHAIRIT 'A'. TRANSPORTATION   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.   CONT.			AT.1		11,641.					1	Clament - Mountain	-
EXMERIT No. = INVESTMENT NO. NO.	CAMBRIT NA. TRANSPORTATION   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.   Cont.			10.0		231		166	T			Ellis - Graham	-
Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Catallette   Cat	CAMBILLANI, TRANSPORTATION   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Contr	22.				543		464		1	1	Sutherland - Harvey Ave	-
Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Catally   Cata	Exhibit A' - IRANSPORIATION	4.4		10.1		40.		13.		-	- 1	KLO Road - Byrns Road	.  -
CAMBRIT A - INACES NATION   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   California   Cal	52		11.0		Juc.		120.		4.630.2	- 1	Casorso Road - KLU Road	-
Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Cont	Childian   A Transferont   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty   Courty			林本	N	189.0				9260	B'ADAL	Glenmore Highlands - Glenmore	_
Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Cont	EXHIBIT A.* . TRANSPORTATION	4,6		11.2		1,130,8			T	2,247.2	RCUZĹ	Clarence Company	
PANISITA - INVASCUANCE   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PANIS   PAN	EXHIBIT A' . TRANSPORTATION   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701   1701												
EXHIBIT	EXHIBIT 'A' - TRANSPORTATION			1				1,000	+,684.1	24.248.2			п
EXHIBIT	EXHIBIT "A" - TTRANSPORTATION    TOTAL			P.F.		7,714.2					ш	Appaloosa - Quail Ridge	n
EXHIBIT	EXHIBIT 'A''. TRANSPORTATION    1971   50   100000   100000   100000   100000   100000   100000   100000   100000   100000   100000   100000   100000   100000   100000   100000   100000   100000   100000   100000   100000   100000   100000   100000   100000   100000   100000   100000   100000   100000   100000   1000000   100000   100000   100000   100000   100000   100000   1000000   100000   100000   100000   100000   100000   100000   1000000   100000   100000   100000   100000   100000   100000   1000000   100000   100000   100000   100000   100000   100000   1000000   100000   100000   100000   100000   100000   100000   1000000   100000   100000   100000   100000   100000   100000   1000000   100000   100000   100000   100000   100000   100000   1000000   100000   100000   100000   100000   100000   100000   1000000   100000   100000   100000   100000   100000   100000   1000000   100000   100000   100000   100000   100000   100000   1000000   100000   100000   100000   100000   100000   100000   1000000   100000   100000   100000   100000   100000   100000   1000000   100000   100000   100000   100000   100000   100000   1000000   100000   100000   100000   100000   100000   100000   1000000   100000   100000   100000   100000   100000   100000   1000000   100000   100000   100000   100000   100000   100000   1000000   100000   1000000   1000000   1000000   1000000   10000000   1000000   1000000   1000000   1000000   1000000   1000000   100000000							242.2	6.383,7	10.639.1	Ų	Sexemith Road - Appaicosa	n
EXHIBIT No.   INAMES NATION	EXHIBIT 'A'' - TRANSPORTATION    10714   51   1940   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040   1040			100		246,5		93	159.7	1,998.0		Station (2+300 - Station in 19-	ш
EXHIBIT   R IMANS PANA PANA PANA PANA PANA PANA PANA P	Exhibit   Ya   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Transfer   Trans			6	ir.	21.7		100		2,747,7		Capper 12+750	m
EXHIBIT   A. INVISIONALIA   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary   Secretary	Exhibit   'A' - TRANSPORIANION			100	Tab.	2,017.8		2,016.8		1,767.8	1	Station 11+900 - Station 12+300	<u></u>
EXHIBIT OF INVESTMENT NAME   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971   1971	EXHIBIT 'A' . TRANSPORTATION    Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Cont				100	2,322.0		2,320.9		1,3853	1	Station 11+340 - Station 11+900	ļ.,,
EXHIBIT A . INVANOS VILLES   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871   1871	EXHIBIT "A' .TRANSPORTATION    Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Contr	4000				0.108	0.5	957.3		- Control	1	Glenmore Rd - Station 11+340	ŀ
Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   C	EXHIBIT "A' - TRANSPORTATION    1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001   1001	839 9			300	2, 140,7	1.1.1	2,145.3		Trees	- 1	Hollywood Road - Highway 97	۱,
EXHIBIT A - IRMANO MANO   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   10	EXHIBIT "A" TRANSPORTATION    TOTAL	346.4			779	2 1 46 4			161.7	1 816.7	- 1		
CAMERIT No.   INAMESTONIA INTERNATION   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONTROL   CONT	EXHIBIT 'A' . TRANSPORTATION    Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Cont	776,4		A.	1,363	1.9		111111111111111111111111111111111111111	10000	Section 2			
EXHIBIT N	EXHIBIT "A" - TRANSPORTATION	1,383,1			11.00	0.000			6,964.2	Seamon		Mrken . Callachii	
EXHIBIT No INANO-CONTON   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	EXHIBIT 'A' - TRANSPORTATION				12.894	2 306 E				22 424.3	NOOSE TO	Lago Vista - Gallagher Rd	Callacher 1
EXHIBIT No INANO-ENVILOUS   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000	EXHIBIT 'A' - TRANSPORIATION				2004	2 400 0			6,964.6	8.003.8	18.0	Highway 33 - 500m east	,
EXHIBIT A - IRABES DATA   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recorded   Recor	EXHIBIT 'A" - TRANSPORTATION		, , , , , , , , , , , , , , , , , , ,		1,214	4.9				2,877.7	122		6
EXHIBIT   A - INVISCUENTIAL	EXHIBIT "A" - TRANSPORTATION   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL   TOTAL	224.1		1	TANK	11.6	200			T. Section 1	RAUZL	Craig Rd - Tower Ranch (Dylpr Crdt)	
EXHIBIT   A   INCARSIT COLUMN   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Colum	EXHIBIT 'A' - TRANSPORTATION	868.1	2.		- Constitution					0.376.0			
EXHIBIT   A.   INCARSIT COLUMN   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   1	EXHIBIT "A" -TRANSPORTATION		5,488.9		2.486.1				6,688	26,703.0			
Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Control   Cont	EXHIBIT "A" - TRANSPORTATION		1		Gient	2,389.5	1252	tout			1.1	Swamp - Crawlord Re	d *B Stewart 3
EXHIBIT   A   INVINST VILLE	EXHIBIT "A" - TRANSPORTATION   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers   1000,000 Revenue Southers		Fills							6.443.1		Old Minddows	
EXHIBIT   A   INVINST CALLEY	EXHIBIT "A" - TRANSPORTATION				6,406.0	36.3	36.3		602.9	4,438.5	ì	Comme Dellari	
EXHIBIT A - INCANSTALL   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	EXHIBIT "A" - TRANSPORTATION		3,491.8		1,500	1,772.3	20.7	1,751.6		1,628,4	1	Crassing - Bellevue Creek	
EXHIBIT	EXHIBIT "A" - TRANSPORTATION    NON DEC REFERRE SOURCES   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondar		3,653.5			3.0	8.0			0.00000	١.	Dehart Rd - Vintage Terrane	
EXHIBIT A   INVINSTITUTE	EXHIBIT "A" - TRANSPORTATION		1,420.2		1 420.2	190,0	23.8	766.7		2 400 5	Ų	Crossing - Bellevue Creek	
EXHIBIT A - INCANSTOLIA   1001   1000 DOCS REFERENCE SOLUCES   1000 Docs RAVI   1000 DOCS REFERENCE SOLUCES   1000 Docs RAVI   1000 DOCS REFERENCE SOLUCES   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI   1000 Docs RAVI	EXHIBIT "A" TRANSPORTATION		4,207.8		4,207.5	a out	2.0			200	- 1	Lakeshore Road - Gordon Drive	- 1
Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part	EXHIBIT "A" - TRANSPORTATION		482.0		452.0	26	9	10,8		4.719.4	- 1	Widening bridge to 4 large	- 1
NAME   100ATION   Semintification   100ATION   Semintification   100ATION   Semintification   100ATION   Semintification   100ATION   Semintification   100ATION   Semintification   100ATION   Semintification   100ATION   Semintification   100ATION   Semintification   100ATION   Semintification   100ATION   Semintification   100ATION   Semintification   100ATION   Semintification   100ATION   Semintification   100ATION   Semintification   100ATION   Semintification   100ATION   Semintification   100ATION   Semintification   100ATION   Semintification   100ATION   Semintification   100ATION   Semintification   100ATION   Semintification   100ATION   Semintification   100ATION   Semintification   100ATION   Semintification   100ATION   Semintification   100ATION   Semintification   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION   100ATION	EXHIBIT "A" - TRANSPORTATION		18333		1,033	86.1	90			2,743,7	- 1	Benvoulin - Swarre	
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					2000		2,348.	1,481	25-30		Zamway Haus Gussellini	1 Hollywd 6 - AT	Q
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Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   C					72.6		75	100.1			Highway 97 - Railway Track	Hollyware-Si	9
Marie   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   10041   1004					145.3		144.	2001			Stremel - Highway 97	Hallowd 4 - AT	3 18
				1	267.8		266.	1			McCurdy Road - Streme	Hollywd 3 - AT	2
				1	110.5		1154	157.0			Scenic - EAA Colliscond	Glenmore 5 - AT	8
					1162		7-604	4.076.2	36	RAUZL	Socric - EW Connector	( Glenmore 4 - A)	22
					2,978.5		2 082 6	7.007.0	38	UAD4L	Hìgh - Dallas	· Classical AT	- F
	1,0				5,186.0		5,138.7	Contract of	1	UAUAU	Clement - High	1 Glanmore 3 - AT	3
Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Marie   Mari					4,230,0		4.215.6	276.2			Morrison - Kaymer	Ethel 4 - AT	ō
	4 83				0 000		7,749.4	2.350.2		UCU2L	Spinghes men	Ethel 3 - AT	ਰ
	1.50				1.758.5		B	2,069.5		UCUZL	Springfield - Morrison	Ethel Z - A	9
	82				2,189.0		2 177 4	William S.		UCUZL	Lawson - Springfield	11 12 17	1
	77			1	2,971.0		2,955.3		1	USUZL	Clement - Lawson	Fithel 1 - AT	2 /
	1.00				2,210,4		2.204.7	10017			KLO - Raymer	Casorso 4 - AT	္မ
	200				000.4		356.3	425.4		Const	Barrera - KLO	Casorso 3 -AT	ဥ
	78				2000		3,113.2	241.4		ICH2II	7050 - Cangolini C	Abbott - AT	g
	12				3 139 8		0,001.9	(FFE.T.)		UCUZL	Dana Laksehore	E Hollywd 8 - Al	2
	1.11				8,100.7		D 057 D	227.0			Appaloosa - Quail Ridge	T HORSE	E N
	2.87				1,420.5		1.413.0	1			Sexsmith Road - Appaloosa	· [	3
					113.0		112.4			750	Station 12+300 - Station 12+7		3
					145.3		144,5	4 30.		1	Station 11+900 - Station 12+3		δļ
				1	.62		128.5	170.0			Station 11+040 - oragion 11-04		2
	3 3 3				1001		0.671	245 D		300	C. C. C. C. C. C. C. C. C. C. C. C. C. C	1	2
	An o			54.2	180.8		190.0	2007			Stamper Rd - Station 11+340	1	ඩු
Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part	54.2			153.1	432.6	23		175.0			Hollywood Road - Highway 87	B Larson Z-All	-
Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   Column   C	153.7			11.3	116.2	0.6		400.4			Old Meadows - DeHart	C Labora AT	- 1
	41.3			1,000	339.0	1.8	337.2	1	1		Dehart Rd - Vintage Terrace		- 1
			120.4	The state of	305.7	1.6	305.1	215.6					_
			108,9						L		ACTIVE TRANSPORTATION		,
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					A. Commercial		17,296.7	i	196				1
	- 001000			120,1621	2000	1		I	1		Longhill - Rutland Road	Sexsmith 5	3
	120,705			- Thermooth	828.0	118.8					Glenmore Bybass - valley road	Sexsmith 3	2
				1, 386.7	9000	7.5		-		HADZL	Showsell - German Droger	Sexamith 2	ð
	7 396.5			202.2	4977	4	49.0	33.1		UADZL	Common Bypass	Rutland 2	5
	502.			0.10	50.8	1.3	A0 n	4.4		UAD2L	Cornish Road - Old Vernon Road	7000	QZ
	85.1			2,000.2	338.7	60.0		1	1	UAUZL	Pandosy - Ethel	0	3
	4,030			2000	299.3	107.2			1	UCUZL	Clifton Road - Clear Ponds Place		ا <u>د</u>
NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME   NAME				2076			285.8	_		5	Cara Gien vydy - Gillon Rusu	Ridge	Q
NAME   LOCATION   Sea   Mark   Core   Search   Mark   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   Search   S	8 700 7				1		415.8				outrelland - 1550 Board	Richter 1	8
							11.00	7.1		ı	sytherland - KLO	Pandosy 1	Q
NAME   LOCATION   Son   M)   COST   Son   M)   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   Son   M   COST   S				1.512.7	540.4	98.7	741 B	21.3		1	Raymer - Rose	MOCHETY CON CONTRACT	C
	6,632.7			1,383,1	1,338.5	35.1	1.303.3	100	1	1	COMC - Highway 97	McCurdy 2 (Dev Credit)	3
NAME   LOCATION   Sam   An   Devity   Assist   Bernary   South   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary   Secondary	2.363.1			796.4	1			1	1	- 1	Diworth - COMC	McCurdy 1	2
NAME   LOCATION   Sen   An   Devict   Assist   Benefit   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxatio	/98.4			100000	18.3	18.5				- 1	Lanfranco Road - Rionier Suger	Lakshr 4	2 -
NAME   LOCATION   Son (A)   OOUTH   Devior   Assist   Benefit   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation	700 4			1 1 1 1	10.0	6.85		-		- (	Wilson Cider - Cideonia	Lakshr Bridge - Wilson Cr.	91
NAME   LOCATION   San (h)   Oct   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   Cot   Name   C	1.246.1			2,017,3	148.0	300		7.3		ľ	William Crack - Crossing	Lakshr bridge - Mission on	5
NAME   LOCATION   Sam M)   Devidor   Assist   Benefit   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation	2,682.3			586.4	14.7	14.7				UAD4L	Mission Creek - Crossing	Lakelling	9
NAME   LOCATION   Sam   An   Devilor   Assist   Benefit   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxati	986.4			1,03.1	1.789.3	51.7		7	1	UAU2L	Righter Street - Old Meadows Ros	alcoher 2	!   <u>\$</u>
NAME   LOCATION   Son   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Major   Majo	3,4/6,1			F-200735	1,175.9	280.3				CADAC	Sutherland - Lawrence	Hwy Link-Pand 3	2
NAME   LOCATION   Sam   M)   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   Cotton   Sam   M   C	Contract									- 1	Sutherland - personal	Hwy Link-Gordon	-
NAME   LOCATION   Som (A)   Devip'r   Assist   Banefit (Taxation)   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxation   Taxatio	18 847 2			1.000.0		48.0	40,9	27			Collision	Highway 33(1)	94
NON DCC REVENUE SOURCES  NON DCC REVENUE SOURCES  Secondary Grand Total Secondary Grand Total S.E. South Re C De Havy 35 North of COMM  Cross Row COUTTAL By Highways Total Existing Sultes Paid By Oct MASED S.E. South Report Invascing Invascrity Court Report City Invascrity Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Report City Court Re	3,000.0			3,351,9	90.8	200		5			Clamant 3. Enterprise	Hollywd 6	2
NON DCC REVENUE SOURCES  NON DCC REVENUE SOURCES  Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand	3,351.9			1,568.1	1,002.5	27.8		1		ı	Rallway Track - Sexsmith Rd	Hollywo official	02
NON DCC REVENUE SOURCES  NON DCC REVENUE SOURCES  FOR A B C D E Soundary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Secondary Grand Total Sec	1.869.1			349.0	229.2	5,2	224.0		TMC1.	1	Mill Creek - Crossing	Will Cr	
NON DCC REVENUE SOURCES  NON DCC REVENUE SOURCES  Pad By Highways Total Existing Subse Pad By DCC IASED S.E. South Near City Imner City  Sect NAME LOCATION Sum (h) COSTS Devicy Assist Benefit (Taxation) Taxation CALC's Kelowina Mission Imner City Imner City  Operation (Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner City Inner	349.0			10.00	395.8	90	386.1		1000	Ш			
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NON DCC REVENUE SOURCES    NON DCC REVENUE SOURCES   NET FORM   NET FORM   NET FORM   NE of Hwy 33 North of Horn City					1	41D			$\neg$	- 11		NAME	uarte Sect
NON DCC REVENUE SOUNCES  NON DCC REVENUE SOUNCES  Secondary Grand Total  Secondary Grand Total  S.E. South NE of Hwy 33 North of S.E. South NE of Hwy 33 Inger City  Factor Countries  For Highways Total Existing Subsets Paid By CCC MASED. S.E. South Neer City  Factor Countries  Countries  For Highways Total Existing Subsets Paid By CCC MASED. S.E. South Neer City  Factor Countries  For Highways Total Existing Subsets Paid By CCC MASED. S.E. South Neer City  Factor Countries  For Highways Total Existing Subsets Paid By CCC MASED. S.E. South Neer City  Factor Countries  For Highways Total Existing Subsets Paid By CCC MASED. S.E. South Neer City  Factor Countries  For Highways Total Existing Subsets Paid By CCC MASED. S.E. South Neer City  Factor Countries  For Highways Total Existing Subsets Paid By CCC MASED. S.E. South Neer City  Factor Countries  For Highways Total Existing Subsets Paid By CCC MASED. S.E. South Neer City  Factor Countries  For Highways Total Existing Subsets Paid By CCC MASED. S.E. South Neer City  Factor Countries  For Highways Total Existing Subsets Paid By CCC MASED. S.E. South Neer City  Factor Countries  For Highways Total Existing Subsets Paid By CCC MASED. S.E. South Neer City  Factor Countries  For Highways Total Existing Subsets Paid By CCC MASED. S.E. South Neer City  Factor Countries  For Highways Total Existing Subsets Paid By CCC MASED. S.E. South Neer City  For Highways Total Existing Subsets Paid By CCC MASED. S.E. South Neer City  For Highways Total Existing Subsets Paid By CCC MASED. S.E. South Neer City  For Highways Total Existing Subsets Paid By CCC MASED. S.E. South Neer City  For Highways Total Existing Subsets Paid By CCC MASED. S.E. South Neer City  For Highways Total Existing Subsets Paid By CCC MASED. S.E. South Neer City  For Highways Total Existing Subsets Paid By CCC MASED. S.E. South Neer City  For Highways Total Existing Subsets Paid By CCC MASED. S.E. South Neer City  For Highways Total Existence Paid By CCC MASED. S.E. South Neer City  For Highways Total Existen		891 1,557		1	1	I	Assist Beneni				LOCATION	i	Target
NON DCC REVENUE SOURCES B C D E South NE of Hwy 33 North of Secondary Grand Total Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Secondary Control of Seconda		Inner City					Highways Total Existing						
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			, , ,	T SHOW		ES	NON DCC REVENUE SOURCE						

	25	25	25	25	25	Common									
-1				46	ے	Sartin	r Sa Mtr:	stitutional - per Sq Mtr:							
1	2 340	27,340		= 203	10 4%	Tetal Reads									
_		18,600	18,600	18,600	18,600	Common	ectare:	industrial - per nectare:							
4						The second									
-				71	26	Total Bayes									
	5 25 25	25 12	25 23	25	25	Sentin	r Sq Mtr:	Commercial - per Sq Mtr:							
4.															
-	94		126	200	8	Sector	1	1							
		31 66	66 J	123 66	n	Sector	ar Sq Mtr:	Residential 5 - per Sq Mtr:							
45 6					-	1000									
	8 720	4,74	0.00	13 570	4,744	Common									
			4,260	8,826	219	Bettor		Residential 4:							
4									77-						
			9.576	14,432	5 278	Total Roads									
	2,101	2,373 5,045	4,530	9,386	5 233	Section		Fundential 3:							
rit.															
			43 435	20.247	7,405	Total Reads									
		7,079	7,079	7,079	7,079	Commen		The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	33						
TITL	2,948		6.356	13.169	327	Sautor		Basidertial 3:	=1						
-	100	11,072	14,292	21,540	1.178	Total Results									
	7,530	7,530	7,530	7,530	7,530	Commun		-							
		3,542	6,762	14,009	347	Backer		Residential 1:	-2						
f	6,000,0	5,000.2	4,073.3	3 000'62	133	171,245.4				1	Total for DCG				
S				Contraction of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the							Tests years				
				100	ATTACK.										
	7,518.3	8,901.1	6,406.9	N.W.C.	10.4	201,466.6					400 ATK S Subtented D	400,476			
			34.4	345.5	13	1,304.7			10.00	H	T Engineer T	1,984			
	7,437.9	0,555.7	5,442.4	34,541.7	10.3	250,474.0	101. 41.2	2,345.5	104,292 7	26,6(40	50,9 % 2	202,481.9	000		Subtotal C
	1,007.0	0,000,7	5,442,4	34,546,7	18.3	0.070.000	106,641.2	2,348.5	104,292.7	25,604,0	50,946.2	395,411.0			Subtotal B
1			(48.5)	(1,821.8)	(6,255.8)	(14.010.4)					-			ce):	Carry Over (2009-12-31 Reserve Balance):
Ť			5,488.9	36,370,5	6,274.1	YOUT'NE	106,841.2	2,348.5	104,292.7	2 25,604.0	50,948.2	188,481.8			Subtotal A
Τ															Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contract to Contra
П						(1,000.0)									Annual MOTH
	765.1			229.3		23,663.5	15,999.7	345,7	91/01/6	1,374,4	1,101,1	31,925.2		TOTAL ACTIVE TRANSPORTATION	MALDO TRIGI
						100000000000000000000000000000000000000						TOOOT!		COLOGIA	000000000000000000000000000000000000000
Γ						1,325.3	3,730,8	19.7	3.711.1			0.820.3	- 1	Gordon - Lake	On I Sutherland - AT
						1,678.3	4.726.6	25.0	4,701,6			6.600.0	UCU2L 20	Hwy 97 - Gordon	-  -
						1.00	193.7	1.0	192.7			382		Dendosy - Ethe	CI TAILS WITHIN TO
П						1.102.9	3.245.8	17.1	3 228.7			4 500.0	07020	Parillatico Road - Notitet oneet	
						30.00	109 8	0.6	100.0			2.00.0	DAUZ	COOK - Cid Meadows Road	.  -
						-	979 4	A .	672 £						
	3,740	135	348	1117	in.	16,507		400						Grawth Units:	
	milet ony		umer city	MORRIN	Kelowna	CALLOS	Taxation	(Taxation)	Benefit	Assist	Devip'r	COSTS	Sctn (M)	LOCATION	quarte Sect NAME
	North of	D Hwy 33	NE of	South	S.E.	NET FOR	Grand Total Paid By	Secondary Suites	Secondary Gra	Highways	By	ouses:	Cross Row		Target
	_														

# CITY OF KELOWNA 2030 WATER SERVICING PLAN & FINANCING STRATEGY (2010) COST SHARING MODEL

	E	XHIBIT "B" - WATER			NO	N-DCC REVE	NUE SOUP	RCES	NET -	DCC SECTO	R ALLOCATIONS B	<u>D</u>
		(2010 Dollars x 1000)		CAPITAL	By NO	Benefit	Oversize	1	DCC CALC'S	Central	South Mission (	cliften
t Targ	not.		DESCRIPTION	cost	Devlp'r	Existing		-	8,702	1,716	2.11	1,121
Yea		PROJECT	[1	etal Growth Un	1047			141	-			244.3
├-				245.0				0.8	244.3			2.44.0
-	15	EVELOPER CREDIT	<u>                                     </u>	264.0	264.0							
-		CAPOZZI FIRE FLOW	Commercial fire flow N&S of Truswell	1,050.0	1,050.0							1,549.
20		CRWFRD RES	Upper Crawford Reservoir Expansion	6,476.0	1,000			20.8	6,454,2	4,905.2		1,0 15.
20	-	RYL & MNTN MAIN	Knox Resevoir - Skyline PS	6,585.0				17.9	5,568.1	5,568.1		
_	$ \Gamma$	PZ STRG UPGRADE	PZ 419 Storage Upgrade	551.0				1.8	549.2	549.2		846.
	- 1	ETHEL MAIN	Ethel St. (Weddell PI - Clement)	3,538.0				11,3	3,526.7	2,680.3		
		KNOX MOUNTAIN TRANS	Popular Pt PS - Knox Reservoir	1,424.0	1,424.0							642
		GRAINGER RESEVOIR	Grainger Reservoir Expansion		1,42,50			8.3	642.7			806
Т		CARAGLEN FIRE FLOW	Caraglen prv to Alameda Ct	651.0		724.7		10.	8,608			000
		CLIFTON MAIN UPGR.	Clifton Main Upgrade	1,542.0	1	4,496.0						
		SOUTHCREST TO WESTPOINT TRANS	Adams Res-Sthorst Res-Wstont Res	4,496.0		4,244.2		1.	1,568.6		1,568,6	
		ADAMS TO SOUTHCREST	Adams to Southcrest	5,814.5	1							
	2013	FROST PUMPSTATION	Frost Pump Station and Res Upgrade	2,698,0	1		11,3	35.0				
·  -		CEDAR CRK TRANS - STAGE 2	Cedar Ck PS, Stellar PS	11,3363	1		_	00.0				
	2020	ADAMS RESERVOIRS - STAGE 2	Late comer as ESA	1,200.		786.		0	1 112,	5	112.5	
_  -	2020	CEDAR CRK TRANS STAGE 1	Adams Res - Quichena & McCarren	899.		6,199.			E Second	<u> </u>		
	2011	ADAMS UV DISINFECTION	Stage 1 UV	6,199	4	927.			.8 965	0	965.0	
	2011	ADAMS UV DISINFECTION	Cedar Pump Upgrade (Stellar Improv.)	1,893	-	524.		13	3.0 1,004	7		1,00
В	2011	CEDAR CRK TRANS - Stage 1	Skyline Supply Main Upgrade	1,542	19/10				1.1 318	9		3
D	2025	<del></del>	High Rd & Clifton Rd	323	25 115				3.8 1,196		OF CHILDS AND TO	-
ם	2011	SKYLINE PS	Annual Oversizing Component	1,200	To be to the second	0 17,902	6 12	635.0 B	4.6 22,957	7 14,899	0 2,646,1	5,4
A	Annl	ANNL OS	SUBTOTAL A	58,925	7 6,438	.0		the second	(10,303	.8) (10,154.2	(1,202.0)	1,0
			Carry Over(2010-01-01 Reserve Ba	lances)						5000	8 1,444.1	6,6
				58,92	5.7 5,438	17,900	16 12	535.0 9	4.5 12,65			13
			SUBTOTAL B			ering/Admi		n @ 1%	126			6,6
				55,92				-	12,780	4,792	2 1,400.0	_
				80,64		THE RESERVE		1%	(127	7.8) (47.		
					Less A		9	4.17	12,651	2.6 4,744	3 1,443.9	6,4
					Total t	111	2000					
					NET	UNIT DCC	FOR:	-		99	8 679	
						Reside					58 455	
						Reside					79 326	
						Reside	ntiai 3:				39 231	
						Reside					01 3.41	
								per sq m (56 sq n	or less):		.12 2.8	
Ì					1	Comm	ercial - F	er Sq. Mtr.:			004 4,69	
1						Indust	rial - Per	Hectare:			.12 2.8	
1					1	Institu	tional - F	er Sq. Mtr.:		4	-12 2.0	1

### CITY OF KELOWNA

### 2030 WASTEWATER TRUNKS PLAN & FINANCIAL STRATEGY (2010) COST SHARING MODEL

KI	HIRIT C ANYOT	EWATER TRUNKS	_			IDCES	1	NET	LLOCATI	ONS	
_		(2010 Dollars x 1000)	TOTAL	ON DCC R	EVENUE SOU Benefit	Second		FOR DGC CALC'S	NOT South Missio	M	outh ission
erget		FROM - TO	COST	Devip'r	Existing	Suite 365		15,648	13,500		2,140
artei	PROJECT		Total Growth U	nits;			- 7				
_							0.0	19.4			
_	O/S MS1 LKSHR	Outstanding Developer Credit	19.4				22.6	1,410.6	1,4	10:6	
_	Byrns Baron Trunk	Long Term Financing	1,433.2				8.4	523.3	5	23.3	
_	eners and se	Glenmore - Valley	891.7	360.			9.3	578.7		578.7	
cmplt		KLO - Swordy	588.0				3.9	1,548.1		309.6	1,238.5
_2_	KLO	Gyro LS - KPCC	1,552.0				10.0	628.0		628.0	
1	GYRO FM	@ Curtis	638.0					6,056.3		 211.3	4,845.0
_1	RAYMER LS	Old Meadows to KPCC	10,881.0		4,80		15.3	1,242		 242.1	
1	LAKESHORE TRUNK	Bulman - Airport	3,970.0	)	2,70	<u>0.8</u>	19.9		1	017.0	
_2	AIRPORT GRAVITY	+	1,274.0	0	24	10.8	16.3	1,017.		,666.7_	
4	-+	Lakeshore - Swordy	7,789.	3			122.6	7,666.		457.7	
_3	BYRNS/BARON - Ph 2	Byrns to WWTF	465.	11			7.3	457.	53		
Γ,	WATER ST. FM	Pandosy to Ethel	835.		7	99.0	0.6	36	-	36.4	
Γ	GUY LS	Guy@Bay	1,211.	3			19.1	1,191	.9	1,191.9	
r	RUTLAND TRUNK	Ziprick to Houghton			 n 7 2	00.0	1				
r	KINNICKINNICK	Shayler - 1220 m North of Scer				200.0					
r	GI ENMORE CONNEC	TI Cross - 200 m. North of Scenic	1,792								
-	DOCE AVELS	Rose Ave @ Hospital	1,200		0.0		18.9	1,18	1.1	1,181.1	TILL 10 Sept.
+	OVERSIZE	Oversize Component - \$60,00	0/y 1,200	21 1922		57.2	274.0	23,557	4 1	7,454.5	5,102.9
+	UVEROIZE	SUBTOTAL A	37,721	3 4,93	2.7 5,5	107.6	270	(2,00	; (i)	23.4	(2,029.3)
1		Carry Over(2010-01-01 Rese	rve Balances	s)						7,477.9	4,073.6
1			37,721	.3 4,93	2.7 8,9	957.2	274.0	21,55	.0	1,011.0	V117-
		SUBTOTAL B			eering/Adn	nin	1,00	/a 21	5.5	174.8	40.7
1					inei iii A	ii.		21,76	7.0	7,652.7	4,114.3
١			37,93	5.8			101074	No.	7.7)	(176.5	(41.1)
			Less As	sist	@		1.00			17,476.2	
			Total fo	r DCC				21,54	19'9	11,41.04.	
			NET UN	IT DCC F	OR:					4.004	1,903
			0.207-0.0-0.0		dential 1:	-2.74				1,294	
					dential 2:					1,074	
					idential 3:					72	
					idential 4:					69	
				Pos	idential 5 -	per sq m (	56 sq m	or less):		10.	
					nmercial - I					5.3	5 7.87
										8,95	3 13,17
			Y		ustrial - Pe					5.3	35 7.87
				Ins	titutional -	rer oq. W	LI				

### CITY OF KELOWNA

# 2030 WASTEWATER TREATMENT PLAN & FINANCING STRATEGY (2010)

COST SHARING MODEL

# EXHIBIT "D" - WASTEWATER TREATMENT

VI 112-1-124 200	RTREATMEN	(20	10 Dollars x 1000	<u> </u>	NET FOR
<del></del>	TOTAL PROJECT	BENEFIT EXISTING	OVERSIZE (2030+)	SECONDARY SUITES	DCC CALC'S
r PROJECT	COST Total Growth Units:		(	402	15,611
	Total Grown Street				4 246 2
- I. Commitment	1,666.7			20.5	1,646.2
KPCC Existing Debt Commitment	52,192.8	8,332		539.3	43,321.2
WWTF - Phase 2 Plant Extension				137.9	11,078.8
WWTF - Long Term Financing	11,216.8	2.469.4		38.6	3,099.1
0 Existing Compost Plant Expansion	6,600.0	3,462.4		4.5	358.5
A restion Expansion	1,000.0	637.0			5,926.2
	6,000.0			73.8	The state of the state of
Primary/Sec Aeration Expansion	1,218.0			15.0	1,203.0
Land Acquisition - Compost Site	5,600.0		5,600.0		
WWTF Land Acquisition	5,600.0			955140	66,633.0
TOTAL A	85,494.2	12,431.7	5,600.0	829.5	
SUBTOTAL A	Innac)	2			(8,516.0
Carry Over(2010-01-01 Reserve Bal	ances)	12,431.7	5,600.0	829.5	58,117.0
SUBTOTAL B	85,494.2				F04
	581.2	Engineering/	Administration	ı @ 1%	581.
	86,075.3	- 50			58,698.
	86,075.5				/507
	Less Assist		@ 1%		(587.
	Total for DCC				58,111.
	NET UNIT DC		<u></u>		3,72
	NET UNIT DO	Residential '			3,72
	NET ONLY DO				3,09
	NET ONLY DO	Residential '	2:		3,09 2,0
	NET ONLY DO	Residential Residential	2: 3:		3,0
	NET ONLY DO	Residential Residential Residential	2: 3: 4:	sa m or less):	3,09 2,0
	NET ONLY DO	Residential Residential Residential Residential Residential	2: 3: 4: 5 - per sq m (56		3,0 2,0 2,0 29
	NET ONLY DO	Residential Residential Residential Residential Residential Commercia	2: 3: 4: 5 - per sq m (56 I - Per Sq. Mtr.		3,0° 2,0 2,0 29 15
	NET ONLY DO	Residential Residential Residential Residential Residential Commercia	2: 3: 4: 5 - per sq m (56		3,0° 2,0 2,0

This schedule is conceptual and is subject to revision to meet future needs and conditions.

### CITY OF KELOWNA

### 2030 PARKS ACQUISITION PLAN & FINANCING STRATEGY (2010)

### **EXHIBIT "E" - PARKS**

COST SHARING MODEL

(2010 Dollars x 1000)

		TOTAL CAPITAL COST	GOV'T ASSIST	TAXABLE BENEFIT	SECONDARY SUITES	NET FOR DCC CALCULATIONS
TYPE	ACQUISITIONS	Total Growth Units:			793	19,159
City	12 Hectares	51,547.5	5,400.0		1,624.1	44,523.3
Community	20 Hectares	27,226.7			958.2	26,268.5
Neighbourhood	23 Hectares	31,508.2			1,108.9	30,399.3
Recreation	40 Hectares	14,105.8			496.4	13,609.4
SUBTOTAL A	95 hectares	124,388.2	5,400.0		4,187.7	114,800.5
Carry Over ( 10-01-01	Reserve Balance - Co	ommittments)		•	8	(5,520.1)
SUBTOTAL B		11.00				109,280.4
		1,092.8 1,092.8	Plus Administration	on/Engineering @	1.00%	1,092.8 110,373.3
			Less Assist @ Total for DCC		8.00%	(8,829.9) 101,543.4
			NET UNIT DCC FC	R:		
				Residential 1:		5,300
				Residential 2:		5,300
				Residential 3:		5,300
				I		5,300
				Residential 4:		0,000



20 YEAR SERVICING PLAN AND FINANCING STRATEGY – 2030 REVIEW

# SCHEDULES 1-5

Residential 1 - Single Family, Duplex - density to 15 units per hectare - rate per unit

Comparison to current rates						- 5	Sector / F	Rate					
SROWTH AREA				Motor		ewe run	er		atme	<u>ent</u>	Parks	<u>Total</u>	(+)(-)
ROWINANES	F	Roads	2	<u>Nater</u>	100			A	3,72	3	5,300	18,844	-8.6%
City Centre (2011)	1	7,530	Α	998	A	1,2			3,04		5,069	20,608	
Current	Ĩ	9,176		1,757					3,72		5,300	21,398	-2.3%
Clifton/Glen. Hghld (2011)	- (1	7,530		3,552		1,2			3,04		5,069	21,905	
Current	1	9,176	D	3,054	Α		562	Α			5,300	17,847	-5.3%
	1	7,530		GEID	Α	1,	294	Α	3,7		5,069	18,851	
Glenmore Valley (2011)	1	9,176		GEID	Α	1,	562	Α	3,0	)44	5,000		TESSE.
Current				TANA!	A	1	294	Α	3,7	723	5,300	17,847	-5.3%
Rutland (2011)	1	100		RWW			,562	Α		044	5,069	18,851	
Current	1	9,176		RWW	A					723	5,300	17,847	-5.3%
Hall Road (2011)		7,530		SEKID	A		1,294			044	5,069	18,851	
Current		9,176		SEKID	P		1,562	A		723	5,300	24,608	1.8%
2011)		C 14,292		BMID	- 1		1,294	Α	1,00		5,069	24,180	
North East Rutland (2011)  Current		C 14,505		BMID		A	1,562	Α		,044	5,300	21,389	
		D 11,072		BMID		Α	1,294	A		3,723	440	26,60	2
Hwy 33 - (2011)		D 16,932		BMID		Α	1,562	P	A 3	3,044	5,069		
Current						4	1,294		Α :	3,723	5,300	20,98	3 -12.1
University / Airport (2011)		E 10,666	3	GEID						3,044	5,069	23,87	8
Current		€ 14,20	3	GEID		Α	1,562		,	N/A	5,300	15,96	36 -17.2
2011)		E 10,66	6	GEID	ij.		N/A			N/A	5,069	19,2	72
McKinley (2011)  Current		E 14,20	3	GEID	)		N/A				5,300	13,1	<b>78</b> -56.
Southeast Kelowna (2011)		A 7,87	78	SEKI	D		N/A			N/A N/A	5,069	30,5	
Southeast Kelowiia (2017)  Current		A 25,5		SEKI	D		N/A		-140		5,300	33,1	45 -5
		B 21,5	40	в 679		В			A	3,723	5,069	4 0.0000	
S.W. Mission (2011) Current		в 23,7	43	в 1,28	9	E	3 1,979	}	Α	3,044	<b>0,0</b>		

BMID Serviced by Black Mountain Irrigation District

SEKID Serviced by South East Kelowna Irrigation District

RWW Serviced by Rutland Water Works

GEID Serviced by Glenmore Ellison Irrigation District

N/A Not Applicable as Sewer will not be in that area within the 20 Year period

Residential 2 - Small Lot Single Family, Row Housing - density >15-35 units per hectare - rate per unit

Comparison to current rates						;	Sector / I	Rate					
						Sew	er	_	atm	en <u>t</u>	<u>Parks</u>	<u>Total</u>	(+)(-)
GROWTH AREA	Ē	loads	,	<u>Nater</u>		run					5,300	17,210	-1.2%
City Centre (2011)	1	7,079	Α	668			074	A	2,52		5,069	17,411	
Current	1	7,341	Α	1,178			297	A			5,300	18,922	3.5%
Clifton/Glen. Hghld (2011)	1	7,079	D	2,380	A		074	Α	3,0		5,069	18,279	
Current	1	7,341	D	2,046	Α	1,	297	Α	2,5			16,542	1,9%
	į.	7,079		GEID	Α	1	,074	Α	3,0	90	5,300	16,233	
Glenmore Valley (2011)		7,341		GEID	Α	. 1	,297	Α	2,5	526	5,069	16,233	
Current	Ì						1,074	Α	3,	090	5,300	16,542	1.9%
Rutland (2011)	ļ	7,079		RWW			1,297	A	.551	526	5,069	16,233	
Current	1	7,341		RWW	-				122	090	5,300	16,542	1.9%
Hall Road (2011)		7,079		SEKID	1		1,074	Α	_	,526	5,069	16,233	ı
Current		7,341		SEKID	,	Α	1,297	A				22,898	11.7%
		C 13,435		BMID	8	A	1,074	ŀ		,090	5,300 5,069	20,49	
North East Rutland (2011)  Current		C 11,604		BMID		Α	1,297	,	\ 2	2,526			
Carrent		n 40 409		BMID		Α	1,074	à	Α ;	3,090	5,300	19,87	e area
Hwy 33 - (2011)		D 10,408		BMID		Α	1,297		Α :	2,526	5,069	22,43	8
Current		D 13,546				Δ	1,074		A	3,090	5,300	19,49	0 -3.8
University / Airport (2011)		E 10,026		GEID			1,297			2,526	5,069	20,2	54
Current		E 11,36	2	GEID		•				N/A	5,300	15,3	26 -6.7
McKinley (2011)		E 10,02	6	GEID			N/A			N/A	5,069	16,4	31
Current		€ 11,36	2	GEID	)		N/A				5,300	12,7	05 -50
Southeast Kelowna (2011)		A 7,40	)5	SEKI	D		N/A			N/A	5,069	25,4	
Current		A 20,42	23	SEKI	D		N/A			N/A		30	5 <b>72</b> 5
1 500		B 20,2	47	B 455		E	1,580	)	Α	3,090	5,300	_	096
S.W. Mission (2011)		в 18,9		в 864		E	в 1,642	2	Α	2,526	5,069	, 20,	- <del>-</del> -

BMID Serviced by Black Mountain Irrigation District

SEKID Serviced by South East Kelowna Irrigation District

RWW Serviced by Rutland Water Works

GEID Serviced by Glenmore Ellison Irrigation District

N/A Not Applicable as Sewer will not be in that area within the 20 Year period

Residential 3 - Row Housing & Up to 4 Story Apartments - density >35-85 units per hectare - rate per unit

Comparison to current rates						Sector /	Rate				
GROWTH AREA	L	 Ro <u>ads</u>		<u> Water</u>	_	ewer <u>unks</u>		<u>eatment</u>	<u>Parks</u>	<u>Total</u>	(+)(-)
				7223	Α	724	Α	2,085	5,300	13,633	0.7%
City Centre (2011)	1	5,045	Α		A	875	Α	1,704	5,069	13,539	
Current	1	5,047	Α				Α	2,085	5,300	14,859	4.9%
Clifton/Glen. Hghld (2011)	1	5,045	D	1,705	A	724	A	1,704	5,069	14,161	
Current	l	5,047	D	1,466	Α	875	^			13,154	3.6%
Glenmore Valley (2011)	-1	5,045		GEID	Α	724	Α	2,085	5,300		
Current	1	5,047		GEID	Α	875	Α	1,704	5,069	12,695	
		5,045		RWW	Α	724	A	2,085	5,300	13,154	3.6%
Rutland (2011)	3.	5,047		RWW	Α	875	Α	1,704	5,069	12,695	
Current						704	A	2,085	5,300	13,154	3.6%
Hall Road (2011)	1	5,045		SEKID	A	724	A	. =0.4	5,069	12,695	
Current	I	5,047		SEKID	Α	875			- 000	17,685	13.29
North East Rutland (2011)	0	9,576		BMID	Α	724	Α		5,300	15,626	
Current	(	7,978		BMID	Α	875	A	1,704	5,069		
	- 1	7,419		BMID	Α	724	1	2,085	5,300	15,528	
Hwy 33 - (2011)		D 9,313		BMID	Α	875	1	4 1,704	5,069	16,961	
Current	'				A	724		A 2,085	5,300	15,256	-1,3
University / Airport (2011)		E 7,147		GEID				A 1,704	5,069	15,459	)
Current		E 7,811	1	GEID					5,300	12,44	6 -3.4
McKinley (2011)		E 7,14	7	GEID		N/A		N/A	5,069	12,88	
Current		E 7,81	1	GEID		N/A		N/A			
(2011)		A 5,27	8	SEKID	)	N/A		N/A	5,300	Woother	8 -44.
Southeast Kelowna (2011)  Current		A 14,04		SEKIE	)	N/A		N/A	5,069	19,11	U
				в 326		B 1,066		A 2,085	5,300	23,20	8 7.
S.W. Mission (2011)		B 14,43		200 4000		в 1,108		A 1,704	5,069	21,5	59
Current		В 13,05	วช	В 619		_ ,,					

BMID Serviced by Black Mountain Irrigation District

SEKID Serviced by South East Kelowna Irrigation District

RWW Serviced by Rutland Water Works

GEID Serviced by Glenmore Ellison Irrigation District

N/A Not Applicable as Sewer will not be in that area within the 20 Year period

Residential 4 - Apartments Greater Than 4 Storys - gneater than 85 units per hectare - rate per unit

Comparison to current rates						Sector	Rate				
GROWTH AREA	L	oads	-	<b>W</b> ater		ewer unks	<u>Tr</u>	<u>eatment</u>	<u>Parks</u>	<u>Total</u>	(+)(-)
	12			teres.	A	699	Α	2,010	5,300	13,092	1.3%
City Centre (2011)	(1)	4,744	A	339 598	A	844	Α	1,644	5,069	12,926	
Current	- 1	4,771				699	A	2,010	5,300	13,960	4.4%
Clifton/Glen. Hghld (2011)	4	4,744	D	1,208	A		A	1,644	5,069	13,366	
Current	Ţ	4,771	D	1,038	Α	844	^	Destro		12,753	3.4%
Glenmore Valley (2011)	167	4,744		GEID	Α	699	A	2,010	5,300	3375M.C.C.	. D
Current	l	4,771		GEID	Α	844	Α	1,6 <del>44</del>	5,069	12,328	
<b>-</b>	ï	4,744		RWW	Α	699	Α	2,010	5,300	12,753	3.4%
Rutland (2011)  Current	1	4,771		R₩₩	Α	844	Α	1,644	5,069	12,328	
CALCAST N. A.S.	74	4,744		SEKID	Α	699	Α	2,010	5,300	12,753	3,4%
Hall Road (2011)  Current	(1)	4,771		SEKID	Α	844	Α	1,644	5,069	12,328	
		0.004		BMID	Α	699	Α	2,010	5,300	17,013	12.7%
North East Rutland (2011)	C			BMID	Α	844	A	1,644	5,069	15,100	
Current	C	7,543				-		2,010	5,300	14,984	-8.4%
Hwy 33 - (2011)	r	6,976		BMID	Α	699	P		5,069	16,362	
Current		8,805		BMID	Α	844	F	4 1,644	5,009	·	
1 4 4 (2014)	i	6,720		GEID	А	699	: /	A 2,010	5,300	14,729	
University / Airport (2011)  Current		= 7,385		GEID	A	844	ı	A 1,644	5,069	14,942	
		E 6,720	ř	GEID		N/A		N/A	5,300	12,020	
McKinley (2011)  Current		E 7,385		GEID		N/A		N/A	5,069	12,45	
		A 4,963	3	SEKID		N/A		N/A	5,300		3 -44.1
Southeast Kelowna (2011)  Current		A 13,27		SEKID		N/A		N/A	5,069	18,34	4
		В 13,57		B 231	91	3 1,028		A 2,010	5,300	22,13	9 7.6
S.W. Mission (2011)				в 438		в 1,069		A 1,644	5,069	20,56	6
Current		В 12,34	Ų	J 10m		•					

BMID Serviced by Black Mountain Irrigation District

SEKID Serviced by South East Kelowna Irrigation District

RWW Serviced by Rutland Water Works

GEID Serviced by Glenmore Ellison Irrigation District

N/A Not Applicable as Sewer will not be in that area within the 20 Year period

#### Updated Development Cost Charge Rates

#### ARTERIAL ROADS

Development Cost Charges Applicable to Development Within the Municipality

Development Type	Sector A SE Kelowna	Sector B South Mission	Sector C NE of Inner City	Sector D Hwy 33	Sector E N of Inner City	Sector I Inner City
Residential 1	7,878	21,540	14,292	11,072	10,666	7,530
Residential 2	7,405	20,247	13,435	10,408	10,026	7,079
Residential 3	5,278	14,432	9,576	7,419	7,147	5,045
Residential 4	4,963	13,570	9,004	6,976	6,720	4,744
Residential 5 - Per Sq. Mtr.	69	189	126	97	94	66
Commercial - Per Sq. Mtr.	26	72	47	36	35	25
Institutional A - Per Sq. Mtr.	26	72	47	36	35	25
Institutional B - Per Sq. Mtr.	0	0	0	0	0	0
Industrial - Per Hctr	19,458	53,203	35,301	27,349	26,346	18,600
Current Residential 1 Rate	25,529	23,743	14,505	16,932	14,203	9,176

WATER

Development Cost Charges Applicable to Development Within the Municipality

		Sector B	Sector D
	Sector A	South	Glenmore/
Development Type	Inner City	Mission	Clifton
Residential 1	998	679	3,552
Residential 2	668	455	2,380
Residential 3	479	326	1,705
Residential 4	339	231	1,208
Residential 5 - Per Sq. Mtr.	5.0	3.4	17.9
Commercial - Per Sq. Mtr.	4.1	2.8	14.7
Institutional A - Per Sq. Mtr.	4.1	4.1	4.1
Institutional B - Per Sq. Mtr.	4.1	2.8	14.7
Industrial - Per Hctr	6,904	4,698	24,578
Current Residential 1 Rate	1,646	1,292	2,943

#### **Updated Development Cost Charge Rates**

#### **WASTEWATER TRUNK MAINS**

**Development Cost Charges Applicable to Development Within the Municipality** 

Development Type	Sector A Inner City	Sector B South Mission
Residential 1	1,294	1,903
Residential 2	1,074	1,580
Residential 3	724	1,066
Residential 4	699	1,028
Residential 5 - Per Sq. Mtr.	10.2	15.0
Commercial - Per Sq. Mtr.	5.3	7.9
Institutional A - Per Sq. Mtr.	5.3	7.9
Institutional B - Per Sq. Mtr.	5.3	7.9
Industrial - Per Hctr	8,953	13,171

Current Residential 1 Rate	1 562	1 979
Current Residential Trate	1,562	1,313

#### **WASTEWATER TREATMENT**

**Development Cost Charges Applicable to Development Within the Municipality** 

	Sector A
Development Type	All City
Residential 1	3,723
Residential 2	3,090
Residential 3	2,085
Residential 4	2,010
Residential 5 - Per Sq. Mtr.	29.4
Commercial - Per Sq. Mtr.	15.4
Institutional A - Per Sq. Mtr.	15.4
Institutional B - Per Sq. Mtr.	15.4
Industrial - Per Hctr	25,760

Current Residential 1 Rate	3,044

tikeklataksinaredInfrastructure Planningi0200 FINANCE\0220 FINANCE\0220 FINANCI\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNING\0220-02 8UDGET PLANNIN



## 20 YEAR SERVICING PLAN AND FINANCING STRATEGY – 2030 REVIEW

# ANNEX 2

### OCP Feedback Form (#6) Summary March 23, 2011

This tabulation reflects responses received from feedback forms distributed at OCP Open Houses held on February 17, 19, 21, and 23, 2011 as well as responses received on-line between February 17 and March 18, 2011. In total, 628 people completed the feedback form.

#### Q28. Parkland Acquisitions

and an area		% of Responses
	# Responses	54%
<u>Total</u>	259	•
Strongly Agree	152	32%
Somewhat Agree	37	8%
No Opinion	19	4%
Somewhat Disagree	12	3%
Strongly Disagree		
	479	100%
Total Responses		

#### Q29. Water priorities

orities	# Responses	% of Responses
<u>Total</u>	223	47%
Strongly Agree	158	33%
Somewhat Agree	69	15%
No Opinion	14	3%
Somewhat Disagree	9	2%
Strongly Disagree		
	473	100%
Total Responses	•	

#### Q30. Sewer Priorities

orities	# <u>Responses</u>	% of Responses
<u>Total</u>	204	43%
Strongly Agree	170	36%
Somewhat Agree	78	17%
No Opinion	13	3%
Somewhat Disagree	5	1%
Strongly Disagree		
	470	100%
Total Responses		

#### Q31. Transportation Networks

ACIOIL IACTANOMIC	# Responses	% of Responses
<u>Total</u>	193	42%
Strongly Agree	191	41%
Somewhat Agree	43	9%
No Opinion	23	5%
Somewhat Disagree	15	3%
Strongly Disagree		
	465	100%
Total Responses		

## Written comments (open ended questions):

The following summary contains responses from feedback forms submitted at OCP Open Houses and on-line during the period between February 17 and March 18, 2011.

Notes: Typos/spelling/grammatical errors are as submitted by those completing the forms. Respondents were asked to provide details if they indicated disagreement with the proposed policies. In a few cases, respondents also provided details when they agreed with the proposed policies. All responses to the open-ended questions are included below.

## Q28 Reasons cited for disagreeing with proposed policy for parkland acquisitions:

- I think requirements are on high side. Most small parks seem to get little except in urban areas.
- Parkland is not sustainable, and is not being maintained as it is.
- I support park acquistion, including use of taxation dollars. Also would like to ensure Devt charges are actually put toward park acquisition.
- Additional lakeshore lands should be obtained as they come available. Under no circumstances should lakeshore properties such as those proposed for the South Pandosy area be used for other than park with only limited commercial necessary to service park users.
- City should not see waterfront land. Consider developing an urban wildlife park with the Cedar Ave property on MOST of the land.
- Could be more.
- Developers should pay a higher proportion of costs for parks.
- Developing parks is important, but the construction should not pay for 92% of it. The new construction will not place this level of demand for new parks, and the assist level should be about 25%, not 5%.
- Dog parks? Would like to see more on lakefront, accessibility for all
- Don't know enough to answer intelligently sorry!
- Don't understand financial model but agree with other aspects.
- Emphasis on wilderness parks that are acceptable, not tiny cultivated urban parks.
- Enough already. Cedar Road should be a development with the linear park only.
- I see no need for the acquisition of more parkland at this time.
- I would rather see one really well designed, formal park in this city than 200+ mediocre parks.
- Increase to more than 2.2/1000

- Increased acquisition beyond that which is proposed is recommended.
- It is very important that as we add parks, we improve accessibility for all members of the
- Just because a park is larger....does not make it automatically better. We need to think creatively about our small parks. They can be gems....and present opportunities to be used
- Linear parks do not encourage families with children. Once land is purchased they should NOT be sold to developers to finance development = ex. Cedar Park Ave! Larger parks not just linear. Even though it is difficult - more park should be purchased in the core area (than planned) considering designation in this area and if you want to encourage more people to live
  - Make sure you have the science and input from impacted parties before taking any steps

  - MUST support more "total access" to the lake...this is our greatest asset and access must be More dog parks on the water please! maintained
  - Need more and more water front access
  - need more dog parks downtown
  - not necessary to increase size except by lakeshore

  - Parkland is extremely expensive. Not reasonable that every person should have a park next door. If you want a park, look for a dwelling near a park??
  - Parkland priorities do not match population growth projections.
  - Parkland: Do not run lakeside parkland into pub sites.
  - Parks are important, however, consideration must be given to more than just linear parks. Neighborhood parks for families, dog parks, and parks that are accessible to people with disabilities should have as much consideration and merit.
  - Parks area always a positive for a community.
  - parks cost money to buy and maintain, who is going to pay for more parks, we don't need any more in the City

  - Somewhat deals with other comments I have made. I do think that the amount of parkland is too low. Some of the parks that you have shown on the map and surrounded by a 'service area' are pretty much useless as a meaningful recreational site.
  - The designated amount of parkland per 1000 population seems low. Who determines this or is that what we happen to have now--- if so is it enough?
  - Too late
  - Use what we have acquired.

  - We could always use more cultivated wetlands, desert not 1/2 acre of land with a swing set.
  - What a crock of ... City Hall has used tax dollars to buy land under the guise of using it for parkland only to turn it over to developers. Cedar Ave is a prime example of the fraud perpetrated by City Hall. If land is purchased a park land then it must be made into park land
  - Why is there a plan to acquire more parks when we have land at Cedar that could be used for park and is planned to be sold for development?
  - consider obtaining more parkland downtown and in South Pandosy area

- "Service area" for existing parks only accounts for distance from the park not accessability. Looks good on a map but it doesn't reflect if a child can actually get to their neighbourhood park safely. I would love to see the city parks program input to the new Okanagan4kids.com website as they are going to catagorize all parks and give families an opportunity to comment on the play structures. This would be a fantastic opportunity for the City to comment and hear comments on what families think about their neihbourhood parks and how they get to them.
- Continually raising DCC's just drives the cost of housing upward. Developers will just pass the cost increases on to the consumer.
- core area seems like it may be optimistic to get 8 ha of land for parks!
- I hope that the City places lakefront properties as their top priority. Although very expensive, the lake is what makes the City an incredible place to live. And please start setting money aside for when the Mill in Sutherland Bay eventually goes.
- Keep a balance. Don't get too aggressive, be smart and sensitive to cost of the land acquired. If you can't maintain it don't buy it.
- Maintaining and expanding parks is vital and must be continued in developing areas (e.g. Kettle
- Must not trade, sell or lease any existing park land (i.e. Cedar Ave property) for any purpose but enjoyment of residents.
- Now that Glenmore is all houses want to develop 31ha of parkland the hosre is already out!!
- Parkland DCC's should not solely be funded from residential activity, but should be generated from multi-use, commercial, industrial and/or institutional development as well. There are uses (especially those that are institutional) that heavily rely on parkland space for their programming and compliment their uses. The same argument applies to commercial properties that benefit from attracting and retaining employees that have easy and relevant access to open space provisions (ie. downtown waterfront being a major attractor for business groups).
- Perhaps I'm reading the map wrong, but I believe the city should increase Parkland both along
- The lack of parkland adjacent to the lake is woefully inadequate and it seems like little
- The waterfront should be accessible to all, so I would give that priority. All overhead wiring should be put under ground along Lakeshore Road and the road itself should be more parklike aka the City's work along Abbott Road which is like a walk in a park.
- This is just another money grabbing area. I disagree with expanding the parks to "maximize the park experience" this is a lie, it really means "lets make parks appealing to all the rich tourists coming through Kelowna so that maybe the will purchase land"
- We must ensure that everyone pay proportionately. New development plays a large role in this. To place all the burden on new is not proportionate. Expansion or acqisition of lakefront and existing parks in existing neighbourhoods must be paid by taxation
- why should a parks DCC for a bachelor suite or one bedroom be the same as a large single family house?
- Yes please, more green/natural space!

## Q29 Reasons cited for disagreeing with proposed policy for water priorities:

- Include provisions for dual distributions so that we are not treating the water that is used for outdoor use and agriculture. Consider bringing together all KJWC to help this.
- only for core area's
- Again, I believe that a water conservation system needs to be implemented as well. 42 - what about ALR high usage
- Agriculture does not lose any and you leave current irrigation in place.

- All expansion costs should be paid by developments, as taxpayers will have ongoing costs
- All water districts within the City of Kelowna should be acquired by the City to enable a coordinated water development program.
- Allow Rutland water works to operate as a separate entity
- City-Wide Water Supply and Treatment for potable water! Separate out the irrigation from potable water supply.
- Could dual systems for agriculture/developed areas and grey water recycling systems be explored? We really should not need to irrigate lawns etc, with the same water we are treating to drink.
- DCC's must pay for ALL additions to the current system
- disagree with our dollars spent on pumping of water to new hig end residential s/u housing areas that are inaccessible to others
- High priority need for water/sewer development/management.
- I agree with the priorities but I wonder that there is really enough water.
- I don't understand this one.
- I support lower water rates for agriculture.
- It should accompany with water conservation policy, auditing, education. Installing agricultural use line separate from treated drinking water line.
- Make new developments pay.
- More emphasis on water use reduction needed especially on lawns. High users should pay for additional capacity while those willing to conserve and reduce the need for new infrastructure should benefit.
- Need to be considered in everything!
- Need tougher laws governing residential and commercial water use.
- New development should bear the majority of cost of new infrastructure development. Only replacement of existing infrastructure should be considered for funding from general revenue.
- Not enough information to comment.
- Per capita, we use well below the Canadian average (Kelowna's water use is well above the Canadian average). Perhaps continue working on rewarding those who conserve the most (water, yard, garbage, etc)
- The City has had a number of 5 year plans that never last beyond one year. The continued decrease in the water parcel tax lets undeveloped land & seasonal condos benefit from infrastructure costs that only the current consumers bear. Inequalities in the water fees are
- The DCC's should not be paying all the costs the City collects taxes for projects too.
- The indicated priorities do not agree with the rest of the plans for development. Improving water supplies for outlying suburbs doesn't fit with focusing more growth into urban centers.
- the people who live higher up should contribute more to these upgrades
- There needs to be consideration for grey water usage, reduced water consumption in the form of xeriscaping and low-water usage toilets and home appliances.
- Very easy for the City to label and charge infrastructure costs to new development. Remember, not all new development is new residents, many new development areas are local residents who have been paying taxes for years and should be targeted because they want to build a new house
- Water must be preserved
- Why u/g Clifton? O new housing there.

- You need to try for more than 2.2hectares/1000. If Kelowna takes more water then it will be neither balanced nor equitable for the irrigation district.
- circumstances may dictate that the City has to pay for additional capacity if we wish an area to be developed and recover later from developers/property owners
- Focus should be highest on highest consumers. To enforce new water consumption policies on an already efficient market segment seems backwards.
- How does this water use plan mesh with the overall availability of water to all users in the valley. When do we cap new construction, without an offsetting reduction in per capita
- I think stricter penalties for excessive water use, limiting/alternating days for lawn watering, and more incentives for property owners to xeriscape should be implemented.
- Is there any thought to introducing a grey water system for landscape irrigation?
- Meeting Canadian drinking water standards is not even MENTIONED!!
- More burden should be placed on existing users based on the benefits of the upgraded and replaced infrastructure. Higher DCC's rates mean higher housing costs - this is not the answer.
- MUCH MORE PRESSURE NEEDS TO BE APPLIED AGAINST NON ESSENTIAL WATER USE! Penalties. Golf courses?!
- panels didn't open
- plan does not go far enough
- The city should be looking to take over the other water utilities to provide better service for all
- There should be more planning closer to Lake Country as they are developing that area.
- While I think it is important to maintain water quality I think we should avoid increasing use. Like automobile traffic: if it's easy to use it gets used more. Increasing capacity increases
- your other panels say you're building in the core but more of these projects are in the south

## Q30 Reasons cited for disagreeing with proposed policy for sewer priorities:

- There is not sufficient consideration made to innovative decentralized solutions for areas that are not easily serviced.
- Go septic for all future SFR to limit growth and encourage sustainable waste water management, low flow devices.
- All expansion costs should be paid by developments, as taxpayers will have ongoing costs forever.
- As sewer becomes available all lakeshore properties should be required to connect to the sewer
- Cambie Rd area should be Priority #1 for sewer service
- Central Rutland #1 priority
- Central Rutland is long overdue area
- Consideration to reducing the load on sewer system by encouraging grey water use.
- DCC's must pay for ALL additions to the current system
- Has privatization of a new or portions of new requirements been considered? Like a toll road -user pays
- How will this be paid for?
- I don't understand some of the terminology.
- It should be the same city wide.
- It would take some effort for anyone to have a decent opinion on this kind of thing, so I hope you don't take the largely uninformed opinions of survey-takers too seriously.

- Make sewer available to "smaller properties" where septic use is restricted or limited P.G.B areas.
- Manage growth to avoid
- Meetings more small groups for concerns...
- Need to be considered in everything!
- New developers should pay for sewer and water extension (not our taxes)
- note actual needs need to be confirmed and not just rely on design criteria as water usage is decreasing and promotion of using grey water should be addressed
- Please try to fix the waste management plant by KSS because kids have to run on that field and I have heard that poop comes up through the ground and onto the field.
- same points as with water
- Sewer should not be extended to those areas which are not intended for future development.
- Sexsmith Rd area is of concern.
- Should the new development areas pay more because the planning was poorly done?
- the people who live higher up should contribute more to these upgrades
- Waste water reclamation to reduce fresh water demands. Glenmore sports fields and Mission sports fields, ALR lands, etc.
- Why is Okaview prioritized before Rutland?
- You have to talk to those impacted and pre-inform them of grant proposal options. They may band together and agree to pay more for other upgrades while their street is ripped up i.e.: maybe not sidewalks, but 1/4 round curbs, etc.
- More burden should be placed on existing users based on the benefits of the upgraded and replaced infrastructure. Higher DCC's rates mean higher housing costs - this is not the answer.
- New development should be self funding. Old systems should be upgraded to lesson environmental impact and carbon footprint.
- nanels didn't open
- There should be more planning further toward Lake Country so development can start from that end as well.
- We cannot afford to go on sewer. Septic tanks are better for the environment than sewers.

### Q31 Reasons cited for disagreeing with proposed policy for transportation networks:

- Plan for the South Perimeter Ring Road to be extended through the Thomson Flats area to help relieve South Mission traffic being funnelled down onto Lakeshore Road
- More non-vehicular improvements....
- COMC 2 is needed now. Major congestion at Enterprise, Hwy 97 due to Clemment dead ending at Spall.
- I love your emphasis on my sustainable transportation, but . . . it needs to be more aggressive. Can you please implement a reginaol parking supply/pricing strategy - with the sea of free parking you will NEVER gets folks to get out of their car EVER! Or some sort of mileage tax based on their insurance - something to help them drive less!!! Panel 51 - Replace Glenmore to UBCO Link (grades, length are a BIG problem) with a Scenic Rd, Valley Rd N, Curtis Lake Rd route - shorter, existing route, best grades for peds/bikes, and away from traffic! And I do NOT agree with "balanced" funding for transportation - it should be about moving people first, not all about cars, or nothing will change. Be proactive and start providing better funding for transit, bikes, peds, and combined with parking/VKT tax you will see a shift start.
- This is a vague policy in light of the previous questions we answered. I thought there are already policies were in support of increasing infrastructure priorities with active and public transportation at the top. This panel gives me the impression that there will be a balance of priorites between all modes of transportation including cars. Why the conflict?

- Don't agree with use of Sutherland Ave as an active transportation corridor.
- Active and alternate transportation networks. Establish long term multi-corridors. Including north south connections, i.e. Benvoulin and Lakeshore
- Active transportation plan looks great, roads look ok.
- Agree in principle but will have to check DCC to see details.
- As long as there is still room to expand the road to more lanes, and the transportation networks don't get in the way of the added lane, I am in favor of transportation networks.
- Bike paths are great
- Casorso Rd/Bedford/Dehart intersection is very poor. Needs to be redesigned. Lots of accidents here.
- COMC I do not support another 4 lane rd adjacent to highway. It will only encourage more trips by car
- Corner of Rutland Rd S at Springfield needs re-engineering no one stops at the stop sign when turning right.
- DCC's must pay for ALL additions to the current system. Lake Ave is part of the Heritage Conservation area. The street is very narrow and only suited to foot traffic. It only services a single family area which is fully developed. There is no need to upgrade it and no room to do so. City Hall wanted to put in a sidewalk there last year but when someone finally left the Ivory Tower and measured the roadway it was found that a sidewalk was not possible between Abbott and Water. Doesn't City Hall read its own engineers reports???????
- Don't need to four-lane Clifton for local use. Most traffic can use Glenmore/Clement that is already four-lane and leave Clifton so that High and Mountain remain as local roads
- Ensure that COMPETENT DESIGNERS AND PLANNERS are employed to set guidelines. Remember the transit bus curb heights on Hwy 97 and double deck bus power line issues. We never utilized the 2 deck capacity
- Hwy 33 prov. influences most of our areas.
- I can't really see which areas the different roads run through.
- I think that the plan to provide alternative routes to ease congestion is at odds with your earlier stated plan to use congestion as a means of encouraging transit and active transportation, and limiting the expansion of transportation infrastructure for single occupant vehicles. Why is there a center turning lane envisioned for the western part of the east-west connector? Some of your active transportation corridors seem to have little connection to the origins and destinations neither of those who use this mode, nor to the geographical issues (like hills) that tend to discourage use of active modes.
- I want to know why so much attention is being given to the trans corridor and active corridor to the Tower Ranch. Other than the Ranch subdivision, there's nothing there.
- Lawrence bike lane
- Lots of traffic and trucks use Rutland Rd. It has to be upgraded.
- More commuter (bike) routes. Rails and trails aren't commuter (bike) friendly
- More of the same UNSAFE bike routes will be a waste of tax dollars, and will undermine all relevant goals.
- New development is unfairly been charged for transportation upgrades that benefit most residents. The unreasonable approach to DCC is a major factor in the high cost of lots in Kelowna. Developers only pass on the DCC in the price of the lots and residents end up paying more and the City is using this political vehicle as cash grab.

- No faith again... sidewalks that go nowhere, bike lanes along roads are not used... they crowd the sidewalk. Speed bumps on Byrnes and inconsistent speed limits on Benvoulin. What is the plan to complete what we have?
- non vehicle transportation need to review options of having a "trail / pathway system separated from the road as far as a total different alignment or route
- Rail to airport and UBCO
- Reduce thru traffic on Lakeshore!
- See #8
- Seems to be insufficient consideration to transportation implications when new developments are permitted. More separate bicycle paths sooner!
- Sexsmith 4-lane, recommend 2 land w/ centre
- Some of it is good. But there needs to be a proper bike route to the university not just a lane
  on the side of a road.
- South Perimeter needs to connect to Chute Lake Road to get heavy logging truck traffic off Lakeshore and ease existing Lakeshore congestion.
- Spend on education. People don't understand how easy public transportation is.
- Strong need for increased public transport
- Strongly support 2 lanes and centre lane on Lakeshore Rd.
- The east-west connector needs to be routed closer to the University, and needs to join Harvey Ave. close to the Airport
- The planned bus routes are fine. Fix traffic rid of sync lights before adding options people won't or can't use (i.e.: b/c the city doesn't plow the sidewalk!)
- Too many road improvements.
- Way, way, way more left turn lights along Hwy 97/Harvey
- Why is there no provision for transit on McKenzie Rd
- Would like to see more frequent buses and upgrades to bus stops that permit identification of timing of next arriving bus, rather than wider network of infrequent buses.
- Would like to see MORE transit stops on Gordon to service the senior's facilities in the area of Gordon/Casorso.
- Yes, we should have increased active transportation corridors. But we can't JUST have sidewalks on main corridors like Richter (which doesn't have sidewalks now) but also all the side streets. We need safe walkways for our kids to cross these major thoroughfares.
- Your policy says 1) active 2) transit 3) goods etc. but your plan says SOV SOV more \$ on sidewalks, bike lanes, off street paths, signal priority, HOV less road expansion.
- suggest widening Ethel St. main access to KGH should be via Springfield to Richter to Royal (push the street through)
- also need to look at bypass around Kelowna for flow thru traffice
- As a rule, the more roads the more cars and congestion. Even though I agree with the proposed plan, I would lead with a stronger vision. I suggest a "train Line" as stated earlier. Also, and this is very important, all overhead wiring along major transportation routes should be put under ground Kelowna is a beautiful place but it is visually polluted.
- Burtch Road should be extrended to KLO.
- Designatin of "2 lane" doesn't contain enough information. Will there be large sidewalks with trees and a green verge? Will there be traffic calming measures? Will there be narrowed intersections to allow pedestrians to cross the road easily? I'm using Burtch road as an example, we don't need another wide but not pedestrian friendly road.
- Further focus on shifting budget to active transportation methods, and creating a culture where single-occupant vehicle congestion/delay is acceptable in favour of other forms of transportation, and encouraging densification of core areas.

- Futrure transportation will go further than your boundaries.
- Hwy97 has to many conflicting uses, goods and services, commuter, shopping districts, business
  districts, commercial retail, pedestrians. Much like a dogs breakfast. It is the sine of the
  netowrk, how do you effectively plan a road improvement plan without addressing the real
  problem? The active transportation plan is a good idea, but you can't afford it because it is not
  well planned out, the value of land makes this initiative cost prohibitive.
- Lakeshore Road needs four lanes
- Living in a dream world where transit and walking is the solution
- More burden should be placed on existing users based on the benefits of the upgraded and replaced infrastructure. Higher DCC's rates mean higher housing costs - this is not the answer.
- Need to re-define "core area". Urban centers? What radius beyond defined urban centers?
   Corridors for community/tourist access eg. wineries, beaches, parks, golf that is outside of urban centers. Transportation to these high vulume areas would e applauded.
- panels didn't open
- Recognize true cost financially and to the environment and carbon footprint of all systems
  developed and supported. This must be examined / considered beyond the 20 year window.
  Develop a per capita measure and keep a running total impact measurement. Looking to
  improve. Kelowna should strive to be a model semi arid climate low impact city. Efficiencies
  discussed above to lower impact of transportation.
- Should be less of a focus on active transportation
- The 4 laneing of Benvoulin is going to create serious traffic volume past the Catholic Church. At the present time this spot is an extremely dangerous exit-entry. Please create a safe means of getting out of the Church yard for those trying to travel south. Also a safe means of getting into the Church Yard for those traveling South. The future for this Church will likely include an Old Folks Home as well as the present development of the main offices for the Nelson Diocese. I am also concerned with the plans to 4 lane the extension on COMC Clement etc. flowing North. The extreme cost to finance a second bridge and that intrusion through residential property is a legacy that I do not like put on my grandchildren. The COMC will increasingly get opposition from those who want to protect the swamp lands. For a tenth or less cost, a raising of Highway 97 on Harvey Ave. to Gordon Drive would very efficiently look after the truck traffic now that we have the 6 + laning of Highway 97. It is interesting to see the joining of Highway 33 to COMC to allow trucks to go to the commercial area of North Kelowna.
- the EWC looks like a waste of agricultural land and adds substantially to cycling time from the downtown core (where students live). A bicycle path does not have to depend on the presence of a road. In Holland many, small-eco-footprint cycle paths (not asphalt or concrete) go through agricultural land. Don't build huge wide cycle paths like small roads. Too expensive and environmentally unsustainable.
- The Mission area needs to have improved service as well.
- There should be at least 1 full additional four lane roads running east west and at least 1 full additional four lane roads running south and north. Current plan shows pockets of 4 lanes. Left turning lanes should be put to use as much as possible along with left turning lights. Active transport routes should include Bernard, Pandosy (downtown through to south) Water and Sunset.
- THIS TRANSPORTATION PLAN MUST INCLUDE LIGHT RAIL!
- Use the dcc for what they were inteneed for
- We need more emphasis on active transportation networks.
- You've got to have a city by-pass for through traffic. Somehow that has to be accomplished 2nd bridge at least and a partial by-pass