

MINUTES
INFRASTRUCTURE REVIEW ADVISORY BOARD
OAK VIEW LIBRARY
October 5, 2016 8:30 a.m.

Members and Alternates Present (Bold text includes voting member)

Chad Huwe, Mike Cooper, Scott Hofer, Jason Snyders, Phil Gundvaldson, Tim Galbraith, Mark Anderson, Jason Snyders

Members and Alternates Absent

Mark Cotter, Jeff Schmitt, Joel McDowell, Ryan Jansa, Craig Lauritzen, Chris Fischer

Others Present

Andy Berg, Joe Stonesifer, Jeff DesLauriers, Todd Anawski, Eric Willadsen, Cynthia Monnin, John Hult, Frank Regas, Matt Carlson

Business

- a) **Approval of September 2016 meeting minutes** –A motion to approve September 2016 meeting minutes by Scott Hofer. Second by Mark Anderson. Roll Call: Yeses - Huwe, Cooper, Hofer, Gundvaldson, Galbraith, Anderson. Noes – None. Motion passed 6-0.

- b) **Drainage System Cost Recovery (DSCR) Reimbursement Rates** – Andy Berg presented the proposed rates for 2016.

The DSCR reimbursement rates are updated annually in accordance with City ordinances and Executive Order 16-10, *Reimbursement Procedures for Drainage System Cost Recovery*. Please refer to the attached documents.

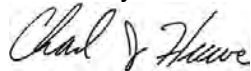
- 2016 Reimbursement Rates
- 2015 to 2016 Reimbursement Rates Comparison
- Average Reimbursement Rate % Increase Trend Year to Year
- Sample Calculations

Adjournment

The next IRAB meeting is scheduled for November 2, 2016, at 8:30 a.m., at the Oak View Library. A motion was made to adjourn by Huwe. Second by Gundvaldson. Roll Call: Yeses - Huwe, Cooper, Hofer, Gundvaldson, Galbraith, Anderson. Noes – None. Motion passed 6-0.



Kathy King
Secretary



Chad Huwe, P.E.
City Engineer

Reimbursement Rates for 2016

Description	Units	Furnish	Install	*Total
24" Reinforced Concrete Pipe Class 3	LF	\$31.53	\$27.09	
24" Reinforced Concrete Arch Pipe Class 2	LF	\$54.89	\$38.41	
24" Reinforced Concrete Arch Pipe Class 3	LF	\$54.80	\$38.41	
24" Reinforced Concrete Pipe Flared End	EA	\$534.60	\$198.28	
24" Reinforced Concrete Arch Pipe Flared End	EA	\$460.90	\$408.53	
30" Reinforced Concrete Pipe Class 3	LF	\$44.19	\$37.36	\$22.93
30" Reinforced Concrete Arch Pipe Class 2	LF	\$76.23	\$53.69	\$36.61
30" Reinforced Concrete Arch Pipe Class 3	LF	\$81.07	\$53.69	\$41.54
30" Reinforced Concrete Pipe Flared End	EA	\$597.88	\$279.93	\$144.93
30" Reinforced Concrete Arch Pipe Flared End	EA	\$709.50	\$422.56	\$262.63
36" Reinforced Concrete Pipe Class 2	LF	\$65.78	\$40.10	\$47.26
36" Reinforced Concrete Pipe Class 3	LF	\$65.25	\$40.10	\$46.73
36" Reinforced Concrete Arch Pipe Class 2	LF	\$99.11	\$30.25	\$36.06
36" Reinforced Concrete Arch Pipe Class 3	LF	\$101.65	\$30.25	\$38.69
36" Reinforced Concrete Pipe Flared End	EA	\$829.40	\$266.37	\$362.89
36" Reinforced Concrete Arch Pipe Flared End	EA	\$894.30	\$436.60	\$461.48
42" Reinforced Concrete Pipe Class 2	LF	\$92.07	\$48.54	\$81.99
42" Reinforced Concrete Pipe Class 3	LF	\$103.07	\$48.54	\$92.99
42" Reinforced Concrete Arch Pipe Class 2	LF	\$115.61	\$30.46	\$52.77
42" Reinforced Concrete Arch Pipe Class 3	LF	\$125.84	\$30.46	\$63.09
42" Reinforced Concrete Pipe Flared End	EA	\$975.70	\$451.31	\$694.13
42" Reinforced Concrete Arch Pipe Flared End	EA	\$1,101.10	\$451.31	\$682.98
48" Reinforced Concrete Pipe Class 2	LF	\$114.07	\$43.84	\$99.29
48" Reinforced Concrete Pipe Class 3	LF	\$117.01	\$43.84	\$102.23
48" Reinforced Concrete Arch Pipe Class 2	LF	\$140.14	\$50.39	\$97.23
48" Reinforced Concrete Arch Pipe Class 3	LF	\$144.05	\$50.39	\$101.23
48" Reinforced Concrete Pipe Flared End	EA	\$310.20	\$687.59	\$264.92
48" Reinforced Concrete Arch Pipe Flared End	EA	\$1,255.10	\$465.35	\$851.03
54" Reinforced Concrete Pipe Class 2	LF	\$145.09	\$55.63	\$142.10
54" Reinforced Concrete Pipe Class 3	LF	\$164.12	\$55.63	\$161.13
54" Reinforced Concrete Arch Pipe Class 2	LF	\$170.83	\$72.61	\$150.14
54" Reinforced Concrete Arch Pipe Class 3	LF	\$187.00	\$72.61	\$166.40
54" Reinforced Concrete Pipe Flared End	EA	\$1,332.10	\$480.06	\$1,079.28
54" Reinforced Concrete Arch Pipe Flared End	EA	\$1,470.70	\$480.06	\$1,081.33
60" Reinforced Concrete Pipe Class 2	LF	\$174.13	\$59.24	\$174.75
60" Reinforced Concrete Pipe Class 3	LF	\$180.00	\$55.66	\$177.04
60" Reinforced Concrete Arch Pipe Class 2	LF	\$211.20	\$77.02	\$194.92
60" Reinforced Concrete Arch Pipe Class 3	LF	\$238.37	\$77.02	\$222.18
60" Reinforced Concrete Pipe Flared End	EA	\$1,490.50	\$493.43	\$1,251.06
60" Reinforced Concrete Arch Pipe Flared End	EA	\$1,702.80	\$493.43	\$1,326.81
66" Reinforced Concrete Pipe Class 2	LF	\$211.75	\$62.71	\$215.84
66" Reinforced Concrete Pipe Class 3	LF	\$235.29	\$91.03	\$267.70
66" Reinforced Concrete Pipe Flared End	EA	\$2,016.00	\$608.54	\$1,891.67
72" Reinforced Concrete Pipe Class 2	LF	\$247.28	\$66.66	\$255.32
72" Reinforced Concrete Pipe Class 3	LF	\$283.36	\$66.66	\$291.40
72" Reinforced Concrete Arch Pipe Class 2	LF	\$287.10	\$86.65	\$280.45
72" Reinforced Concrete Arch Pipe Class 3	LF	\$333.96	\$86.65	\$327.40
72" Reinforced Concrete Pipe Flared End	EA	\$1,887.60	\$522.85	\$1,677.58
72" Reinforced Concrete Arch Pipe Flared End	EA	\$2,393.60	\$522.86	\$2,047.04
Ankor Mat	SF			\$19.10
Class M6 Concrete	CY			\$707.20
Reinforcing Steel	LB			\$1.49
Drainage Fabric	SY			\$2.55
GEO Textile Fabric	SY			\$2.30
Riprap Class A	TON			\$37.54
Riprap Class B	TON			\$35.74
Riprap Class C	TON			\$29.21
Cast Iron Frame and Grate, Type B	EA			\$592.50
Manhole Frame and Cover, Type Y	EA			\$312.44

* The total pipe costs shown have the 24" pipe costs subtracted from them.

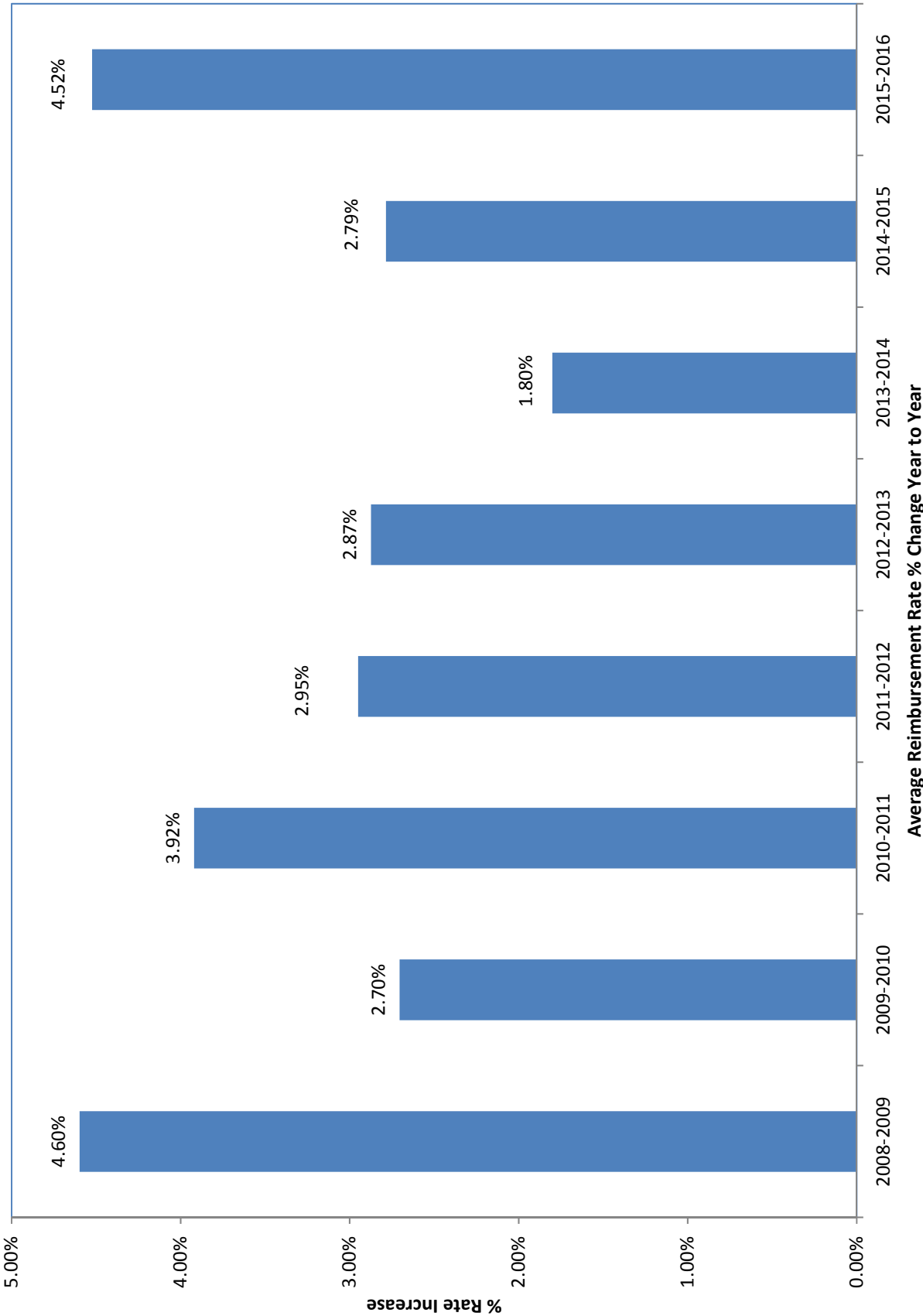
These prices are only applicable for construction activities which began after January 1, 2016.

2015 to 2016 Reimbursement Rates Comparison

Description	Units	Reimbursement Rates for 2015	Reimbursement Rates for 2016	% change from 2015 to 2016
24" Reinforced Concrete Pipe Class 3	LF	NA	NA	
24" Reinforced Concrete Arch Pipe Class 2	LF	NA	NA	
24" Reinforced Concrete Arch Pipe Class 3	LF	NA	NA	
24" Reinforced Concrete Pipe Flared End	EA	NA	NA	
24" Reinforced Concrete Arch Pipe Flared End	EA	NA	NA	
30" Reinforced Concrete Pipe Class 3	LF	\$17.91	\$22.93	28.0%
30" Reinforced Concrete Arch Pipe Class 2	LF	\$25.82	\$36.61	41.8%
30" Reinforced Concrete Arch Pipe Class 3	LF	\$25.71	\$41.54	61.6%
30" Reinforced Concrete Pipe Flared End	EA	\$99.43	\$144.93	45.8%
30" Reinforced Concrete Arch Pipe Flared End	EA	\$262.22	\$262.63	0.2%
36" Reinforced Concrete Pipe Class 2	LF	\$40.45	\$47.26	16.8%
36" Reinforced Concrete Pipe Class 3	LF	\$46.17	\$46.73	1.2%
36" Reinforced Concrete Arch Pipe Class 2	LF	\$53.17	\$36.06	-32.2%
36" Reinforced Concrete Arch Pipe Class 3	LF	\$58.34	\$38.69	-33.7%
36" Reinforced Concrete Pipe Flared End	EA	\$322.05	\$362.89	12.7%
36" Reinforced Concrete Arch Pipe Flared End	EA	\$460.65	\$461.48	0.2%
42" Reinforced Concrete Pipe Class 2	LF	\$70.24	\$81.99	16.7%
42" Reinforced Concrete Pipe Class 3	LF	\$81.24	\$92.99	14.5%
42" Reinforced Concrete Arch Pipe Class 2	LF	\$74.28	\$52.77	-29.0%
42" Reinforced Concrete Arch Pipe Class 3	LF	\$79.56	\$63.09	-20.7%
42" Reinforced Concrete Pipe Flared End	EA	\$482.63	\$694.13	43.8%
42" Reinforced Concrete Arch Pipe Flared End	EA	\$681.72	\$682.98	0.2%
48" Reinforced Concrete Pipe Class 2	LF	\$95.68	\$99.29	3.8%
48" Reinforced Concrete Pipe Class 3	LF	\$108.88	\$102.23	-6.1%
48" Reinforced Concrete Arch Pipe Class 2	LF	\$103.48	\$97.23	-6.0%
48" Reinforced Concrete Arch Pipe Class 3	LF	\$114.70	\$101.23	-11.7%
48" Reinforced Concrete Pipe Flared End	EA	\$642.55	\$264.92	-58.8%
48" Reinforced Concrete Arch Pipe Flared End	EA	\$849.35	\$851.03	0.2%
54" Reinforced Concrete Pipe Class 2	LF	\$130.14	\$142.10	9.2%
54" Reinforced Concrete Pipe Class 3	LF	\$149.17	\$161.13	8.0%
54" Reinforced Concrete Arch Pipe Class 2	LF	\$138.78	\$150.14	8.2%
54" Reinforced Concrete Arch Pipe Class 3	LF	\$150.00	\$166.40	10.9%
54" Reinforced Concrete Pipe Flared End	EA	\$866.93	\$1,079.28	24.5%
54" Reinforced Concrete Arch Pipe Flared End	EA	\$1,079.22	\$1,081.33	0.2%
60" Reinforced Concrete Pipe Class 2	LF	\$162.68	\$174.75	7.4%
60" Reinforced Concrete Pipe Class 3	LF	\$183.14	\$177.04	-3.3%
60" Reinforced Concrete Arch Pipe Class 2	LF	\$183.43	\$194.92	6.3%
60" Reinforced Concrete Arch Pipe Class 3	LF	\$205.65	\$222.18	8.0%
60" Reinforced Concrete Pipe Flared End	EA	\$1,038.31	\$1,251.06	20.5%
60" Reinforced Concrete Arch Pipe Flared End	EA	\$1,324.30	\$1,326.81	0.2%
66" Reinforced Concrete Pipe Class 2	LF	\$203.68	\$215.84	6.0%
66" Reinforced Concrete Pipe Class 3	LF	\$227.22	\$267.70	17.8%
66" Reinforced Concrete Pipe Flared End	EA	\$1,234.08	\$1,891.67	53.3%
72" Reinforced Concrete Pipe Class 2	LF	\$243.04	\$255.32	5.1%
72" Reinforced Concrete Pipe Class 3	LF	\$279.12	\$291.40	4.4%
72" Reinforced Concrete Arch Pipe Class 2	LF	\$268.68	\$280.45	4.4%
72" Reinforced Concrete Arch Pipe Class 3	LF	\$310.59	\$327.40	5.4%
72" Reinforced Concrete Pipe Flared End	EA	\$1,463.96	\$1,677.58	14.6%
72" Reinforced Concrete Arch Pipe Flared End	EA	\$2,043.66	\$2,047.04	0.2%
Ankor Mat	SF	\$18.54	\$19.10	3.1%
Class M6 Concrete	CY	\$706.37	\$707.20	0.1%
Reinforcing Steel	LB	\$1.58	\$1.49	-5.5%
Drainage Fabric	SY	\$3.78	\$2.55	-32.7%
GEO Textile Fabric	SY	\$2.24	\$2.30	2.4%
Riprap Class A	TON	\$37.03	\$37.54	1.4%
Riprap Class B	TON	\$40.90	\$35.74	-12.6%
Riprap Class C	TON	\$37.02	\$29.21	-21.1%
Cast Iron Frame and Grate, Type B	EA	\$596.33	\$592.50	-0.6%
Manhole Frame and Cover, Type Y	EA	\$285.47	\$312.44	9.4%
			Average	4.5%

10/18/2016

Average Reimbursement Rate % Increase Trend Year to Year



REIMBURSEMENT RATES FOR 2016 SAMPLE CALCULATIONS

Example 1 - 24" Reinforced Concrete Pipe Class 3

Install

- 1) DSCR 2015 = \$36.60
CCI = 3.04%
DSCR 2015 x CCI = \$37.71
 - 2) City 2015 AWC = \$27.72
City 2015 AWC x CCI = \$28.56
 - 3) DOT 2015 AUP = \$26.29
DOT 2015 AUP x CCI = \$27.09
- Minimum of \$37.71, \$28.56, \$27.09 = \$27.09
City 2015 AWC x CCI X 90% = \$25.70
Minimum (\$27.09) is not less than City 2015

AWC x CCI X 90% (\$25.70)
Apply \$27.09

Furnish

- 1) Hancock pipe price 2015 = \$29.40
X 10% tax and handling = \$32.34
 - 2) City 2015 AWC = \$31.53
 - 3) DOT 2015 AUP = \$32.94
- Minimum of \$32.34, \$31.53, \$32.94 = \$31.53
City 2015 AWC x CCI X 90% = \$28.38
Minimum (\$31.53) is not less than City 2015

AWC x CCI X 90% (\$28.38)
Apply \$31.53

Total (\$27.09 + \$31.53) = \$58.62

Example 2 - 24" Reinforced Concrete Arch Pipe Class 2

Install

- 1) DSCR 2015 = \$47.63
DSCR 2015 x CCI = \$49.09
 - 2) City 2015 AWC = \$36.19
City 2015 AWC x CCI = \$37.29
 - 3) DOT 2015 AUP = \$28.01
DOT 2015 AUP x CCI = \$28.86
- Minimum of \$49.09, \$37.29, \$28.86 = \$28.86
City 2015 AWC x CCI X 90% = \$33.56
Minimum (\$28.86) is less than City 2015 AWC x

CCI X 90% (\$33.56)

Apply the average of \$49.09, \$37.29, \$28.86 =
\$38.41

Furnish

- 1) Hancock pipe price 2015 = \$49.90
X 10% T&H = \$54.89
 - 2) City 2015 AWC = not available
 - 3) DOT 2015 AUP = \$66.82
- City 2015 AWC is not available
Apply Hancock pipe price 2015 x 10% T&H =
\$54.89

Total (\$38.41 + \$54.89) = \$93.30

REIMBURSEMENT RATES FOR 2016 SAMPLE CALCULATIONS

Example 3 - 24" Reinforced Concrete Arch Pipe Class 3

Install

- 1) DSCR 2015 = \$47.63
DSCR 2015 x CCI = \$49.09
 - 2) City 2015 AWC = \$36.19
City 2015 AWC x CCI = \$37.29
 - 3) DOT 2015 AUP = \$28.01
DOT 2015 AUP x CCI = \$28.86
- Minimum of \$49.09, \$37.29, \$28.86 = \$28.86
City 2015 AWC x CCI X 90% = \$33.56
Minimum (\$28.86) is less than City 2015 AWC x

CCI X 90% (\$33.56)

Apply the average of \$49.09, \$37.29, \$28.86 =
\$38.41

Furnish

- 1) Hancock pipe price 2015 = \$54.40
X 10% T&H = \$59.84
 - 2) City 2015 AWC = \$54.80
 - 3) DOT 2015 AUP = not available
- Minimum of \$59.84, \$54.80 = \$54.80
City 2015 AWC x CCI X 90% = \$49.32
Minimum (\$54.80) is not less than City 2015

AWC x CCI X 90% (\$49.32)

Apply \$54.80

Total (\$38.41 + \$54.80) = \$93.21

Example 4 - 24" Reinforced Concrete Pipe Flared End

Install

- 4) DSCR 2015 = \$396.46
DSCR 2015 x CCI = \$408.52
 - 5) City 2015 AWC = \$192.42
City 2015 AWC x CCI = \$198.28
 - 6) DOT 2015 AUP = \$395.64
DOT 2015 AUP x CCI = \$407.68
- Minimum of \$408.52, \$198.28, \$407.68 =
\$198.28
City 2015 AWC x CCI X 90% = \$178.45
Minimum (\$198.28) is not less than City 2015

AWC x CCI X 90% (\$178.45)

Apply \$198.28

Furnish

- 4) Hancock pipe price 2015 = \$486.00
X 10% T&H = \$534.60
 - 5) City 2015 AWC = \$565.13
 - 6) DOT 2015 AUP = \$572.51
- Minimum of \$534.60, \$565.13, \$572.51 =
\$534.60
City 2015 AWC x CCI X 90% = \$508.62
Minimum (\$534.60) is not less than City 2015

AWC x CCI X 90% (\$508.62)

Apply \$534.60

Total (\$198.28 + \$534.60) = \$732.88

REIMBURSEMENT RATES FOR 2016 SAMPLE CALCULATIONS

Example 5 - 24" Reinforced Concrete Arch Pipe Flared End

Install

- 1) DSCR 2015 = \$396.46
DSCR 2015 x CCI = \$408.52
 - 2) City 2015 AWC = not available
 - 3) DOT 2015 AUP = not available
- City 2015 AWC is not available
Apply DSCR 2015 x CCI = \$408.52

Furnish

- 1) Hancock pipe price 2015 = \$419.00
X 10% T&H = \$460.90
 - 2) City 2015 AWC = not available
 - 3) DOT 2015 AUP = not available
- City 2015 AWC is not available
Apply Hancock pipe price 2015 x 10% T&H =
\$460.90

Total (\$408.52 + \$460.90) = \$869.42