BYLAW 740.14

LAMONT COUNTY INDUSTRIAL HEARTLAND (SOUTH BASIN) OFF-SITE TRANSPORTATION LEVY BYLAW

A BYLAW OF LAMONT COUNTY IN THE PROVINCE OF ALBERTA, TO PROVIDE FOR OFF-SITE TRANSPORTATION LEVIES

WHEREAS the Municipal Government Act, R.S.A. 2000, Chapter M-26, as amended, grants a municipality the authority to pass an Off-Site Levy Bylaw;

AND WHEREAS, Council deems it necessary to establish an Off-Site Levy to pay for the capital costs of new and expanded roads and the land required in connection with those facilities, all of which will be required for the Lamont Industrial Heartland South Basin District, and the subdivision and development that is anticipated therein;

AND WHEREAS Lamont County has and continues to consult with affected landowners and representatives of the development industry to address and define future infrastructure requirements within the Lamont Industrial Heartland South Basin District, and the benefit to new development from such infrastructure;

AND WHEREAS, Council deems it necessary to require agreements to be entered into with owners of lands within the boundaries of the Lamont Industrial Heartland South Basin District that are to be subdivided or developed in respect of the payment of the Off-Site Levy;

AND WHEREAS, Sections 648 of the Municipal Government Act, R.S.A. 2000, Chapter M-26 (MGA), as amended, authorizes a Council to pass a bylaw to provide for the imposition of an Off-Site Levy in respect of land that is to be subdivided or developed and authorize agreements to be entered into in respect of the payment of the Off-Site Levy;

AND WHEREAS the County has prepared the Lamont Industrial Heartland South Basin District Transportation Master Plan;

AND WHEREAS, notice of intention to pass this Bylaw has been given in accordance with the Municipal Government Act;

NOWTHEREFORE, the Council of Lamont County, in the Province of Alberta, duly assembled, hereby enacts as follows:

PART I: BYLAW TITLE

1. This bylaw may be cited as the "the Lamont Industrial Heartland (South Basin) Off-Site Transportation Levy Bylaw".

PART II: DEFINITIONS

- 2. For the purposes of this Bylaw the following words will have the following meanings:
 - a. "Act" or "MGA" means the Municipal Government Act, R.S.A. 2000, c. M-26, as amended;
 - b. "County" means the Municipal Corporation of Lamont County;
 - c. "Council" means the Council of Lamont County;
 - d. "Projects" means those transportation projects listed in Schedule "A".

PART III: OBJECTS, PRINCIPLES AND CRITERIA

- 3. The objects, principles and criteria of the Off-Site Levy shall be in accordance with the following:
 - (a) This Bylaw creates an Off-Site Levy to provide funds for the construction of capital projects set out in Schedule "A" required for growth.
 - (b) Development in new growth areas through the Off-Site Levy will provide the capital that will fund the infrastructure required for growth. Those who benefit from the infrastructure, which is defined in Schedule "A", should share proportionally, on a per gross hectare basis, in related costs.
 - (c) Provision of the Projects by developers will not create an advantage or penalty due to the time or location of development.
 - (d) The Projects will be provided to maintain sustainable, cost effective and orderly growth.
 - (e) The calculation of the Off-Site Levy should be an open and transparent process.
 - (f) All funds collected from the Off-Site Levy will be credited to a separate and distinct, identifiable Off-Site Levy account, which may be invested as per the County's Investment Policy until used for the construction of the specified off-site infrastructure. The management of the Off-Site Levy account should be an audited process, with reports available to the public and industry.
 - (g) The Off-Site Levy will help allow the County to recover the cost of infrastructure required for growth;
 - a. Using financing strategies that remain sustainable;
 - b. Facilitating development by reducing risk on early developers and ensuring future developers share the costs of the facilities from which they benefit; and
 - c. Promoting cost effective and orderly development.
 - (h) The Off-Site Levy will help promote orderly development by:
 - a. Providing off-site infrastructure, once the appropriate planning is in place, and when warranted in development; and
 - b. Providing infrastructure for contiguous development.
 - (i) The Off-Site Levy will help create a transparent process by:
 - a. Providing opportunity for industry input into the levy, its definition and administration;
 - Conforming with the Municipal Government Act, R.S.A. 2000, C. M-26, as amended or repealed and replaced from time to time; and
 - c. Providing reports on the Off-Site Levy.
 - (j) The Off-Site Levy will help create a clear process for calculation of the rate, levies and credits by:
 - a. Creating consistent and predictable levies and credits;
 - b. Creating predictable and stable levies over time; and
 - c. Documenting a process for establishing the levy rate.

PART IV: APPLICATION

- 3. The Off-Site Levy related to the Projects, as provided for in this Bylaw, are hereby imposed upon those lands which are to be developed or subdivided at the time of issuance of a development permit or subdivision approval and which are within the "Lamont Industrial South Basin District" as depicted in Figure 1.2 of Schedule "A" attached hereto and forming part of this Bylaw. Such Off-Site Levy shall be payable to the County upon the endorsement of the subdivision or issuance of the development permit and calculated based on the rate prescribed by this Bylaw at the time of payment.
- 4. The Off-Site Levy payable in respect to the lands referred to in paragraph 3 of this Bylaw are on a per gross hectare basis as set out in Section 3 and Section 4 of Schedule "A" attached hereto and forming part of this Bylaw. This Off-Site Levy is imposed for the purpose of paying for those Projects listed in Schedule "A" and illustrated on Figure 3.2, attached hereto and forming part of this Bylaw.
- 5. The supporting technical information which identifies the impact of proposed developments, estimates of the costs of the Projects listed in Schedule "A" and identifies how the Off-Site Levy is calculated are contained in the report of Opus Stewart Weir, dated April 2014 entitled "Lamont Industrial Heartland South Basin District Levy Report".
- 6. Council may from time to time adopt policies or guidelines for the assistance and direction of County Administration in determining which development and subdivision applications shall require a development agreement.
- 7. Where it is determined that a development agreement is appropriate for an application for development or subdivision, the applicant or owner, as the case may be, shall enter into a development agreement with the County and such development agreement shall ensure:
 - a. that provision be made for the payment of the Off-Site Levies as specified in this Bylaw, or
 - b. that provision may be made for the deferring of payment of the Off-Site Levies to some future time certain or uncertain; and
 - c. deferral of payment may require the payment of security for future payment of Off-Site Levy; and
 - d. that provisions be made to include a clause for an escalation payment, such that the amount of the levy to be deferred shall be the amount prescribed in the offsite levy bylaw in place at the time of payments being received not at the time of the subdivision or development application; and
 - e. that no further Off-Site Levies imposed by this bylaw shall be required to be paid under development agreements where Off-Site Levies have been previously collected in full in respect to all of the lands which are the subject of development or subdivision application; and

- f. that where a development or subdivision results in a Project listed in Schedule "A" being implemented prior to the collection by the County of sufficient Off-site Levies to fully pay for that Project or that Project is not within the County's capital budget for that year, the County and the applicant and/or owner of the development or subdivision may agree that the applicant and/or owner may undertake the Project, at its sole cost, for a credit against the Off-Site Levy imposed under this Bylaw and the applicant and/or owner shall be entitled to a reimbursement of costs incurred over and above the credit for the Off-Site Levy when, and provided that, the County collects the applicable Off-Site Levies from other developments or subdivisions. The nature and process of approving of costs incurred to construct and acceptance of a Project under this Bylaw and the process of reimbursement of any excess costs incurred shall be in the sole determination and discretion of the County in accordance with any County policies.
- 8. Except as otherwise provided herein, each development agreement entered into by the County with respect to any development or subdivision application shall make provision for payment of all Off-Site Levies imposed by this Bylaw within the times specified by County policy or guideline, as amended from time to time.
- 9. In the event that any of the Off-Site Levies imposed by this Bylaw are not paid at the time specified in a development agreement, the County is hereby authorized to take whatever action that they may deem necessary to collect the unpaid Off-Site Levies.
- 10. Nothing contained in this Bylaw precludes the County from imposing such further or other charges, costs, fees or levies as may be lawfully authorized.

PART V: ACCOUNTING

11. All funds collected pursuant to this Bylaw shall be accounted for in a special fund and expended only as permitted under the provisions of the Municipal Government Act, R.S.A. 2000, c.M-26, as amended.

PART VI: SEVERABILITY

12. If any clause in this bylaw is found to be invalid, it shall be severed from the remainder of the bylaw and shall not invalidate the whole bylaw.

PART VII REPORTING

- 13. On or before April 30 in each calendar year starting in 2015, an Annual Report shall be submitted to County Council on the Off-Site Levies pursuant to this bylaw and such report shall identify:
 - a. Projects constructed during the previous calendar year;
 - b. Construction costs of Projects constructed in the previous calendar year;
 - c. Estimated construction costs including inflationary factors for Projects yet to be constructed and an explanation as to any adjustments to the estimates since the previous annual report;
 - d. Amount collected in Off-Site Levy; and
 - e. Specifics of the total value of Off-Site Levy being held by the County and yet to be expended on Projects, interest earned and commitments for future expenditures of such monies.

PART VIII: ENACTMENT

14. That this Bylaw shall come into force and take effect upon the date of third reading and signing in accordance with Section 213 of the Municipal Government Act, R.S.A. 2000 C.M-26, and amendments thereto.

Read a first time this 11th day of March, 2014.

Read a second time this 6th day of May, 2014.

Read a third and final time this 6th day of May, 2014 and finally passed by Council.

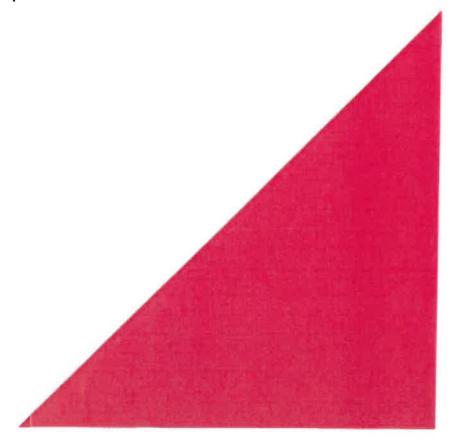
Reeve

Chief Administrative Officer



Lamont County
Industrial Heartland South Basin District Levy Report
Schedule "A" to Bylaw 739.14 Utility Potable Water
Bylaw 740.14 Transportation

Amended April 2014





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Date: Reference: Status: February, 2014 ED6037168 Draft

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Introduction

1.1 General

Lamont County has identified the Lamont Industrial Heartland South Basin District area as being a prime location for Medium Industrial development and is currently seeing growth into the area. This area is identified in the Alberta's Industrial Heartland Area Structure Plan.

It is expected that growth and development of these industrial lands will generally create some impact on the municipal infrastructure systems. Lamont County acknowledges that development requires an extension of municipal services such as water and roadways. As growth and development occur within the Lamont Industrial Heartland South Basin District, Lamont County will require the municipal infrastructure systems to be expanded to satisfactorily accommodate such growth. The planning horizon for the identified municipal improvements is a 20 year growth horizon.

Lamont County anticipates that development will be responsible for its own municipal infrastructure as well as for its proportionate share of the off-site infrastructure from which it will benefit. This is achieved through the assessment of Development Levies against the individual developers.

In September of 2013 Opus Stewart Weir completed a Transportation Master Plan and in January of 2014 Opus Stewart Weir Ltd. completed a Utility Master Plan outlining the servicing requirements for the continued development of the Lamont Industrial Heartland South Basin District area. This report is prepared for Lamont County identifying the projects that would be considered to be paid by a Levy and establishing the Levy rate for Lamont Industrial Heartland South Basin District area. The proposed levy rates are for the expressed capital infrastructure costs attributed the anticipated new development growth.

1.2 Legislative Authority & Process

Municipalities are authorized to implement and collect offsite levies through the Municipal Government Act (MGA), Division 6, Sections 647-649.

Lamont County implements its authority by establishing a bylaw which provides detailed offsite levy objectives and calculations. The bylaw is then applied to specific developments through a Development Agreement.

Lamont County will require all developers to enter into a Development Agreement. Within the Development Agreement the County will indicate the various service fees, securities or agreements that are required to support the approval of the development and the required offsite levy payments. The County will require these payments to be made at the time of entering into the agreement and prior to the issuance of the subdivision or development approvals.

Further or different offsite levies, duly enacted by Bylaw, on any portion of the Development Lands in respect of which the County has not collected the offsite levies imposed under Bylaws supported by this Report or any previous offsite levy bylaw authorized by statute are not precluded by the County.

Lamont County has a limited water distribution system in place that currently services three existing developments. One of the existing water customers does not have a permanent service connection as the current service is provided from the adjoining development property's private water service line.

With the exception of the two existing developments there is currently no municipal water distribution infrastructure in place. All identified lands outside these developments would be benefiting lands for the water distribution lines proposed within the Utility Master Plan and this Report. The existing industrial developments will see benefit from the planned construction as the proposed water line looping will ensure quality of potable water standards are maintained. The planned for water distribution network will be a closed system that will not see benefits outside of the identified benefiting lands.

For the transportation improvements identified within the Transportation Master Plan and this Report acknowledges that existing development and any future development will benefit from the improvements to the existing roads. The existing municipal grid roads where original constructed and primarily serviced local agricultural activities and a small number of existing industrial developments. The planned capital expenses are to see the identified grid roads improved from the standard agricultural grid road to an industrial strength haul road benefitting existing developments and future new developments.

1.3 Limits

The limits of the Lamont Industrial Heartland South Basin District levy application are as illustrated in Figure 1.2.



Figure 1.2

1.4 Development Levies

Development levies are defined as the capital cost assessed by Lamont County against subdivision or developing lands for their proportionate share of the costs for municipal infrastructure improvements as constructed by Lamont County or by a developer that benefit the Lamont Industrial Heartland South Basin District area.

The projects associated with the Levy Report are derived from the Transportation Master Plan and the Utility Master Plan documents enacted by Lamont Council. The specific projects identified have had a construction cost estimate prepared by responsible Engineering staff at Opus Stewart Weir. These cost estimates will be reviewed on an annual basis or earlier frequency as requested by Lamont County Council. Adjustments to the Levy rates will be issued at the conclusion of these reviews through an amending bylaw process.

1.4.1 Off-site Levies

Under authority of the Municipal Government Act, Lamont County is permitted to impose Off-site Levies against subdivisions or developments to cover the costs of any or all of the following:

- a) New or expanded facilities for the storage, transmission, treatment or supplying of water;
- b) New or expanded roads required for or impacted by a subdivision or development;
- c) Lands required for or in connection with any facilities described in (a) to (b) above.

1.5 Establishment of Criteria

1.5.1 Off-site Levy Criteria

Lamont County has established the following general assumptions as criteria for the development of levy calculations for the Lamont Industrial Heartland South Basin District,

- a) Lamont County will be responsible for the provision of the identified infrastructure systems and facilities which they deem to be a benefit to the County at large and/or a single development property.
- b) The Development Levies are generally based on constructing municipal improvements consistent with the requirements identified in the Transportation Master Plan and Utility Master Plan prepared for Lamont County by Opus Stewart Weir.
- c) The Offsite Levy rates are expressed on a per hectare basis.
- d) Gross Hectare is defined as the total area of a parcel(s) of land irrespective of their potential for development or land use.

- e) Gross Developable Area is the same as Gross Hectare. The Offsite levy rates contained in this document are based on Gross Hectare for the subdivision/development being applied for.
- f) All costs are estimated in 2014 dollars. These cost estimates should be reviewed annually to reflect current year construction costs.
- g) No inflation factor has been applied to future projects to predict their construction cost in future years.
- h) Should conditional grants be secured by the County towards a specific project, the project cost will be reduced by the amount of the grant.

Assumptions and/or calculation criteria specific to each offsite levy are further highlighted in more detail within each respective section of this report.

Clarification of intent, when it is stated that the County will continue to assume the responsibility for certain infrastructure systems and facilities which serve more than a single development area although the County accepts this responsibility, each development agreement can define whether the County or the developer designs and constructs these major facilities. If the development agreement establishes that the developer will undertake this work, then the development agreement will also establish the formula and schedule for an endeavour to assist clause for the recovery from other benefiting developments.

1.5.2 Municipal Reserve (MR) Criteria

For any industrial subdivision occurrence within the Lamont Industrial Heartland South Basin District, Municipal Reserve (MR) lands will not be required. In lieu of MR dedication the Developers will be required to pay to the County a sum equal to the fair market value of the MR land dedication as allowed for through the Municipal Government Act.

2 Water Utility

2.1 General

Lamont County's water supply is treated water purchased through the Capital Region Vegreville Corridor Water Services Commission. The treated water is then distributed by the County to its customers through its waterworks system consisting of water storage reservoirs and pumping facilities, and distribution mains.

2.2 Water System Expansion and Financing

Lamont County's position regarding its waterworks system expansion will be that subdivision developments will be responsible, at their entire cost, for the construction of all new distribution mains servicing the proposed subdivision development. Single site developments will be responsible for their own internal distribution service. Primary mains, treated water storage reservoirs and pumping facilities benefit the entire water distribution system and thus, the County has assumed responsibility for their construction. The costs of such facilities are then assessed proportionately against lands through an Off-site Water Levy.



FIGURE 2.2

Within the identified benefiting lands there are three existing water customers. One of these customers receives their water service via a temporary servicing connection provided through the lands of the neighbouring property; the proposed water distribution network is required for providing a permanent water service connection to this one existing development. The proposed water distribution improvements other than stated above are solely due to new development anticipated to occur within the planning horizon for the stated benefiting lands. The existing uses of the identified lands is primarily agriculture that do not connect to any water infrastructure. These lands have been districted as industrial and are anticipated to see future industrial developments to occur within the planning horizon.

Capital improvements to the water supply system operated by the Capital Region Vegreville Corridor Water Services Commission are not included in the County's Water Off-site Levy.

2.3 Water System Levy Development

Basic assumptions were made in the preparation of this report:

- a) Water supply would continue to be provided by the Capital Region Vegreville Corridor Water Services Commission who shall continue to be responsible for all capital improvements/expansions to the supply systems; such costs are therefore not included in the calculation of the County's Off-site Water Levy.
- b) The County will be responsible for the construction of all primary distribution mains, treated water storage reservoirs and pumping facilities inclusive any land requisitions to complete the installation of the required improvement.

- c) Conditional grants, such as those secured from the Provincial or Federal Government programs, will be applied to the specific projects, thereby reducing the overall project cost used in calculating the Water Off-site Water Levy Rate.
- d) Unconditional grants, even if applied against waterworks system improvements, will not be considered when calculating the Water Off-site Levy Rate as these funds could have been utilized on other municipal improvements.

Schedule B-1 outlines a cost estimate for the County's portion of each Utility Water project in 2014 dollars, as well as the Utility Water Off-site Levy rate.

3 Road Network System

3.1 General

The principle function of the County grid roads is to provide for the efficient movement of people, goods and services between the primary traffic generating developments to/from residential and supply/service areas of the community. Typically, County grid roads are designed as relatively free-flowing facilities, intersected by other arterial or major collector type roadways. Approach entrances to individual properties will be by County approval and in accordance with the Lamont County General Municipal Servicing Standards. No direct access will be approved for lots contained within an industrial subdivision. Where appropriate the County may require access to be via a service road.

County grid roadways are generally considered to be a greater benefit to the County at large than directly to individual developers. This does not, however, negate developers' responsibility to contribute their proportionate share towards the cost of the identified improvements to the County grid roads, since development is generating the need for these roadway improvements.

3.2 Road Network Levy Development

In conducting this study, it was necessary to make certain assumptions:

- a) Arterial roadways included in the Roadway Off-site Levy calculations are those highlighted in Figure 3.2.
- b) Arterial roadways will typically be constructed to an ultimate 2-lane, undivided, paved rural structure and are the standards upon which the cost estimates are based.
- A blanket assessment levy for roads is recommended against all development irrespective of land use.
- d) Right-of-ways to facilitate construction of arterial roadways will be acquired through the subdivision development process.
- e) Additional right-of-way requirements will be by negotiated purchase.

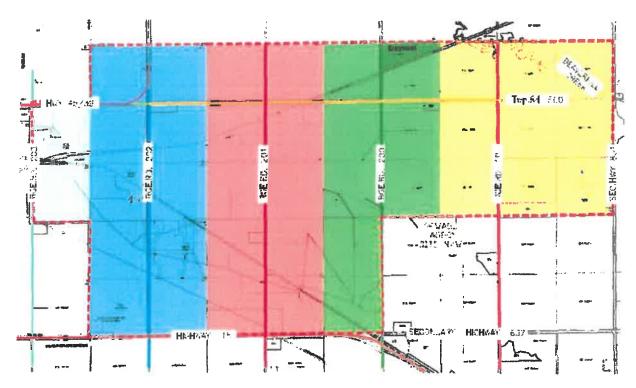


FIGURE 3.2

Schedule B-2 outlines a cost estimate for the County's portion of each arterial roadway in 2014 dollars, as well as the Roadway Off-site Levy rate.

4 Recommendations

Based on the findings of this study, it is recommended that:

- a) The levy rate is calculated on the gross hectares of the development area.
- b) The Lamont County continues to assume responsibility for the construction of the municipal infrastructure systems which they deem to be of benefit to the County at large.
- c) The County maintains its current thinking that development will be responsible for its proportionate share of the cost of municipal infrastructure systems expansion through the assessment of Development Levies against all benefiting lands.
- d) Reviewing the Development Levies on a regular annual basis to ensure that the rates are consistent with the overall County funding requirements.
- e) The Levy be established as follows:

Total affect area:

Total water construction costs: Total transportation costs:

2525 hectares \$21,282,453

\$49,451,000

Waterworks Levy \$8,429.00 / ha

Transportation Levy \$19,585.00/ ha

The total Levy be set at \$28,014.00/ ha

SCHEDULE B-1



Industrial Utility Master Plan Preliminary Construction Cost Estimate - Phase 1

Lamont County Prepared by Opus Stewart Weir

06-Feb-14

No.	trees	Describing	AND IN STREET	Unit	Unit Proc	Extension
1	Mobilization and De-Mobilization	Transport all required materials and equipment to and from the site; supply and erect signs and markings to delinate the site; traffic control and diversions; supply and erect site offices; all other initial site works; removal, clearing and restoration upon completion	1	ıs	\$ 100.000.00	

Water Main

No	ikm .	Description	August day	Ung		Unit Price	1	Ривичест
2	200mm dia AWWA PVC C900 Water main	Supply and install 200mm dia. PVC water main in Class 19 bedding including all trenching, dewatering, thrust blocking, backfilling and compection to subgrade elevation, and surface restoration. 3m minimum depth of bury.	9958		3	341.28	5	8.295.110.0
3	100mm dia, AWWA C609 Gate Valve	Supply and Install 100mm dia Gafe Valve, Including all necessary fittings, tranching, Class 'B' bedding, backfilling, thrust blocking, casing, operating rod and cathodic protection.	5	each	1 5	2.525.00		13.125.0
4	200mm dia. AWWA C509 Gate Valve	Supply and install 200mm dia Gate Vaive, including all necessary fittings, trenching, Class 18 bedding, backfilling, thrust blocking, casing, operating rod and cathodic protection.	2	each	5	3.150.00		6,300,0
5	200×100×200×100dia. Cross	Supply and install 200×100×200×100 dia, Cross PVC AWWA C600 cross in Class 'S' bedding including all trenching, backfilling and thrust blocking.	1	apch	1	1,680,00		1.680.00
6	200×200×100 dia, Tee	Supply and install 200×200×100 dla. Tee in Class 'B' bedding including all trenching, backfilling and thrust blocking.	3	each	5	945.00		2,835.00
7	200×200×200 dia, Tea	Supply and Install 200×200×200 dis. Tee In Class 'B' bedding including all trenching, backfilling and thrust blocking.		each		1.050.00	8	1,050,00
8	200 dia. Plug	Supply and instalization dis. PVC AWWA 0900 plug	2	each		526.00	8	1,050.00
9	Flush Point	Supply and install Flush Point	1	each	\$	3,676,00	-	3,675,00
10	Flushing			is	5	10,500,00	-5	10.500.00
11	Pressure and dishifection testing		1	la		10,500,00		10,500.00
12	Utilities Crossing		3	each	s	6,300.00		
13	Land acquisition							16,900,00
14	main	Tie new water main into existing 200 mm dia, watermains, including excavation, locates of existing utilities, supply 4 installation of necessary littings of tie-in location such as coupling(s), timust blooking, bedding, reinstatement of any bedding of any utilities that have been exposed and backfill and compaction and surface sustemation.	9,656	each	3	48,420.00 12,000.00		12,000.00

Subtotal (Water) =

3,853,924.52

Construction Cost Estimate Summary

item	Total
Mobilization and De-Mobilization=	\$ 100,000
Subtotal Water=	\$ 3,853,925

Sub-Total = \$ 3,953,925

Contingency (20%) = \$ 791,000

Engineering Fee (12%) = \$

Total Estimated Construction Cost = \$ 4,744,925



Industria! Utility Master Plan Preliminary Construction Cost Estimate - Phase 2

Lamont County
Prepared by Opus Stewart Weir

06-Feb-14

Mobilizat	ion and	De-Mobiil	zation

No.	Rem	Dregration	App.ox Qb	Unit	Und Page	Externoun
	bilization and Mobilization	Transport all required materials and equipment to and from the eite; supply and erect signs and markings to delineate the eite; terrile control and diversions; supply and erect also offices; all other infiled afte works; removed, clearing and restoration upon completion	1	LS	\$ 100,000.00	\$ 100,000,0

Water Main

No.	No. 62	Detrippen	Appille Day	Und		Link Price		Eutenmen
2	200mm dia AWWA PVC C900 Water main	Supply and Install 200mm dia. PVC water main in Class 8' bedding induding all trenching, dewatering, thrust blocking, backfilling and compaction to subgreade elevation, and auriace restoration. 3m minimum depth of bury.		m	8	341,26	8	2,221,537,50
3	100mm dia. AWWA C509 Gate Valve	Supply and install 100mm die Gate Valve, including all nécessary fittings, trenching, Class 'B' betiding, backfilling, thrust blocking, casing, operating rod and cathodic protection.	12	each	s	2,625,00	\$	31,500,00
4	200mm dia, AWWA C509 Gate Valve	Supply and install 200mm dis Gale Valve, including all necessary fittings, tranching, Clase 15' badding, backfilling, thrust blodding, casing, operating rod and cathodic protection.	11	each		3,150,00		34,850,00
5	200×100×200×100dis. Cross	Supply and install 200×100×200×100 dia. Cross PVC AWWA C800 cross in Class 'B' bedding including all trenching, backfilling and thrust blocking.	4	each	5	1,680,00	5	6.720.00
6	200×200×100 dia. Tee	Supply and install 200×200×100 dia. Tee in Class 'B' bedding including all trenching, backfilling and thrust blocking.	4	each	5	945.00		3,780.00
7	200×200×200 dia. Tee	Supply and Install 200×200×200 die. Tee in Class 'B' bedding including all trenching, backfilling and thrust blocking.	2	each	,	1,050,00	s	2,100,00
8	200 dia. Plug	Supply and Instalization dia. PVC AWWA C900 plug	2	each	\$	525.00	s	1,050.00
9	Flushing		1	la .	1	10,500.00		10,500.00
10	Pressure and disinfection testing		1	is	8	10,500,00		10,500.00
11	Utilities Crossing		5	each	5	8.300.00		31,500.00
12	Land ecquisition		8.51	hectare		49,420,00		321,724.20
13	Tie Into existing Water main	Tile new water main into existing 200 mm dia. watermains, inokuding excavation, locates of existing utilities, supply & Installation of necessary fittings et die-in location such as coupling(s), thrust blocking, bedding, reinstatement of any bedding of any utilities that have been exposed and beddill and compaction and surface restoration.	2	each	3	12,000.00		24,000,00

Subtotal (Water) =

2.699.561.70

Construction Cost Estimate Summary

ltem .	Total
Mobilization and De-Mobilization=	\$ 100,000
Subtotal Water=	\$ 2,699,562

Sub-Total = \$ 2,799,562

Contingency (20%) = \$ 560,000

Engineering Fee (12%) = \$ 336,000

Total Estimated Construction Cost = \$ 3,359,562



Industrial Utility Master Plan Preliminary Construction Cost Estimate - Phase 3

Lamont County

Prepared by Opus Stewart Wair

06-Feb-14

Mobi	lization and D	e-Mobilization				
H	Rene	Description	Appror Go	Unit	Unit Page	Extension
1	Mobilization and De-Mobilization	Transport all required materials and equipment to and from the site; supply and erect signs and markings to delineate the site; traffic control and diversions; supply and erect site offices; all other initial site works; removal, clearing and restoration upon completion	1	LS	\$ 100,000.00	\$ 100,000,00

Subtotal (Mobilization and De-Mobilization)= \$

100,000.00

Wa	ter	Ma	П

No	linn	Description	Apple Oty	Umf		Unit Price		Extension
2	200mm dia #.WWA PVC C900 Water main	Supply and Install 200mm dis. PVC water main in Class 'B' bedding including all trenching, description that the backgroup and	6500	m	s	341.25		2.210.125.00
3	100mm die. AWWA C509 Gate Valve	Supply and install 100mm dia Gate Velve, including all necessary filtings, trenching, Class 'B' bedding, backfilling, thrust blocking, casing, operating rod and eathodic protection.	12	each	s	2.625.00		31.500.00
4	200mm dia. AWWA C509 Gate Valve	Supply and install 200mm die Gete Valve, Including all necessary fittings, trenching, Class 15' bedding, backfilling, thrust blocking, casing, operating rod and cathodic protection.	12	each	s	3.150.00	8	37 800 00
5	200×100×200×100dle. Cross	Supply and install 200×100×200×100 die. Cross PVC AWWA C900 cross in Class 'B' bedding including all trenching, backfilling and thrust blocking.	4	each		1,880,00		6.720.00
6	200×200×100 dla. Tee	Supply and install 200×200×100 dis. Tee in Class 'B' bedding including all trenching, backfilling and thrust blocking.	4	each		945.00		3.780.00
7	200×200×200 dia. Tee	Supply and install 200*200*200 dia. Tee in Class 'B' bedding including all trenching, backfilling and thrust blocking.	3	each	s	1.050.00	s	3.150.00
8	200 dia, Plug	Supply and Install200 dia. PVC MWWA C800 plug	3	each				1,575.00
10	Flushing		1	la la	s	10,500,00	-	10.500.00
11	Pressure and disinfection testing		1	is	s	10.500.00		10.500.00
12	Utilities Crossing		6	each	8	6.300.00		37,800.00
13	Land acquisition							
14	Tie into existing Water main	Tie new water main into existing 200 mm dia. watermains, including excavation, locaties of existing utilities, supply & installation of necessary filtings at the in location such as coupling(c), what shocking, bedding, reinstalement of any bedding of any utilities that have been exposed and backtil and compaction and surface restoration.	6.5	hectars	\$	49.420.00 12.000.00	\$	321,230.00

Subtotal (Water) = \$ 2,708,680.00

Construction Cost Estimate Summary

İtem	Total
Mobilization and De-Mobilization=	\$ 100,000
Subtota! Water=	\$ 2,706,680

Sub-Total = \$ 2,806,680

Contingency (20%) = \$ 562,000

Engineering Fee (12%) = \$

Total Estimated Construction Cost = \$ 3,368,680



Industrial Utility Master Plan

Preliminary Construction Cost Estimate - Phase 4

Lamont Count,

Prepared by Opus Stermart Weir

07-feb-14

Mobilization and De-Mobilization

			1			
ale	front	Description	ABPMA GIV	Unit	Unit Price	Extension,
1	Mebization and De-Mobilization	Transport all required materials and equipment to and from the site; supply and erect signs and markings to delineate the site; traffic control and diversions; supply and erect site offices; all other initial site works; removal, clearing and restoration upon completion		ts.	\$ 100,000.00	# 100.000.00

Subtotal (Mobilization and De-Mobilization)≈ \$

100,000.00

	Mair	

Ma	ltem	Descripcop	Approx Qi	Unit	-	Uni Price	1	Perturnation
2	200mm dia AWWA PVC C900 Water main	Supply and install 200mm dia. PVC water mein in Class 19 bedding including all trenching, dewatering, thrust blocking, backfilling and compaction to subgrade elevation, and surface restoration. 3m minimum depth of bury.	6500	m		841.25	5	2 218 125,00
3	100mm dis. AWWA C509 Gate Valve	Supply and Install 100mm dia Gate Valve, including all necessary fittings, trenching, Class 15 bedding, backfilting, thrust blocking, casing, operating rod and cathodic protection.	Б	each	s	2,825.00	5	15.750.00
4	200mm dis. AWWA C509 Gate Valve	Supply and Install 200mm dia Gate Valve, including all necessary fittings, trenching, Class 15' bedding, backfilling, thrust blocking, casing, operating rod and cathodic protection.	9	each		3,150,00		28.350.00
5	200×200×100 dia. Tee	Supply and Install 200×200×100 dia. Tee in Class 'B' bedding including all trenching, backfilling and thrust blocking.	6	each		946.00	5	5,670,00
6	200×200×200 dia. Tea	Supply and install 200×200×200 dia. Tee in Class B' bedding including all trenching, beddilling and thrust blocking.	1	each	5	1.050.00		1.050.00
7	200 dia. Plug	Supply and instalized dia. PVC AWWA C900 plug	3	each	2	525.00		1,575.00
8	200 dis. 90 degree bend	Supply and install 150 dis. PVC AWWA C909 45 degree band. Includes thrust block.	1	each		630.00		830,00
0	Water storage tank	Supply and Install 1500 m ² concrete water storage tank.		m ³	s	282.50		-
10	Flushing		1	ls.		10.500.00	2	10.500.00
11	Pressure and disinfection testing		,	ls.	5	10,600.00	8	10.500.00
12	Litilities Crossing	\(\frac{1}{2}\)	3	each		6.300.00	3	18.900.00
13	Land acquisition					45.450.45		
14	Tile into existing Water main	The new water main into existing 200 mm dia, watermains, including excavation, locates of existing utilities, supply & installation of necessary fittings at tie-in location such as coupling(s), thrust blocking, bedding, reinstalament of any bedding of any utilities that have been exposed and backfill and compaction and surface restoration.	6.5	each	\$	48,420.00 12,000.00	8	321,230.00 24,000.00

Subtotal (Water) ≈ \$ 2,656,280.00

Construction Cost Estimate Summary

iterio.	Total
Mobilization and De-Mobilization=	\$ 100,000
Subtotal Water=	\$ 2,656,280

Sub-Total = \$ 2,756,280

Contingency (20%) = \$ 552,000

Engineering Fee (12%) = \$ 331,000

Total Estimated Construction Cost = \$ 3,308,280



Industrial Utility Master Plan Preliminary Construction Cost Estimate - Phase 5

Lamont Count,

Prepared by Opus Stewart Weir

07-Feb-14

Mobilization and De-Mobilization

tio	Baro	Description	Spaces Ote	Und	Unit Phon	Extension
1 Mobiliza Da-Mob	tiòn and ilization	Transport all required materials and equipment to and from the site; supply and erect signs and markings to delinastic the site; traffic control and diversions; supply and erect site offices; all other initial site works; removal, clearing and jestoration upon completion	1	L6	\$ 100,000,00	\$ 100,000.0

Water Main

Ne	bt.n	Dougly-hon	PRO. W. Gby	Unit		Una Price		Extension
2	200mm dia AWWA PVC CS00 Water main	Supply and Install 200mm dia. PVC water main in Class 8' bedding including all trenching, dewatering, thrush blocking, backlilling and compaction to subgrade elevation, and surface restoration. 3m minimum depth of bury.		m	8	341.25	\$	4,538,625.00
3	200mm dia. AWWA C509 Gate Valve	Supply and install 200mm dia Gate Valve, including all necessary fillings, trenching, Class 1th badding, backfilling, thrust blocking, cashing, operating rid and cathodic protection.	16	each		3,150.00		50,400.00
4	200×200×100 dia. Tee	Supply and install 200×200×100 die. Tee in Class 'B' bedding including all trenching, backfilling and thrust blocking.	1	each	5	945.00	s	945.00
5	200 dia, Plug	Supply and install200 dis. PVC AWWA C900 plug	3	each	8	526.00	3	1.575.00
8	Flush point	Supply and Install Flush Point	1	each	\$	3,675.00	\$	3,675.00
7	Flushing		1	ls	s	10.500.00		10.500.00
8	Pressure and disinfection testing	= ==	1	lš		10,500.00		10,500,00
0	Litilities Crossing		5	each	s	6,300.00		81,500.00
10					Ť	2,000.102	_	
	Land acquisition		13.3	hectere	5	49.420.00	•	657 285 00
11	Tie into existing Water main	The new water main into existing 200 mm dis. watermains, including excavation, locates of existing utilities, supply & Installation of necessary fittings at its -in location such as coupling(s), thrust blocking, bedding, reinstatement of any badding of any utilities that have been exposed and backfill and compaction and surface restoration.	1	each	\$	12,000.00		12,000.00

Subtotal (Water) = \$ 5,317,006.00

Construction Cost Estimate Summary

ltem .	Total
Mobilization and De-Mobilization=	\$ 100,000
Subtotal Water=	\$ 5,317,006

Sub-Total = \$ 5,417,006

Contingency (20%) = \$ 1,084,000

Engineering Fee (12%) = \$ 661,000

Total Estimated Construction Cost = \$ 6,501,006

SCHEDULE B-2



Lamont County Roads - Range Road 195

Date: January 31, 2014

File No.

ED60 37168

Lamont County

Grading/Base/Pave of RR 195 from Hwy. 15 to N. of Twp. Rd. 560

Length:

4.05 km

			ESTIMATE	TINO	
- 1	MET	UNIT	QUANTITY	PRICE	TOTAL
- 1	(Mobilization (10%)	Lumo Sum	-	\$527 907 5n	6627 007 ED
N	Supply of Aggregate		50 57E	20.100,110	405.150.130
	3 Common Excavation		CIC'OC	90.00	00.c78/2024
4	Borrow Excepation	211	92,000	\$9.00	\$738,000.00
·	To T	EE .	39,000	\$21.00	\$819,000.00
	Cuivert Supply and	E	02	\$250.00	\$17,500.00
0 1	Bridge File 00232 - Replace WiStandard Bridge	Lump Sum	-	\$600.000.00	\$600,000 00
	/ Suracing Grave	•	4,000	\$32.00	\$128,000,00
	Subgrade Preparation	m2	54.675	\$2.00	\$109.350.00
- 1	9 Granular Base Course	-	36.045	\$30.00	\$1 081 350 OO
	10 Asphalt Concrete Pavement		10.530	\$400 DD	64,000,000
- 1	11 Miscellaneous items (signage, fencing, etc.)	Lump Sum		\$480 000 no	6480 000 000 000 000 000 000 000 000 000
					מיסיסיסים בי
	Contract:			Total	\$5,806,982.50
1	Subtrotal (munded)				
1	Company (Company)				\$5,807,000.00
1	Contingency (10%)				\$580,700.00
- 1	Crigingering				\$615,700.00
- 1	California				\$110.000.00
- 1	CPR Crossing				\$0.00
- 1	Land Costs				\$400,000,00
	Total Estimated Cost:				20122212

Remarks

\$7,514,000.00

- Land costs estimated based on 20 m x length of road @ \$20,000/acre. Per acre costs based on Lamont County Estimate
 CPR Crossing costs assume track crossing replacement only, (le. nic. traffic controls)
 Borrow and aggregate costs assume Contractor-supplied
 Construction is assumed to be staged (grading stage 1; base/pave stage 2) and as such surfacing gravel has been included



Lamont County Roads - Range Road 200

Date: January 31, 2014

File No.

ED60 37168

Lamont County

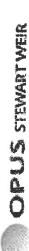
Grading/Base/Pave of RR 200 from Hwy. 15 to N. of Twp. Rd. 560

Length:

4.05 km

MEM		ESTIMATE	LIND	
Mahilitation (400)	INC.	GUANITI	PRICE	TOTAL
INDUINCALIUI (1070)	Lump Sum	-	\$492,807.50	\$492,807.50
Supply of Aggregate		50,575	\$5.00	\$252,875.00
Common Excavation	m3	81,000	\$9.00	\$729,000,00
Borrow Excavation	EE 3	39.000	\$21.00	\$819 000 00
5 Culvert Supply and Install	E	150	\$250.00	\$37,500,00
Bridge File 00232 - Replace w/SPCSP Culvert	Lump Sum	-	\$270,000,00	\$270,000,00
Surfacing Gravel		4,000	\$32.00	\$128,000,00
Subgrade Preparation	m2	54,675	\$2.00	\$109,350.00
9 Granular Base Course	-	36,045	\$30.00	\$1,081,350,00
10 Asphalt Concrete Pavement		10.530	\$100.00	\$1 053 000 00
11 Miscellaneous items (signage, fencing, etc.)	Lump Sum	-	\$448,000.00	\$448,000.00
Contract:			Total	\$5,420,882.50
Subtotal (rounded)				
Contingency (10%)				35,421,U0U.UU
Engineering				\$542,100.00
Utilities				\$565,100.00
CPR Crossing				\$50,000.00
Land Costs				\$70,000.00
Total Estimated Cost				\$400 000.00

- Land costs estimated based on 20 m x length of road @ \$20,000/sore. Per acre costs based on Lamont County Estimate
 CPR Crossing costs assume track crossing replacement only, (ie. nic. traffic controls)
 Borrow and aggregate costs assume Contractor-supplied
 Construction is assumed to be staged (grading stage 1; base/pave stage 2) and as such surfacing gravel has been included



Lamont County Roads Range Road 201

Date: January 31, 2014

File No.

ED60 37168

Lamont County

Grading/Base/Pave of RR 201 from Hwy. 15 to N. of Twp. Rd. 560

Length:

4.05 km

		ESTIMATE	TIND	
ITEM	TINO	QUANTITY	PRICE	TOTAL
Mobilization (10%)	Lump Sum	-	\$462.407.50	\$462 407 50
2 Supply of Aggregate	-	50.575	\$5.00	\$252 875 00
3 Common Excavation	m3	82,000	89.00	\$738,000.00
Borrow Excavation	m3	39,000	\$21.00	\$819,000.00
5 Culvert Supply and Install	E	06	\$250.00	\$22,500.00
6 Surfacing Gravel	+-	4,000	\$32.00	\$128,000.00
7 Subgrade Preparation	m2	54,675	\$2.00	\$109.350.00
8 Granular Base Course	-	36,045	\$30.00	\$1.081,350,00
9 Asphalt Concrete Pavement	**	10,530	\$100.00	\$1,053,000,00
10 Miscellaneous items (signage, fencing, etc.)	Lump Sum	-	\$420,000.00	\$420,000.00
Contract:	40		Total	\$5,086,482.50
Subtotal (rounded)				100
Contingency (10%)				45,007,000,00
Engineering				4500, TOO.00
Utilities				00'00'100'4
CPR Crossing				#40,000,000 #70,000,000
Land Costs				\$400,000,00
Total Estimated Cost:				Pe con pop co

- Land costs estimated based on 20 m x length of road @ \$20,000/acre. Per acre costs based on Lamont County Estimate
 - CPR Crossing costs assume frack crossing replacement only, (ie. nic. traffic controls)
- Borrow and aggregate costs assume Contractor-supplied
 Construction is assumed to be staged (grading stage 1; base/pave stage 2) and as such surfacing gravel has been included



Lamont County Roads - Township Road 560

Date: January 31, 2014

File No.

ED60 37168

Lamont County

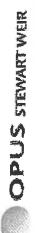
Grading/Base/Pave of Twp. Rd. 560 from RR 202 to Hwy. 831

Length:

6.4 km

		ESTIMATE	LINO	
	UNIT	QUANTITY	PRICE	TOTAL
Mobilization (10%)	Lump Sum	-	\$769,710,00	\$769.710.00
Supply of Aggregate	ļ	79,600	\$5.00	\$398,000,00
Common Excavation	m3	127,000	\$9.00	\$1,143,000,00
Borrow Excavation	EM3	61.000	\$21.00	\$1 281 000 00
5 Culvert Supply and Install	E	150	\$250.00	\$37.500.00
Bridge Files 00222 and 00666	Lump Sum	2	\$200,000.00	\$400.000.00
/ Surfacing Gravel	t	6,000	\$32.00	\$192,000.00
Subgrade Preparation	m2	86,400	\$2.00	\$172,800.00
9 Granular Base Course		56,960	\$30.00	\$1,708,800,00
10 Asphalt Concrete Pavement	_	16.840	\$100.00	\$1 684 DOD DO
11 Miscellaneous items (signage, fencing, etc.)	Lump Sum	-	\$700,000.00	\$700,000,00
Contract:			Total	\$8,466,810.00
Subtotal (rounded)				104
Contingency (10%)				30,407,000,00
Engineering				\$640,700,00
Utilities				\$540,700.00
CPR Crossing				400,000,000
Land Costs				#00,000,000
Total Estimated Cost:				מחיחחחיחה

- Land costs estimated based on 20 m x length of road @ \$20,000/acre. Per acre costs based on Lamont County Estimate
 CPR Crossing costs assume track crossing replacement only, (ie. nic. traffic controls)
 Borrow and aggregate costs assume Contractor-supplied
 Construction is assumed to be staged (grading stage 1; base/pave stage 2) and as such surfacing gravel has been included



Lamont County Roads Range Road 202 (GEN estimate)

Date: January 31, 2014

File No.

ED60 37168

Lamont County

Grading/Base/Pave of RR 202 from Hwy. 15 to Twp. Rd. 560

Length:

3.25 km

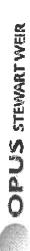
			ESTIMATE	TINO	
1		LIND	QUANTITY	PRICE	TOTAL
-[-	MIODILIZETION (10%)	Lump Sum	-	\$836,091.50	\$836,091.50
ul.	Z Suppry of Aggregate	4	43,551	\$5.00	\$217,755.00
n	Grading - Costs based on 2010 Resource Road Grant Funding estimate provided by Lamont County, with escalation to 2014 dollar values using 2.5% compounded annually, includes Grading, INT treatments, RR crossing improvements	Lump Sum	-	\$5,270,660.00	\$5,270,660.00
4	Subgrade Preparation	C	0.00		
LC;	Granular Base Course	IIIK	C/C'AC	\$2.00	\$100,750.00
6	Arnual Console Descende	-	33,475	\$30.00	\$1,004,250,00
	Mitchellanders Hawa	-	10,075	\$100.00	\$1,007,500.00
	missoliancous idens (signage, leftcing, etc.)	Lump Sum		\$760,000.00	\$760,000.00
1	Confract:				
1				Total	\$9,197,006.50
	Subtotal (rounded)				
	Contingency (10%)				29,198,000.00
	Enginearing				\$919,800.00
1	[Filthon				\$919,800.00
1	CPR Crossing finched in item 3 shows				\$160,000.00
	land Costs				\$0.00
1	Total Felimental Cost				\$160,000.00
1					644 259 000 00

Remarks

- Land costs estimated based on 20 m x length of road @ \$20,000/acre. Per acre costs based on Lamont County Estimate

\$11,358,000.00

- CPR Crossing costs assume track crossing replacement only, (ie. nic. traffic controls)
 Borrow and aggregate costs assume Contractor-supplied
 Construction is assumed to be staged (grading stage 1; base/pave stage 2) and as such surfacing gravel has been included



Lamont County Roads Range Road 203

Date: January 31, 2014

File No.

ED60 37168

Lamont County

Grading/Base/Pave of RR 203 from Hwy. 15 to Hwy. 45

Length:

3.25 km

H					
	TI REAL		ESTIMATE	TIND	
1		TIND	QUANTITY	PRICE	TOTAL
-	WODIIZation (10%)	Fump Sum	-	\$369,937,50	\$360 037 En
N	2 Supply of Aggregate	-	A0 275	00.100	00.100,000
n	Common Excavation	3, 000	00000	00.00	00.678,1024
4	Borrow Excavation	2	000'00	98.00	\$584,000.00
ŀ	Culvert Cumb and install	26	31,000	\$21.00	\$651,000.00
s a	Control Cupping and Illa	٤	80	\$250.00	\$20,000.00
0 1			3,000	\$32.00	\$96,000.00
-[Subgrade Preparation	ш2	43,875	\$2.00	\$87.750.00
	Granular Base Course		28,925	\$30.00	\$867 750 00
6	Asphalt Concrete Pavement		8 450	\$100.00	\$94F 000 00
의	10 Miscellaneous items (signage, fencing, etc.)	Lump Sum		\$336 000 00	\$336 000 00
					2000
	Contract:				
l				Total	\$4,069,312.50
	Subtotal (rounded)				
	Contingency (10%)			1	\$4,070,000.00
	Engineering				\$407,000.00
					\$407,000.00
					\$170,000.00
	- Constitution of the cons				\$450,000.00
	Total Estimated Costs				\$320,000.00
ŀ	Total Estilliated COSt.				\$5 224 DAY ON

- Land costs estimated based on 20 m x length of road @ \$20,000/acre. Per acre costs based on Lamont County Estimate
- CPR Crossing costs assume track crossing replacement only, (ie. nic. traffic controls)
 Borrow and aggregate costs assume Contractor-supplied
 Construction is assumed to be staged (grading stage 1; base/pave stage 2) and as such surfacing gravel has been included



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