

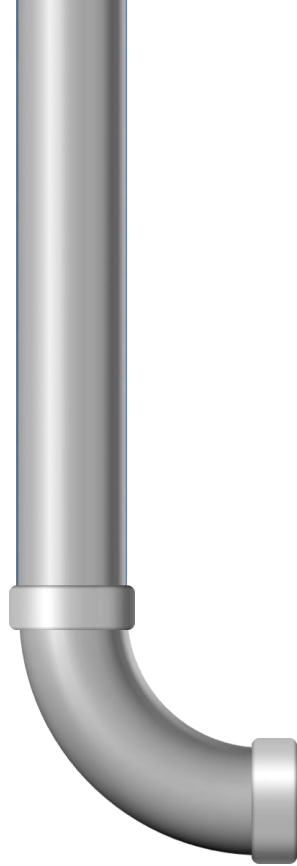


Infrastructure Project

April – Today - Forward

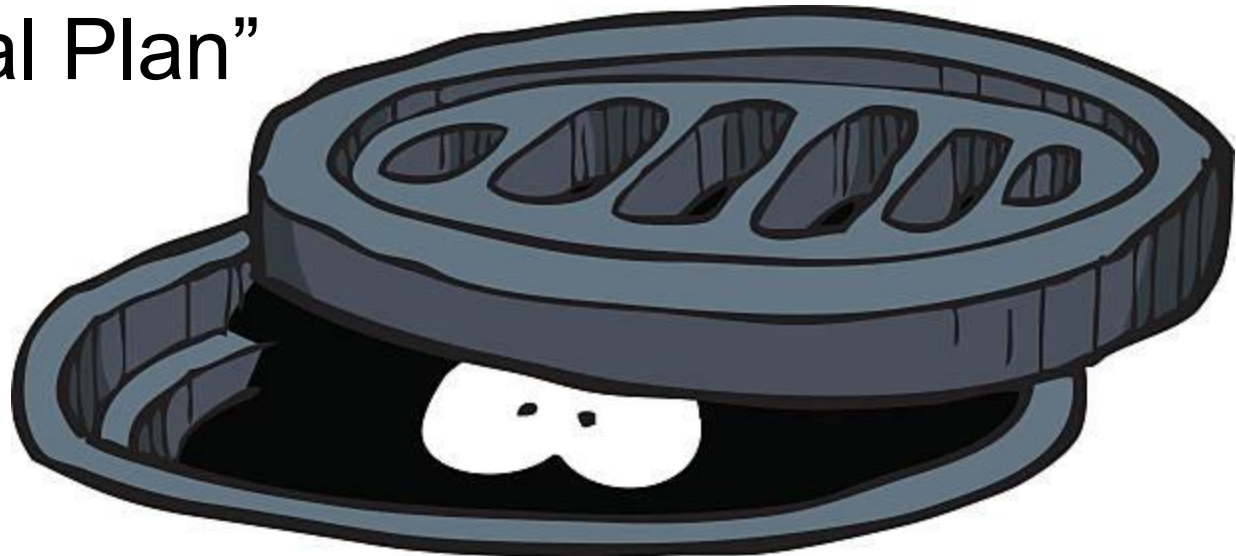
Discussion Topics

- Quick Recap
- Closer to the Final Plan
- Moving Forward



Quick Recap

- Series of Meetings
 - Water, Sewer, Road
 - Ballot Initiative
 - \$20+/- per month (EDU)
- “Not the Final Plan”



Survey

- Question
 - Not Needed: 0.8%
 - Too Big: 0.8%
 - Just Right: 78.2%
 - Not Big Enough: 19.3%
- Question
 - Council Action: 83.3%
 - To the Voters: 16.7%

PDG Revisited Numbers

- \$19.25M - \$19.99M

- Water & Sewer \$13.3M (EDU)

- Road \$ 6.6M

- EDU

- Water \$7.50

- Sewer \$5.53

=====

TOTAL

\$13.03 / month / 30 years

USDA Grants

PDG Revisited Numbers

- Road at \$6.6M
- Ratio of W/S:R makes it difficult to justify full project cost to USDA
- Work Around – Hybrid: Project A & B

Hybrid Infrastructure Projects

Project A

(above ground)

- Roads
- Bond & Levy
- \$6.6M
 - 20 Year
 - 3.00 Mil Street Levy.



=====
\$?.??

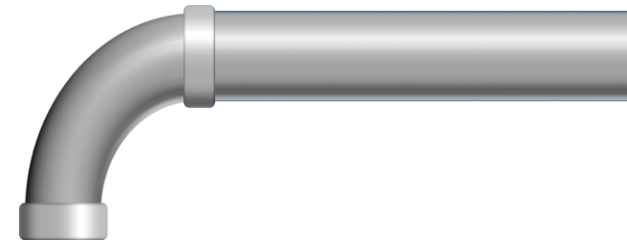
Project B

(below ground)

- Water / Sewer
- Maintain EDU
 - Water: \$ 7.50
 - Sewer: \$ 5.53.



=====
\$13.03



$$a^2 = 2ab + b^2 = (a+b)^2$$

$$\cos \frac{A}{2} = \sqrt{\frac{1+\cos A}{2}}$$

$$x^2 - a^2 = (x+a)(x-a)$$



$$\lim_{h \rightarrow 0} \frac{f(x_0+h) - f(x_0)}{h}$$

$$\sinh(x) = \frac{e^x - e^{-x}}{2}$$

$$\sin \frac{A}{2} = \frac{1 - \cos A}{2}$$

$$S = \sum_{i=1}^n (x_i - \bar{x})^2$$

$$\log_n m = \frac{\log m}{\log n}$$

$$C_{n,r} = \binom{n}{r} = \frac{n!}{(n-r)!r!}$$

$$x^2 + 2ax + a^2 = (x+a)^2$$



$$\cos(-x) = \cos(x)$$

$$1. P \rightarrow r$$

$$2. q \rightarrow s$$

$$3. p \vee q$$

$$\csc(x) = \frac{1}{\sin(x)}$$

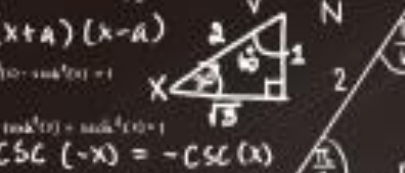
$$\sim \forall x [\sim p(x)] \equiv \exists x [p(x)]$$

$$\vec{U} + \vec{V} = \vec{V} + \vec{U}$$

$$x^2 - 2ax + a^2 = (x-a)^2$$

$$\partial_n = \partial_{1^n} r^{n-1}$$

$$\bar{x} = \frac{\sum_{i=1}^n x_i}{n}$$



$$\csc(-x) = -\csc(x)$$

$$X_{k+1} = (X_k + y/X_k)^{n-1} / 2$$

$$\text{arcsin}(z) = \ln(z + \sqrt{z^2 + 1})$$

$$\cot(-x) = -\cot(x)$$

$$C_{n,r} = \binom{n}{r} = \frac{n!}{(n-r)!r!}$$

$$x^2 + 2ax + a^2 = (x+a)^2$$

$$\csc(x) = \frac{1}{\sin(x)}$$

$$1. P \rightarrow r$$

$$2. q \rightarrow s$$

$$3. p \vee q$$

$$\csc(x) = \frac{1}{\sin(x)}$$

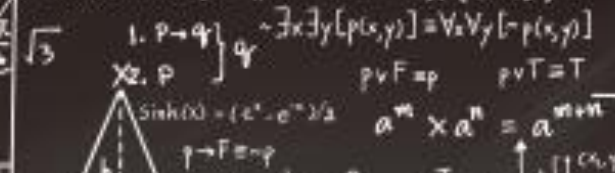
$$\sim \forall x [\sim p(x)] \equiv \exists x [p(x)]$$

$$\vec{U} + \vec{V} = \vec{V} + \vec{U}$$

$$x^2 - 2ax + a^2 = (x-a)^2$$

$$\partial_n = \partial_{1^n} r^{n-1}$$

$$\text{arccoth}(z) = 1/2 \ln((z+1)/(z-1))$$



$$a^m \times a^n = a^{m+n}$$

$$y_{i+1} = y_i + X_n(b - a y_i)$$

$$\text{tanh}(x) = \sinh(x)/\cosh(x) = (e^x - e^{-x})/(e^x + e^{-x})$$

$$\text{coth}^2(x) - \text{csch}^2(x) = 1$$

$$\text{arcsch}(z) = \ln(1 + \sqrt{1+z^2})/z$$

$$\tan h(z) = -i \tan(iz)$$

$$\text{sech}(z) = \text{Sec}(iz)$$

$$y_0 = b X_n$$

$$X = y^2$$

$$(ab)^m = a^m b^m$$

$$\text{Rectangle} = ab$$

$$y_{i+1} = y_i + (X_n/2)(a - y_i^2)$$

$$X_{n+1} = (X_n/2)(3 - a X_n^2)$$

$$P_{n,r} = \frac{n!}{(n-r)!}$$

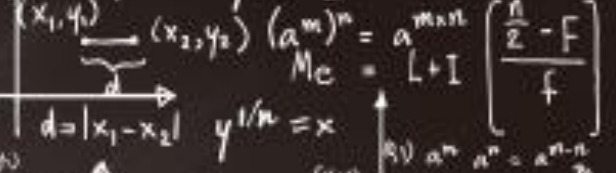
$$\frac{P(x)}{Q(x)} = G(x) + \frac{R(x)}{Q(x)}$$

$$\sin(-x) = -\sin(x)$$

$$\sim \exists x [p(x)] \equiv \forall x [p(x)]$$

$$180^\circ$$

$$\coth(z) = i \cot(iz) \sinh(z) = i \sin(iz) \partial_n = \partial_{1^n} (n-1) d$$



$$\sqrt{A} = y_i * 2 \exp f(x_0+h) - f(x_0)$$

$$(a^m)^n = a^{m \times n}$$

$$Me = L + I \left[\frac{n/2 - F}{f} \right]$$

$$\sec(-x) = \sec(x)$$

$$\tan(-x) = -\tan(x)$$

$$\text{arcsch}(z) = \ln(1 + \sqrt{1+z^2})/z$$

$$\tan h(z) = -i \tan(iz)$$

$$a^0 = 1 [a \neq 0]$$

$$a^x = 10^x [a > 0]$$

$$\csc(x) = \frac{1}{\sin(x)}$$

$$b^2 = (a+b)^2$$

$$\sin(-x) = -\sin(x)$$

$$\sim \exists x [p(x)] \equiv \forall x [p(x)]$$

$$\frac{P(x)}{Q(x)} = G(x) + \frac{R(x)}{Q(x)}$$

$$180^\circ$$



MATH



Street Levy

OCA Appraisal	=	\$100,000.00
Assessed 35%	=	\$ 35,000.00
Mils of Levy	=	3.00 mils
Millage Value	=	0.001 (mathematical constant)

$$\begin{aligned} \text{Assessed Value} \times \text{Mils} \times \text{Milage Value} &= \text{Annual Cost} \\ \$35,000 \times 3.00 \times 0.001 &= \end{aligned}$$

\$105.00

per year for 20 years

\$8.75/mo.

-Rollbacks

Street Levy

1003 Fulton

Home Value	\$105,150
Tax Assessed Value (35%)	\$36,800
Mils of the Levy	3.00
Millage Value (set rate)	0.001

Annual Cost	\$110.40
Monthly Cost	\$9.20

534 Fremont

Home Value	\$79,690
Tax Assessed Value (35%)	\$27,890
Mils of the Levy	3.00
Millage Value (set rate)	0.001

Annual Cost	\$83.67
Monthly Cost	\$6.97

Street Levy

417 7th

Home Value	\$74,440
Tax Assessed Value (35%)	\$26,060
Mils of the Levy	3.00
Millage Value (set rate)	0.001

Annual Cost	\$78.18
Month Cost	\$6.52

220 Linden

Home Value	\$90,040
Tax Assessed Value (35%)	\$31,510
Mils of the Levy	3.00
Millage Value (set rate)	0.001

Annual Cost	\$94.53
Month Cost	\$7.88

Street Levy

3 N. Monroe

Home Value	\$790,110
Tax Assessed Value (35%)	\$276,540
Mils of the Levy	3.00
Millage Value (set rate)	0.001

Annual Cost	\$829.62
Monthly Cost	\$69.14

220 Perry 119 Jefferson

Home Value	\$797,400
Tax Assessed Value (35%)	\$423,600
Mils of the Levy	\$322,350
Millage Value (set rate)	3.00

Annual Cost	\$967.05
Monthly Cost	\$80.59

Street Levy

123 Maple

Home Value	\$2,200,000
Tax Assessed Value (35%)	\$770,000
Mils of the Levy	3.00
Millage Value (set rate)	0.001

Annual Cost	\$2310.00
Monthly Cost	\$192.50

1846 E. Perry

Home Value	\$1,142,290
Tax Assessed Value (35%)	\$399,800
Mils of the Levy	3.00
Millage Value (set rate)	0.001

Annual Cost	\$1199.40
Monthly Cost	\$99.95

Street Levy

206-F Waterfront

Home Value	\$121,760
Tax Assessed Value (35%)	\$42,620
Mils of the Levy	3.00
Millage Value (set rate)	0.001

Annual Cost	\$127.86
Monthly Cost	\$10.66

1603 Water's Edge

Home Value	\$361,830
Tax Assessed Value (35%)	\$126,640
Mils of the Levy	3.00
Millage Value (set rate)	0.001

Annual Cost	\$379.92
Monthly Cost	\$31.66

	EDU		3 Mil	TOTAL
	Water	Sewer	Levy	
1003 Fulton	\$7.50	\$5.53	\$9.20	\$22.23
534 Fremont	\$7.50	\$5.53	\$6.97	\$20.00
417 7th	\$7.50	\$5.53	\$6.52	\$19.55
220 Linden	\$7.50	\$5.53	\$7.88	\$20.91
206F Waterfront	\$7.50	\$5.53	\$10.66	\$23.69
1603 Water's Edge	\$7.50	\$5.53	\$31.66	\$44.69

Residential Neighborhood Assessed Average Breakdown

- \$300,001+ = 0.0%
- \$250,001 : \$300,000 = 0.7%: \$270,489
- \$200,001 : \$250,000 = 0.0%
- \$150,001 : \$200,000 = 3.9%: \$185,424
- \$100,001 : \$150,000 = 11.4%: \$131,211
- \$ 50,001 : \$100,000 = 77.6%: \$ 78,621
- \$ 0 : \$50,000 = 14%: \$ 22,915

\$82,613

AVG Residence

OCA Appraisal = **\$ 82,613.00**

Assessed 35% = \$ 28,914.55

Mils of Levy = 3.00 mils

Millage Value = 0.001 (mathematical constant)

Assessed Value x Mils x Milage Value = Annual Cost
\$28,914.55 x 3.00 x 0.001 =

\$86.74

per year for 20 years

\$7.22/mo.

-Rollbacks

AVG Condo

OCA Appraisal	=	\$131,145.00
Assessed 35%	=	\$ 45,900.75
Mils of Levy	=	3.00 mils
Millage Value	=	0.001 (mathematical constant)

$$\begin{array}{l} \text{Assessed Value} \times \text{Mils} \times \text{Milage Value} = \text{Annual Cost} \\ \$45,900.00 \quad \times \quad 3.00 \quad \times \quad 0.001 \quad = \end{array}$$

\$137.70

per year for 20 years

\$11.48/mo.

-Rollbacks

	EDU		3 Mil	TOTAL
	Water	Sewer	Levy	
AVG Residence	\$7.50	\$5.53	\$7.22	\$20.25
AVG Condo	\$7.50	\$5.00	\$11.48	\$24.51

What about me?

Water: \$ 7.50

Sewer: \$ 5.53

Levy: \$?..??

====

TOTAL \$ _____

What about me?

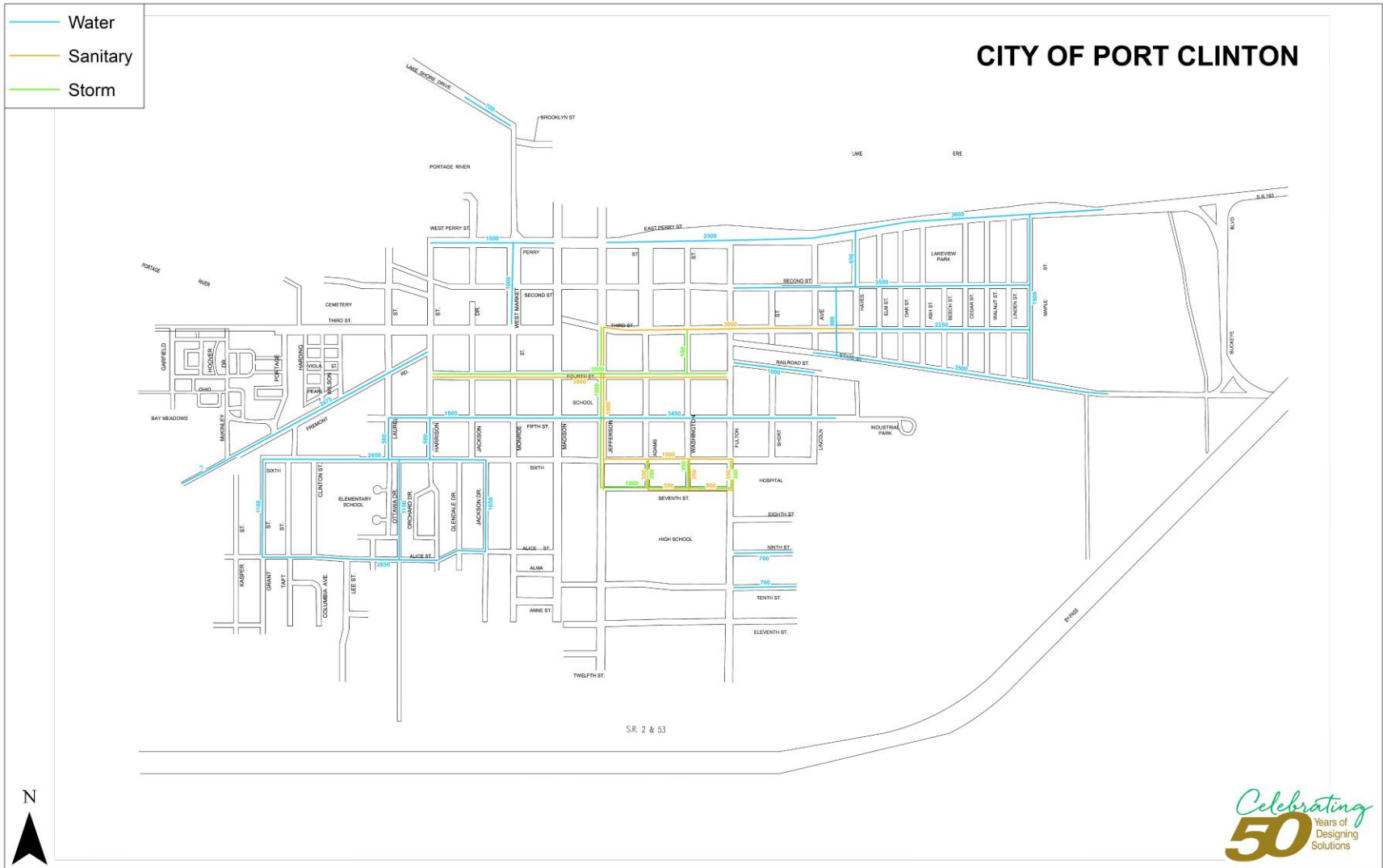
1. Visit: www.OttawaCountyAuditor.org
2. Enter your name or address in the upper right space
3. Click SEARCH
4. Select your property
5. Assessed value is located in the middle of the page
6. Perform the math using the levy formula ...

MOVING FORWARD

- RFQ
- Scope of Services
 - Project A (above): Vote in November 2020
 - Project B (below): EDU action by Council
- Ordinance(s) to move forward on two fronts
 - Project A: Vote in November 2020
 - Project B: EDU action by Council



Port Clinton Infrastructure Improvements



GO BUCKS!

Thoughts & Questions

