City of Appleton

100 North Appleton Street
Appleton, WI 54911-4799
www.appleton.org

Meeting Agenda

Utilities Committee

Tuesday, July 7, 2015 | **5:30 PM** | **Council Chambers, 6th Floor**

1. Call meeting to order

2. Roll call of membership

3. Approval of minutes from previous meeting

15-1052 Minutes of the 6-9-15 Utilities Committee

Attachments: Minutes of the 6-9-15 Utilities Committee Meeting.pdf

4. Public Hearings/Appearances

5. Action Items

15-1139 Action: Award contract to Klinger Painting Company, Inc. for Water Plant exterior wall repair in the amount of $52,200, with a contingency of $5,000 for a contract total not to exceed $57,200

Attachments: 2015 Water Plant Wall Repairs Proposal Recommendation (2).doc

15-1123 Approval of Sole Source Contract to Fiberglass Solutions, Inc. for Hypochlorite Fiberglass Reinforced Plastic Tank Conditions Assessment & Repair Work in the amount of $57,345 plus a 5% contingency of $2,867 for a total not to exceed $60,212

Attachments: Sole Source-Fiberglass Solutions (7-7-15).doc

15-1124 Approval of a Sole Source Coating Services contract for the Appleton Wastewater Treatment Plant Tank Coating Project to Omni Glass and Paint, Inc. in the amount of $56,186 plus a 7.5% contingency of $4,214 for a total not to exceed cost of $60,400

Attachments: Sole Source-Omni Glass & Paint, Inc. (7-7-15).doc

15-1125 Approval of a Sole Source Engineering Services contract for the Appleton Wastewater Treatment Plant Tank Coating Project to McMahon Engineers & Architects in the amount of $8,000 plus a 5% contingency of $400 for a total not to exceed cost of $8,400

Attachments: Sole Source-McMahon Engineers & Architects (7-7-15).doc

15-1126 Request from Nancy Lee Carter, 1036 E. Green Tree Ct #A to appeal the change in Appleton's Stormwater Utility billing for the multifamily classifications.

Attachments: Action Item-Nancy Carter Appeal (7-7-15).pdf

15-1156 Request from Diane Mandler, 1016 E. Green Tree Ct #B to appeal the change in Appleton's Stormwater Utility billing for the multifamily classifications.

Attachments: Action Item-Diane Mandler Appeal (7-7-15).pdf

15-1128 Request from Donald Fischer, 3229 N. Barkwood Lane to appeal the change in Appleton's Stormwater Utility billing for the multifamily classifications

Attachments: Action Item-Donald Fischer Appeal (7-7-15).pdf

6. Information Items

15-1053 Change Order #1 for The Column/Wall Plate Storage Project to increase for the removal of one additional tree in the amount of $261 resulting in a decrease to contingency from $18,866 to $18,605. No change to overall contract amount.

Change Order #2 for The Column/Wall Plate Storage Project to increase for the repair of a carbon steel gas main in the amount of $2,110 resulting in a decrease to contingency from $18,605 to $16,495. No change to overall contract amount.

Attachments: Column-Wall Plate Storage Project Change Orders 1 & 2.doc

15-1100 Change Order #3 for the Bar Screen Replacement Project to increase, for screen modifications, in the amount of $1,650 resulting in a decrease to contingency from $96,313 to $94,663. Contract price increased from $744,247 to $745,897 (attachment).

Attachments: Bar Screen Replacement Project Change Order #3 (7-7-15).pdf

15-1101 Koch Membrane System Agreement Expired on June 15, 2015

Attachments: Koch Membrane Systems Warranty Expiration 7-7-15.doc

15-1054 May-Water Month End Reports

Attachments: May-Water Month End Reports.pdf

15-1055 Update on June 15, 2015 Flood Reports

Attachments: June 15, 2015 Flood Reports.pdf

15-1127 Update on Appleton East High School Underground Storage System Project

Attachments: Appleton East 2015 Structural Inspection (7-7-15).pdf

7. Adjournment

Notice is hereby given that a quorum of the Common Council may be present during this meeting, although no Council action will be taken.

Reasonable Accommodations for Persons with Disabilities will be made upon Request and if Feasible.

For questions on the agenda, please contact Chris Shaw at 920-832-5945 or Paula Vandehey at 920-832-6474

City of Appleton

100 North Appleton Street
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Meeting Minutes
Utilities Committee

Tuesday, June 9, 2015 | **5:30 PM** | **Council Chambers, 6th Floor**

1. Call meeting to order

2. Roll call of membership

Present: 5 - Alderperson Jirschele, Alderperson Martin, Alderperson Dannecker, Alderperson Baranowski and Alderperson Meltzer

3. Approval of minutes from previous meeting

15-936 Minutes of the 5-26-15 Utilities Committee Meeting

Alderperson Baranowski moved, seconded by Alderperson Meltzer, that the Minutes be approved. Roll Call. Motion carried by the following vote:

Aye: 5 - Alderperson Jirschele, Alderperson Martin, Alderperson Dannecker, Alderperson Baranowski and Alderperson Meltzer

4. Public Hearings/Appearances

None

5. Action Items

15-954 Preliminary Resolution 3-P-15 for Sanitary Sewer, Storm Sewer, Sanitary Laterals & Storm Laterals be adopted and refer the matter to the Finance Committee to determine the assessment rate.

Alderperson Baranowski moved, seconded by Alderperson Martin, that the Report Action Item be recommended for approval. Roll Call. Motion carried by the following vote:

Aye: 5 - Alderperson Jirschele, Alderperson Martin, Alderperson Dannecker, Alderperson Baranowski and Alderperson Meltzer

15-962 Request from the Department of Public Works to postpone the proposed 2015 West Wisconsin Flood Reduction Project - Phase 2A due to soil related/regulatory permitting issues and re-budget in a future year.

Alderperson Martin moved, seconded by Alderperson Baranowski, that the Report Action Item be recommended for approval. Roll Call. Motion carried by the following vote:

Aye: 5 - Alderperson Jirschele, Alderperson Martin, Alderperson Dannecker, Alderperson Baranowski and Alderperson Meltzer

6. Information Items

15-937 Stormwater Projects Update by DPW Staff

This item was discussed

7. Adjournment

The meeting adjourned at 6:18 p.m.

Alderperson Baranowski moved, seconded by Alderperson Martin, that the meeting be adjourned. Roll Call. Motion carried by the following vote:

Aye: 5 - Alderperson Jirschele, Alderperson Martin, Alderperson Dannecker, Alderperson Baranowski and Alderperson Meltzer

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PARKS, RECREATION & FACILITIES MANAGEMENT
Dean R. Gazza, Director
1819 East Witzke Boulevard
Appleton, Wisconsin 54911-8401
(920) 832-5572 FAX (920) 993-3103
Email - dean.gazza@appleton.org

To: Utilities Committee

From: Dean R. Gazza, Director of Parks, Recreation and Facilities Management

Date: July 7, 2015

Re: Action: Award contract to Klinger Painting Co, Inc. for Water Plant exterior wall repair in the amount of $52,200 with a contingency of $5,000 for a contract total not to exceed $57,200.

The proposals for the Water Plant Exterior Wall Repair Project were received on Wednesday, June 24, 2015. The 2015 budget includes $75,000 to make exterior wall repairs. The exterior lower level concrete wall has various surface cracks in need of repair. Though none of the cracks harm the structural integrity of the wall they are subject to outside moisture. This moisture enters the cracks and continues to freeze causing further damage to the concrete. If left as is, moisture will result in damage to the rebar which would result in structural failure. This request will fill the cracks and coat the wall to create a moisture barrier to prevent further damage.

Only one proposal was received which was lower than estimates and within budget. Other companies came to the walk-through meeting and/or were contacted, but none were interested or capable of meeting the specifications.

It is the recommendation of the Parks, Recreation and Facilities Management Department to accept the proposal for $52,200 and award the contract to Klinger Painting Co., Inc. The Department is also recommending a contingency of $5,000 for a contract not to exceed $57,200.

Please feel free to contact me at 832-5572 with any questions, or by email at dean.gazza@appleton.org.

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Department of Utilities
Appleton Water Treatment Facility
2006 E Newberry Street
Appleton, WI 54915
920-832-5945 ph
920-832-5949 fax

TO: Chairperson Greg Dannecker and Members of the Utilities Committee

FROM: Utilities Deputy Director Chris Stempa

CC: Utilities Director Chris Shaw
Water Operations Supervisor Joe Meyers

DATE: June 30, 2015

RE: ***Approval of Sole Source Contract to Fiberglass Solutions Inc. for Hypochlorite Fiberglass Reinforced Plastic Tank Conditions Assessment & Repair Work in the amount of $57,345 plus a 5% contingency of $2,867 for a total not to exceed of $60,212***

BACKGROUND:

On April 28, 2015, the Utilities Committee approved the recommendation for contract award to Fiberglass Solutions, Inc. to conduct a conditions assessment and repair work on one of the Appleton Water Treatment Facility's (AWTF) three sodium hypochlorite tanks. In recent years all three tanks have been observed to have small temporarily repairable leaks. However, Tank #1 was targeted for this work because of progressively worsening leakage detected along the lower circumference of the tank including smaller pin-hole leaks identified at flange and pipe penetrations. The overall structural integrity of the tank would dictate if repair work was feasible or cost justifiable. Therefore, a conditions assessment was a necessary pre-cursor to repair work.

On June 3, 2015 Fiberglass Solutions inspected Sodium Hypochlorite Tank #1 and determined that severe erosion of the interior fiberglass resin liner system was compromised including isolated areas of structural failure. The tank overall was determined to be in structural sound condition. Therefore, based on the conditions assessment findings the AWTF went forth with the relining and repair work. The complete repair on Sodium Hypochlorite Tank #1 was completed the week of June 8th.

JUSTIFICATION TO REPAIR OF TANKS #2 AND #3:

Prior communication with numerous tank manufactures including repair technicians indicated that fiberglass-reinforced plastic (FRP) bulk sodium hypochlorite storage tanks generally have a life expectancy of 15 years before relining or replacement is necessary. All bulk storage tanks installed at the AWTF as part of new construction in 2001 will now soon reach that 15 service year life milestone. Increasing frequency and severity of leaks coupled with the recent conditions assessment work completed by Fiberglass Solutions Inc. support this. As a result, it is the AWTF's desire to expeditiously move forward with the conditions assessment and repairs (as determined necessary) of Sodium Hypochlorite Tanks #2 and #3. The AWTF recommends sole source approval to Fiberglass Solutions Inc. for these services given the quality of workmanship this firm provided with Tank #1 and the earlier quotation process results which are summarized below.

Firm	**Total Quote**
Fiberglass Solutions	$28,673
ECC Corrosion Inc.	$52,300
Belding Tanks	DNP
Roy Nordenstrom & Son's Inc.	DNP
Herrick Sales	DNP

DNP: Did not provide a complete quote or was non-responsive.

RECOMMENDATION:

It is recommended that the Utilities Committee award sole source contract to Fiberglass Solutions Inc. for the hypochlorite fiberglass reinforced plastic tank conditions assessment and repair work in the amount of $57,345 plus a 5% contingency of $2,867 for a total not to exceed of $60,212

If you have any questions regarding this project please contact Chris Stempa ph: 832-5945

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Department of Utilities
Wastewater Treatment Plant
2006 E Newberry Street
Appleton, WI 54915-3128
920-832-5945 tel.
920-832-5949 fax

TO: Chairperson Greg Dannecker and Members of the Utilities Committee

FROM: Utilities Deputy Director Chris Stempa

CC: Utilities Director Chris Shaw, Wastewater Plant Operations Supervisor Robert Kennedy, Enterprise Fund Accounting Manager Kelli Rindt

DATE: June 30, 2015

RE: ***Approval of a Sole Source Coating Services contract for the Appleton Wastewater Treatment Plant Tank Coating Project to Omni Glass and Paint, Inc in the amount of $56,186 plus a 7.5% contingency of $4,214 for a total not to exceed cost of $60,400***

BACKGROUND:

In 2014, the Appleton Wastewater Treatment Plant (AWWTP) had received approval to award contracts for engineering and contractor coating services for exterior tank covers and interior receiving station tank. The 2014 coating conditions and structural integrity assessment (external and interstitial) performed by McMahon established a rehabilitation and coating priority among the four tanks. Following the tank conditions assessment, it was determined to move forward with rehabilitation and coating work which targeted the tanks with severe coating system delamination and corrosion (e.g. western secondary digester and receiving station tank).

Alternate quotes were required as part of last year's coating services quotation process for the remaining two exterior tanks (sludge storage tank and filtrate storage tank). These tanks are equipped with same fixed Envirex Duo-Deck® cover as the western secondary digester that was rehabilitated during the fall of 2014. The required alternate quotes were utilized to take advantage of work combinations and economy of scale that provide cost competitive opportunities while advancing priority service work within a defined budget. Because of the severity of corrosion discovered on the exterior cover of the western secondary digester, the cost to rehabilitate absorbed a greater percentage of the available coating budget than originally anticipated. Therefore, the alternate quotes were utilized to formulate the 2015 O&M budgetary number to complete the remaining tank coating work.

SOLE SOURCE JUSTICATION:

Omni Glass and Paint, Inc. (Omni) has agreed to honor its agreement from the September 2014 quotation process. Omni has demonstrated quality workmanship and professionalism as part of the services provided in 2014. That includes a solid history of service performance on both sides of the Utility. Based on the 2014 quotation results, it is not expected to be advantageous from either a cost or schedule standpoint to seek new quotes. Conducting a request for quotation (RFQ) would involve a contracted engineer reformulating the project specifications, conducting a public advertisement, organize and facilitate pre-quotation meeting(s) not exclusive of the administrative steps necessary for subsequent contract award. The additional costs incurred from this process (McMahon estimates $4,000) coupled with the delay in work start caused by the aforementioned RFQ process within an already limited exterior coating season is not likely to outweigh the benefits of moving forward with sole source contract with Omni.

The Appleton Finance Department Purchasing Manager, Jeff Fait, was asked to review the 2014 quotation and this recommendation for sole source. Mr. Fait stated "…in looking at the overall situation and the operational and financial interests of the City, I feel this is an exceptionally advantageous opportunity, as mentioned in the procurement policy under sole source parameters." Therefore, based on the collective review of pros and cons the AWTF recommends sole source approval to Omni Glass and Paint and the 2014 alternate quotation results provided below.

COATING CONTRACTOR	ALTERNATE QUOTE
Omni Glass and Paint, Inc.	$56,186
Wisconsin Industrial Coatings, Inc.	$85,000
Mill Coatings	DNP
TMI Coatings	DNP

RECOMMENDATION:

It is recommended that the Utilities Committee award sole source contract to Omni Glass and Paint, Inc. in an amount of $56,186 plus a 7.5% contingency of $4,214 for a total not to exceed cost of $60,400.

If you have any questions, regarding the project please contact Chris Stempa at 832-2353.

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Department of Utilities
Wastewater Treatment Plant
2006 E Newberry Street
Appleton, WI 54915-3128
920-832-5945 tel.
920-832-5949 fax

TO: Chairperson Greg Dannecker and Members of the Utilities Committee

FROM: Utilities Deputy Director Chris Stempa

CC: Utilities Director Chris Shaw, Wastewater Plant Operations Supervisor Robert Kennedy, Enterprise Fund Accounting Manager Kelli Rindt

DATE: June 30, 2015

RE: ***Approval of a Sole Source Engineering Services contract for the Appleton Wastewater Treatment Plant Tank Coating Project to McMahon Engineers & Architects in the amount of $8,000 plus a 5% contingency of $400 for a total not to exceed cost of $8,400***

BACKGROUND:

In 2014, the Appleton Wastewater Treatment Plant (AWWTP) had received approval to award contracts for engineering and contractor coating services for exterior tank covers and interior receiving station tank. As part of the 2014 engineering services contract, McMahon completed a structural integrity assessment (external and interstitial). This assessment established rehabilitation and coating priority among the four tanks including the generation of project specifications used for coating preparation and coating systems. Following the tank conditions assessment, it was determined to move forward with rehabilitation and coating work during 2014 which targeted the tanks with severe coating system delamination and corrosion (i.e., western secondary digester and receiving station tank).

Alternate quotes required as part of last year's coating services quotation process for the two remaining exterior tank covers (sludge storage tank and filtrate storage tank) are being honored by the low bidder Omni Glass and Paint, Inc. for 2015 (covered by separate memo). McMahon has provided a quote to continue professional coating inspection and construction related services for the remaining coating work described in the alternate quotes.

SOLE SOURCE JUSTICATION:

McMahon developed the project coating specifications utilized as part of 2014 request for quotation (RFQ) process. The existing coating specifications would require complete redevelopment if the services of another engineering were acquired. It is common for

engineering firms to develop their own specifications based on in-house expertise since the professional services they are being asked to provide is predicated on them. McMahon has demonstrated reliable, effective, and responsive construction related field services on coating work completed during 2014. They were also the least cost as part of the 2014 engineering services RFQ process. It is the opinion of the Utility that it would not be advantageous from a cost or schedule standpoint to seek low cost professional services given McMahon's familiarity with this coating work scope and high quality performance on past coating projects.

RECOMMENDATION:

It is recommended that the Utilities Committee award sole source engineering services contract to McMahon in an amount of $8,000 plus a 5% contingency of $400 for a total not to exceed cost of $8,400.

If you have any questions, regarding the project please contact Chris Stempa at 832-2353.

MEMO

"...meeting community needs...enhancing quality of life."

TO: Utilities Committee

FROM: Paula Vandehey, Director of Public Works PAV
Sue Olson, Staff Engineer

DATE: June 29, 2015

SUBJECT: **Stormwater Billing Appeals for Green Tree Court.**

In September, 2013 the City Council approved the staff recommended changes for how multifamily properties' stormwater charges were calculated. Although Council approved a January 1, 2015 implementation date, it has taken longer to implement the change than we expected, so a July 1, 2015 implementation date is occurring.

As shown on the attached Ordinance language, multifamily properties used to have a different calculation based on whether they were on a public or private road. In some cases, there were a mixture of both which made it difficult to determine the appropriate way to charge a property. The calculations were based solely on the number of units and not on the square footage of impervious area. This formula had no incentive for developers to be sensitive to the amount of impervious area created.

The City of Appleton uses customer classifications to determine the stormwater utility billing rate. All non-residential and multi-use classifications were already charged based on actual impervious area. The change approved by Council in 2013 moved the multi-family classification to also be charged based on actual impervious area. We anticipate the Council discussing whether single family and duplex properties should be charged based on a tiered system in the near future.

Attached are the calculations for 1036 #A and 1016 #B Green Tree Court.

Attachments

Paula Vandehey

From: Nancy Lee Carter <nlcarter@athenet.net>
Sent: Monday, June 29, 2015 12:52 PM
To: Paula Vandehey
Cc: Joe Martin; Diane Mandler
Subject: Appearing before the Utilities Committee Meeting on July 7

Dear Paula:

I would like to be on the agenda of the Utilities Committee Meeting on July 7 to have the opportunity to ask questions about the change in the City ordinance relating to the Appleton Stormwater Utility and to receive clarification about how changes in charges to owners of multifamily dwellings are being calculated.

Based on information I have been able to find that explains how the measurements were taken by the City to calculate and impose stormwater charges, I do not feel that I have been given a satisfactory explanation to show that the measurements and calculations have been done fairly and equitably. I am not experienced in stormwater utility measurement and understanding how charges levied on my property are being imposed.

Under the circumstances, I would appreciate being granted space on the agenda. Please let me know if I can be on the agenda.
If I am not going to be included in the agenda, I infer that I can still attend the hearing and plan to do so.

Regards,
Nancy Lee Carter 1036 #A Green Tree
920-738-6829

AN ORDINANCE AMENDING SECTION 20-237 OF CHAPTER 20 OF THE MUNICIPAL CODE OF THE CITY OF APPLETON, RELATING TO CUSTOMER CLASSIFICATION.

(Utilities Committee – 9-18-13)

The Common Council of the City of Appleton does ordain as follows:

Section 1: That Section 20-237 of Chapter 20 of the Municipal Code of the City of Appleton, relating to customer classification, is hereby amended to read as follows:

Sec. 20-237. Customer classification.

(a) For purposes of imposing the stormwater charges, all lots and parcels within the City are classified as follows:

	ERUs imposed	
Classification	**Public Road**	**Private Road**
Single Family	1	1
Detached Individual Condominiums	1	1
Duplex	.5/unit	1/unit
Duplex Condominiums	.5/unit	1/unit
Multifamily Condominiums	~~.4/unit~~ 1/unit Actual impervious area of the property using aerial photography	
Mobile Homes	.5/unit	1/unit
Bed & Breakfast (fewer than 5 units)	1	1
Bed & Breakfast (5 units or more)	.5/unit	1/unit
Multifamily rental	~~.4/unit~~ 1/unit Actual impervious area of the property using aerial photography	
Non-Residential and Multi-Use	One (1) ERU, multiplied by the numerical factor obtained by dividing the total impervious area of a non-residential property by the square footage of one (1) ERU, rounded down to the nearest one-tenth (0.1), i.e.: ERU rate x impervious area / ERU	One (1) ERU, multiplied by the numerical factor obtained by dividing the total impervious area of a non-residential property by the square footage of one (1) ERU, rounded down to the nearest one-tenth (0.1), i.e.: ERU rate x impervious area / ERU
Undeveloped	One (1) ERU multiplied by a factor established by resolution then divided by the	One (1) ERU multiplied by a factor established by resolution then divided by the

	ERUs imposed	
Classification	Public Road	Private Road
	square footage for one (1) ERU established by resolution	square footage for one (1) ERU established by resolution

(b) The Director shall prepare a list of lots and parcels within the City of Appleton and assign a classification to each lot or parcel.

(c) The average square footage of impervious area of ERU is established to be equivalent to 2,368 square feet.

(d) The Director shall be responsible for determining the impervious area based on the best available information, including, but not limited to, data supplied by the City Assessor, aerial photography, the property owner, tenant or developer. The Director may require additional information as necessary to make the determination. The billing amount shall be updated by the Director based on the building permit process.

(e) All unoccupied developed lots and parcels shall be subject to the stormwater utility charges.

Section 2: This ordinance shall be in full force and effect on January 1, 2015.

Dated: _____

Timothy M. Hanna, Mayor

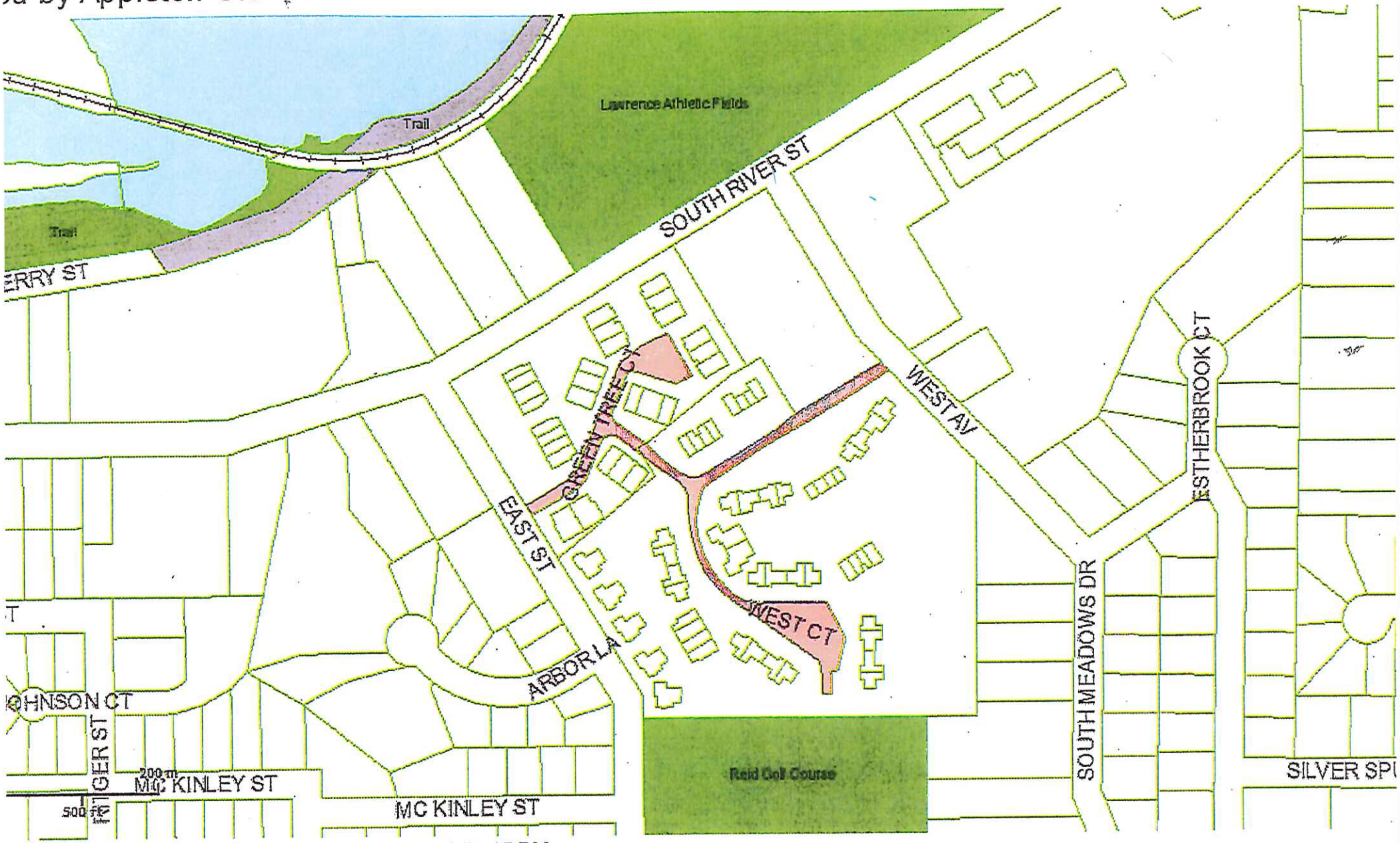
Charlene M. Peterson, City Clerk

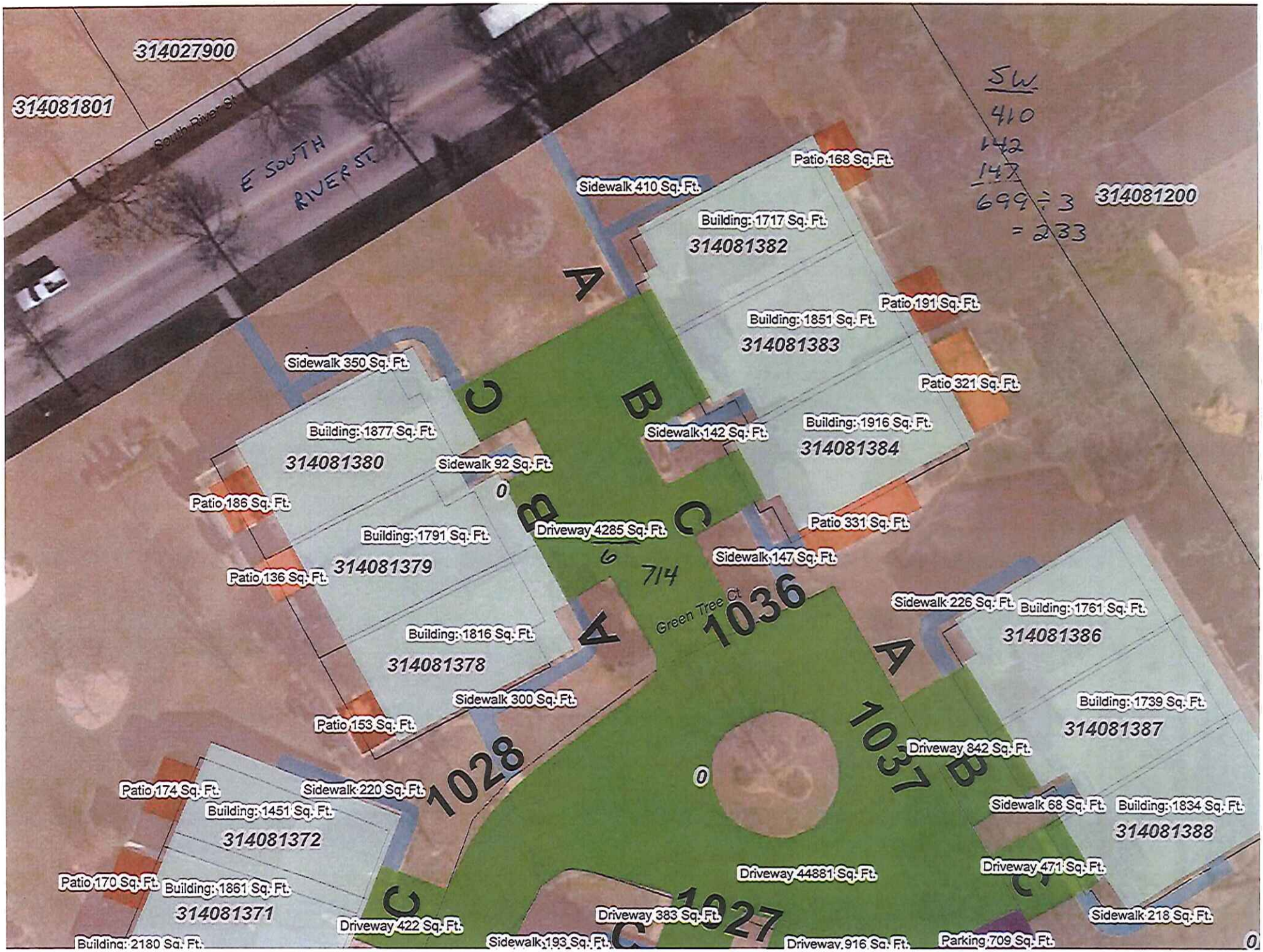
J:\Attorney\WORD\Jamie\Ordinances\2013 Ords\Section 20-237.doc

	1036 #A Green Tree	1016 #B Green Tree
Building	1717	1861
Patio	168	170
Sidewalk	410 + 142 + 147 / 3 = 233	87
Individual Driveway	4285/6 = 714	75/2 = 337
Complex Driveway	44881/74 = 606	44881/74 = 606
Additional Parking	1252/74 = 17	1252/74 = 17
TOTAL	**3,455 = 1.46 ERU**	**3,078 = 1.30 ERU**

Appleton

ou by Appleton GIS




314027900
314081801
South River St
E SOUTH RIVER ST
314081200
SW
410
142
147
699 ÷ 3
= 233
Patio 168 Sq. Ft.
Sidewalk 410 Sq. Ft.
Building: 1717 Sq. Ft.
314081382
Patio 191 Sq. Ft.
Building: 1851 Sq. Ft.
314081383
Patio 321 Sq. Ft.
Sidewalk 350 Sq. Ft.
Building: 1877 Sq. Ft.
314081380
Sidewalk 142 Sq. Ft.
Building: 1916 Sq. Ft.
314081384
Sidewalk 92 Sq. Ft.
Patio 186 Sq. Ft.
Patio 331 Sq. Ft.
Building: 1791 Sq. Ft.
314081379
Driveway 4285 Sq. Ft.
Sidewalk 147 Sq. Ft.
Patio 136 Sq. Ft.
Green Tree Ct
1036
Sidewalk 226 Sq. Ft.
Building: 1761 Sq. Ft.
314081386
Building: 1816 Sq. Ft.
314081378
Sidewalk 300 Sq. Ft.
Building: 1739 Sq. Ft.
314081387
Patio 153 Sq. Ft.
Driveway 842 Sq. Ft.
1028
1037
Patio 174 Sq. Ft.
Sidewalk 220 Sq. Ft.
Sidewalk 68 Sq. Ft.
Building: 1834 Sq. Ft.
Building: 1451 Sq. Ft.
314081372
314081388
Patio 170 Sq. Ft.
Building: 1861 Sq. Ft.
Driveway 44881 Sq. Ft.
Driveway 471 Sq. Ft.
314081371
Driveway 383 Sq. Ft.
Sidewalk 218 Sq. Ft.
Driveway 422 Sq. Ft.
1027
Building: 2180 Sq. Ft.
Sidewalk 193 Sq. Ft.
Driveway 916 Sq. Ft.
Parking 709 Sq. Ft.
A
B
C

E SOUTH RIVER ST
E GREEN TREE CT
4-0813-1
4-0279
4-0813-82
4-0813-83
4-0813-84
4-0813-86
4-0813-87
4-0813-80
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4-0813-78
4-0813-72
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MEMO

"...meeting community needs...enhancing quality of life."

TO: Utilities Committee

FROM: Paula Vandehey, Director of Public Works PAV
Sue Olson, Staff Engineer

DATE: June 29, 2015

SUBJECT: **Stormwater Billing Appeals for Green Tree Court.**

In September, 2013 the City Council approved the staff recommended changes for how multifamily properties' stormwater charges were calculated. Although Council approved a January 1, 2015 implementation date, it has taken longer to implement the change than we expected, so a July 1, 2015 implementation date is occurring.

As shown on the attached Ordinance language, multifamily properties used to have a different calculation based on whether they were on a public or private road. In some cases, there were a mixture of both which made it difficult to determine the appropriate way to charge a property. The calculations were based solely on the number of units and not on the square footage of impervious area. This formula had no incentive for developers to be sensitive to the amount of impervious area created.

The City of Appleton uses customer classifications to determine the stormwater utility billing rate. All non-residential and multi-use classifications were already charged based on actual impervious area. The change approved by Council in 2013 moved the multi-family classification to also be charged based on actual impervious area. We anticipate the Council discussing whether single family and duplex properties should be charged based on a tiered system in the near future.

Attached are the calculations for 1036 #A and 1016 #B Green Tree Court.

Attachments

June 18, 2015

Paula Vandehey P.E.
City of Appleton

Re: Storm water billing change

Dear Paula,

I am writing to let you know that I wish to appeal the change in Appleton's storm water billing policy for condominium and apartment dwellers. I plan to attend the meeting scheduled for July 7th. As you know, my objection to the rate change is based on the fact that it is not being uniformly applied to all utility users. Thank you for advising me of this opportunity.

Sincerely,

Diane Mandler
1016 E Green Tree Ct #B
Appleton 54915
832-0612
832-4646 (work)

AN ORDINANCE AMENDING SECTION 20-237 OF CHAPTER 20 OF THE MUNICIPAL CODE OF THE CITY OF APPLETON, RELATING TO CUSTOMER CLASSIFICATION.

(Utilities Committee – 9-18-13)

The Common Council of the City of Appleton does ordain as follows:

Section 1: That Section 20-237 of Chapter 20 of the Municipal Code of the City of Appleton, relating to customer classification, is hereby amended to read as follows:

Sec. 20-237. Customer classification.

(a) For purposes of imposing the stormwater charges, all lots and parcels within the City are classified as follows:

	ERUs imposed	
Classification	**Public Road**	**Private Road**
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Detached Individual Condominiums	1	1
Duplex	.5/unit	1/unit
Duplex Condominiums	.5/unit	1/unit
Multifamily Condominiums	~~.4/unit~~ 1/unit Actual impervious area of the property using aerial photography	
Mobile Homes	.5/unit	1/unit
Bed & Breakfast (fewer than 5 units)	1	1
Bed & Breakfast (5 units or more)	.5/unit	1/unit
Multifamily rental	~~.4/unit~~ 1/unit Actual impervious area of the property using aerial photography	
Non-Residential and Multi-Use	One (1) ERU, multiplied by the numerical factor obtained by dividing the total impervious area of a non-residential property by the square footage of one (1) ERU, rounded down to the nearest one-tenth (0.1), i.e.: ERU rate x impervious area / ERU	One (1) ERU, multiplied by the numerical factor obtained by dividing the total impervious area of a non-residential property by the square footage of one (1) ERU, rounded down to the nearest one-tenth (0.1), i.e.: ERU rate x impervious area / ERU
Undeveloped	One (1) ERU multiplied by a factor established by resolution then divided by the	One (1) ERU multiplied by a factor established by resolution then divided by the

	ERUs imposed	
Classification	Public Road	Private Road
	square footage for one (1) ERU established by resolution	square footage for one (1) ERU established by resolution

(b) The Director shall prepare a list of lots and parcels within the City of Appleton and assign a classification to each lot or parcel.

(c) The average square footage of impervious area of ERU is established to be equivalent to 2,368 square feet.

(d) The Director shall be responsible for determining the impervious area based on the best available information, including, but not limited to, data supplied by the City Assessor, aerial photography, the property owner, tenant or developer. The Director may require additional information as necessary to make the determination. The billing amount shall be updated by the Director based on the building permit process.

(e) All unoccupied developed lots and parcels shall be subject to the stormwater utility charges.

Section 2: This ordinance shall be in full force and effect on January 1, 2015.

Dated: _____

Timothy M. Hanna, Mayor

Charlene M. Peterson, City Clerk

J:\Attorney\WORD\Jamie\Ordinances\2013 Ords\Section 20-237.doc

	1036 #A Green Tree	1016 #B Green Tree
Building	1717	1861
Patio	168	170
Sidewalk	410 + 142 + 147 / 3 = 233	87
Individual Driveway	4285/6 = 714	75/2 = 337
Complex Driveway	44881/74 = 606	44881/74 = 606
Additional Parking	1252/74 = 17	1252/74 = 17
TOTAL	**3,455 = 1.46 ERU**	**3,078 = 1.30 ERU**

Appleton

ou by Appleton GIS


314081380
Building: 1791 Sq. Ft.
Patio 136 Sq. Ft.
314081379
Driveway 4285 Sq. Ft.
Sidewalk 147 Sq. Ft.
1036
Building: 1816 Sq. Ft.
314081378
Sidewalk 300 Sq. Ft.
Driveway 842 Sq. Ft.
Patio 153 Sq. Ft.
1028
Patio 174 Sq. Ft.
Sidewalk 220 Sq. Ft.
Driveway 44881 Sq. Ft.
0
Building: 1451 Sq. Ft.
314081372
Additional Parking 1252 / 46,133 ÷ 74 = 623.4
Patio 170 Sq. Ft.
0
314081355
Building: 1861 Sq. Ft.
314081371
Driveway 422 Sq. Ft.
1027
Driveway 383 Sq. Ft.
Sidewalk 87 Sq. Ft.
Sidewalk 193 Sq. Ft.
Sidewalk 34 Sq. Ft.
Driveway 916 Sq. Ft.
314081356
Patio 102 Sq. Ft.
Building: 2180 Sq. Ft.
314081370
1016
Driveway 675 Sq. Ft.
Building: 1421 Sq. Ft.
314081376
314081357
Building: 2588 Sq. Ft.
314081375
Sidewalk 179 Sq. Ft.
Sidewalk 223 Sq. Ft.
314081374
Patio 465 Sq. Ft.
Green Tree Ct
Sidewalk 223 Sq. Ft.
Patio 164 Sq. Ft.
Patio 485 Sq. Ft.
Building: 1284 Sq. Ft.
314081362
Patio 465 Sq. Ft.
0
0
314081363
Building: 1302 Sq. Ft.


4-0813-79
4-0813-78
4-0813-72
4-0813-71
4-0813-70
4-0813-76
4-0813-75
4-0813-74
4-0813-55
4-0813-56
4-0813-57
4-0813-63
4-0813-64
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E GREEN TREE CT

Appleton City Clerk

29 June 2015

100 North Appleton Street
Appleton, WI 54911-4799

I wish to appeal my stormwater charge according to Appleton Code section 20-239, Utilities.

This written appeal is being filed with the city clerk prior to the utility charge due date. This is in compliance with Appleton Code Sec. 20-239 Method of appeal, (a) (1). The only notice I received was an undated "StormWater Billing Notification" from Paula Vandehey, Director of Public Works. In this letter was "Implementation of the billing of actual impervious area will be as of July 1, 2015". I received this letter in late May or early June of 2015. My stormwater charge is going up 73%, and yet no changes have been made to my property. I didn't receive a bill with the new stormwater charges yet, but it looks like the increased charges might be arriving 1 July 2015.

My 73% increase in storm water charge is due to the Utilities Committee amending section 20-237 (100-13) on December 18, 2013. Section 20-237, customer classification, has changed to use "impervious area" for "multifamily Condominiums to determine the number ERU's the property gets charged for storm water. The problem is that I am now getting charged ERU's for the road in front of my house. This represents 51% of my storm water increase.

I live in the Highland Heights Condominiums. The roads in front of our houses look just like the roads in other areas of Appleton, except that the Condo association owns the roads. Therefore, we are classified under Sec 20-237 as a private road. There is nothing private about our road. We don't have off street parking lots like apartments or some condos. The City of Appleton garbage trucks roll down our street to collect garbage on Tuesdays. We have storm sewers the same as city streets. We have lights the same as city streets. The "impervious area" for our street is just like the "impervious area" for streets on public roads, and these public road property owners do NOT pay for the "impervious area" of their streets.

The bottom line here is that the landowners in the City of Appleton pay for the management of storm water in proportion to the amount of storm water runoff they contribute to the system. Our street looks and functions the same as any other Appleton city street. Why do you charge me for the street "impervious area" when you don't charge all landowners in Appleton for street "impervious area"? It appears that the City of Appleton is discriminating against me.

Two of our Condo's, 1101 and 1105 West Windtree Dr are NOT being charged "impervious area" for the same street that you are charging 23 other owners for. This is unfair to me. Discriminating against me again?

I would like to invite the Utilities Committee to visit our little area of 83 condos and view the streets. We are just a block or two southwest of the Appleton DMV and next to the "Capitol Center" bar and banquet hall.

In summary, I ask that the Utilities Committee determine whether the stormwater charge is fair and reasonable and weather a refund is due the customer. I also ask that the Utilities Committee make Appleton Code changes that exempt private roads from impervious area charges if they function as a city street. According to the "City of Appleton 2015 Budget, Stormwater", page 535, "There is no anticipated revenue increase or decrease due to change in the billing rate".

Kenosha, Wisconsin handles roadway storm water charges like this:

"2. Public and Private Roadways. Public and private roadways, not including driveways, shall be exempt from stormwater service charges."

Think of fair and reasonable, and no budget issues from doing the right thing. Thank you for your time,

Donald Fischer

3229 N Barkwood LN

Appleton, Wi 54914

Appleton City Clerk

29 June 2015

100 North Appleton Street
Appleton, WI 54911-4799

I wish to appeal my stormwater charge according to Appleton Code section 20-239, Utilities.

This written appeal is being filed with the city clerk prior to the utility charge due date. This is in compliance with Appleton Code Sec. 20-239 Method of appeal, (a) (1). The only notice I received was an undated "StormWater Billing Notification" from Paula Vandehey, Director of Public Works. In this letter was "Implementation of the billing of actual impervious area will be as of July 1, 2015". I received this letter in late May or early June of 2015. My stormwater charge is going up 73%, and yet no changes have been made to my property. I didn't receive a bill with the new stormwater charges yet, but it looks like the increased charges might be arriving 1 July 2015.

I feel that this rate change notice is an unreasonable short notice that may violate Federal, State, or City laws, regulations, rules, codes, or any other rate change requirement notice by a public utility. I feel it doesn't disclose all the information that should be included in the notice either.

The following is taken from the "City of Appleton 2015 Budget, Stormwater", page 535, ":

"Implement multi-family ERU billing rate change from per unit charge to actual impervious area of property as

approved by Common Council on September 18, 2013. This change is effective on January 1, 2015."

It is an ERU billing rate change for selected properties that took place January 1, 2015, and I only received this UNDATED Appleton Department of Public Works letter notifying me on this in late May, 2015.

I ask that the Utilities Committee rule that the late rate change notice is unfair and unreasonable, and delay the rate change until proper notice is given.

There should be no stormwater budget issues by delaying the rate increase because, according to the "City of Appleton 2015 Budget, Stormwater", page 535, "There is no anticipated revenue increase or decrease due to change in the billing rate".

Think of fair and reasonable, and no budget issues from doing the right thing. Thank you for your time,

Donald Fischer

Donald Fischer

3229 N Barkwood LN

Appleton, Wi 54914

	1036 #A Green Tree	1016 #B Green Tree	3229 N. Barkwood
Building	1717	1861	2158
Patio	168	170	98
Sidewalk	410 + 142 + 147 / 3 = 233	87	59
Individual Driveway	4285/6 = 714	75/2 = 337	564
Complex Driveway	44881/74 = 606	44881/74 = 606	105,491/83 = 1222*
Additional Parking	1252/74 = 17	1252/74 = 17	0
TOTAL	**3,455 = 1.46 ERU**	**3,078 = 1.30 ERU**	**4,101 = 1.73 ERU**

* should have been 1,271

City of Appleton

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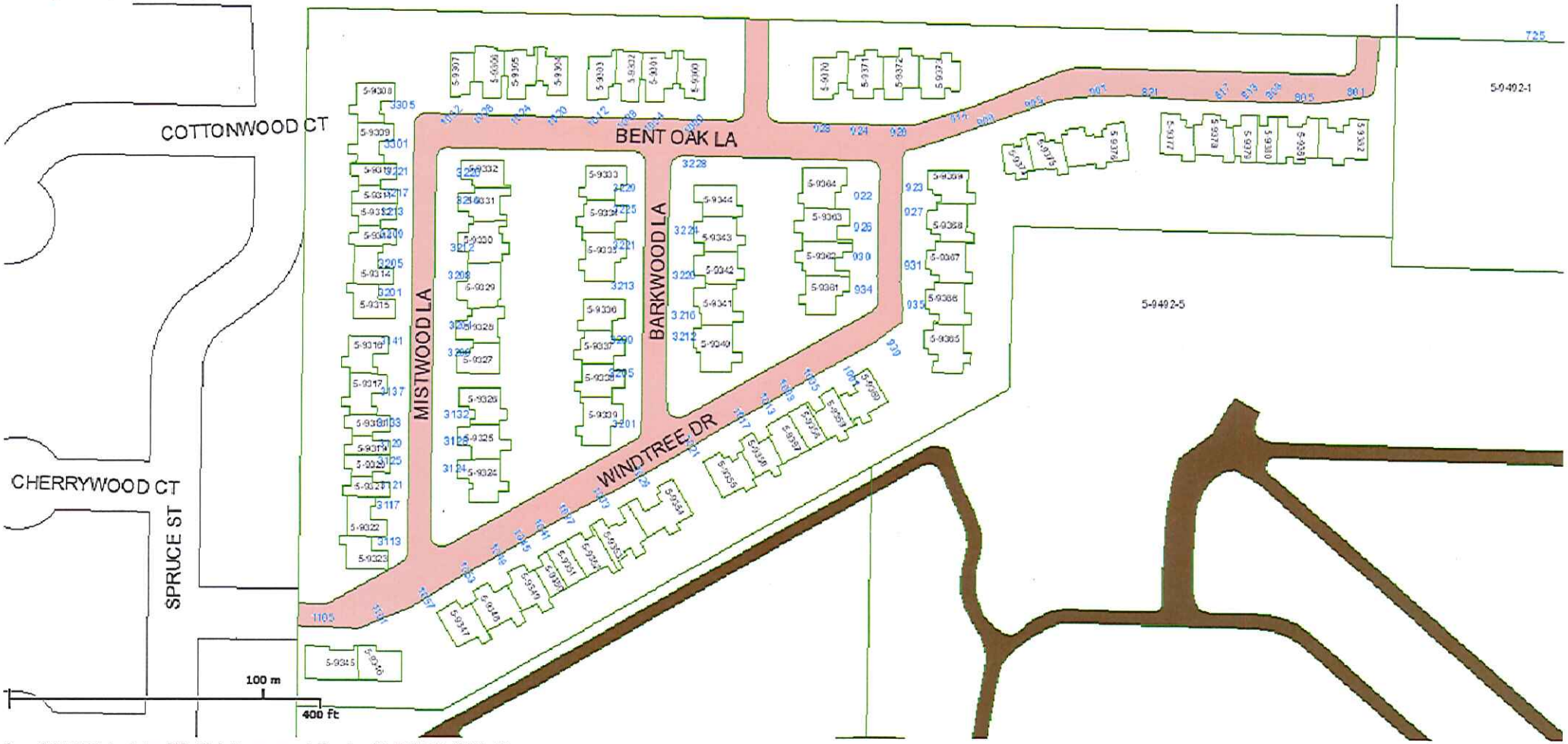

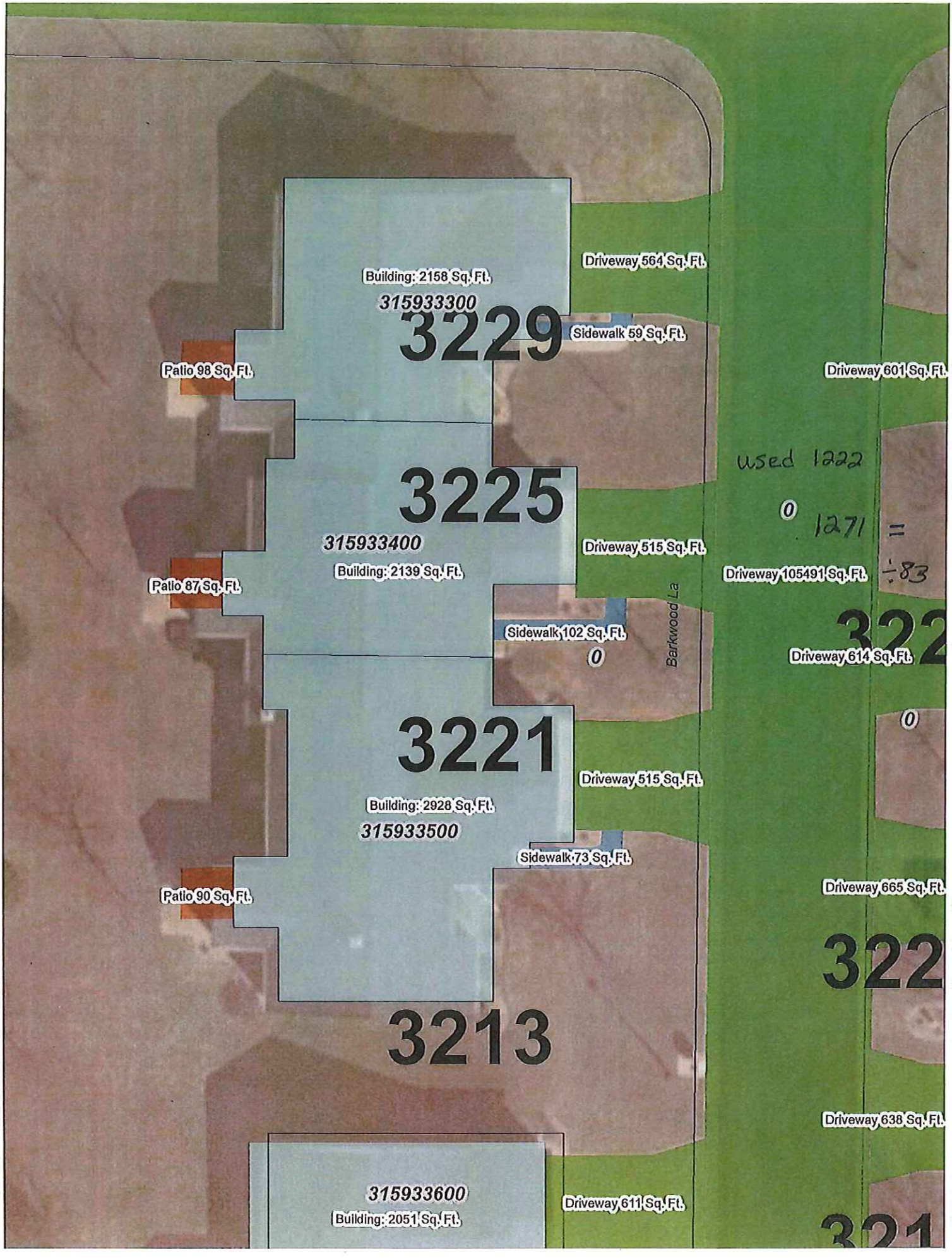
Building: 2158 Sq. Ft.
315933300
3229
Driveway 564 Sq. Ft.
Sidewalk 59 Sq. Ft.
Patio 98 Sq. Ft.
Driveway 601 Sq. Ft.
used 1222
0
1271 =
-83
3225
315933400
Building: 2139 Sq. Ft.
Driveway 515 Sq. Ft.
Driveway 105491 Sq. Ft.
Patio 87 Sq. Ft.
Sidewalk 102 Sq. Ft.
0
Barkwood La
322
Driveway 614 Sq. Ft.
0
3221
Driveway 515 Sq. Ft.
Building: 2928 Sq. Ft.
315933500
Sidewalk 73 Sq. Ft.
Patio 90 Sq. Ft.
Driveway 665 Sq. Ft.
322
3213
Driveway 638 Sq. Ft.
315933600
Building: 2051 Sq. Ft.
Driveway 611 Sq. Ft.
321

5-9333
3229
3225
3221
5-9335
3213
N BARKWOOD LA

"…meeting community needs…enhancing quality of life."

Department of Utilities
Wastewater Treatment Plant
2006 E Newberry Street
Appleton, WI 54915-3128
920-832-5945 tel.
920-832-5949 fax

To: Chairperson Kathy Plank and Members of the Finance Committee

From: Brian Kreski, Environmental Programs Coordinator

cc: Chris Shaw, Utilities Director; Robert Kennedy Wastewater Plant Operations Supervisor; Kelli Rindt, Enterprise Fund Accounting Manager

Date: June 5, 2015

Re: **Column/Wall Plate Storage Project Change Orders #1 & #2.**

Change Order Explanation and Approval

Change Order #1 for the column/ Wall Plate Storage Project for the removal of one additional tree located near the construction area. It was agreed upon that the root system would be compromised with the installation of a footing for the projects retaining wall. Approval Change Order #1 for The Column/Wall Plate Storage Project to increase for the removal of one additional tree in the amount of $261.00 resulting in a decrease to contingency from $18,866.00 to $18,605.00. No change to overall contract amount.

Change Order #2 for the Column/Wall Plate Storage Project is for the repair of a damaged natural gas main. The gas main is made of a carbon steel pipe that was compromised to a depth greater than 10% of the pipe thickness and replacement was recommended. Approval Change Order #2 for The Column/Wall Plate Storage Project to increase for the repair of a carbon steel gas main in the amount of $2,110.00 resulting in a decrease to contingency from $18,605.00 to $16,495.00. No change to overall contract amount.

STRAND ASSOCIATES®

Strand Associates, Inc.®
910 West Wingra Drive
Madison, WI 53715
(P) 608-251-4843
(F) 608-251-8655

June 15, 2015

CHANGE ORDER NO. 3

PROJECT:	Bar Screen Replacement Project
OWNER:	City of Appleton
CONTRACT:	1-2013
CONTRACTOR:	August Winter and Sons, Inc.

Description of Change

3a	Modify Plexiglas access panel on bar screens.	ADD	$1,650.00
TOTAL VALUE OF THIS CHANGE ORDER:		ADD	$1,650.00

Contract Price Adjustment

Original Contract Price	$744,247.00
Previous Change Order Adjustments	$13,325.00
Adjustment in Contract Price this Change Order	$1,650.00
Current Contract Price including this Change Order	$745,897.00

Contract Completion Date Adjustment

Original Contract Completion Date	July 19, 2015
Contract Completion Date Adjustments due to previous Change Orders	0 days
Contract Completion Date Adjustments due to this Change Order	0 days
Current Contract Completion Dates including all Change Orders	July 19, 2015

This document shall become a supplement to the Contract and all provisions will apply hereto.

RECOMMENDED

ENGINEER–Strand Associates, Inc.® — Date 6/15/15

APPROVED

CONTRACTOR–August Winter and Sons, Inc. — Date 6/16/15

APPROVED

OWNER–City of Appleton — Date 6/26/15

VCW:plh\\\strand.com\Projects\MAD\1300--1399\1337\001\Wrd\Change Orders\CO-03\BarScrn.CO-03.docx

Witthuhn, Vernon

From: Robert Kennedy <Robert.Kennedy@Appleton.org>
Sent: Monday, June 15, 2015 6:10 AM
To: Van Grinsven, Kurt
Cc: Beinlich, Kevin; Witthuhn, Vernon
Subject: RE: Access covers

Follow Up Flag: Follow up
Flag Status: Completed

That is what I and my staff would like to see happen.
Vern, can you put a change order together for this?
Thanks
Bob

From: Van Grinsven, Kurt [mailto:kvangrinsven@augustwinter.com]
Sent: Friday, June 12, 2015 1:48 PM
To: Robert Kennedy
Cc: Beinlich, Kevin
Subject: Access covers

Bob,

Kevin met with you earlier today and talking with him we plan on stich welding stainless 304 angle iron on the top and bottom of the bar screens windows to form a "channel" to allow the plexi-glass to slide in and out from. Also, regarding the large bar screen we will cut the plexi-glass in half (vertical) to allow easier removal of the covers. We propose the work mentioned above for the amount of $1650, If you have any questions feel free to contact me.

Kurt Van Grinsven
August Winter & Sons Inc.
Project Manager
Ph (920) 739-8881 Fax (920) 739-2230
Direct Ph (920) 560-2229
kvangrinsven@augustwinter.com

"…meeting community needs…enhancing quality of life."

Department of Utilities
Water Treatment Facility
2281 Manitowoc Road
Menasha, WI 54952
920-997-4200 tel.
920-997-3240 fax

TO: Chairperson Greg Dannecker and Members of the Utilities Committee

FROM: Utilities Director Chris Shaw

DATE: June 19, 2015

RE: ***Koch Membrane Systems Warranty Agreement Expired June 15, 2015***

BACKGROUND:

The Koch Membrane Systems (KMS) Warranty Agreement expired June 15, 2015. The City of Appleton had been in a warranty agreement with Koch Membrane Systems since 2007. The KMS Warranty Agreement had provided a maintenance and replacement agreement (i.e., the warranty) for ultrafiltration membranes. The warranty agreement costs were conditioned on an escalating scale of payments over time and adjusted for inflation using the Consumer Price Index (CPI). The cost for the agreement in 2014 was $357,000.

MEMBRANE REPLACEMENT PLAN – POST WARRANTY:

As of June 15, 2015, the Membrane Warranty Agreement moved into the "post-termination" phase. During this phase, as in the previous phase, first and third quarter warranty claims may still be made, and the City must continue to maintain records and operational conditions contained in the expired KMS Agreement in order for warranty claims to be honored. As time passes, the warranty on any particular cartridge will expire or be decremented according to the following:

Post –Termination Warranty Period (months) = 60 – X months, w*here X = the number of months elapsed between membrane cartridge installation and the Termination Date (June 15, 2015)*

Cartridges claimed will be replaced on a discounted purchase, pro-rata basis using the elapsed time (X) above against the published price for cartridge purchase or an inflation adjusted figure of $3,000 whichever is less. The replacement warranty for cartridges that were placed into service 5 or more years ago will expire on June 15 irrespective of their

repair history or current flux performance. There are 40 cartridges currently in service that fall into this category.

CURRENT MEMBRANE INVENTORY

The membrane process has a total of 590 cartridges housed on 12 stages. There are currently 7 cartridges with more than 50 repairs that were placed in service in 2011 and 2012 that would qualify for a discounted replacement purchase. There will likely be more qualifying for discounted purchase in Q3 (July-September).

The current standing of new cartridges includes (227) 8-inch and (40) 10-inch TARGA II cartridges in original glycerin preservative and packaging.

If you have any questions regarding this matter please contact Chris Shaw at 920-832-5945.

WATER MAIN BREAK/JOINT LEAK DATA LOG MAY 2015

Leak Location	Arterial, Collector, Freeway, Local	Type of Street Concrete/Asphalt	Major Break Minor Break	Catch Basin Draining Yes/No	Date/Time	Comments
2018 S. Greenview Street	Local	Asphalt	Major	Yes 200' away	5/5/2015 12:00 p.m. Tuesday	Fixed right away. There was a lot of water.
700 Blk W. Weiland Avenue	Local	Asphalt	Major	Yes 5' away	5/8/2015 10:00 a.m. Friday	Leak found during repair to a manhole at Pershing Street and Locust Street. Traced the leak back to Weiland Avenue. Had been running a long time and not coming to the surface.

WATER MAIN BREAK/JOINT LEAK DATA LOG MAY 2015

Leak Location	Arterial, Collector, Freeway, Local	Type of Street Concrete/Asphalt	Major Break Minor Break	Catch Basin Draining Yes/No	Date/Time	Comments

WATER SUMMARY FOR MAY 2015

Work done by Construction Maintenance				
	May 14	**May 15**	**YTD 14**	**YTD 15**
Hydrants repaired	14	5	50	23
Hydrants replaced	1	0	1	6
Hydrant leaks	0	0	0	1
Valves replaced	0	0	4	0
Valves tested & inspected	0	0	0	0
Valves Rebuilt	0	0	14	5
Valve boxes repaired	28	33	60	95
Curb boxes repaired	36	49	76	149
Curb boxes replaced	2	3	40	32
Lead or galvanized replaced	0	0	0	0
New services 1"	0	0	0	0
New services >1"	0	1	0	2
Water main breaks	5	2	90	42
Joint leaks repaired	0	0	1	1
Water quality	4	0	5	1
Service leaks (City side)	0	0	2	0
Work done by Meter Service Team				
	May 14	**May 15**	**YTD 14**	**YTD 15**
New accounts set with 3/4" or 1"	2	17	10	47
New accounts set with larger meter	0	0	2	1
Meters tested	345	764	691	2984
Meters failed	0	0	0	0
Meters stalled	1	0	3	0
Service calls	174	168	769	674
Final readings	362	327	1472	1342
Read meters - no reading	17	0	176	0
New meters installed	0	638	0	3027
Exception meters inspected	0	0	2	0
Exception meters removed	0	0	1	0
Service leaks found	0	1	5	2
Cross connection inspections	357	605	357	2831

WATER MAIN BREAK/JOINT LEAK REPORT MAY 2015

LOCATION	Work Order	TYPE OF PIPE	SIZE	YEAR	BREAK	ESTIMATED DURATION	ESTIMATED WATER LOSS IN GALLONS	ESTIMATED DOLLAR VALUE OF WATER REVENUE LOSS**
2018 S. Greenview Street	194256	CIP	8"	1955	3" hole	6 hours	540,000	$3,284.76
700 Blk W. Weiland Avenue	194383	CIP	8"	1969	1/16" crack	14 days	5,107,200	$31,066.52
								$0.00
								$0.00
								$0.00
								$0.00
								$0.00
								$0.00
								$0.00

**Water loss is calculated at the residential rate of $4.55 per 100 cubic feet.

06-15-2015 Flood Reports for Property Owner Follow-Up

Location	**907 E Pershing St. (Lisa Clausen e-mail)**
I.D.	2015-1
Description	Concerned with "every year" street flooding.
	Back yard drain doesn't help in major events (back yard floods "even more" per owner).
Analysis	In 2013 Northland Creek Study Area.
	Model predicts 1.4'/1.6'/2.1' flooding in 5/10/100-yr events.
	Study ID'd no recommended solution. Most promising (2A) significantly reduces flooding--$16M plus utility relocates.
Options	Do Nothing.
	Investigate possible backflow preventer for backyard drain.
	Refine analysis of Alt 2A, investigate added costs of utility relocates, permit issues.
	Add PaveDrain/Storage component to previous study alternatives, re-study.
Follow-Up	Sue to contact P.O.
	Discuss backyard drain program at Work Group
	Install PaveDrain test location in 2015 for evaluation.

Location	**3225 N. Rankin St**
I.D.	2015-2
Description	Runoff overtopped curb and ran into back yard.
	Existing 6" backyard drain overwhelmed
Analysis	In 2013 Northland Creek Study Area.
	Model Predicts (<.5')/1.1'/1.7' flooding in 5/10/100-yr events
	Study ID'd no recommended solution. Most promising (2A) does not help this area.
Options	Do Nothing.
	Backyard drain exists, could investigate possible benefit of backflow preventer.
	Refine analysis of Alt 2A, investigate added costs of utility relocates, permit issues.
	Add PaveDrain/Storage component to previous study alternatives, re-study.
Follow-Up	Kevin has contacted resident.
	Discuss backyard drain program at Work Group
	Install PaveDrain test location in 2015 for evaluation.

Location	**Oakwood Court between Pershing and Northland**
I.D.	2015-3
Description	Car stalled in deep water
	Reported thru Ald. Kyle Lobner
Analysis	In 2013 Northland Creek Study Area.
	Model predicts (Q-11)1.8'/2.3'/3.8' and (Q-12) 0.5'/0.9'/2.4' flooding in 5/10/100-yr events
	Study ID'd no recommended solution. Most promising (2A) provides significant benefits here for $16M plus utility relocates.
Options	Do Nothing.
	Refine analysis of Alt 2A, investigate added costs of utility relocates, permit issues.
	Add PaveDrain/Storage component to previous study alternatives, re-study.
Follow-Up	Paula follow up w Ald. Lobner
	Install PaveDrain test location in 2015 for evaluation.

Location	**Meade-Grant Intersection**
I.D.	2015-4
Description	Street Flooding beyond ROW
	Reported thru neighbor Greg Gasper, who provided photos
Analysis	In 2014 Bellarie Study Area.
	Model predicts (Y-107?) 1.6'/2.7' flooding in 10/100-yr events
	Study ID'd no recommended solution. Most promising (SLVS) was $36M-$46M
Options	Do Nothing.
	Begin Implementing PaveDrain/Storage components as streets are reconstructed.
	Implement "Gray" or "Green" Alternatives for approx. $52M to $55M.
Follow-Up	Pete already followed up w/ neighbor
	Install PaveDrain test location in 2015 for evaluation.

Location	**Capitol Drive e-o Ballard Road**
I.D.	2015-5
Description	Street Flooding beyond ROW
	Traffic Camera
Analysis	In 2013 Northland Creek Study Area.
	Model predicts (RR-13) 0.8'/1.1' and (RR-16) /0.8'/1.3' flooding in 10/100-yr events
	Study ID'd no recommended solution. Most promising (2A) does nothing here.
Options	Do Nothing.
	Add PaveDrain/Storage component to previous study alternatives, re-study.
Follow-Up	N/A. Traffic Camera only.

Location	**Meade Street – Northland Ave Intersection**
I.D.	2015-6
Description	Street Flooding beyond ROW, into Walgreen's parking lot
	Traffic Camera
	(See also downstream Traffic photo of Northland Channel e-o Ballard)
Analysis	In 2013 Northland Creek Study Area.
	Model predicts (R-1) 1.0'/1.2'/1.5' and (Q-33) /1.0'/1.1'/1.5' flooding in 5/10/100-yr events
	Study ID'd no recommended solution. Most promising (2A) provides some benefits here.
Options	Do Nothing.
	Refine analysis of Alt 2A, investigate added costs of utility relocates, permit issues.
	Add PaveDrain/Storage component to previous study alternatives, re-study.
Follow-Up	N/A. Traffic Camera only.
	Install PaveDrain test location in 2015 for evaluation.

Location	**Memorial Drive n-o 6th Street**
I.D.	2015-7
Description	Street Flooding within ROW
	Traffic Camera
Analysis	In 2013 Spencer – Locust Update Study Area.
	Model does not include pipes in Memorial Drive.
	Flooding "about 1-ft" above crown reported by Operations near 8th S during 8//18/14 storm.
	Pursuing Alt 3A. Shows downstream benefits.
Options	Continue to pursue Alt 3A. Do nothing else.
	Refine analysis of Alt 3A, add this area to pipe network.
Follow-Up	N/A. Traffic Camera only.

Location	**2700 N. Viola Street**
I.D.	2015-8
Description	Ponded water "from sidewalk to sidewalk" and in backyards (yard drain stopped working)
	Report via email from Eugene "Skip" Palermo
Analysis	In 2013 Northland Creek Study Area.
	Model predicts (Q-25) 2.4'/2.6'/2.9' and (Q-26) 0.5'/0.7'/1.3' flooding in 5/10/100-yr events
	Study ID'd no recommended solution. Most promising (2A) essentially eliminates flooding in 100-yr event.
Options	Do Nothing.
	Refine analysis of Alt 2A, investigate added costs of utility relocates, permit issues.
	Add PaveDrain/Storage component to previous study alternatives, re-study.
	Review backflow possible backflow preventer for yard drain
Follow-Up	Provide follow-up email to Mr. Palermo.
	Discuss backyard drain program at Work Group
	Install PaveDrain test location in 2015 for evaluation.

Location	**Mason Street at RR underpass**
I.D.	2015-9
Description	Deep ponded water in street flooded car
	Photo from local TV station website, via Brian Wayner, OMNNI
Analysis	In Spencer Locust Study
	Model predicts 4.5'/6.4'/9.4' flooding in 5/10/100-yr events
	Selected alt eliminates flooding in 5, 10-yr events and reduces to 3' in 100-yr event.
Options	Continue to pursue Alt 3A on cost-effective schedule per paving program.
	Accelerate schedule for Alt 3A.
Follow-Up	N/A (News report)

Location	**Waupaca Elevator, 1726 N. Ballard Road**
I.D.	2015-10
Description	One or two inches of water in entryway of building
	Several inches of water in parking lot
Analysis	In 2013 Ballard Road Study Area.
	Model predicts 2.2'/2.4'/3.3' flooding in 5/10/100-yr events
	Selected Study Alt 2 (Leona Pond) reduces flooding to 0.9'/1.1'/2.3' in those events
Options	Continue planned construction of Ballard outfall sewer in 2017, Leona Pond in 2018.
Follow-Up	Engineering followed up w/ Waupaca Elevator, providing project schedule.

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GRAEF

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June 30, 2015

Ms. Sue Olson, P.E.
City of Appleton
100 North Appleton Street
Appleton, WI 54911

SUBJECT: Appleton East High School StormTrap Structural Inspection

Dear Sue:

GRAEF was hired by the City to enter both Phase 1 and Phase 2 of the Appleton East High StormTrap storage system and provide the structural observation of the StormTrap units. The units were inspected for new structural defects, status of previous defects, and status of previous repairs. The repair letter provided by StormTrap for crack repair during Phase 1 was used as the basis of inspection for cracks observed in the units. The Phase 1 system was inspected on June 22 and Phase 2 was inspected on June 23.

Phase 1 StormTrap System – The general condition of the StormTrap units has not appeared to change since the last inspection last year. There were minimal new cracks observed and the new cracks observed were hairline cracks with a width less than .013", thus not requiring repair. The existing repairs appear to be unchanged from a year ago (Photos 1 & 2), except for the following existing repairs:

J2 – Previous crack repair does not appear to have sealed the crack or the crack has opened wider-failing the repair. Crack width is approximately .06", recommend Type 3 Crack Repair. Photo 3

G2 – Previous crack repair does not appear to have sealed the crack or the crack has opened wider-failing the repair. Crack width is approximately .04", recommend Type 3 Crack Repair. Photo 4

G3 – Previous crack repair does not appear to have sealed the crack or the crack has opened wider-failing the repair. Crack width is approximately .05", recommend Type 3 Crack Repair.

E31 – Rust is coming through the existing repair. The corrosion appears to be minor, recommend cleaning and recoating. Photo 5

C16 – One side of crack is not sealed - opposite side was previously sealed. Crack width is approximately .04", recommend Type 2 Crack Repair (similar to opposite side repair) Photo 6

Phase 2 StormTrap System – The general condition of the StormTrap units appeared to be very good. Minimal additional hairline cracks (width less than .013") were observed as well as some extended lengths of existing hairline cracks. Existing repairs appeared to be in sound condition. Photos 7-10. The following deficiencies were noted:

D21 – Corrosion has started in exposed reinforcing that was previously coated. Recommend cleaning and recoating. Photo 11

J15 - .02" wide crack in West vertical leg. Recommend Type 2 Crack Repair. Photo 12

M20 - .02" wide crack in West vertical leg. Recommend Type 2 Crack Repair. Photo 13

Conclusion:
Overall, the general condition of the StormTrap units appears to be very good. There does not appear to be many new defects that have occurred over the past year. The defects that have occurred are minimal in number and minor in defect. Based upon the recent inspection and minimal defects over the past year, it appears the StormTrap units have settled into place, and minimal future movement (potentially creating cracks) is expected.

Going forward we recommend another structural inspection in four years to coincide with the end of the current MIC contract. At that point a schedule can be discussed to review the StormTrap system and identify any areas of structural concern.

Please contact with any questions.

Sincerely,

Jeffrey S. Rosner, P.E.
Principal

En: StormTrap Crack Repair Procedure

cc: Jim Hansen

Photo 1 – Existing Repair

Photo 2 – Existing Epoxy Repair

Photo 3 – J2, Open Crack at Repair

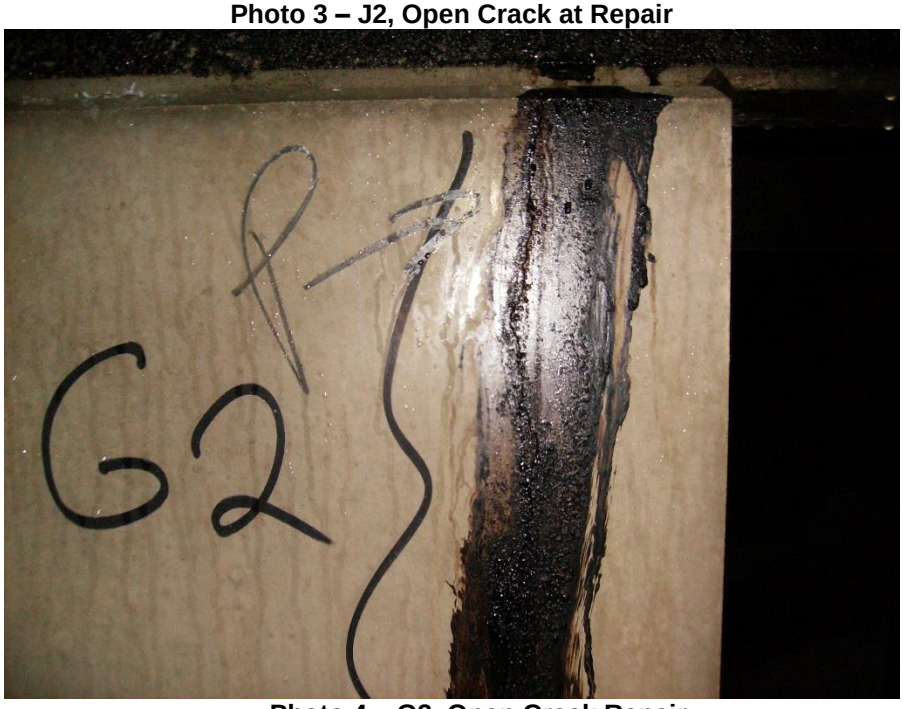

Photo 4 – G2, Open Crack Repair.

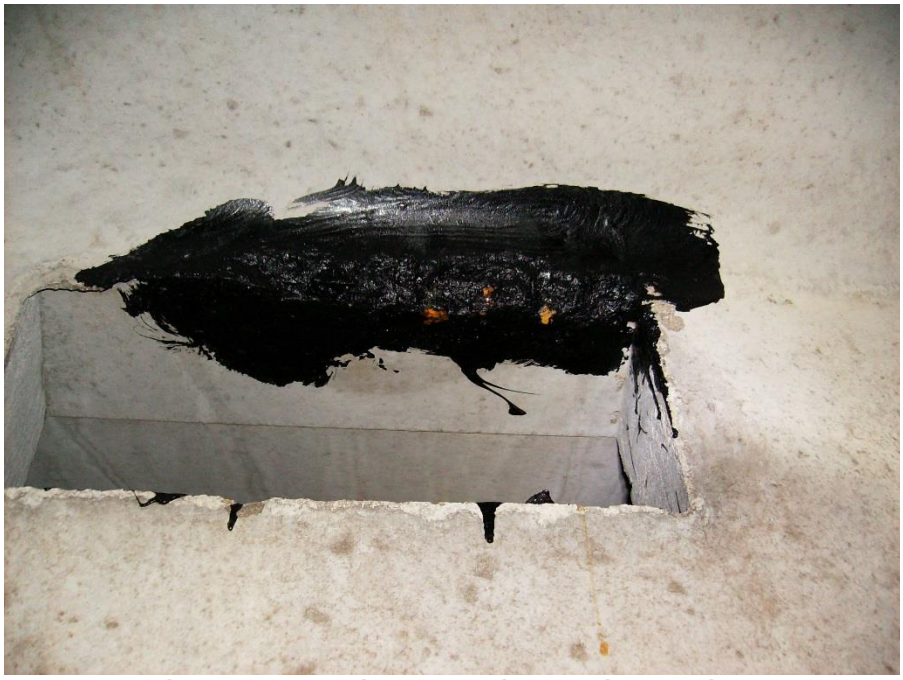

Photo 5 – E31, Minor corrosion at rebar coating.

Photo 6 – C16, Side of crack shown not previously repaired.

Photo 7 – Shim Protection

Photo 8 – Previous Repair

Photo 9 – Previous Repair

Photo 10 – Previous Repair

Photo 11 – D21, Minor corrosion at repair.

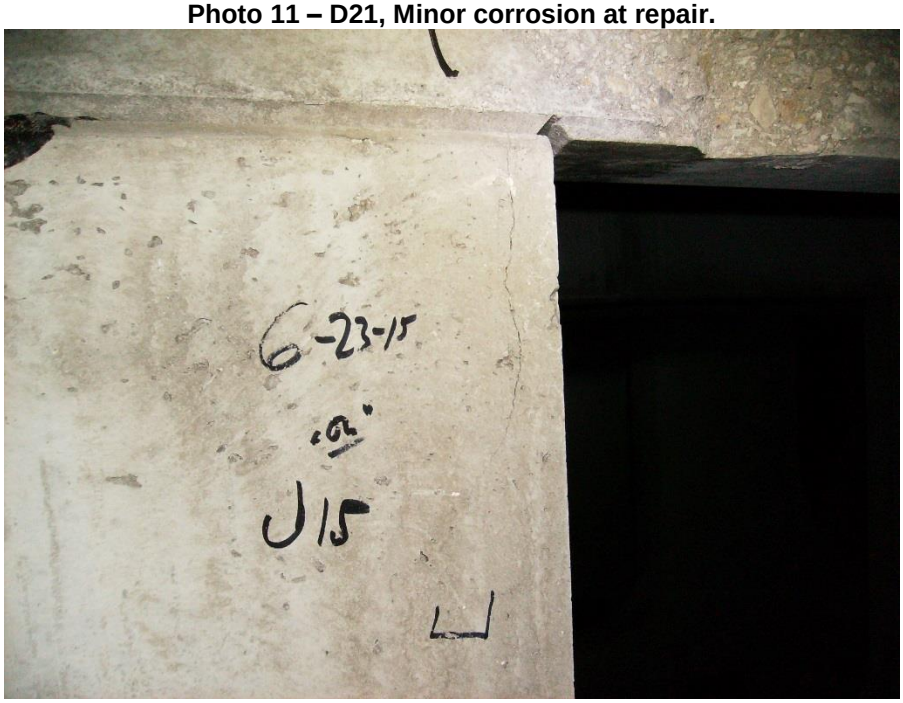

Photo 12 – J15, Vertical Crack

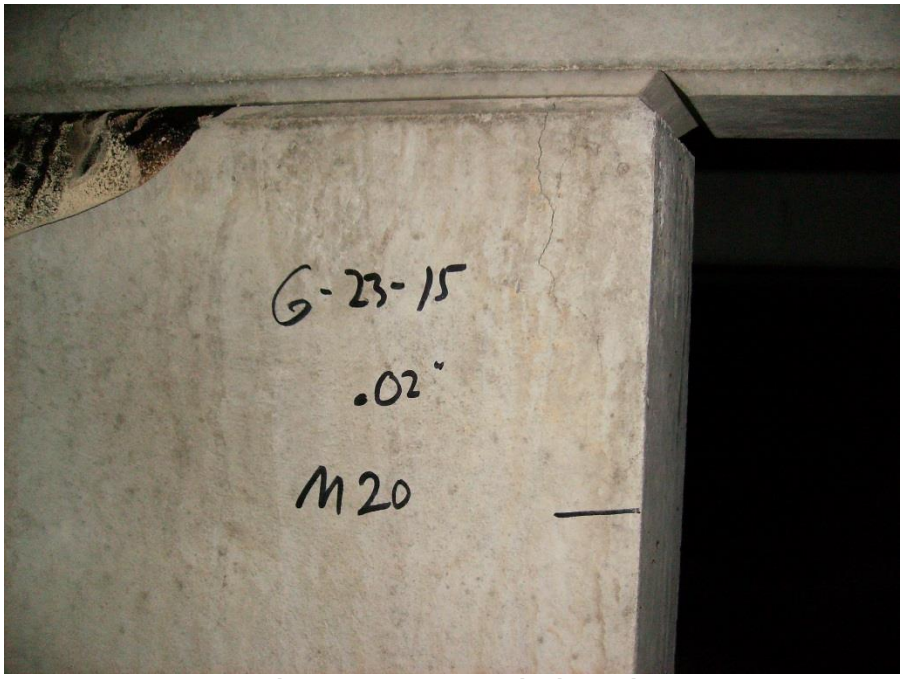

Photo 13 – M20, Vertical Crack

Precast Concrete Modular Stormwater Management System

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100 North Appleton Street
Appleton, WI 54911

Re: Crack Repair Identification Procedure – Appleton East HS Emmers Drive

StormTrap designs, manufactures and sells precast concrete storm water management systems throughout the United States and internationally for many uses including, but not limited to, storm water detention, retention, harvesting and water quality.

StormTrap is manufactured by NPCA certified manufacturing facilities. Through the NPCA certification, these facilities are required to adhere to strict quality control/quality assurance standards. These standards are one of the key components which allows StormTrap to provide the superior product that it does.

StormTrap modules are produced using 6,000 psi concrete and are structurally designed to accommodate HS-20 loading. Due to the inherent properties of reinforced precast concrete, cracking can occur during the shipment and installation process. This is an anticipated occurrence, which in most cases requires no attention. This document was prepared in attempt to help more clearly define 'extents' of cracking observed, what procedures/repairs need to be implemented, and ultimately, facilitate a smooth installation at the Appleton East High School on Emmers Drive.

Throughout the duration of delivery to the jobsite, a StormTrap representative will be available to inspect the StormTrap pieces prior to offloading. If any damage to a piece is observed prior to offloading, the StormTrap representative will inspect the piece for the purpose of documenting the location & description of the damage. As directed by the StormTrap representative, and unless the piece has been damaged beyond repair, the piece shall be offloaded & installed. The alpha-numeric location of the piece, as it pertains to the StormTrap shipping layout, shall be included on the documentation for all pieces with damage. Repairs required for pieces arriving directly from a StormTrap manufacturing facility which have experienced cracking/damage prior to off-loading shall be the responsibility of StormTrap. Pieces arriving from Midwest Industrial Coatings facility which have experienced cracking/damage prior to off-loading and require repair, shall be the responsibility of MIC. Once the pieces have been removed from the transporting truck, Radtke Contracting shall take responsibility of and therefore be responsible for any damage to pieces unrelated to any cracking/damage identified prior to offloading.

The following document identifies 3 different types of cracking occurrences that can be remedied on site. The document applies to cracking that may be observed during inspection of the pieces at the time of delivery, during installation, or after backfill. Cracking occurrences outside of these 3 specific categories are to be reviewed by StormTrap on a case-by-case basis. Chipping and spalling shall be addressed in the field on a case by case basis by the StormTrap representative. As a rule of thumb, if concrete has chipped or spalled off large enough to expose rebar, high strength, non-shrink grout shall be used to patch chip/spall.

Figure 1

Type 1

The first type of crack which may be observed is a crack which would be 0.013” or smaller in width. These are cracks which are typically observed as a result of the shipment process and are identified as ‘aesthetic’ cracking. These cracks do not pose any structural concern and require no attention. An example of this can be seen in Figure 1.

Type 2

The second type of crack which can occur is identified as being greater than 0.013” and equal to or less than 0.040” in width. Structurally, the only concern with this crack is potential migration of water into the crack which in long term applications could promote corrosion of the internal structural steel. Therefore, simply a sealant over the crack is suggested to deter water from permeating further into the precast section. Sikadur Crackfix is suggested for use in these applications to ‘cover’ the crack. Manufacturer’s specifications should be followed in applying the material correctly and a Sika representative should be contacted for any clarification or questions regarding application (Product Detail Sheet attached). See Figure 2 for an example.

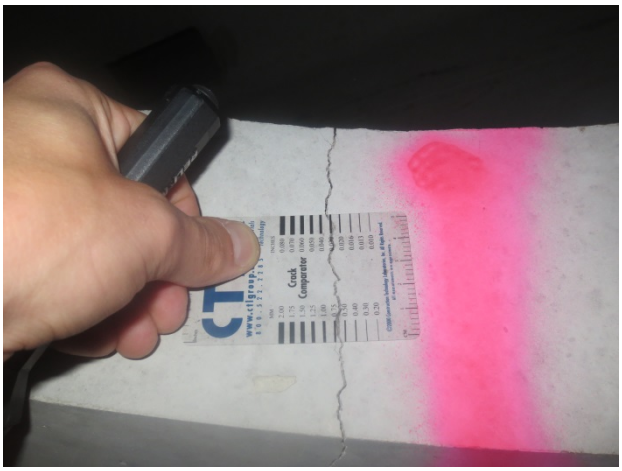

Figure 2

Figure 3

Type 3

The third type of crack which could be encountered is identified as being greater than 0.040” and equal to or less than 0.080” in width. Cracks at this width require a ‘structural material’ to impregnate the gap and provide a structural transference of load through the crack. These cracks, as identified in Figure 3, should be repaired using a structural epoxy injection. Sikadur 35, Hi-Mod LV LPL is recommended for this application. Manufacturer’s specifications should be followed in applying the material correctly and a Sika representative should be contacted for any clarification or questions regarding application (Product Detail Sheet attached).

If you have any questions or concerns, please do not hesitate contact me at your convenience.

Regards,

Brian Stahl, P.E.
StormTrap, LLC
Vice President - Operations