The auditor's work papers F2.4-F2.8 which contained excerpts from billing statements from Polsinelli PC were removed. Mr. Fritzel claims the documents are protected by the attorney-client privilege.

McDonald & Associates, Inc. Work Plan

Lawrence Kansas Rock Chalk Park Infrastructure

I. **Scope & Objectives**

().

Through this Professional Services Agreement, the City has engaged Consultant, as an independent contractor with experience reviewing construction projects and related costs, to review, with respect to Rock Chalk Park, the construction site and the City's infrastructure expenditures in order to determine:

1. Whether the construction work was delivered in accordance with the Development Agreement; and

2. Whether the City's expenditures for infrastructure (hard and soft costs) were in compliance with the Development Agreement.

II. Contract Analysis & Request for Information

| Task Description | By | Ref | Comments |
|--|---------|-----------|-----------------------------|
| Analyze the Development Agreement & Prepare a RFI | with | A2.1-A25 | 0 |
| Analyze the A103 and A201 and develop a RFI | DCH | AZ.1-AZ. | 5 -> Coast. Annal at a supe |
| Obtain the accounting for the infrastructure costs | wet | BZ. 1-BZ. | s |
| Validate the response to the RFIs and determine completeness and | 10011 | | DATA incorporates |
| request any additional data | Weff | A2.1-A25 | |
| Modify this Work Plan as made necessary by the Contract review | 12 11 | See | VANdexal |
| and RFI response | Wat | Workplan | 251 |
| Meet with the City Auditor to reach agreement on the Work Plan | 1 20 01 | See | VALdoreltinan |
| and any potential modifications | Well | Wontplan | C 1 DISTIS |
| | | 1951 | 29Mg1 21212 |

III. Infrastructure Physical Inspection and Cost Review

| Task Description | By | Ref | Comments |
|--|-------|----------|--|
| Interview City personnel who performed inspections of the work | | | Some information of so Contained in Except pages |
| as it progressed, review the inspection reports and review the as- | | B1.2 | Containd in Uxper DAARS |
| built drawings (or what is available) to gain perspective and to | well | 1011 | |
| determine what items should be physically inspected | win | | |
| With assistance of the City personnel perform a site inspection of | | C1.1 | Los Book |
| selected portions of the infrastructure, noting exceptions or | | -1.1 | and the Early |
| portions that do not agree with expectations. Record and evaluate | | | Log Book cre in Section |
| the results. This test may significantly cause a change to the | | | Gotten |
| approach and the Work Plan. If so this must be brought to the | lett | | CON AC HILL OF AC |
| City Auditor's attention and a resolution obtained. | ~~~ | | Werkprop |
| Determine which cost estimating software or methodology the | | | l previous project |
| City wishes to use and become familiar with it unless it isn't | locet | COST DI | Ath |
| necessary. | UCER | | |
| Select a sample of infrastructure items for testing. Unless there is | | CS.1-65 | 2 Concretectal US Suft costs testal |
| an overriding reason to do otherwise, the items sampled should be | , vot | C3.1-C3. | 15 Suft Costs tester |
| judgmentally selected based up value. | will | | |
| Test amounts paid by the general contractor for services | | E1.1 -E2 | .6 |
| performed (if available)—compare against city payments and | WCBF | | |
| determine if proper economic value was reasonably received. | Vivo | | |
| Conduct the testing on the sampled items and determine that the | war | C2,1-C2 | 2 Looked AF Soft |
| | | | COSTS And most |
| | | | 2 Looked At Soft COAS And Most Major Hand Cust Conference |
| Work Plan wch&ram | | | Quiterste |
| | | | Congect |

| Ref | Comments |
|---------|----------|
| El.1-62 | 5 |
| See Reg | 214 |
| | See Reg |

IV. Payment Examination

| | D | DC | |
|--|-------|--------------------|---|
| Task Description | By | Ref | Comments |
| Determine the payment allocation of the Development | | E2.1-E2 | 2 |
| Agreement—what does the city owe on which project (cap on | ADV | | |
| infrastructure vs. recreation center project). | wen | | |
| Obtain the infrastructure project accounting. Analyze and | | E21-62 | .2 |
| document (at the contractually appropriate level) either large | .0 | EGI F | |
| subcontracts (and payments) or large soft cost expenditures, any | Walt | E2.1-E2 E1.1-E1 | 2 |
| that appear unusual or non-standard so these items may be tested | | | |
| With the City Attorney perform on-site testing of attorney charges | NA | tu cu | 2 Testal legal Fees 2 Paginds vertiliad exceeded 2 Paginds vertiliad exceeded 2 Paginds vertiliad exceeded 2.8 Some Acchitecturol/ Design Agreemts coorr nut in writing |
| to conclude charge accuracy | wood | +1.1-1-1. | 0.0 |
| Review payments made for the infrastructure in total to evaluate | will | | PADinits Verifical exceeded |
| the adequacy of the supporting detail. | we | EZ.(-E2. | CAPON Dav. Agress |
| Sample items judgmentally selected to confirm that the supporting | | | a some fedritectual |
| documentation agrees with the requirements found in the | 1.VI | F2.1-F | 2.8 Day Are punt scover |
| Agreements. Note and evaluate any exceptions | w. | | Lesign Preeding |
| | A | | Not in white |
| Summarize Exceptions/Recommendations/Lessons Learned | W See | Report At | Front Section |

V. Report

Discuss the results of the testing with the City Auditor and others as necessary and draft a report. Have the report reviewed.

Present the written report and provide response to any questions or inquires raised.

McDonald & Associates, Inc. Infrastructure Cost Audit City of Lawrence, Kansas

The City of Lawrence (City) engaged McDonald & Associates, Inc, (M&A) to audit the Rock Chalk Park (RCP) Infrastructure Project to determine:

- 1. Whether the construction work was delivered in accordance with the Development Agreement; and
- 2. Whether the City's expenditures for infrastructure (hard and soft costs) were in compliance with the Development Agreement.

Based on audit work, M&A determined that the construction work delivered met or exceeded the established specifications and the costs were compliant with the terms and conditions found in the Development Agreement.

The audit process included examination of project drawings, City Department of Public Works inspection logs and reports, expenditure detail as well as contract and subcontract agreements. City personnel were interviewed as were the principle parties of the Development Agreement and service providers. The audit also included physical inspection. Information requested during the audit process was available and provided in a timely manner. M&A appreciates the cooperation received from all parties involved including the City, Kansas University Endowment and Bliss Sports II.

The following analysis is based upon the Development Agreement dated July 10, 2013 by and between the City of Lawrence, Kansas, - RCP, LLC, - Bliss Sports and Bliss Sports II. Infrastructure payments made by the City of Lawrence are less than the authorized amount and less than the cost of the work. First, the amount available to pay for Infrastructure Improvements is calculated based upon the Development Agreement terms:

| Maximum of Development Agreement Less: | \$ 22,500,000 ¹ |
|--|---|
| Total Recreation Center Construction | 10,550,630 ² DI. 4 784,333 ² DI. 3 |
| Purchase Price | 784,333 |
| Recreation Center Architect's Fee | 941,408 ² D1,2 |
| SUBTOTAL OF BALANCE REMAININIG | \$ 10,223,628 |
| Assist Foundation Contribution | 1,000,000 ¹ |
| Subtotal | \$ 11,223,628 |
| Additional funds appropriated through change orders approved by the City Commission | 1,000,000 \$ 11,223,628 161,654 ³ \$ 11,385,282 AND WAlleing Travils |
| Total Available for Infrastructure Costs | \$ 11,385,282 AM |

¹ Article XI and again in Article XII of the Development Agreement limits the city's infrastructure cost liability to \$22,500,000 plus any additional contribution.

² The data was compiled from the City of Lawrence Accounting records: the actual amounts paid confirmed by City personnel.

³ Changes to the infrastructure were not processed in a formal written change order. The City Auditor's January 8, 2014 memo concerning Interim Recommendations on changes to the work outlined this issue. As described in a Memo to the City Manager dated November 11, 2014 the City Commissioners approved \$161,654 in increases to the development agreement cap.

Infrastructure Cost Audit City of Lawrence, Kansas

The following schedule presents the attested Infrastructure construction costs and shows the Development Agreement Cap less payments made by the City. See the following:

| TOTAL ATTESTED COSTS Construction Management Fee 2% of \$11,350,317.65 TOTAL PROJECT COST (Exhibit A) | \$ 13,211,798 \$ 283,758 From Dav. Agreent \$ 13,495,556 |
|---|---|
| Total Available for Infrastructure Cost City Payments | \$ 11,385,282 \$ 10,359,633 From City \$ 1,025,649 MemorAndun |
| Pending Payment Remaining | \$ 1,025,649 Memor Anden |

The City of Lawrence reduced payment of reimbursable costs by \$1,480,978 (Exhibit A) due to examination of physical quantities installed and compliance with specification. In addition, the audit identified \$114,149 (Exhibit A) in costs as non-reimbursable. These exceptions less the total project costs of \$13,495,556 are \$11,900,432. Adjusted attested costs still exceed the Development Agreement Cap by \$515,149. Based on the infrastructure cap and payments made to date, the city has a remaining balance owed on the Development Agreement of \$1,025,649.

Infrastructure Cost Audit City of Lawrence, Kansas

| | DELIVERY OF INF | RASTRUCTURE WORK | and a state of the state of the state of the | |
|---|---|---|--|--|
| Criteria | Condition | Cause | Effect | Recommendation |
| Article X - Final Acceptance of Infrastructure Improvements - "Upon the occurrence of Substantial Completion of the Infrastructure Improvements, RCP shall cause Bliss Sports II, pursuant to the Construction Contract, to submit to the City a Certificate of Completion in the form attached [in] Exhibit J, and within thirty (30) days the Citywill issue a certificate of acceptance for the Infrastructure Improvementsor state in a writing delivered to RCP and Bliss Sports II any alleged deficiency from the Infrastructure Improvement Plans. Any disagreementconcerning | The City Manager indicated that the City did not execute the Article X Final Acceptance. The city relied on a letter from the City Engineer indicating substantial completion and indicating punch list items needing completion. | The contract makes provisions concerning a specific process for accepting and turning over the final project. This City has issued a conditional acceptance via Commission meeting notes and official memorandum. | The method for accepting and turning over the project based upon the Development Agreement was not followed. Based on testing, the contract requirements (less any minor punch list items) were fulfilled. | Execute the Final Acceptance document as described in the agreement. A Z. Y We were not Provided with a |
| the deficiency will be resolved in accordance with Article XIV hereof" 2. Section 9.02 Infrastructure Improvements Site Access. Bliss Sports II agrees to permit the Cityaccess to inspect the constructionto ascertain and determine that the requirements of the City and the terms of this agreement have been met and that the infrastructure improvements are being constructed in accordance with | City Engineers and inspectors performed continuous reviews of the construction process. In addition, testing firms provided sample analysis showing concrete and other construction processes conformed to specifications. | Engineering log books and testing reports were provided to the City of Lawrence and reviewed by Engineering personnel. | Engineering reports identified areas where construction was not completed to specifications. In these instances, the City withheld reimbursement for the estimated cost of | Along with audit exceptions and withheld amounts from the City—the cost Cap on project expenditures was exceeded. The city still owes the remainder of the cap on the development agreement. |
| the infrastructure improvements construction documents 3. Section 9.03 Reports. In this section Bliss Sports and Bliss Sports II agrees to provide the City monthly progress reports promptly after completion. These reports are to include: project status, construction issues, and | There were weekly and monthly meetings of the City, RCP and Bliss Sports II. Monthly status reports were formalized and weekly status reports were not. However, multiple testing firms validated | The City was provided testing reports from independent engineers. | City Engineering was able to make determinations concerning the quality of the work performed and whether or not the work was completed to | None. (AST Project Report in Section C3 |

3 | Page

Infrastructure Cost Audit City of Lawrence, Kansas

| Improvements-"Section9.01ConcretedeliveryticketswereindeInfrastructure Improvements Updates and Team. The City shall have the right toattend an InfrastructureConcretedeliveryticketswereindeobserved quantities installed duringcom | Cause The quantities etermined dependently and by e City Inspection eports were ompared to the chedule Lestimate. | Effect satisfaction of city specifications. Schedule I estimate was 7,276 cubic yards of concrete. The delivery tickets total 7,171 cubic yards and the City Inspection reports total | Recommendation According to information provided by the Nation Organization of Profession Estimators, a 3% was variance is an acceptab |
|--|--|---|---|
| ConstructionofInfrastructureofinfrastructure expense, Penny'sdeterImprovements-"Section9.01ConcretedeliveryticketswereindeeInfrastructure ImprovementsUpdatesandthetotaledtheand Team.The City shall have theindependently.CityemployeesReprighttoattendanInfrastructureobserved quantities installed duringcomImprovementteammeetingtoconstructionandpreparedinspectionreportsdocumentingcon | etermined dependently and by e City Inspection eports were ompared to the | 7,276 cubic yards of concrete. The delivery tickets total 7,171 cubic yards and the City | provided by the Nation Organization of Profession Estimators, a 3% was |
| Infrastructure Improvements are being developed and constructed in accordance with this Agreement, the Infrastructure Improvement Documents and all Applicable Laws and Requirements." summed provide a total amount of concrete delivered. Schedule I of the Development Agreement provides an estimate of the quantity of concrete required to fulfill the specifications. D2. Z and D3. | | 7,081 cubic yards. The percentage variance from the Schedule I estimate is 98.6% delivery tickets and 97.3% City Inspection Reports. The amount of concrete delivered is 1.4% under the estimate or may be 2.7% under the estimate if the | tolerance for concre poured on grade. The variances are within t percentage and therefore adjustment is recommende |
| built drawings of the Infrastructure Development for the purpose of testing compliance to specifications. Direct Repartable - No PART I day | ased on discussions ith the City Manager ad City Engineer, a ecision was made to ve money by not quiring as-built awings of the frastructure. | City Inspection Reports are used. As-built drawings could not be used to calculate delivered quantities and to confirm receipt of all items specified. However, the Public Works Department was able to provide logs of inspections performed. The records provided by the Public Works Department | Consider obtaining as-b drawings (record drawin so that the record of w was installed and location of same can more easily ascertair should there be a need this information in future. |

| | DELIVERY OF I | NFRASTRUCTURE WORI | < | |
|----------|---------------|--------------------|--|----------------|
| Criteria | Condition | Cause | Effect | Recommendation |
| | - | | and interviews with employees of that department provided evidence that inspections were performed and the work was completed. A site visit by the auditor was also performed and certain parts of the Infrastructure were confirmed as being in place. | |

| | | JRE COMPLIANCE | | |
|--|-------------------------------------|------------------------|------------------------------|------------------------------|
| Criteria | Condition | Cause | Effect | Recommendation |
| 6. Based on Exhibit I and terms of the | Quantities were compared against | Prices negotiated in | Comparison against | None. |
| Development Agreement (section 11 | unit costs for some of the | the Development | comparable unit price totals | The induction of the |
| and 12). The City negotiated prices for | infrastructure items with | Agreement and | for similar material showed | |
| the infrastructure and agreed on | comparable City projects. | Negotiated by the City | that the costs per specified | |
| quantities and costs. | | were reasonable. | quantity (whether | |
| 4 | | were reasonable. | percentage of total costs or | |
| | | | installed cost of a specific | |
| | D2.1 - D | 22 | commodity) appear normal | |
| | | | (7) (7) (7) (7) (7) | |
| | | | or comparable to similar | |
| | | | project costs. | |
| | | | | |
| 7. Article XI Infrastructure Payment | The City provided \$22,500,000 and | The contractor | All appropriated funds have | The City should consider |
| Section 11.01 Payment of the | received a contribution from Assist | incurred more cost | not yet been dispersed. | paying an amount up to the |
| Infrastructure Development. This | Foundation of \$1,000,000. | than was anticipated. | | total described in the |
| section provides the formula the City | Therefore the total amount | In addition, the City | The contractor's | Development Agreement |
| uses to pay for Infrastructure | available for the project was | questioned all or | expenditures are high | plus additive change orders. |
| Improvements. The total of | \$23,500,000. Expenditures were: | aspects of the | enough that even the | |
| \$24,500,000 less any amount not | Architectural \$941,408.23, Land | presented | exceptions noted by the | |
| received from a donation of | Cost \$784,333.00 and Recreation | construction costs and | City and the audit do not | |
| \$2,000,000 described in Section | Center Construction | has not made full | affect the total owed by the | ·· 1 |
| 12.02(b). The payments by the city | \$10,550,630.13 for a total of | payment. | City in the Development | |

5 | Page

| Criteria are to be applied in the following order: 1) Recreation Center Construction Contract amount, all Recreation Center Construction | Condition \$12,276,371.36 expended, leaving a total of \$11,223,628.64 for | Cause | Effect | Recommendation |
|---|--|--|--|---|
| order: 1) Recreation Center Construction Contract amount, all Recreation Center Construction | The second se | | | |
| Contract change orders, 2) the Recreation Center Architect's fee up to \$925,000 and 3) the Purchase Price (which is the purchase of 26.135 acres of land valued at \$30,000/acre or \$784,050), with the remainder available to pay for the Infrastructure Improvement. | Infrastructure. Infrastructure costs presented were \$11,598,439.03 plus change orders of \$161,654.00 for a total of \$11,760,093.03. The amount available was therefore short of the infrastructure cost \$536,464.39. | | Agreement. | |
| 8. Section 11.02 Infrastructure Improvements Cost. Exhibit I is described as agood faith estimate of costs and elements are valid and should be included. This section requires Bliss Sports II to provide RCP and the City copies of books and records which validates costs incurred and payments made by Bliss Sports II. This section states, "Without limitation" soft cost included are: interest in financing, loan origination, design and legal fees, compliance and other professional services attributable to preconstruction costs, Recreation Center Site permitting, Infrastructure Improvements and negotiation of the development and land purchase agreement and infrastructure construction contract. | Bliss Sports II accumulated costs and presented attestations for payment but could not provide a formal job cost ledger. However, Bliss Sports II provided cancelled checks, and subcontracts/service agreements. | The Work began before all agreements were in place and Bliss Sports II did not provide a complete accounting for the project. To make up for the lack of accounting attestations were requested and received. | Bliss Sports II could not provide a job cost ledger. In order to evaluate all costs, the audit created an estimated job cost ledger for purposes of testing. Bliss Sports II made payments in excess of the Development Agreement's infrastructure cap. | Although there was no formal job cost, the backup provided was sufficient to support costs in excess of the Development Agreement cap. If the City wants transparency, job cost should be required in all future projects. |
| 9. Development Agreement contract type. Section 12.02 says that the city | The City of Lawrence interprets the | Full agreement as to | Contractual ambiguity leads | In the future, if transparency |
| will pay a maximum of \$22,500,000. | agreement as cost reimbursable. However, RCP and Bliss Sports II see | the contract type was not reached. | to mixed expectations among parties. This could | is desired throughout the construction process, specific |
| However, Section 11.02 says that | the contract as a lump sum | not reached. | present needless or | audit language should be |

6 | Page

| | EXPENDITU | JRE COMPLIANCE | · · · · · · · · · · · · · · · · · · · | |
|--|--|--|---|---|
| Criteria | Condition | Cause | Effect | Recommendation |
| costs incurred (hard and soft) will be auditable. | agreement. Although the costs are auditable an audit was not a requirement assigned to RCP or the City. | | additional costs to the parties involved. | added to construction contracts to examine all records proving cost and installed quantities. In addition, steps should be taken to assure the contract is fully understood and that task assignment is addressed. |
| 10. Based on contract law standards, construction contracts should be clear, unambiguous, unmistakable and conspicuous in order to be enforceable. | Alpha Omega Geotech performed inspection work and Gould Evans performed site plans, zoning and preconstruction up-front work for both the stadium and infrastructure projects without formal subcontracts. | Some preconstruction and testing services were performed under verbal authorization from the Developer. There is no specific scope of work or costs applied between projects. | Alpha Omega provided a division of costs between the stadium and infrastructure. This division appeared reasonable. The lack of agreements makes it difficult to determine if costs were properly applied between the stadium and infrastructure project. There was no evidence that Gould Evans worked on any other scope of work other than the city infrastructure project. Payments to Gould Evans were validated by cancelled check and a vendor attestation of costs. | An adjustment to project cost is not recommended. Evidence was sufficient to indicate work in these areas was delivered. In addition, even removal of these expenses from project cost would not affect the remaining amounts owed on the project. On future projects assurance should be gained that all Work is contracted. |
| 7 Page | | 4 lph | A OmegA *(No au | Conceptual site plaus, Conceptual site plaus, Zoning And platting performed all up-bart un evidence they worken on this effer |

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EXHIBIT A

Cost attestation was determined through a review of vendor/subcontractor affidavits. These verifications were provided on the City website. The following table shows the vendor detail for attested costs:

| | A | tested Cost |
|---|----|------------------------|
| Kings Construction | \$ | 9,104,318.00 |
| DFC Company | \$ | 1,403,716.33 |
| Emprise Bank | \$ | 713,064.34 |
| Mid America Court Works | \$ | 526, 600.00 |
| Qualite | \$ | 325,000.00 |
| Earnies Mechanical | \$ | 305,530.00 |
| Paul Werner Architects | \$ | 250,000.00 |
| Poisinelli (Legal Fees per Development Agreement) | \$ | 212,535.81 |
| Gould Evans | \$ | 100,000.00 |
| Alpha Omega Geotech | \$ | 84,242.72 |
| Landplan Engineering | \$ | 76,955.98 |
| Hoss & Brown | \$ | 44,000.00 |
| Black Hills Energy | \$ | 39,750 .00 |
| Approved Paving | \$ | 26,085.00 |
| TOTAL ATTESTED COST | \$ | 1 3,211,79 8.18 |
| Construction Management Fee – 2% of \$11,350,317.65 | \$ | 283,758.00 |
| TOTAL PROJECT COST | \$ | 13,495,556.18 |

The following table shows amounts that the City of Lawrence claimed were not to specification or in excess of specification:

| Kings Construction | \$ 807,826.15 |
|---|--------------------|
| DFC Company | \$ 471,965.20 |
| Earnies Mechanical | \$ 127,701.24 |
| Mid-America Court Works, Qualite, Earnie's Mechanical | \$ 63,600.00 |
| Approved Paving | \$ 9,885.00 |
| TOTAL CITY ADJUSTMENTS | \$ 1,480,977.59 |

The audit examined legal service timesheets. The timesheets and corresponding cost detail identified services occurring prior to the creation of Bliss Sports II (soft costs were defined as those incurred under Bliss Sports II). In addition, the audit identified non-Development Agreement Bliss Sports II business activities. The following table shows amounts questioned through the audit process:

Infrastructure Cost Audit City of Lawrence, Kansas Legal Fees Outside Development Agreement Timing Legal Fees Not Related to Development Agreement Interest Outside Development Agreement Period **TOTAL AUDIT ADJUSTMENTS**

| \$ 79,611.08 | r).1-F1.2 |
|------------------|-----------|
| \$ 24,367.89 | FILLEFLO |
| \$ 10,167.59 | FLI |
| \$ 114,148.56 | - |

 \bigcirc

Development Agreement CONTRACT REVIEW AND AUDIT WORK PLAN BASIS

Scope: Perform an analysis of the development agreement determine the auditable aspects to work into the project work plan.

Work Performed: We reviewed the development agreement, discussed key concepts with City Personnel, and ask for interpretations' from all parties involved.

Observations:

Article III: The city engaged an architect to design the recreation center. Under article IV Section 4.01 the contract says that Gene Fritzel Construction Company (a related entity to Bliss Sports II) was awarded the project by competitive bid. The contract states the recreation center contract was \$10,500,000.

Based on Article XI: The infrastructure is estimated not to exceed \$12,261,426.65 (there is an anticipated donation of \$1 million under Section 12.02(b)).

Section 11.01: Fees are based on Exhibit I estimates of 2.5% on all hard and soft out of pocket costs. This includes legal fees per the development agreement, loan origination fees for project financing and loan interest for project financing.

Section 11.02: Costs include interest carry costs incurred in financing (hard and soft) such costs, loan origination fees, compliance costs, engineering and architectural fees, legal fees and other professional services costs attributable to the zoning, platting, plan approval and permitting of the recreation center site and the infrastructure improvements to the negotiation of this agreement, the purchase agreement and the infrastructure improvements construction contract. Any allocated costs will be based on relative acreage of the recreation center versus stadium site.

Section 12.02: Part (a) says the maximum cost to the city will be \$22,500,000. The order of those payments shall be as follows:

- 1) Recreation center architectural fees
- 2) The land purchase price (purchase agreement)
- 3) Recreation Center Costs
- 4) Infrastructure costs

| Architectural Fees | \$ | 941,208.23 |
|-----------------------------------|-----------------|---------------------------------------|
| Land Purchase Price | \$ | 784,333.00 |
| Recreation Center Costs | \$ | 10,550,630.13 |
| TOTAL: | \$ | 12,276,171.36 |
| | | |
| Capped Costs | \$ | 22,500,000.00 |
| Capped Costs Difference | \$ \$ | 22,500,000.00 10,223,828.64 |
| | • | <i>, ,</i> |

See detailed Analysis of project cost sheet for backup and calculations.

2/25/15 Al 1

Development Agreement CONTRACT REVIEW AND AUDIT WORK PLAN BASIS

NOTE: Based on our review of the contract, we can see different interpretations of the agreement. For this reason, we asked for input from City personnel and KU endowment.

Kansas University Endowment gave us this interpretation of the development agreement:

"Because if the significant amount of dirt that had to be moved to create the four large pad sites for these sports and recreation center venues, Bliss II was moving direct on all sites as part of the KAL project before any agreement was reached with the City. As the agreement progressed and it became apparent that Bliss II could contract for the infrastrucure and improvements it only made sense from an exonomy of scale and coordination perspective that the same earthwork contractor and many of the same subcontractors and consultnats...

The vast majority of the contracts were lump sum contracts, not unit cost contracts. As constructability and scope changes were made to the design, Bliss II rarely asked for a change order unless the magnitude of the change was significant, all the time knowing that there was a cap to the amount that Bliss II would be compensated."

David Corliss (City Manager) gave us the following interpretation of the contract:

I believe the [contract] is governed by the Development Agreement and the Development Agreement doesn't exactly fall within a specific construction contract label. I do not believe the Development Agreement was a time and materials agreement. The Development Agreement does have elements of a cost reimbursement agreement. The agreement does have a cap on City expenditures as set forth in the agreement, that if certain requirements in the Development Agreement are met, the City is obligated to pay the amounts for the infrastructure costs up to the cap.

CONCLUSION:

Our assumption is that construction costs are auditable and up to scrutiny—until the construction cap is reached. As long as the costs of the project are directly related to specifications—these are acceptable costs. Our review will focus on the direct construction costs first and then soft costs (i.e. if direct construction costs meet the cap—the soft costs are immaterial as they don't calculate into the reimbursable costs).

WH 2/25/15

January 23, 2015

Request for information

After an initial review of the documents provided I wanted to update our request for information. This is not a complete listing of items needed for the audit, but these items will help form the basis of the overall financial review of project costs and control procedures.

- 1) Access to Drawings and Inspection logs: we will need to see the detail behind construction inspections, concrete pours and other "witness points" of construction activity.
- 2) Job Cost Ledger: the final accounting which should be a combination of King Construction Transaction costs justifying the 11 schedule of value billings presented on the project (invoice detail, subcontract draws, allocations, payroll and any other detailed costs that comprised the amount billed). Bliss Sports should have this documentation and it contractually should have been reviewed by RCP. The transaction detail that supports the final accounting of cost is what we need to review.
- 3) Change Orders: if changes were made on a subcontract or prime contract level, we need access to the actual change order pricing methodology, contractual language supporting the pricing and payment detail (which should be in the Job Cost Ledger).
- 4) Subcontracts: We need access to subcontract files (agreements—terms and conditions, payments and change orders). We need to ensure the scope of the subcontract matches the scope of the building specifications and that costs (in a cost reimbursable contract) matched contractual terms.
- 5) Ancillary Agreements and Allocations: The review of the final accounting and the Kings Construction Company billings shows a gap in cost. These are most likely made up of ancillary agreements (legal agreements, engineering, etc.) and allocations such as interest and fees. All of this should be in the Job Cost Ledger as a project costs with invoice, payment or GL reference. We need access to these agreements (anything applied to the project cost outside Kings Construction) and allocations (along with the methodology for allocation).

WH 2/25/15

January 27, 2015

Toni,

In response to Polsinelli's PC concerns to the original request for information:

From the standpoint of the audit, we need to be able to validate the expenses incurred and charged to the City of Lawrence for legal fees. In order to perform the review we need to see the engagement letter for the client outlining the scope of work performed.

Our review is not to ascertain specific legal advice given to the client. We want to see the underlying agreement (supporting the billings) to ensure the scope applies to the project and that accounting controls related to time cards and billings are adequate. Specifically, we want to view time card, transaction and invoice level detail for the amounts listed on the memo dated November 5, 2014.

Invoice copies are not necessary—we may utilize a computer/spreadsheet to manually capture hours charged and to recalculate billed amounts. There is no desire to assess the means and methods utilized by the firm to deliver the contracted service just that the backup matches the agreed upon scope and rates/costs quoted.

I hope this helps clarify the request for information.



I will see you first thing Tuesday. I put together a listing of information/clarification necessary to get me jump started this week.

REQUEST FOR INFORMATION 2/1/15

- 1) Estimated installed quantity of poured concrete. The audit is looking for city based inspection information on installed quantities, not estimates from Exhibit I.
- 2) Based on the transaction reports from the city, the city paid \$939,528.23 for architectural fees, \$784,333 in land costs and \$10,556,048.81 for the recreation center. Can someone verify these are the amounts actually paid by the city?
- 3) Does the city contend that the Development Agreement is a cost reimbursable agreement or time and material? Although audit rights exist under Section 11.02—the overall price for the project appears to be \$22,500,000 (recreation center, infrastructure and general conditions).
- 4) Data concerning costs for CY of concrete installation (and other hard/soft costs) for other city projects and other municipalities (if available). We need the raw data, and we can conduct the analysis.

ANSWER

- 1) Data was provided via installed quantity logs (observation)
- 2) I pulled up the Purchase Order 009212 with the description, "Recreation Center at Rock Chalk Park - Architectural renderings needed to sell advertising space in the facility after it is build (billed hourly)". I called Karen Risner in Parks and Recreation who indicated the department hired gould evans to determine potential locations for advertising spaces located inside the building once construction was complete. The department is trying to find ways to generate revenue. I don't believe this was intended to be part of the cap on the cost of the recreation center.

Let me know if you have questions or need other information.

Thanks, Casey

3) I believe the answer to #3 is governed by the Development Agreement and the Development Agreement doesn't exactly fall within a specific construction contract label. I do not believe the Development Agreement was a time and materials agreement. The Development Agreement does have elements of a cost reimbursement agreement. The agreement does have a cap on City expenditures as set forth in the agreement, that if certain requirements in the Development Agreement are met, the City is obligated to pay the amounts for the infrastructure costs up to the cap. Let me know of additional questions, thanks, Dave.

David L. Corliss

4) Data was provided and included in the bid tab analysis.

WH 2/25/15 AZ -

Request for information 4

2/9/15

Looking back through the documentation and the Development Agreement. Under article 10 and Exhibit J--final acceptance is approved through this form. I don't see where the City has accepted the project under this article,

Answer:

I have checked with Chuck Soules, Public Works Director. The City did not execute the Article X Final Acceptance, instead we relied on the letter from Soules indicating substantial completion and indicating punch list items which needed completion. Let me know of questions, thanks, Dave.

Report Iten#1

David L. Corliss City Manager

WH 2 /25/F

Request for Information 3

2/11/15

Bob and I were going through my notes and summarizing the project accounting for the report. When I tied back to the ledger amounts (from the City's ledger print outs) I compared it against the 11/11/14 memo and I came up with \$67,321.36 less than you guys have (made up of minor differences in each of the three main categories). Since this does conflict with the memo amounts I wanted to give you guys one last shot to tell me if these are correct or not. When I was there I had these amounts validated by Casey Toomay.

| Cap On City Agreement | \$ 22,500,000.00 |
|--------------------------------|---------------------|
| Architectural Agreements | \$ (941,408.23) |
| Land Cost | \$ (784,333.00) |
| Recreation Center Construction | \$ (10,550,630.13) |
| SUBTOTAL OF BALANCE REMAINING | \$ 10,223,628.64 |

Nevertheless, my question concerns the \$161,654 referenced in the same memo as additive changes to the project. Was there an official amendment or change order to the development agreement? If not, what is the final document showing approval of this amount?

Answer:

At the Commission meeting on November 18, 2014 the attached memo addressing the infrastructure payment was discussed https://www.lawrenceks.org/assets/agendas/cc/2014/11-18-14/pw pw1315 rcp infrastructure completion memo.html

The Commission (exert from CC minutes) Moved by Schumm, seconded by Riordan, to place the balance of infrastructure payment less soft cost on next week's City Commission agenda for review and approval. The motion passed.

The memo provides an explanation of 3 change orders and the Action requested of the Commission was pending the Commission's approval of the infrastructure costs and supporting documentation to approve the requested payment.

The Change orders and costs were specifically itemized for the Commission to approve with the approval of the amount requested.

Please let me know if you have any additional questions. Thanks,

Charles F. Soules, P.E.

WH 2/25/15

MCDONALD AND ASSOCIATES CITY OF LAWRENCE INDIVIDUAL INTERVIEWS AND KU ENDOWMENT

NOTE: The following are notes taken during interviews with these individuals and their related organizations/titles.

David Corliss, City of Lawrence, City Manager Mike Amyx, City of Lawrence, Mayor Charles (Chuck) Soules, City of Lawrence, Public Works Director Dale Seuferling, Kansas University Endowment, President Monte Soukup, Kansas University Endowment, Senior Vice President of Development

David Corliss:

The main issues needing to be addressed is whether or not Bliss Sports II did work for the stadium and charged those costs to the City of Lawrence through the infrastructure project.

Mr. Corliss's biggest concerns have to be with verification of installed quantities and a review of the payments made to ensure reasonableness for items received.

History: The project was initially a development deal put together through KU Endowment by Thomas Fritzel. According to the city, his intention was to do the development for both the stadium and recreation center and lease these back to the interested entities (KU Athletics and the City of Lawrence). Mr. Corliss wanted the city to own the land and have a greater stake in the property (he envisioned fewer problems and felt the city would have greater control over their facility and more transparency over the project). David's intent was to own the property and competitively bid the project. The recreation center was competitively bid (9 bids were accepted) and DFC (a Fritzel entity) won the project.

This project was structured under a \$22.5 million dollar cap defined in the development agreement. <u>This</u> <u>the calculation for this cap is shown in the work paper outlining the contract.</u>

Bill Self contributed to the project and Gould Evans was the design firm. KU Athletics Contracted with Bliss Sports to build a \$39 million stadium and lease it for \$1.3 million per year for 30 years.

Look at the following:

- Installed quantities
- Professional Fees
- Contracts (subcontracts if available)

Mike Amyx:

The City of Lawrence expected KU Endowment to perform an extensive audit of project costs as part of the development agreement. Without this level of scrutiny, the City has concerns in the following areas:

- Attorney Fees
- Emprise Bank (Loan Origination and Interest)
- Review of any financing arrangement in county records related to the project

WH 2/6/15

- Examination of batch tickets for concrete (why is Bliss Sports II referenced as the customer and not King Construction?)
- Determine why Checks from Thomas Fritzel, DFC and Bliss Sports and Bliss Sports II are paying for this project's costs. Is this reasonable?

Chuck Soules:

The engineering department's understanding of the project is that they purchased a finished product not a cost reimbursable project with fee. In addition, City Engineers were on site measuring installed quantities each day of construction.

One of the City Engineers ran the inspection staff and the following information was captured every day on the project:

- Log of activities and site conditions
- Installed quantities
- Alpha Omega Reports (Bliss II testing firm)
- Geotechnology—performed soil and concrete testing
- BG: Provided engineering consulting and oversight for the Bank
- Sould Evans and Paul Warner—additional engineering consulting for Bliss II

Chuck indicated that the City rejected payment for the fire road on the side of the stadium (originally considered part of the infrastructure). This road, although private, was not built to City Specifications utilizing durable (granite) aggregate

SEE LOG BOOK FOR ADDITIONAL PROBLEM AREAS DURING CONSTRUCTION

For Engineering, soft costs on the project (as defined in the development agreement 11.02) are the biggest concern. Engineering feels comfortable with installed quantities and that controls were in place to ensure what was specified was provided.

This fact is well documented concerning Rock Chalk Drive and GWW intersection. Saw cut depth and stabilizer depths were in adequate. The city required the contractor to remove and replace this section at no costs to ensure the road specified was built.

City Utilities looked at water and sewer line installation. They maintained logbooks and had inspectors on hand. Between the public and private firms reviewing construction, this project was monitored throughout the construction process.

However, there is concern that bleed-over occurred between the stadium and City of Lawrence projects.

KU ENDOWMENT

The city, athletics and a couple of developers were working on another site west of the city. KU Endowment eventually purchased the site to enable KU athletics to afford new facilities required under title 9. Mr. Fritzel (prior to planning) had to obtain a permit from the city and permission from the University.

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The city had a lot 10-12 acres to develop a recreation center. Mr. Fritzel got an option on the land near the proposed development site, setup the development plan and pitched the University Endowment/Athletics and the city with the idea of building out this project.

KU Feels that Thomas Fritzel was shorted in three main areas:

- 1. Fire Road (the city wouldn't pay for this road—claimed it was not built to city specifications)
- 2. Landscaping (Fritzel put in much more landscaping that originally specified).
- 3. Extensions to the sprinkler systems (into medians and throughout the property)

The project costs was \$22.5 million—after all contractual items were paid the amount remaining for infrastructure was \$10.5 million. The Assist Foundation kicked in another \$1 million bringing the total up to \$11.5 million for infrastructure.

There were minor changes to the recreation center-

- 1) Performance and payment bond—city paid \$50k
- 2) Tennis courts were built to higher specifications (cost was \$107k and the city paid \$53k)
- 3) Conduit was run for fiber optics (asked for \$200k but the city would only pay \$50k).

Costs that were difficult to allocate were either split according to acreage (31/69%) or the vendor was requested to attest to the amounts for the KU and City projects.

See KU Response letter 1/28/2015 for a full listing/detailing of issues.

WAR 2/25/15 RI-

Scope: Test amounts paid by the general contractor for services performed (if available)—compare against city payments and determine if proper economic value was reasonably received.

Work Performed: We tested all the billings and payments from Thomas Fritzel related companies and recreated a project job cost. This was checked against the vendor/subcontractor attestation. Then we compared those attested totals against amounts paid by one of the Fritzel based companies. In addition, if backup was minimal or lacking we sat in the office of Thomas Fritzel and examined documentation related to the issues. Bliss Sports II provided documents requested with the agreement that no copies of documentation were made. Some of these invoices contained information not related to the audit and not within the scope of the development agreement.

Observations:

| | | | | PAID | | |
|-------------------------------------|-----|-------------------|----|---------------|----|-------------------|
| Vendor/Subcontractor | Sum | of Total Attested | Su | um of Amount | Ν | lo Check Backup |
| Alpha Omega Geotech | \$ | 84,242.72 | | | Ş | 84,242.72 |
| Approved Paving | \$ | 26,085.00 | \$ | 26,085.00 | \$ | ÷ |
| Black Hills Energy | \$ | 39,750.00 | \$ | 39,750.00 | \$ | - |
| DFC Company | \$ | 1,403,716.33 | | | \$ | 1,403,716.33 |
| Earnies Mechanical | \$ | 305,530.00 | \$ | 305,530.00 | \$ | - |
| Emprise Bank | \$ | 713,064.34 | | | \$ | 713,064.34 |
| Gould Evans | \$ | 100,000.00 | \$ | 100,000.00 | \$ | |
| Hoss & Brown | \$ | 44,000.00 | \$ | 44,000.00 | \$ | () , , |
| Kings Construction | \$ | 9,104,318.00 | \$ | 9,132,568.74 | \$ | - |
| Landplan Engineering Mid America | \$ | 76,955.98 | \$ | 77,513.49 | | |
| Courtworks | \$ | 526,600.00 | \$ | 526,600.00 | \$ | - |
| Paul Werner Architects | \$ | 250,000.00 | \$ | 250,000.00 | \$ | <u>н</u> |
| Poisinelli | \$ | 212,535.81 | | | \$ | 212,535.81 |
| Qualite | \$ | 325,000.00 | \$ | 325,500.00 | \$ | - |
| Grand Total | \$ | 13,211,798.18 | \$ | 10,827,547.23 | \$ | 2,413,559.20 |

The table below is a summary of the audit created project job cost. I just put all the project related transactions together and bumped it up against your payments.

The items marked in yellow are tested in a separate document—these were omitted from this working paper.

NXM 2/26/15

Questions:

Based on the information provided and documentation available to the city, we made inquiries about the following transactions:

1) For Alpha Omega Geotech—no invoice support or contract was available to the city to understand the nature of the cost and how it was derived.

Answer: This was a third party testing firm hired by Bliss Sports II to validate that construction by the subcontractors was occurring to specifications. Alpha Omega was performing the testing on the vertical structure—since they were on site, Thomas Fritzel requested that they do the testing on the infrastructure work as well. This was done without a formal agreement (verbal agreement).

The total billing was in excess of \$250,000 for both the stadium and infrastructure. There are provisions in the development agreement to account for a split in shared costs based on acreage (31% City 69% KU Endowment).

Thomas Fritzel asked Blake Bennett at Alpha Geotech to provide his estimate of the amount just related to the infrastructure. Mr. Bennett came up with \$84,272 as the infrastructure portion—based on the extensive amount of concrete testing and boring. Following the formula in the contract, the amount would have been roughly \$77,500. Mr. Bennett was within \$6000-\$7000 of this number and attested (for the purposes of the City and KU Foundation) to the \$84,272.

The cancelled check and invoice were not provided because the service was paid for through the stadium project under one payment— and no breakout was provided other than that by Mr. Bennett.

Conclusion: Based on the amount of concrete work performed, the amount of testing necessary and verification of physical reports and payments the \$84,272 appears reasonable. A lack of formal agreement, scope of work defined and costs per scope—it is not possible to extrapolate to arrive at a better number. This is within reason, close to the defined percentage split and payment was verified. No issues noted.

2) Since DFC is a related party transaction and a physical check was not cut between Bliss and DFC, we would like to see the journal entries supporting that the amounts claimed/attested were in fact paid by Bliss Sports II.

Also, some of the King Construction payments were made out of DFC Company 5/6/13 \$223,365.74; 5/9/13 \$4,323.60 and 6/13/13 \$233,977.44. The audit wants to ensure these costs were properly handled.

Answer: We were provided the GL entries for review. Based on the information provided, the amounts attested to in the project documentation were paid through intercompany transfer to

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DFC. The concern was amounts paid to King Construction by DFC (reference checks and amounts above). Since the King Construction scope of work was paid for by several Fritzel entities and the DFC payments were included in the King Construction Costs—we wanted to ensure that the city was not charged twice for the same scope of work through DFC and Kings.

We validated that journal entries were made to reimburse DFC Company (Through Bliss Sports II) for the amounts paid. No issues were noted. Internal Memorandum existed (dated 9/18/14) to support DFC charges on the infrastructure side of the project. These expenses were comprised of the following:

- Sprinklers/Irrigation
- Sodding
- Landscaping and Bushes (DFC also guarantees the survival of the trees and bushes).

DFC won the competitive bid on the recreation center.

Conclusion: No issues were noted.

- Service agreement or scopes of work for the following vendors or subcontractors:
 - Earnies Mechanical: Provided design work for lighting. Worked in conjunction with Qualite for design and installation
 - Gould Evans: Thomas Fritzel did not have a formal subcontract in place—the scope of their work was conceptual site plans, zoning and platting—they were responsible for all the up-front work prior to turning dirt.
 - Hoss & Brown: They provided electrical Engineering expertise on the junction boxes for the parking and tennis court lighting.
 - Mid America Courtworks: Subcontract for 8 tennis courts. This was a lump sum agreement.
 - Paul Werner Architects: Worked with Land Plan to design sewer and water lines.
 Paul Werner designed the line and Land Plan did the site drawings
 - Qualite: Vendor chosen for parking and tennis court lighting
 - 1. Parking Lot Lights: \$172,500
 - 2. Parking Lot Light Labor and Misc: \$60,000
 - 3. Tennis Court Lights: \$153,000
 - 4. Tennis Court Light Labor and Misc: \$24,000
 - 5. TOTAL \$409,500—Difference from paid \$104,000 (amount attested was less than amount contracted)
- Requested documentation that increases the King Construction contract from \$8,506,947.65 to the \$9,104,317.81.

Answer: Change Order #1—3/31/14 Nature Walking Trails \$401,805 and Change Order #2— 5/22/14 Tennis Courts \$213,565

Conclusion: The city has already removed \$63,600 and \$43,565 from the payment for these items. Any pricing concerns of the audit are covered through these withheld amounts.

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5) Through county records, the audit discovered a filing for a Construction Mortgage related to title number 3123092 for \$17,150,000. Did this have anything to do with the infrastructure project?

Answer: This amount was purely for the stadium site. Emprise Bank only filed a mortgage on the Stadium (real property financed back to KU through Bliss Sports). This is a long-term lending arrangement. The construction financing was on a separate signatory note and due to Federal banking laws remained separate from the mortgaged property.

6) How were payments worked out and why was money flowing from Emprise Bank, Bank of **Oklahoma and Sunflower Bank?**

Answer: The project was financed through Industrial Revenue Bonds (IRB) in order to qualify for tax exemption. Emprise handled the construction draws, but the Bank of Oklahoma was the Trustee for the IRBs. Although it was a movement of paper, the Bank of Oklahoma was required to "put their hands" on the transaction prior to passing the money back to Emprise Bank. The whole flow of payments and money was to ensure sales and property tax exemption for the projects.

7) The concrete delivery tickets—why is Bliss Sports II on the majority of the delivery tickets and not King Construction?

Answer: Bill Penny asked Thomas Fritzel to guarantee the purchase of the concrete. King Construction paid for the concrete. This provided Penny with greater assurance for payment in the event King defaulted.

General Notes: There is no direct contractual relationship between the City of Lawrence and Bliss Sports II or any Fritzel entity. Bliss Sports II is contracted with KU Endowment under Rock Chalk Park (RCP). In turn, the city is purchasing the infrastructure from RCP. The contract (as long as the city got the material specified in the original drawing) had a contractual cap of \$22,500,000. This included a recreation center, tennis courts, parking and roads.

The audit responsibility to validate these costs (in our interpretation) rests on KU Endowment. Since the city is not directly contracted with Bliss Sports II---the city would owe no interest to Bliss Sports II or any expense derived from KU Endowment's lack of third party review (audit) of the costs presented

Conclusion: We were able to validate the costs supplied by Bliss Sports II. After we test installed quantities—we can validate the information structure paid for in the specification was received. At this point, we identified no material issues.

Well 2/26/15

ISSUE: Thomas Fritzel lacked formal agreements with Gould Evans and Alpha Geotech-although the transactions are within reason, the lack of agreements are counter to best business practices.

WH 2/26/15 BZ.5

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January 28, 2015

Warren Hudson, MBA, CIA, CFE, CCA, CRMA Capital Development Consulting/Auditing

Dear Warren:

Following our meeting on Tuesday of this week, RCP LLC, a wholly owned entity of KU Endowment, is pleased to cooperate with you to verify the value of the completed work in accordance with the terms of the Development Agreement and to confirm adherence to processes by which the project was accomplished. This letter and the attachment will provide some historical context for the development of the project.

As early as June 30, 2011, the Lawrence Journal-World reported that the Assists Foundation was contemplating a donation of a \$1 million to support the development of a City of Lawrence recreation and wellness center which at that time, then Mayor Aron Cromwell estimated to be a \$15 million building. Concurrently, Kansas Athletics began to explore options to develop a new sports complex to include facilities for intercollegiate track and field, soccer and softball. The size, scope and required parking for such a complex would require a development outside of the existing KU campus. It is our understanding that in 2012, and perhaps earlier, the City and Kansas Athletics were exploring with private developers on an opportunity to develop a joint complex, however those plans failed to materialize.

Bliss Sports proposed a plan and location by where both facilities could share some of the common amenities needed for peak capacity days that would sit empty much of the time if built on separate sites, primarily in the form of parking and roads. Kansas Athletics and Bliss Sports requested KU Endowment's assistance to purchase a 100 acre parcel of land which was contiguous to 45 acres of city-owned land to make possible such a joint development. As talks progressed it became apparent that there would be three projects on the site, the KAI project for

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P.O. BOX 928 • LAWRENCE, KS 66044-0928 P: 785-832-7400 • F: 785-832-7495 • www.kuendowment.org the stadiums, the City project for the rec center and the shared Infrastructure project. As such, the Development Agreement was structured to complete the infrastructure improvements concurrently as the City's recreation center and Kansas Athletics stadiums were being constructed to increase efficiencies in costs and time.

Because of the significant amount of dirt that had to be moved to create the four, large pad sites for these sports and recreation venues, Bliss was moving dirt on all sites as part of the KAI project before any agreement was reached with the City. As the agreement progressed and it became apparent that Bliss II could contract for the infrastructure and improvements it only made sense from an economy of scale and coordination perspective that the same earthwork contractor and many of the same subcontractors and consultants would be concurrently but separately contracted for the infrastructure and in some cases the recreation center. Ultimately, three separate but related entities contracted for the three projects.

The vast majority of the contracts were lump sum contracts, not unit cost contracts. As constructability and scope changes were made to the design, Bliss II rarely asked for a change order unless the magnitude of the change was significant, all the time knowing that there was a cap to the amount that Bliss II would be compensated. It is our opinion that in the City Engineers review of the costs, as compared to Schedule I, he routinely recognized reductions in scope but rarely recognized additions to the scope. Some of the more significant examples of this are as follows.

- The original scope for the tennis courts included eight lighted asphalt courts with an estimated value of \$810,000. After the Development Agreement was in place the City requested post-tension concrete courts, additional paving around the courts for bleachers, and electricity to several of the courts for ball throwers. Bliss II provided all of these upgrades and documented expenditures of \$917,000; however, the City Engineer recommended payment of \$868,765.
- 2. The Development Agreement clearly states that the cost of financing this project is to be included as indicated in Schedule I. To date, none of these costs have been approved and unfortunately due to non-payment of some portions of the work, continue to accrue. The

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total cost of financing the project as of November 21, 2014 is \$713,064.34 as evidenced by the November 21, 2014 letter from Emprise Bank and the supporting account transaction statement.

- 3. Clearly indicated in the Infrastructure Improvements Plans is a fire loop road the runs around the south, west and north sides of the track stadium. As such, the City has no obligation to maintain this private road. The purpose of the road is to provide fire truck access around the stadium. The road has been accepted by the fire department and codes officials as evidenced by the Certificate of Occupancy that was issued. A portion of the road was constructed using cast in place concrete with a limestone aggregate and other portions with granite aggregate. In his analysis, the City Engineer chose to give no credit to Bliss II for the limestone aggregate portion of the road even though there is no requirement to provide something other than this type of surface or other surface that will allow for all weather truck access
- 4. Professional Engineering Fees were also to be included as indicated in Schedule I. The actual cost of the professional engineering fees was \$470,955.98. However, in addition to the engineering fees, the City specifically requested that Bliss II pay for all of the special inspection fees, which are traditionally paid for by the owner and were not included in the good faith estimate Exhibit I. The cost of the special inspections for the Infrastructure site was \$84,272.72, none of which has been paid to date.
- 5. The Infrastructure Improvement Plans called for approximately one half mile of county road E902 to receive a chip and seal treatment. In order to accomplish this, the road required additional grading and because it had to be complete to obtain an occupancy permit for the Kansas Relays to occur in of April 2014, Bliss II paid a premium to get the contractor there when needed. Schedule I reflected an anticipated cost of \$18,000. Bliss II incurred an actual expense of \$26,085 and the City Engineer recommended payment of \$16,200.
- 6. A landscape plan for all three sites was submitted to, and approved by, the City. In consideration of the large expanse of parking surfaces and open space, Bliss II increased the number of plantings by over 200 trees and 1000 shrubs and bushes and added irrigation to all of the parking lot islands to keep the plant stock alive. In addition the caliper of the trees was generally double that required by City approved plan. Bliss II

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also provided sod in several areas around the tennis courts and Recreation Center that were not required by the plan. The added value of these improvements is estimated to be approximately \$375,000. The City Engineer failed to recognize the added value of extras and did not recommend payment for anything that was not on the original plan.

RCP, LLC appreciates the opportunity to provide this additional information and input with respect to the City audit process. We recognize that this was a complex development agreement but one that was necessary to achieve this project on this site. We believe that the documentation in total will bear out that the City received a good product and value, if not exceptional value, for the City's investment in the project. If we can be of further assistance, please do not hesitate to contact us.

Respectfully submitted,

Monte Soukup Sr. VP Property

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ROCK CHALK PARK UPDATE January 27, 2015

In October, 2012, Kansas Athletics requested that KU Endowment work with Kansas Athletics, the City of Lawrence and local developer Thomas Fritzel to develop a new track, soccer and softball complex for the University (the "*KU Stadium Facilities*"). For at least several months before seeking KU Endowment's assistance, Kansas Athletics, the City and Fritzel had discussed the possibility of jointly developing a complex that would include a City recreation center, as well as the new KU Stadium Facilities, at a location on the west side of Highway K-10 in west Lawrence. By the time Kansas Athletics asked for KU Endowment's assistance, the other parties had identified a tract of land located east of Highway K-10, north of 6th Street and west of George Williams Way as the preferred site for the joint athletics complex.

KU Endowment formed a wholly owned subsidiary, RCP, LLC ("*RCP*") to participate in the project named "Rock Chalk Park." RCP purchased two parcels of land bisected by a City owned 45-acre parcel at the preferred location in December, 2012.

Both parcels were annexed into the City and the larger, south parcel was platted and subsequently sub divided into two lots: an approximately 57-acre southern lot (the "Stadium Site") and an approximately 26 acre northern lot (the "City Recreation Center Site"). (The other approximately 19.2-acre parcel, north of the City's property, is owned by RCP free and clear of any liens or leases, but is subject to an agreement between RCP and the City which permits the City to maintain walking trails on it for period of 5 years and thereafter until cancelled by RCP on 180-days notice.)

Ground Lease of Stadium Site

In February, 2013, RCP entered into a Ground Lease of the Stadium Site with a Fritzel owned entity, Bliss Sports LC ("*Bliss Sports I*"). The Ground Lease permitted Bliss Sports I to build on the Stadium Site only the KU Stadium Facilities and a portion of the parking lots and other infrastructure needed for the KU Stadium Facilities and, if built on the north lot, a City recreation center (the "*Infrastructure Improvements*"). The Ground Lease only permits Bliss Sports I to build other improvements if they are approved in advance by RCP. Except with the prior consent of RCP, only KU and other athletics events can be held on the Stadium Site.

Kansas Athletics Sublease

Kansas Athletics and Bliss Sports I had entered into a series of development, operating and sublease agreements even before the Ground Lease was finalized. Those agreements set forth the terms by which Bliss Sports I would construct the KU Stadium Facilities and provide for a long term sublease of them to Kansas Athletics. Many of Bliss Sports I's obligations under the Ground Lease are passed through to Kansas Athletics in the sublease.

WH 2/22/15

Industrial Revenue Bonds

In order to obtain a sales tax exemption for materials and a property tax exemption for the Stadium Site and the KU Stadium Facilities for the first 10 years after construction, RCP, Bliss Sports and Kansas Athletics worked with the City to have industrial revenue bonds issued to finance the construction of the KU Stadium Facilities and the portion of the Infrastructure Improvements located on the Stadium Site. Due to the existence of the bonds, technically the City owns the Stadium Site and leases it to RCP until such time as the bonds are paid off or, if there is a default in payment, the City forecloses.

Development Agreement

Even before RCP's involvement in the project, the City, Kansas Athletics and Fritzel discussed the possibilities of a City recreation center being constructed as part of the project and of the City paying for at least some of the Infrastructure Improvements (principally the parking lot, drives and utility lines serving the KU Stadium Facilities and City recreation center) even if there was no City recreation center included in the project. In order to have the new KU Stadium Facilities completed in time for the 2014 Kansas Relays, the Ground Lease had to be signed before completion of negotiations among RCP, the City, KU Athletics and Fritzel concerning the City Recreation Center and Infrastructure Improvements. Fritzel formed another entity, Bliss Sports II LC ("Bliss Sports II"), to commence work on the Infrastructure Improvements while discussions continued with the City (again in order to meet the Kansas Relays schedule).

Eventually, the City, RCP, Kansas Athletics, Bliss Sports I and Bliss Sports II entered into a Rock Chalk Park Development Agreement dated July 10, 2013 (the "*Development Agreement*"). By the terms of it and other contracts executed pursuant to it, the City agreed to buy the 26 acre City Recreation Center Site from RCP for the per acre price that RCP had paid for it (with RCP retaining a right of first offer and a right of first refusal on the property and improvements on it).

In addition, under the terms of the Development Agreement, RCP agreed to contract with Bliss Sports II to build the Infrastructure Improvements and the City agreed to pay RCP for the Infrastructure Improvements whatever balance of \$22.5 million that was not spent by the City on (a) the purchase of the City Recreation Center Site from RCP or (b) the construction of a new recreation center on that land. (The Development Agreement also provided that the amount to be paid for the Infrastructure Improvements would be increased by the portion, if any, of a donation for that purpose from Coach Self's Assists Foundation, which eventually made a \$1 million donation toward the infrastructure improvements costs.) Lastly, the amount to be paid for the Infrastructure Improvements by the City was also capped at the sum of (a) the hard and soft costs incurred and paid by Bliss Sports II for construction of the Infrastructure Improvements plus (b) 2.5% as a construction management fee (which was determined by KU Endowment staff to be at or below a going rate for construction management of a project like the installation of the Infrastructure Improvements).

In Exhibit I to the Development Agreement ("*Exhibit* Γ ") the parties to the Development Agreement set forth a consensus "good faith estimate of the fair market value costs to be incurred in connection with the completion" of the Infrastructure Improvements. The four page

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schedule describes line item quantities for materials and work required to complete the Infrastructure Improvements. The consensus estimate at the time the Development Agreement was signed was that the costs for constructing the Infrastructure Improvements would be approximately \$12,261,426.65.

Pursuant to the Development Agreement, RCP signed a contract with Bliss Sports II (which already had started construction of the Infrastructure Improvements to meet the 2014 Kansas Relays deadline) (the "Infrastructure Improvements Construction Contract") to perform all of RCP's obligations under the Development Agreement for the Infrastructure Improvements. The Infrastructure Improvements Construction Contract provides that Bliss Sports II will not be paid more than the amount, if any, that the City pays RCP for the Infrastructure Improvements. It also provides that Bliss Sports II will be paid *less* than the amount the City pays RCP if the City pays more than the out of pocket costs incurred to third parties by Bliss Sports II and any other Fritzel entity plus 2.5%. RCP has the right to conduct a full audit of Bliss Sports II with respect to the Infrastructure Improvements. Under the Development Agreement the City has no third party or other rights under the Infrastructure Improvements Construction Contract.

Although in early negotiations for the Development Agreement the City wanted RCP to build the City's recreation center in addition to the Infrastructure Improvements, eventually the City decided to take public bids for construction of a recreation center on the City Recreation Center Site, in May, 2013. The low bidder was a Fritzel related entity, Gene Fritzel Construction, and contracts were awarded for the recreation center to it contingent upon execution of the Development Agreement.

Completion of Improvements

Once the Development Agreement was signed, representatives of the City, Bliss Sports II and RCP began a series of bi-weekly meetings to track progress on the Infrastructure Improvements. These meeting continued until completion.

Progress of the Infrastructure Improvements was also tracked by (a) on-site City inspectors; (b) inspectors hired by Emprise Bank (which had issued a separate construction loan to Bliss Sports II for construction of the Infrastructure Improvements); and (c) third party inspectors that Bliss Sports I and Bliss Sports II jointly used to inspect construction of the KU Stadium Facilities and the Infrastructure Improvements.

The track portions of the KU Stadium Facilities and a sufficient portion of the Infrastructure Improvements were completed in time for the 2014 Kansas Relays to be held when scheduled in April, 2014.

By September, 2014, the rest of the KU Stadium Facilities, the Infrastructure Improvements and the City recreation center were all substantially completed. In September, 2014, the City held a grand opening for the new recreation center.

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Recent Issues

On October 1, 2014, RCP presented to the City a statement for the hard and soft costs incurred and paid by Bliss Sports II for (or in the case of reimbursing other Fritzel entities remains liable and has an account payable for) the Infrastructure Improvements. RCP also furnished to the City documentation obtained from Bliss Sports II which indicated that Bliss Sports II's out of pocket costs (some of which amounts still need to be paid to other Fritzel entities when the City payment is received) exceeded both (a) the estimated costs set forth in Exhibit I to the Development Agreement and (b) the maximum amount that the City is obligated to pay for the Infrastructure Improvements under the Development Agreement. The amount presented by Bliss Sports II as its costs to RCP and in turn presented to the City totals over \$13.2 million (including agreed upon amounts for some change orders the City requested in the Infrastructure Improvements). The maximum amount that the City is obligated to pay for Infrastructure Improvements under the formula in the Development Agreement (after being adjusted for agreed upon amounts for change orders the City requested in the Infrastructure Improvements and for the \$1 million donation from the Assists Foundation) is approximately \$11.45 million. (The consensus estimate of Infrastructure Improvements costs in Exhibit I of the Development Agreement, \$12,261,426.65, is less than the amount Bliss Sports II spent constructing the Infrastructure Improvements but more than the amount the City is obligated to pay for them.)

To date, the City Commission has authorized paying, and the City has paid RCP (which in turn has paid Bliss Sports II), approximately \$10.36 million. However to date the City has withheld about \$1.1 million of the maximum payment.

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SCOPE: With assistance of the City personnel perform a site inspection of selected portions of the infrastructure, note exceptions or portions that do not agree with specifications. expectations. Record and evaluate the results.

WORK PERFORMED: The auditor and representatives from City Engineering walked through the RCP site and reviewed the infrastructure development. Afterward, audit testing was performed on site in the evening and selected items were checked against specified quantities.

Observations:

| | Specified | Tested |
|---------------------|-------------------|----------------------|
| Trees | 450 | 515 * |
| Lights and Poles | 30 | 30 |
| Tennis Court Lights | 12 | 12 |
| Tennis Court | 8 | 8 |
| Concrete | See concrete deli | very ticket analysis |

**Gas lines, water lines and Sewer were documented in log books from the City and City Utilities. Installation was verified by City Personnel.

NOTES

* : The trees specified were exceeded. More trees were identified than specified.

CONCLUSION: Testing of installed quantities showed no deviation from plans. As a matter of fact, testing indicated that quantities installed may have exceeded specified quantities.

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SCOPE: Review quantities installed of major construction components (either from subcontract proof or third party data).

WORK PERFORMED: The audit obtained and logged every concrete delivery ticket-for the purposes of the analysis, we did not distinguish between grades of concrete-we just examined total installed quantity. The amounts from the delivery tickets were compared to the estimates in Exhibit 1 as well as the documentation provided in city inspection reports. Normal calculation error or waste can account for as much as a 3% variance.

Observations

The following data comes from the concrete delivery tickets. We electronically and manually examined the data to ensure we were "capturing" only those items that would constitute the final delivery on an order (a concrete order may have multiple deliveries and multiple tickets—we only were concerned with the final delivered amount for an order).

| | Plant | Date 1/31/2014 | | Account Bliss | Truck | Driver Kevin Tolbert | Ticket | Application Footing | | Description 30-564F1 3K PSI NO AE FA | Ordered | Unit Cubic Yards | Delivered |
|--------------------|--------------|-------------------|-----|------------------|-------|------------------------------------|----------|------------------------|----|--|---------|----------------------------|--------------|
| Surface Surface | | 12/13/2013 | | Bliss | | Shawn Cool | 1091311 | | | 30-564F1 3K PSI NO AE FA | | Cubic Yards | |
| Surface | - | 12/13/2013 | | Bliss | | Kevia Tolbert | 1091300 | | | 30-564F1 3K PSI NO AE FA | | Cubic Yards | |
| Surface | | 3/17/2014 | | Bliss | | Shawn Cool | 1092560 | | | 30-564F1 3K PSI NO AE FA | | Cubic Yards | |
| Surface | | 12/16/2013 | | Biliss | | Kevin Tolbert | 1091341 | | | 30-564F1 3K PSI NO AE FA | | Cubic Yards | |
| Surface | 1 | 3/17/2014 | 45 | Bliss | | RL Henley | 1092557 | | | 30-564F1 3K PSI NO AE FA | | Cubic Yards | |
| Surface | 1 | 5/16/2014 | | Bliss | | Travis Mooney | 1093996 | | | 30-564F1 3K PSI NO AE FA | | Cubic Yards | - · |
| Surface | 1 | 1/16/2014 | | Biliss | | Shawn Cool | 1091719 | Footing | | 30-564F1 3K PSI NO AE FA | | Cubic Yards | |
| Surface | 1 | 3/19/2014 | | Bliss | 184 | Shawn Cool | 1092647 | Footing | 10 | 30-564F1 3K PSI NO AE FA | 40 | Cubic Yards | |
| Surface | _ 1 | \$/13/2013 | | Bliss | | Wayne Grammer | | Footing | 10 | 30-564F1 3K PSI NO AE FA | 200 | Cubic Yards | |
| Surface | | 12/18/2013 | | Bliss | | David Cazier | 1091416 | | | 40-540 4000 PSI NO AE | 270 | Cubic Yards | |
| Surface | | 12/4/2013 | | Bliss | | John Boley | 1091181 | | | 40-540 4000 PSI NO AE | | Cubic Yards | |
| Surface | | 12/20/2013 | | Əliss | | Doug Berg | 1091546 | | | 40-540 4000 PSI NO AE | | Cubic Yards | |
| Surface | 1 | 3/26/2014 | | Sliss | | Kevin Tolbert | 1092589 | | | 40-564 4000 PSI no AE | | Cubic Yards | |
| Surface | | /8/2014 | | Gliss | 194 | Wayne Grammer | 1091633 | | | 40-564 4000 PS no AE | | Cubic Yards | |
| Water | 1 | | | Bliss | 139 | Kevin Tolbert | | KICKERS | | 40-564 4000 PSI no AE | | Cubic Yards | |
| Surface | | 3/26/2014 | | Bliss | | Shawn Cool | 1092864 | | | 40-564 4000 PSI no AE | | Cubic Yards | + |
| Surface Surface | | 3/26/2014 | | Bliss Bliss | | Wayne Grammer | 1092910 | | | 40-564 4000 PS no AE | | Cubic Yards | |
| Surface | | 1/20/2014 | | Bliss | 194 | Wayna Grammer | 1091762 | | | 40-564 4000 PSI no AE | 10 | Cubic Yards | |
| Surface | | 2/24/2014 | | Bliss | | Shawn Cool RL Henley | | | | 40-5908 4K NO-AE .44 CA5 40-A564 4000 PSI AE | 90 | Cubic Yards | |
| Surface | | 3/14/2014 | | Bliss | | Wayne Grammer | 1092192 | Sidewalk | | 40-A564 4000 PSI AE | | Cubic Vards | |
| Surface | | | | Bliss | | Wayne Grammer | 1092153 | | | 40-A564 4000 PSI AE | | Cubic Yards Cubic Yards | |
| Surface | | 1/3/2014 | | Bliss | | Wayne Grammer | 1092133 | | | 40-A564 4000 PSI AE | | Cubic Yards | + |
| Surface | ا | 1/15/2014 | | Bliss | | Kevin Tolbert | 1091703 | ** 44 | | 40-A564 4000 PSI AE | | Cubic Yards | |
| Surface | | 3/17/2014 | | Bliss | | Robert Crosby | 52000112 | Mainline | | 40-A564 4000 PSI AE | | Cubic Yards | |
| Surface | | 3/17/2014 | | Bliss | 171 | Greg Mohr | | Mainline | | 40-A564 4000 PSI AE | | Cubic Yards | |
| Surface | 1 | 1/24/2014 | | Bliss | | Wayne Grammer | 1091778 | | | 40-A564 4000 PSI AE | | Cubic Yards | |
| Surface | , | 12/16/2013 | | Bliss | | Brian Lindelof | 1091324 | | | 40-A564 4000 PSI AE | | Cubic Yards | |
| Surface | 1 | 1/24/2014 | | Bliss | | Kevin Tolbert | 1091789 | | | 40-A564 4000 PSI AE | | Cubic Yards | |
| Surface | | 2/28/2014 | | Bliss | | Kevin Balley | 1092235 | | | 40-A564 4000 PSI AE | | Cubic Yards | |
| Surface | j | 12/2/2013 | 60 | Bliss | | Glynn Tipton | | Mainline | | 40-A564 4000 PSI AE | | Cubic Yards | |
| Surface | 1 | 12/12/2013 | | Bliss | 160 | Joseph Tate | 1091261 | Wall | 10 | 40-A564 4000 PSI AE | | Cubic Yards | |
| Surface | 1 | 5/29/2014 | 119 | Biliss | 123 | Timothy Belton | 1094216 | Sidewalk | 9 | 40-A564 4000 PSI AE | | Cubic Yards | |
| Surface | 1 | 4/22/2014 | 138 | Bliss | | Tony Richason | 1093521 | Wall | 6 | 40-A564 4000 PSI AE | 16 | Cubic Yards | |
| Surface | 1 | 12/4/2013 | 5 | Bliss | 159 | Doug Berg | 1091194 | | 10 | 4K NO-AE .44 CAS | 90 | Cubic Yards | |
| Surface | 1 | 4/12/2014 | | Bliss | | Michael Youngber | | Mainline | | 50-A705 5K AE | 200 | Cubic Yards | |
| Surface | 1 | 4/11/2014 | 54 | Bliss | 112 | Lance Atkins | 1093343 | Mainline | 10 | 50-A705 5K AE | 420 | Cubic Yards | |
| Surface | 1 | 3/20/2014 | | Bliss | | Marty Trumble | 1092702 | STPATCH | | 50-A705 5K AE | 30 | Cubic Yards | |
| Surface | 1 | 10/15/2013 | 3 | Bliss | | AL Henley | | Mainline | | A\$6425G4 KCMMB 4K 25% .42 | 900 | Cubic Yards | |
| Surface | 1 | 3/13/2014 | 44 | Billss | 1.95 | Marty Trumble | | Machine | | AS6425G4 KCMMB 4K 25% .42 | | Cubic Yards | |
| Surface | 1 | 3/13/2014 | 44 | Bliss | 160 | Joseph Tate | | Machine | | AS6425G4 KCMMB 4K 25% .42 | | Cubic Yards | \downarrow |
| Water | 1 | 9/9/2013 | 45 | kings | 195 | Marty Trumble | | INVERTS | 1 | AS6425G4 KCMMB 4K 25% .42 | | Cubic Yards | |
| Water | | 8/9/2013 | | Kings | | Marty Trumble | 1086434 | | | AS6425G4 KCMMB 4K 25% .42 | | Cubic Yards | 1 |
| Water | 1 | 8/16/2013 | 79 | Kings | | Glynn Tipton | 1086652 | | | AS6425G4 KCMMB 4K 25% .42 | | Cubic Yards | 1 |
| Water | 1 | 8/26/2013 | 85 | Kings | | Mark los | 1086907 | | | AS6425G4 KCMMB 4K 25% .42 | | Cubic Yards | |
| Water | <u> </u> | 8/1/2013 | | Kings | | Brian Lindelof | | INVERTS | | AS6425G4 KCMMB 4K 25% .42 | | Cubic Vards | + |
| Water | | 8/23/2013 | | Kings | | Shawn Cool | | INVERTS | | AS6425G4 KCMMB 4K 25% .42 | | Cubic Yards | + |
| Water SEWER | | | | Kings | | Wayne Grammer | | INVERTS | | AS6425G4 KCMMB 4K 25% .42 | | Cubic Yards | + |
| | | | | Kings | | Wayne Grammer | | INVERTS | | AS6425G4 KCMMB 4K 25% .42 | | Cubic Yards | + |
| Water Water | | | | Kings Kings | | David Cazler | 1088419 | | | AS6425G4 KCMMB 4K 25% .42 | | Cubic Yards | |
| Water | | | | Kings | | Timothy Belton Kevin Foerschier | 1086296 | | | AS6425G4 KCMMB 4K 25% .42 AS6425G4 KCMMB 4K 25% .42 | | Cubic Yards Cubic Yards | + |
| Surface | | | | Bliss | | Lance Day | | Sidewalk | | AS6425G4 KCMMB 4K 25% 44 | | Cubic Yards | + |
| Surface | | 5/8/2014 | | Bliss | | Wayne Grammer | | Mainline | | AS6425G4 KCMM9 4K 25% .44 | | Cubic Yards | + |
| Surface | - | 12/17/2013 | | Bliss | | Brian Undelof | | Mainline | | A56425G4 KCMM8 4K 25% .44 | | Cubic Yards | 1 |
| Surface | 1 | | | Bliss | | Kevin Tolbert | | Sidewalk | | A\$6425G4 KCMM9 4K 25% .44 | | Cubic Yards | |
| Surface | 1 | | | Bliss | | Robert Crosby | | Sidewalk | | A\$5425G4 KCMMB 4K 25% .44 | | Cubic Yards | 1 |
| Surface | 1 | 3/26/2014 | 21 | Bliss | | Wayne Grammer | 1092862 | SOG | | A56425G4 KCMMB 4K 25% .44 | | Cubic Yards | 1 |
| Surface | 1 | | | Bliss | | Travis Mooney | 1092996 | Sidewalk | | A56425G4 KCMM8 4K 25% .44 | | Cubic Yards | T |
| Surface | | 3/25/2014 | | Bliss | 193 | Robert Crosby | 1092824 | Sidewalk | 10 | A\$6425G4 KCMM8 4K 25% ,44 | 90 | Cubic Yards | |
| Surface | | 11/20/2013 | | Bilss | 195 | Marty Trumble | | Mainline | | AS6425G4 KCMMB 4K 25% .44 | 300 | Cubic Yards | |
| Surface | | 12/19/2013 | | Bliss | | Doug Berg | | Handpay | | A\$6425G4 KCMMB 4K 25% .44 | | Cubic Yards | |
| Surface | | 3/20/2014 | | Bliss | | Kevin Tolbert | | Sidewalk | | A\$6425G4 KCMMB 4X 25% .44 | | Cubic Yards | |
| C | 1 | 3/18/2014 | | Bliss | | Wayne Grammer | | Sidewalk | | AS6425G4 KCMMB 4K 25% .44 | | Cubic Yards | |
| Surface | 1 | 3/20/2014 | 38 | Bliss | 1 139 | Kevin Tolbert | 52000121 | Sidewalk | 10 | A\$6425G4 KCMMB 4K 25% .44 | 100 | Cubic Yards | |

McDon Associates Concrete ident Details

| 110 | Cubic Yards | 110 | 10 AS6425G4 KCMMB 4K 25% .44 | 092686 Sidewalk | Thomas Ohm | Bliss 129 | 38 | 3/20/2014 | ace 1 |
|-----|-------------|-----|-------------------------------|-----------------|------------------|-------------|-----|------------|-------|
| 30 | Cubic Yards | 40 | 10 AS6425G4 KCMMB 4K 25% .44 | 091113 Handpav | Kenneth Nichols | Bliss 135 | 46 | 12/2/2013 | nce 1 |
| 4 | Cubic Yards | 18 | 10 AS6425G4 KCMMB 4K 25% .44 | 92649 Machine | Wayne Grammer | | | 3/19/2014 | ice 1 |
| 30 | Cubic Yards | 60 | 10 AS6425G4 KCMM8 4K 25% .44 | 092915 Sidewalk | Kevin Tolbert | Bliss 139 | 47 | 3/26/2014 | ice 1 |
| 4 | Cubic Yards | 27 | 9 AS6425G4 KCMMB 4K 25% .44 | 93035 Sidewalk | Wayne Grammer | Bliss 194 | 51 | 3/26/2014 | ice 1 |
| 16 | Cubic Yards | 24 | 8 AS6425G4 KCMMB 4K 25% .44 | 92895 Handcurb | Marty Trumble | Bliss 195 | 53 | 3/26/2014 | sce 1 |
| 26 | Cubic Yards | 64 | 10 AS6425G4 KCMMB 4K 25% .44 | 92496 Handcurb | Wayne Grammer | | | 3/14/2014 | ice 1 |
| 40 | Cubic Yards | 60 | 10 AS6425G4 KCMMB 4K 25% .44 | 092349 Handpav | John Boley | Bliss 157 . | 56 | 3/10/2014 | ice 1 |
| 20 | Cubic Yards | 80 | 10 AS6425G4 KCMMB 4K 25% .44 | 92962 Sidewalk | Bryan Reeves | | | 3/26/2014 | ice 1 |
| 40 | Cubic Yards | 60 | 10 AS6425G4 KCMMB 4K 25% .44 | 91175 Mainline | Doug Berg | Bliss 159 | 57 | 12/4/2013 | ice 1 |
| 40 | Cubic Yards | 100 | 10 AS6425G4 KCMMB 4K 25% .44 | 92734 Sidewalk | Marty Trumble | Bliss 195 | 66 | 3/21/2014 | ice 1 |
| 60 | Cubic Yards | 60 | 10 AS6425G4 KCMMB 4K 25% .44 | 92224 Handpav | Marty Trumble | | | 2/24/2014 | ice 1 |
| 20 | Cubic Yards | 90 | 10 AS6425G4 KCMMB 4K 25% .44 | 91141 Mainline | Shawn Cool | | | 12/3/2013 | ice 1 |
| 356 | Cubic Yards | 400 | 10 AS6425G4 KCMMB 4K 25% .44 | 091472 EXTFW | Lance Day | | | 12/18/2013 | ice 1 |
| 26 | Cubic Yards | 26 | 8 AS6425G4 KCMMB 4K 25% .44 | 193042 C&G | Travis Mooney | | | 3/31/2014 | ice 1 |
| 101 | Cubic Yards | 101 | 1 AS6425G4 KCMMB 4K 25% .44 | 93833 Mainline | Marty Trumble | | | 5/9/2014 | ice 1 |
| 120 | Cubic Yards | 120 | 10 AS6425G4 KCMMB 4K 25% .44 | 93861 Mainline | Kevin Tolbert | Bliss 139 | 79 | 5/9/2014 | ice 1 |
| 80 | Cubic Yards | 100 | 10 AS6425G4 KCMMB 4K 25% .44 | 90001 Handpav | John Boley | Bliss 157 | 85 | 10/25/2013 | ice 1 |
| 10 | Cubic Yards | 40 | 10 AS6425G4 KCMMB 4K 25% .44 | 93691 Sidewalk | Travis Mooney | Bliss 122 | 104 | 5/5/2014 | ice 1 |
| 2 | Cubic Yards | 2 | 2 AS6425G4 KCMMB 4K 25% .44 | 090918 EXTFW | Kevin Tolbert | Kings 139 | 107 | 11/20/2013 | er 1 |
| 40 | Cubic Yards | 40 | 10 AS6425G4 KCMMB 4K 25% .44 | 92984 Sidewalk | Christopher Dieh | Bliss 194 | 108 | 3/26/2014 | ice 1 |
| 50 | Cubic Yards | 60 | 10 AS6425G4 KCMMB 4K 25% .44 | 92540 Sidewalk | Steve Wilson | Bliss 145 | 116 | 3/14/2014 | ice 1 |
| 1.5 | Cubic Yards | 1.5 | 1.5 AS6425G4 KCMMB 4K 25% .44 | 085234 INVERTS | Doug Berg | Kings 159 | 124 | 6/26/2013 | ER 1 |
| 2.5 | Cubic Yards | 2.5 | 2.5 AS6425G4 KCMMB 4K 25% .44 | 90855 | Bryan Reeves | Kings 152 | 131 | 11/19/2013 | er 1 |
| 20 | Cubic Yards | 60 | 10 AS6425G4 KCMMB 4K 25% .44 | 90856 Mainline | Shawn Cool | Bliss 174 : | 134 | 11/19/2013 | ice 1 |
| 80 | Cubic Yards | 80 | 10 AS6425G4 KCMMB 4K 25% .44 | 193662 Sidewalk | Travis Mooney | Bliss 122 | 142 | 5/2/2014 | ice 1 |
| 1.5 | Cubic Yards | 1.5 | 1.5 AS6425G4 KCMMB 4K 25% .44 | 185519 INVERTS | Carl Muller | Kings 119 | 154 | 7/2/2013 | ER 1 |
| 1.5 | Cubic Yards | 1.5 | 1.5 AS6425G4 KCMMB 4K 25% .44 | 86209 | Randall Page | Kings 110 | 161 | 7/24/2013 | er 1 |
| 140 | Cubic Yards | 200 | 10 AS6525G4 KCMMB 5K 25% .40 | 193123 RAMP | RL Henley | Bliss 192 | 45 | 4/4/2014 | ice 1 |
| 175 | Cubic Yards | 215 | 5 AS6525G4 KCMMB 5K 25% .40 | 93131 RAMP | Kevin Black | Bliss 149 | 45 | 4/4/2014 | ice 1 |
| 1 | Yd | 1 | 1 AG811G Grout 2 to 1 San | 193591 RipRap | Shawn Cool | Bliss 184 : | 79 | 4/30/2014 | ice 1 |
| 1 | | 1 | 1 AG811G Grout 2 to 1 San | 93634 Columns | Travis Mooney | Bliss 122 | 121 | 5/2/2014 | ice 1 |

The following data came from Exhibit I in the contract. Some assumptions were made in converting linear feet to cubic yards. We were attempting to determine if the estimated quantities are comparable to delivery ticket totals for poured concrete.

| Sanitary Sanita Sanitary Sewer | Flowable Mortar Backfill | CY | 403 | \$ | 70.00 | \$ 28 | 210.00 | 403 | |
|--|---|----|--------|----|-------|----------|---------|----------|--|
| Rock Chi Rock (Rock Chalk Drive & George Williams | 10' NRDI Portland cement concrete pave | SY | 9758 | \$ | 55.00 | \$ 536 | 690.00 | 1084.222 | * Calculated |
| Rock Ch: Rock (Rock Chalk Drive & George Williams | Type CG-1 Concrete curb & gutter | LF | 6257 | \$ | 16.00 | \$ 100 | 112.00 | 77.24691 | Assumption is that LF is 1 ft wide |
| Rock Chi Rock (Rock Chalk Drive & George Williams | 4" x 5' Concrete sidewalk | SY | 40 | \$ | 30.00 | \$ 1 | 200.00 | 4.444444 | |
| Rock Ch: Rock (Rock Chalk Drive & George Williams | 6" x 10' Fiber reinforced cone Sidewalk | SY | 4078 | \$ | 40.00 | \$ 163 | ,120.00 | 453.1111 | |
| Overflow Overfl Overflow Parking Lot | Concrete access ramps | SY | 464 | \$ | 50.00 | \$ 23 | 200.00 | 51.55556 | |
| Parking Parkin Parking Lot / Access Drives | Concrete Parking Lot | SY | 44,356 | \$ | 44.00 | \$ 1,951 | ,664.00 | 4928.444 | * Calculated |
| Parking Parkin Parking Lot / Access Drives | CG-1 curb and gutter | LF | 15,338 | \$ | 18.00 | \$ 276 | 084.00 | 189.358 | * Assumption is that LF is 1 ft wide |
| Rock Ch: Rock (Rock Chalk Lane and Rock Chalk Parkway | CG-1 curb and gutter | LF | 5,109 | 5 | 16.00 | \$ 81 | 744.00 | 63.07407 | * Assumption is that LF is 1 ft wide |
| Rock Ch: Rock (Rock Chalk Lane and Rock Chalk Parkway | 4" x 5' Sidewalk | SY | 195 | \$ | 30.00 | | ,850.00 | | * Calculated |
| | | | | | | | | 7276.123 | |

The following information came from the City's Engineering and Inspection reprots of Installed quantities. All values given in SY-we converted to cubic Yards

| | | | | Converted | |
|----------|-----------------------------------|--------------|------------------|-----------|--|
| | | | | CY | |
| 34 | Concrete Easement | 20 | LF | 0.25 | |
| 47 | Concrete Easement | 45 | LF | 0.56 | |
| 82 | Sidewalk | 40 | SY | 4.44 | |
| 83 | Sidewalk | 4078 | SY | 453.11 | |
| 95 | Access Ramps | 464 | SY | 51.56 | |
| | Street, Drainage, Water Crossings | 3450 | SY | 383.33 | |
| 98 | Parking Lot | 42662 | SY | 4740.22 | |
| 99 | Gutters | 11515.5 | LF | 142.17 | |
| 100 | Concrete Parking and Bus Lane | 3492 | SY | 388.00 | |
| 101 | 8" Portland Cement | 8254 | SY | 917.11 | |
| UNITS IN | I SQUARE YARDS | | | 7080.75 | |
| | Source | CY Installed | % From Delivered | Variance | |
| Delivery | Ticket Amount | 7171 | 100.00% | 0.00% | |
| Schedule | e l Estimates | 7276 | 98.56% | 1.44% | |
| Engineer | ring Dept. Estimates | 7081 | 98.74% | 1.26% | |

1. 2/2018

Report Issue # cy D3.4 Reference on WASKE FACTOR

CONCLUSION: The quantities of installed concrete are within acceptable variances of the estimate and delivered amounts. No issue noted with installed concrete in the infrastrucutre.

Note: Final Status update - Monthly Report

Rock Chalk Park - Infrastructure Report

July 2014

Report issue #3

The following report is the twelfth monthly report for the construction of infrastructure at Rock Chalk Park. The format follows the sections outlined in the development agreement with status updates and notable items complete. Attached is a copy of the spreadsheet city staff is using to track monthly quantities and totals which can be compared to the amounts approved in the development agreement. Green highlighted items on the spreadsheet have been measured by city inspection staff and yellow highlighted items on the spreadsheet are estimated quantities complete for lump sum and grading items that will not be measurable until the project is complete. The percent complete column is based on measured versus plan quantities. The blue highlighted items are complete – plan quantity (100%), under plan quantity (<100%) or over plan quantity (>100%).

City Staff has been meeting with Bliss Sports bi-weekly about infrastructure throughout the project. The majority of work completed has been inspected and installed to City specifications. Quantities of work completed have been measured by the City and provided to Bliss Sports. There have been no major changes to the design, scope, functionality or amenities of the infrastructure plans. There have been some minor changes to work items and they are outlined in the change order section. Infrastructure improvements are almost complete and staff has been working on providing punch list items. At the end of July \$9,394,550.25 of the \$12,265,168.65 total cost of infrastructure work was complete, approximately 77%.

July 25th & August 6th Public Works staff, KU Endowment and Bliss Sports conducted two walkthroughs to generate a punch list for items to be complete for acceptance of the infrastructure work. The areas on the two walkthroughs covered all of the streets and parking lots except for the lots and drives just south of the city recreation facility, where equipment and materials are still being stored. The punch lists are attached at the end of the report.

General

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No additional staking costs have been submitted by Bliss Sports.

Site Grading

- 100% of site strip, site excavation, compaction and rock excavation work is complete; all quantities are assumed to be plan quantity.
- Additional site grading was complete in July. The only remaining site grading work is to complete fine grading around recreation center and nearby parking islands.

WOX 2/26/15

Retention Ponds

- Work to complete the detention ponds is 100% complete as of July 2013.
- Summary of Costs:
 - Cost per development agreement: \$156,250
 - Final construction cost: \$156,250

Natural Trails and Eight Lighted Tennis Courts

- The post-tension concrete for the tennis courts was completed in July.
- Work on the asphalt milling and concrete trails continued in July and is being inspected by Parks & Recreation Department.

Waterline

- Work to complete Waterline is 100% complete as of November 2013
- Summary of Costs:
 - Cost per development agreement: \$468,061.65
 - Final construction cost: \$462,522.49
- Two overruns on quantities:
 - o 12" C900 DR14 Waterline: 12 extra feet, cost = \$442.44
 - o 8" PVC C900 DR14 Waterline: 14 extra feet, cost = \$406
 - Fire Hydrant Assembly: 1 extra, cost = \$3300
- One underrun on quantities:
 - Flowable fill an estimated 384.5 CY was assumed based on the unit price provided for the Sanitary Sewer flowable fill (\$70/CY). The 247 CY of flowable fill used for waterline the total cost would be \$17,290; an underrun cost of \$9620
- All other items were installed at 100% of plan quantities

Sanitary Sewer

- Work to complete Sanitary Sewer is 100% complete as of October 2013
- Summary of Costs:
 - Cost per development agreement: \$162,842.50
 - Final construction cost: \$174,312.50
- Two overruns on quantities:
 - Extra Depth manhole: 6.2 extra feet, cost = \$620
 - Flowable Fill 155 CY extra, cost = \$10,850
- All other items were installed at 100% of plan quantities

Storm Sewer

- Work to complete Storm Sewer is 100% complete as of November 2013
- Summary of Costs:

WH 42615

- Cost per development agreement: \$82,688.75
- Final construction cost: \$82,688.75
- One additional 12" pipe and end section was installed to alleviate a drainage concern along Rock Chalk Drive; because there are no 12" pipe quantities in the plans, the item has been added to the Change Order section at the end.

Parking Lot Lights

• Parking lot lights were completed in July.

Landscaping

- 606 trees and 620 shrubs have been planted on the site through July. Additional landscape work will occur in August around the rec center building.
- The construction of the site entry sign began in July and was 50% complete at the end of the month.

Rock Chalk Drive & George Williams

- All work is complete on Rock Chalk Drive and George Williams Way, with the exception of a section corner monument box. Quantities measured for concrete pavement, curb and gutter, and sidewalk are less than plan quantity per the development agreement.
- Treatment of subgrade is measured to be 97% complete. The development agreement had 12" fly ash & 4" AB3 for this work item. A change was made to 9" fly ash as recommended by the city already on the approved public improvement plans. No unit cost has been provided by Bliss for this work, the quantity has been added to the Change Order section.

Overflow Parking Lot

- The overflow parking lot was graded and access pavement was installed in July.
- Work to complete Overflow Parking Lot is 100% complete as of July 2014
- Summary of Costs:
 - Cost per development agreement: \$68,200.00
 - Final construction cost: \$65,400.00

Parking Lot/Access Drives

- Work to complete Parking Lot/Access Drives is 100% complete as of July 2014
- All of the measured quantities were less than plan quantity from development agreement.
- Due to cold weather the parking lot north of the KU track facility was not treated with fly ash before paving. The City and Bliss Sports agreed to use 12" crushed concrete thickness instead of fly ash. This quantity will be split out and listed as Change Order 6.

with stadis

- Summary of Costs:
 - o Cost per development agreement: \$3,821,846.50
 - Final construction cost: \$3,269,960.15

Rock Chalk Lane and Rock Chalk Parkway

- 818 SY of 6" x 10' fiber rec path was installed in July.
- 41 SY of 4" sidewalk and 1 access ramp was installed in July.
- The remaining work for this section is around the recreation center.

Chip and Seal County Road

- The chip and seal of E. 902 Rd was done in July and measured at 9000 SY.
- Work to complete Chip and Seal County Road is 100% complete as of July 2014
- Summary of Costs:
 - Cost per development agreement: \$18,000.00
 - Final construction cost: \$16,200.00

Rec Center Pad

- Work to complete the rec center pad is 100% complete as of July 2013.
- Summary of Costs:
 - Cost per development agreement: \$432,500
 - Final construction cost: \$432,500

Change Orders

- Change Order 1: Installed additional 1352 LF of 4" conduit for fiber
- Change Order 2: 600 LF of 3" conduit for security cameras (complete in August)
- Change Order 3: Treatment of subgrade 9" flyash on Rock Chalk Drive and George Williams Way
- Change Order 4: 12" HDPE storm sewer pipe
- Change Order 5: 12" CMP End Section.
- Change Order 6: 5998 SY 12" Subgrade Crushed Concrete in Parking Lot
- Unit costs for change orders items 1 through 6 have not yet been approved; a copy was provided to Bliss Sports on February 11, 2014.

with 2/26/15 C3.4

DATE: July 31, 2014

ESTIMATE No.: 12

PROJECT LOCATION: Rock Chalk Site Work

FOR PERIOD: July 2014 MEASURED

ESTIMATE ON ITEMS ITEM COMPLETE

| | | | | | CONT | RACTED | COMPLE | ETED 1 | TO DATE | Percent | COMPLETED | THIS PAY P | ERIOD |
|------|---|------|-------------------|------|-----------|--------------|-----------|-------------------|------------|----------|-----------|------------|----------|
| ITEM | DESCRIPTION | UNIT | QUANTITY | UNIT | PRICE | AMOUNT | UNIT | | AMOUNT | Complete | UNIT | AMO | JNT |
| | General | Unit | Quantity | Uai | t cost | Total | | | | | | | |
| 1 | Mobilization | LS | 1 | \$ 4 | 00,000.00 | \$ 400,000. | .00 | \$ | 400,000.00 | 100% | | \$ | |
| 2 | Construction Staking | LS | 1 | \$ 2 | 25,000.00 | \$ 225,000. | .00 0.25 | \$ | 58,200.00 | 25% | | \$ | |
| 3 | Seeding, Mulching & Fertilizing | AC | 20 | \$ | 1,500.00 | \$ 30,000. | .00 13.34 | <mark>] \$</mark> | 20,010.00 | 67% | | \$ | |
| 4 | Utilities Connection fees and expenses | LS | 1 | \$ | 55,000.00 | \$ 55,000. | .00 | 5 | | 0% | | \$ | - |
| 5 | Traffic Control | LS | 1 | \$ | 5,000.00 | \$ 5,000 | .00 | \$ | 5,000.00 | 100% | | \$ | - |
| 6 | Erosion & Sediment Control | LS | 1 | \$ | 40,000.00 | \$ 40,000 | .00 | \$ | 40,000.00 | 100% | | \$ | - |
| 7 | Legal Fees per Development Agreement | LS | 1 | \$ 1 | 67,836.00 | \$ 167,835 | .00 | S | | 0% | | \$ | <u> </u> |
| 8 | Loan origination fees for project financing | LS | 1 | \$ 1 | 50,000.00 | \$ 150,000 | .00 | \$ | - | 0% | | \$ | - |
| 9 | Loan interest for project financing | LS | 1 | \$ 3 | 09,515.00 | \$ 309,515 | .00 | \$ | - | 0% | | \$ | |
| 10 | Construction Management fee 2.5% on \$11.5M | LS | 1 | \$ 2 | 87,500.00 | \$ 287,500 | .00 | \$ | - | 0% | | \$ | |
| 11 | Professional Fees | LS | 1 | \$ 5 | 25,000.00 | \$ 525,000 | .00 | \$ | - | 0% | | \$ | |
| | General Sub Total | | edi ar gʻyrlar Xe | | | \$ 2,194,851 | .00 | \$ | 523,210.00 | 24% | | 5 | |

| | Site Grading | Unit | Quantity | ι. | init cost | | Total | | | | | |
|----|--------------------------------|------|----------|----|-----------|----|------------|------------|------------------|------|----------|-----------------|
| 12 | Site strip | СҮ | 32,000 | \$ | 2.25 | \$ | 72,000.00 | 32,000.00 | \$ 72,000.00 | 100% | | \$ - |
| 13 | Site Excavation | CY | 180,000 | \$ | 2.25 | \$ | 405,000.00 | 180,000.00 | \$ 405,000.00 | 100% | | \$ |
| 14 | Compaction | СҮ | 160,D00 | \$ | 1.10 | \$ | 176,000.00 | 160,000.00 | \$ 176,000.00 | 100% | | \$ |
| 15 | Topsoil Replacement/fine grade | СҮ | 10,000 | \$ | 10.00 | \$ | 100,000.00 | 9,000.00 | \$ 90,000.00 | 90% | 1,500.00 | \$ 15,000.00 |
| 16 | Rock Excavation | СҮ | 9,750 | \$ | 10.00 | \$ | 97,500.00 | 9,750.00 | \$ 97,500.00 | 100% | | \$ - |
| | Site Grading Sub Total | | | | | 5 | 850,500.00 | | \$ 840,500.00 | 99% | | \$ 15,000.00 |

| | Retention Ponds | Unit | Quantity | Unit cost | Total | | | | | |
|----|---------------------------|------|----------|-----------------|------------------|-----------|---------------|--------|----|---|
| 17 | Rock Excavation | СҮ | 10,000 | \$ 10.00 | \$ 100,000.00 | 10,000.00 | \$ 100,000.00 |) 100% | \$ | - |
| 18 | Dirt Excavation | CY | 5,000 | \$ 2.25 | \$ 11,250.00 | 5,000.00 | \$ 11,250.00 |) 100% | \$ | - |
| 19 | Faircloth skimmers | LS | 3 | \$ 10,000.00 | \$ 30,000.00 | 3.00 | \$ 30,000.00 |) 100% | \$ | • |
| 20 | Storm structure | LS | 3 | \$ 5,000.00 | \$ 15,000.00 | 3.00 | \$ 15,000.00 |) 100% | \$ | |
| | Retention Ponds Sub Total | | | | \$ 156,250.00 | | \$ 156,250.00 | 100% | \$ | |

| | Natural Trails and Eight Lighted Tennis Courts | Unit | Quantity | Unit cost | 101 101 | Total | | | | | |
|-----|--|------|----------|------------------|------------|--------------|--------------|------------|------|-----------|------------------|
| 21 | Tennis Courts | LS | 1 | \$ 640,000.00 | \$ | 640,000.00 | 0.80 \$ | 512,000.00 | 80% | 0.70 | \$ 448,000.00 |
| 22 | Retaining Walls at Tennis Courts | LS | 1 | \$ 170,000.00 | \$ | 170,000.00 | 1.00 \$ | 170,000.00 | 100% | | \$ |
| 23 | Natural trail 10' Approx. 5 = miles | SY | 33,710 | \$ 12.00 | \$ | 404,520.00 | 23,500.00 \$ | 282,000.00 | 70% | 22,272.00 | \$ 267,264.00 |
| · · | Trails and Tennis Courts Sub Total | | | | \$ | 1,214,520.00 | 5 | 964,000.00 | 79% | | \$ 715,264.00 |

C3VS

FOR PERIOD: July 2014

ESTIMATE ON ITEMS

MEASURED

DATE: July 31, 2014 ESTIMATE No.: 12

ESTIMATE NO. 12

PROJECT LOCATION: Rock Chalk Site Work

| | | | | CONT | RACTED | COMPLE | TED TO DATE | Percent | COMPLETED | THIS PAY PERIOD |
|------|-------------|------|----------|------------|--------|--------|-------------|----------|-----------|-----------------|
| ITEM | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE | AMOUNT | UNIT | AMOUNT | Complete | UNIT | AMOUNT |

ITEM COMPLETE

| | Waterline | Unit | Quantity | in l | Unit cost | | Total | | | | | |
|----|---|------|----------|------|-----------|----|------------|----------|---------------|-------|--------|----------|
| 22 | Connect to Existing water line | 1 | 1 | \$ | 750.00 | \$ | 750.00 | 1.00 | \$ 750.00 | 100% | \$ | - |
| 23 | 12" C9D0 DR14 Water line | LF | 7,642 | \$ | 36.87 | \$ | 281,760.54 | 7,654.00 | \$ 282,202.98 | 100% | \$ | |
| 24 | 8" PVC C900 DR14 Water line | LF | 472 | \$ | 29.00 | \$ | 13,688.00 | 486.00 | \$ 14,094.00 | 103% | \$ | - |
| 25 | 3" M.J. Gate Valve | EACH | 2 | \$ | 500.00 | \$ | 1,000.00 | 2.00 | \$ 1,000.00 | 100% | \$ | - |
| 26 | 6" M.J. Gate Valve | EACH | 2 | \$ | 825.00 | \$ | 1,650.00 | 2.00 | \$ 1,650.00 | 100% | \$ | - |
| 27 | 8" M.J. Gate Valve | EACH | 2 | \$ | 1,300.00 | \$ | 2,600.00 | 2.00 | \$ 2,600.00 | 100% | \$ | |
| 28 | 12" MJ Gate Valve | EACH | 33 | \$ | 1,500.00 | \$ | 49,500.00 | 33.00 | \$ 49,500.00 | 100% | \$ | <u> </u> |
| 29 | Fire Hydrant Assembly | EACH | 17 | \$ | 3,300.00 | \$ | 56,100.00 | 18.00 | \$ 59,400.00 | 106% | \$ | |
| 30 | Private Fire Hydrant Assembly (Painted Red) | EACH | 2 | \$ | 3,300.00 | \$ | 6,600.00 | 2.00 | \$ 6,600.00 | 100% | \$ | - |
| 31 | Flowable Fill | LS | 11 | \$ | 26,910.00 | \$ | 26,910.00 | 0.64 | \$ 17,222.40 | 54% | \$ | |
| 32 | 2" Curb Stop with Auto Flusher and RIPRAP | LS | 1 | \$ | 6,000.00 | \$ | 6,000.00 | 1.00 | \$ 6,000.00 | 100% | \$ | - |
| 33 | Water Meter Pits | LS | 1 | \$ | 20,303.11 | \$ | 20,303.11 | 1.00 | \$ 20,303.11 | 1.00% | \$ | <u> </u> |
| 34 | Concrete Encasement | ĹF | 20 | \$ | 60.00 | \$ | 1,200.00 | 20.00 | \$ 1,200.00 | 100% | \$ | - |
| | Waterline Sub Total | | | | | 5 | 468,061,65 | | \$ 462,522.49 | 99% | \$ | |

| S | anitary Sewer | Unit | Quantity | | Unit cost | Total | | | | | | |
|----|--|---|----------|------|-----------|---------------|--|----------|---------------|------|--------|---|
| 35 | 8" SDR26 PVC granular embedment | LF | 2,019 | \$ | 44.00 | \$ 88,836.00 | | 2,019.00 | \$ 88,836.00 | 100% | \$ | - |
| 36 | STD Manhole 4" DIA, 6' Depth | EACH | 8 | \$ | 2,000.00 | \$ 16,000.00 | | 8,00 | \$ 16,000.00 | 100% | \$ | - |
| 37 | Extra Depth 4' DIA Manhole | VF | 12.46 | \$ | 100.00 | \$ 1,246.00 | | 16.05 | \$ 1,605.00 | 129% | \$ | |
| 38 | Drop Manhole 5' DIA 6' Depth | EACH | 11 | \$ | 2,970.00 | \$ 2,970.00 | | 1.00 | | 100% | \$ | - |
| 39 | Extra Depth 5' DIA Manhole | VF | 5.3 | \$ | 110.00 | \$ 693.00 | | 6,30 | \$ 693.00 | 100% | \$ | |
| 40 | 6" Service Line | EACH | 4 | \$ | 500.00 | \$ 2,000.00 | | 4.00 | \$ 2,000.00 | 100% | \$ | • |
| 41 | Connect to Existing Manhole | EACH | 1 | \$ | 500.00 | \$ 500.00 | | 1.00 | \$ 500.00 | 100% | \$ | |
| 42 | Concrete Collars | EACH | 7 | \$ | 570.00 | \$ 3,990.00 | 10 d in 1 | 7.00 | \$ 3,990.00 | 100% | \$ | - |
| 43 | Flowable Mortar Backfill | СҮ | 403 | \$ | 70.00 | \$ 28,210.00 | | 560.00 | \$ 39,200.00 | 139% | \$ | - |
| 44 | Seed, Fertilize, Mulch and Erosion Netting | LS | 1 | \$ | 5,500.00 | \$ 5,500.00 | | 1.00 | \$ 5,500.00 | 100% | \$ | - |
| 45 | Construction Staking | No Bid | No Bid | | No Bid | No Bid | | | | | | |
| 46 | Rip Rap Erosion Protection | LS | 1 | \$ | 2,500.00 | \$ 2,500.00 | | 1.00 | \$ 2,500.00 | 100% | \$ | _ |
| 47 | Concrete Encasement | LF | 45 | \$ | 50.00 | \$ 2,250.00 | 1.500 1.0000 1.00000 1.00000 1.00000 1.000000 1.00000000 | 45.00 | \$ 2,250.00 | 100% | \$ | - |
| 48 | Impervious Ditch Check | LS | 1 | \$ | 750.00 | \$ 750.00 | | 1.00 | \$ 750.00 | 100% | \$ | - |
| 49 | Polyurethane Manhole Lining | เร | 1 | \$ | 7,397.50 | \$ 7,397.50 | | 1.00 | \$ 7,397.50 | 100% | \$ | - |
| | anitary Sewer Sub Total | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | 1.12 | | \$ 162,842.50 | | | \$ 174,191.50 | 107% | \$ | |

FOR PERIOD: July 2014

DATE: July 31, 2014 ESTIMATE No.: 12

PROJECT LOCATION: Rock Chalk Site Work

MEASURED

a an s ESTIMATE ON ITEMS

ITEM COMPLETE

| ITEM DESCRIPTION UNIT QUANTITY UNIT PRICE AMOUNT UNIT AMOUNT Complete UNIT AM | | | | | CONT | RACTED | COMPLE | TED TO DATE | Percent | COMPLETED | THIS PAY PERIOD |
|---|------|-------------|------|----------|------------|--------|--------|-------------|----------|-----------|-----------------|
| | ITEM | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE | AMOUNT | UNIT | AMOUNT | Complete | UNIT | AMOUNT |

| | Storm Sewer | Unit | Quantity | Unit cost | Total | | | | 1 1 | |
|----|------------------------------|------|----------|-----------------|-----------------|--------|--------------------------|------|--------|---------|
| 50 | 15" HDPE | LF | 38 | \$ 23.75 | \$ 902.50 | 38.00 | \$ 902.50 | 100% | | \$ - |
| 51 | 15" Reinforced Concrete Pipe | LF | 79 | \$ 24.75 | \$ 1,955.25 | 79.00 | \$ 1,955.25 | 100% | | \$ |
| 52 | 18" HDPE | LF | 87 | \$ 24.00 | \$ 2,088.00 | 87.00 | \$ 2,088.00 | 100% | | \$ - |
| 53 | 18" Reinforced Concrete Pipe | LF | 76 | \$ 25.00 | \$ 1,900.00 | 76.00 | \$ 1,900.00 | 100% | | \$ |
| 54 | 24" HDPE | LF | 706 | \$ 30.00 | \$ 21,180.00 | 706.00 | \$ 21, 180. 00 | 100% | | \$ - |
| 55 | 24" Reinforced Concrete Pipe | LF | 38 | \$ 32.00 | \$ 1,216.00 | 38.00 | \$ 1,216.00 | 100% | | \$ |
| 56 | 30" HDPE | LF | 19 | \$ 39.00 | \$ 741.00 | 19.00 | \$ 741.00 | 100% | | \$ |
| 57 | 48" Reinforced Concrete Pipe | LF | 103 | \$ 105.00 | \$ 10,815.00 | 103.00 | \$ 10,815.00 | 100% | | \$ |
| 58 | 15" RCP End Section | EACH | 1 | \$ 450.00 | \$ 450.00 | 1,00 | \$ 450.00 | 100% | | \$ - |
| 59 | 30" RCP End Section | EACH | 1 | \$ 450.00 | \$ 450.00 | 1.00 | \$ 450.00 | 100% | | \$ - |
| 60 | 48" RCP End Section | EACH | 2 | \$ 1,900.00 | \$ 3,800.00 | 2.00 | \$ 3,800.00 | 100% | | \$ - |
| 61 | 5'x4' Curb Inlet | EACH | 6 | \$ 2,025.00 | \$ 12,150.00 | 6.0D | \$ 12,150.00 | 100% | | \$ |
| 62 | 10'x4' Curb Inlet | EACH | 3 | \$ 3,252.00 | \$ 9,756.00 | 3.00 | \$ 9,756.00 | 100% | | \$ |
| 63 | 4'x4' Junction Box | EACH | 1 | \$ 2,185.00 | \$ 2,185.00 | 1.00 | \$ 2,185.00 | 100% | | \$ |
| 64 | 18"NOM DIA Rip Rap | SΥ | 84 | \$ 25.00 | \$ 2,100.00 | 84.00 | \$ 2,100.00 | 100% | | \$ |
| 65 | Flowable fill | LS | 1 | \$ 11,000.00 | \$ 11,000.00 | 1.00 | \$ 11,000.00 | 100% | | \$ - |
| | Storm Sewer Sub Total | | | | \$ 82,688.75 | | \$ 82,688.75 | 100% | | \$ |

| | Parking Lot Lights | Unit | Quantity | Unit cost | | Total | | | | | st s | | | |
|----|------------------------------|------|----------|------------------|----|------------|-------------------|-------|------------|-----|------|------|----|-----------|
| 66 | LED - Dual Fixtures | LS | 1 | \$ 120,000.00 | \$ | 120,000.00 | e - 1 | 00 \$ | 120,000.00 | 100 | % | 0.31 | \$ | 37,200.00 |
| 67 | Pole Bases | LS | 1 | \$ 25,000.00 | \$ | 25,000.00 | 1. | 00 \$ | 25,000.00 | 100 | 1% | 0.31 | \$ | 7,750.00 |
| 68 | Conduit | LS | 1 | \$ 40,000.00 | \$ | 40,000.00 | 1 . | 00 \$ | 40,000.00 | 100 | 136 | 0.20 | \$ | 8,000.00 |
| 69 | Conduit Westar | LS | 1 | \$ 25,000.00 | \$ | 25,000.00 | 1 | 00 \$ | 25,000.00 | 100 | % | 0.50 | \$ | 12,500.00 |
| 70 | Conduit for Fiber | LF | 1 | \$ - | \$ | - | | \$ | - | .09 | 6 | | \$ | - |
| 71 | Electric Service - labor | LS | 1 | \$ 30,000.00 | \$ | 30,000.00 | | \$ | - | 09 | 6 | | \$ | |
| | Parking Lot Lights Sub Total | | | | S | 240,000.00 | h di sete di sete | 5 | 210,000.00 | 88 | % | | 5 | 65,450,00 |

| | Landscaping | Unit | Quantity | Unit cost | Total | | | | |
|----|------------------|------|----------|------------------|----------------------------|------------|------|--------|-----------------|
| 72 | Trees | EACH | 450 | \$ 425.00 | \$ 191,250.00 506.00 \$ | 257,550.00 | 135% | 190.00 | \$ 80,750.00 |
| 73 | Shrubs | EACH | 710 | \$ 60.00 | \$ 42,600.00 620.00 \$ | 37,200.00 | 87% | 204.00 | \$ 12,240.00 |
| 74 | Site Entry signs | LS | 1 | \$ 150,000.00 | \$ 150,000.00 0.50 \$ | 75,000.00 | 50% | 0.50 | \$ 75,000.00 |
| 75 | Irrigation | LS | 1 | \$ 100,000.00 | \$ 100,000.00 0:90 \$ | 90,000.00 | 90% | 0.10 | \$ 10,000.00 |

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DATE: July 31, 2014

ESTIMATE No.: 12

PROJECT LOCATION: Rock Chalk Site Work

FOR PERIOD: July 2014 MEASURED ESTIMATE ON ITEMS

ITEM COMPLETE

| | | | | | CONT | RACTED | COMPLET | ED TO DATE | Percent | COMPLETED | THIS PAY PERIOD |
|------|-----------------------|------|----------|----|------------|---------------|---------|---------------|----------|-----------|-----------------|
| ITEM | DESCRIPTION | UNIT | QUANTITY | UN | IT PRICE | AMOUNT | UNIT | AMOUNT | Complete | UNIT | AMOUNT |
| 76 | Misc | LS | 1 | \$ | 100,000.00 | \$ 100,000.00 | | \$ | 0% | | \$- |
| | Landscaping Sub Total | | | | | \$ 583,850.00 | | \$ 459,750.00 | 79% | | \$ 177,990,00 |

| | Rock Chalk Drive & George Williams | Unit | Quantity | Unit cost | | letoT | | | | | |
|----|---|--------|----------|----------------|----|--------------|-----------|------------------|-------|------|----------------|
| 77 | Unclassified excavation | СҮ | 15,934 | \$ 5.00 | \$ | 79,670.00 | 15,934.00 | \$ 79,670.00 | 100% | | \$ |
| 78 | Compacted fill | СҮ | 1,790 | \$ 1.00 | \$ | 1,790.00 | 1,790.00 | \$ 1,790.00 | 100% | | \$ <u> </u> |
| 79 | Site restoration | LS | 1 | \$ 5,000.00 | \$ | 5,000.00 | 1.00 | \$ 5,000.00 | 100% | 0.10 | \$ 500.00 |
| 80 | 10" NRDJ Portland cement conc pave | SΥ | 9,758 | \$ 55.00 | Ş | 536,690.00 | 9,493.00 | \$ 522,115.00 | 97% | | \$ |
| 81 | Type CG-1 Concrete curb & gutter | LF | 6,257 | \$ 16.00 | \$ | 100,112.00 | 6,005.00 | \$ 96,080.00 | 96% | | \$ |
| 82 | 4° x 5' Concrete sidewalk | SY | 40 | \$ 30.00 | \$ | 1,200.00 | 17.00 | \$ 510.00 | 43% | | \$ |
| 83 | 6" x 10' Fiber reinforced conc sdwk | SY | 4,078 | \$ 40.00 | \$ | 163,120.00 | 3,993.00 | \$ 159,720.00 | 98% | | \$ |
| 84 | Access ramps | EACH | 13 | \$ 1,000.00 | \$ | 13,000.00 | 14.00 | \$ 14,000.00 | 108% | 1.00 | \$ 1,000.00 |
| 85 | Compaction tests street | LS | 5 | \$ 100.00 | \$ | 500.00 | 5.00 | \$ 500.00 | 100% | | \$ |
| 86 | Construction Staking | No Bid | No Bid | No Bid | | No Bid | | <u></u> | | | <u>.</u> |
| 87 | Seed, Fertilize & Mulch | LS | 11 | \$ 4,000.00 | \$ | 4,000.00 | 1.0D | \$ 4,000.00 | .100% | | \$ <u></u> |
| 88 | Clearing, Grubbing & Tree Removal | LS | 1 | \$ 1,250.00 | \$ | 1,250.00 | 1.00 | \$ 1,250.00 | 100% | | \$ |
| 89 | Treatment of subgrade 12" fly ash & 4"AB3 | SY | 11,825 | \$ 9.33 | \$ | 110,327.25 | | \$ * | 0% | | \$ |
| 90 | Erosion Control | LS | 1 | \$ 2,570.00 | \$ | 2,670.00 | 1.00 | \$ 2,670.00 | 100% | | \$ |
| 91 | Section Corner Monument Box | LS | 1 | \$ 1,000.00 | \$ | 1,000.00 | | \$ • | 0% | | \$ |
| 92 | 2" Conduit | LF | 1,701 | \$ 2.00 | \$ | 3,402.00 | | \$ - | 0% | | \$ |
| 93 | 4" Conduit | ١F | 997 | \$ 2.00 | \$ | 1,994.00 | | \$ <u> </u> | 0% | | \$ - |
| 94 | Traffic Control Signage | LS | 1 | \$ 500.00 | \$ | 500.00 | 1.00 | \$ 500.00 | 100% | | \$ |
| | | | | | \$ | 1,026,225.25 | | \$ 887,805.00 | 87% | | \$ 1,500.00 |

| | Overflow Parking Lot | Unit | Quantity | 1 | Unit cost | | Total | | | | | |
|----|--------------------------------|------|----------|----|-----------|----|-----------|--------|--------------|------|--------|-----------------|
| 95 | Concrete access ramps | SY | 464 | \$ | 50.00 | \$ | 23,200.00 | 408.00 | \$ 20,400.00 | 88% | 127.00 | \$ 6,350.00 |
| 96 | Lot Grading | LS | 1 | \$ | 25,000.00 | \$ | 25,000.00 | 1.00 | \$ 25,000.00 | 100% | 0.25 | \$ 6,250.00 |
| 97 | Temporary Gravel Laydown | LS | 1 | \$ | 20,000.00 | \$ | 20,000.00 | 1.00 | \$ 20,000.00 | 100% | | \$ - |
| | Overflow Parking Lot Sub Total | | | | | ŝ | 68,200.00 | | \$ 65,400.00 | 96% | | \$ 12,600.00 |

| | Parking Lot/ Access Drives | Ünit | Quantity | i | Init cost | Total | | | | | |
|----|---------------------------------|------|----------|----|-----------|--------------------|-----------|--------------------|-----|--------|---------|
| 9 | B Concrete parking lot | SY | 44,356 | \$ | 44.00 | \$ 1,951,664.00 | 42,662.00 | \$ 1,877,128.00 | 96% | | \$ - |
| 9 | 9 CG-1 curb and gutter | LF | 15,338 | \$ | 18.00 | \$ 276,084.00 | 14,549.00 | \$ 261,882.00 | 95% | | \$ - |
| 10 | 0 Concrete parking and Bus lane | SY | 7,337 | \$ | 50.00 | \$ 366,850.00 | 6,645.00 | \$ 332,250.00 | 91% | 2 2 | \$ - |

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FOR PERIOD: July 2014

DATE: July 31, 2014 ESTIMATE No.: 12

PROJECT LOCATION: Rock Chalk Site Work

MEASURED ESTIMATE ON ITEMS ITEM COMPLETE

| | | | | | CONT | RA | CTED | COMPLET | ED TO DATE | Percent | COMPLETED | THIS F | AY PERIOD |
|------|---|------|----------|----|------------|----|--------------|-----------|------------------------|----------|-----------|--------|-----------|
| ITEM | DESCRIPTION | UNIT | QUANTITY | UN | IT PRICE | | AMOUNT | UNIT | AMOUNT | Complete | UNIT | 4 | MOUNT |
| 101 | Fire lane / Access roads | SY | 8,593 | \$ | 44.00 | \$ | 378,092.00 | 3,445.00 | \$ 151,5 80. 00 | 40% | | \$ | |
| 102 | Storm Sewer | LS | 1 | \$ | 157,000.00 | \$ | 157,000.00 | 0.65 | \$ 104,232.30 | 66% | 0.04 | \$ | 6,892.30 |
| 103 | Trim Subgrade | SY | 65,393 | \$ | 1.25 | \$ | 81,741.25 | 63,760.00 | \$ 79,700.00 | 98% | | \$ | - |
| 104 | Treatment of subgrade - 12"Fly ash & 4" AB3 | SY | 65,425 | \$ | 9.33 | \$ | 610,415.25 | 49,645,00 | \$ 463,187.85 | 76% | | \$ | - |
| | Parking Lot/ Access Drives Sub Total | | | | | 5 | 3,821,846.50 | | \$3,269,960.15 | 86% | | \$ | 6,892,30 |

| | Rock Chalk Lane and Rock Chalk Parkway | Unit | Quantity | Unitcost | | Total | | | | | |
|-----|---|------|-------------------|----------------|----|------------|----------|------------------------------------|------|--------|-----------------|
| 105 | Unclassified excavation | Сү | 3,017 | \$ 5.00 | \$ | 15,085.00 | 3,017.00 | \$ 15,085.00 | 100% | | \$ - |
| 106 | Compacted fill | СҮ | 2,920 | \$ 1.00 | \$ | 2,920.00 | 2,920.00 | \$ 2,920.00 | 100% | | \$ - |
| 107 | Site restoration | LS | 1 | \$ 5,000.00 | \$ | 5,000.00 | 1.00 | \$ 5,000.00 | 100% | 1.00 | \$ 5,000.00 |
| 108 | 8" NRDJ Portland cement | SY | 9 ,524 | \$ 50.00 | \$ | 476,200.00 | 8,556.00 | \$ 427,800.00 | 90% | | \$ |
| 109 | CG-1 curb and gutter | LF | 5,109 | \$ 16.00 | \$ | 81.744.00 | 4,646.00 | \$ 74,336.00 | 91% | | \$ - |
| 110 | 6" x 10' Fiber rec path | SY | 5,163 | \$ 40.00 | \$ | 206,520.00 | 4,682.00 | \$ 1 87 ,2 80 .00 | 91% | 818.00 | \$ 32,720.00 |
| 111 | 4" x 5' Sidewalk | SY | 195 | \$ 30.00 | \$ | 5,850.00 | 88.00 | \$ 2,640.00 | 45% | 41.00 | \$ 1,230.00 |
| 112 | Access ramps | EACH | 51 | \$ 1,000.00 | \$ | 51,000.00 | 49.00 | \$ 49,000.00 | 96% | 1.00 | \$ 1,000.00 |
| 113 | Treatment of subgrade - 12" fly ash & 4"AB3 | SY | 10,800 | \$ 9.33 | \$ | 100,764.00 | 9,192.00 | \$ 85,761.36 | 85% | | \$ - |
| | | | | | s | 945,083.00 | | \$ 849,822.36 | 90% | | \$ 39,950.00 |

| | Chip and Seal County Road | Unit | Quantity | Unit | cost | Total - | | | | | |
|-----|-------------------------------------|------|----------|------|---------|-----------|----------|--------------|-----|-------------|-----------|
| 114 | Chip and Seal | SY | 10,000 | \$ | 1.80 \$ | 18,000.00 | 9,000.00 | \$ 16,200.00 | 90% | 9,000.00 \$ | 16,200.00 |
| | Chip and Seal County Road Sub Total | | | | \$ | 18,000.00 | | \$ 16,200.00 | 90% | S | 16,200.00 |

| | Rec Center Pad | Unit | Quantity | Unit | cost | Total | | | | | |
|-----|--------------------------------|------|----------|------|-------|------------------|-----------|------------------|------|----|---|
| 115 | Rock Excavation | СҮ | 18,000 | \$ | 10.00 | \$ 180,000.00 | 18,000.00 | \$ 180,000.00 | 100% | \$ | - |
| 116 | Dirt Excavation | СҮ | 10,000 | \$ | 2.25 | \$ 22,500.00 | 10,000.00 | \$ 22,500.00 | 100% | \$ | |
| 117 | Compaction | СҮ | 8,5DO | \$ | 1.10 | \$ 9,350.00 | 8,500.00 | \$ 9,350.00 | 100% | \$ | |
| 118 | Fly Ash 18" | SY | 12,000 | \$ | 8.00 | \$ 96,000.00 | 12,000.00 | \$ 96,000.00 | 100% | \$ | - |
| 119 | AB3 Entire building Pad | SY | 20,100 | \$ | 4.00 | \$ 80,400.00 | 20,100.00 | \$ 80,400.00 | 100% | \$ | - |
| 120 | AB3 Additional depth rock area | SY | 8,000 | \$ | 5.50 | \$ 44,000.00 | 8,000.00 | \$ 44,000.00 | 100% | \$ | |
| | | | | | | \$ 432,250.00 | | \$ 432,250.00 | 100% | \$ | |

GRAND TOTAL \$ 12,265,168.65 \$ 9,394,550.25 77% \$ 1,050,846.30

p, S, ~

FOR PERIOD: July 2014

DATE: July 31, 2014 ESTIMATE No.: 12

PROJECT LOCATION: Rock Chalk Site Work

MEASURED ESTIMATE ON ITEMS ITEM COMPLETE

| | | | | [| CONT | RRA | CTED | COMPL | ET | ED TO DATE | Percent | COMPLETED | THIS PAY PERIOD |
|-----|--|-------|----|--------------|------------------|------------|---------------|-------|----|------------|----------|-----------|-----------------|
| TEM | DESCRIPTION | UNIT | C | QUANTITY | UNIT PRICE | | AMOUNT | UNIT | | AMOUNT | Complete | UNIT | AMOUNT |
| | General | Total | \$ | 523,210.00 | 24% | \$ | 2,194,851.00 | | | | | | |
| | Site Grading | Total | \$ | 840,500.00 | 99% | \$ | 850,500.00 | | | | | | |
| | Retention Ponds | Total | \$ | 156,250.00 | 100% | \$ | 156,250.00 | | | | | | |
| | Eight Lighted Tennis Courts | Total | \$ | 964,000.00 | 7 9 % | \$ | 1,214,520.00 | | | | | | |
| | Waterline | Total | \$ | 462,522.49 | 99% | \$ | 468,061.65 | | | | | | |
| - | Sanitary Sewer | Total | \$ | 174,191.50 | 107% | \$ | 162,842.50 | | | | | | |
| | Storm Sewer | Total | \$ | 82,688.75 | 100% | \$ | 82,688.75 | | | | | | |
| | Parking Lot Lights | Total | \$ | 210,000.00 | 88% | \$ | 240,000.00 | | | | | | |
| | Landscaping | Total | \$ | 459,750.00 | 79% | \$ | 583,850.00 | | | | | | |
| | Rock Chalk Drive and George Williams Way | Total | \$ | 887,805.00 | 87% | \$ | 1,026,225.25 | | | | | | |
| | Overflow Parking Lot | Total | \$ | 65,400.00 | 96% | \$ | 68,200.00 | | | | | | |
| | Parking Lot/ Access Drives | Total | \$ | 3,269,960.15 | 86% | \$ | 3,821,846.50 | | | | | | |
| | Rock Chalk Lane and Rock Chalk Parkway | Total | \$ | 849,822.36 | 90% | \$ | 945,083.00 | | | | | | |
| | Chip and Seal County Road | Total | \$ | 16,200.00 | 90% | \$ | 18,000.00 | | | | | | |
| | Rec Center Pad | Total | \$ | 432,250.00 | 100% | \$ | 432,250.00 | | | | | | |
| - | Grand | Total | \$ | 9,394,550.25 | 77% | \$ | 12,265,168.65 | | | | | | |

| | CHANGE ORDERS: | CONTRACTED | | | COMPL | ETED TO | DATE | Percent | COMPLETE | D THIS PA | Y PERIOD | | |
|------|---|------------|--------------|------------|-------|--------------|-------|---------|-----------|-----------|----------|------|-------------|
| ITEM | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE | A | MOUNT | UNIT | AM | OUNT | Complete | UNIT | IA I | MOUNT |
| 1 | 4" Conduit | LF | 10000 | | \$ | - | 7737 | \$ | - | | | \$ | - |
| 2 | 3" Conduit for Security Cameras | LF | 600 | | \$ | | 600 | \$ | - | | | \$ | |
| 3 | Treatment of subgrade 9" flyash RCD & GWW | SY | 11825 | | \$ | - | 11434 | \$ | | 97% | | \$ | - |
| 4 | 12" HDPE Storm Pipe | LF | 42 | | \$ | - | 42 | \$ | - | 100% | | \$ | |
| 5 | 12" CMP End Section | EA | 1 | | \$ | - | 1 | \$ | - | 100% | | \$ | - |
| 6 | Subgrade 12" Crushed Conc. Parking Lot | SY | | | \$ | - | 5998 | \$ | | | | \$ | - |
| | C | HANGE | ORDER TOTAL: | | \$ | - | | \$ | - | | | \$ | - |
| | | | | | | | | | | | | | |
| | | | GRAND TOTAL | | \$ 12 | 2,265,168.65 | | \$ 9,3 | 94,550.25 | | | \$ 1 | ,050,846.30 |



FOR PERIOD: July 2014

DATE: July 31, 2014 ESTIMATE No.: 12

PROJECT LOCATION: Rock Chalk Site Work

MEASURED ESTIMATE ON ITEMS

ITEM COMPLETE

| | | CONT | RACTED | COMPLET | TED TO DATE | Percent | Percent COMPLETED THIS PAY PERIOD | | | |
|------|-------------|------|----------|------------|-------------|---------|-----------------------------------|----------|------|--------|
| ITEM | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE | | UNIT | AMOUNT | Complete | UNIT | AMOUNT |

AMOUNT OF CURRENT CONTRACT: \$ 12,265,168.65

AMOUNT OF ORIGINAL CONTRACT: \$ 12,265,168.65

TOTAL WORK COMPLETED TO DATE: \$ 9,394,550.25

TOTAL PREVIOUS PAYMENTS: \$

.

AMOUNT COMPLETED THIS PAY PERIOD: \$ 1,050,846.30

2/2/11/15

Rock Chalk Park

Punch List for Substantial Completion of Public Infrastructure in South Lot and surrounding areas*.

On the 25th of July, 2014 the City of Lawrence walked the area with representation from Bliss and KU Endowment. The following items were discussed as items necessary of attention prior to acceptance. Predominantly, items concerned infrastructure items. Items relevant to Planning Department, such as landscaping and lighting, were not all included in this list.

AREA

The areas included in this punch list are:

- County Road 902
- Rock Chalk Drive
- George Williams Way
- Rock Chalk Parkway
- Rock Chalk Lane (south of Rock Chalk Parkway)
- South Lot
- Soccer Lot
- Overflow Lot

PUNCH LIST

As a whole, the area needs to be cleaned of construction trash and dirt. Behind the curb, areas need to be carefully checked for nails and bits of wire.

- All paved areas need to be revisited for scraping of excess joint sealant and refill as necessary.
- All curb joints need to be sealed up and over the curb with appropriate sealant.

The rest of the items are divided by area.

County Road 902

No work necessary.

Rock Chalk Drive

- Clean up pile of chips (from chip and seal) on RCD.
- Clean up dirt ramp jumping curb near west end of RCD (or establish appropriate temporary traffic control).
- Repair chip in pavement by inlet near intersection of RCP + RCD by replacing ½ panel.
- Clean out storm inlets as needed.
- Backfill holes (and low spots) adjacent to sidewalk and storm sewer inlets.

2/12/5 51,50

- Repair broken curb on south side of RCD near the county road.
- Clean up concrete slobbers in driving lane.

George Williams Way

- Replace ½ panel in SBL of GWW at North end at small, patched section.
- Replace ½ panel in SBL of GWW at South end where cracked due to construction entrance.
- Fix left arrow sign currently missing a sign post.
- Replace at least ½ panels of sidewalk east of GWW where holes and poor finishing quality left deflections of ¼ inch or more. Estimated a dozen effected panels.
- Clean and top off core holes in driving lane.

Rock Chalk Parkway

- Backfill holes (and low spots) adjacent to sidewalk and storm sewer inlets.
- Seal curb crack at SE intersection of RCP and RCL.
- Replace curb at SE intersection of RCP and RCL (two cracks).
- Replace curb at NE intersection of RCP and RCL.
- Replace curb at South entry to North Lot on both east and west sides.

Rock Chalk Lane

- Replace broken sidewalk panel on the west side adjacent to the soccer field.
- Repair curb crack on east side between the overflow access drives.
- Recommended: install bollard on 20' wide sidewalk to keep cars off.

South Lot

- Grind and fill chipped areas with approved sealant.
- Route and seal missed cracks.
- Investigate and report cause of water seeping up through the joints (and sealant).
- Replace panel with crack and large chips in the northeast access drive.
- Clean area inlet and surrounding area north of the lot.
- Re-grade the ditch south of the lot for drainage.
- Clean sediment from rip rap in ditch east of lot.

Soccer Lot

- Repair curb chip adjacent to storm sewer inlet.
- This lot has noticeable removal of joint and crack sealant due to overfilling.

Overflow Lot

- Complete final grading.
- Complete site entry sign.
- Backfill access drives off Rock Chalk Lane.
- Seal joints on access drives off Rock Chalk Lane.
- Optional: install bollard on sidewalk ramp to Rock Chalk Lane to deter motorized use.

2/26/15

Rock Chalk Park

Punch List for Substantial Completion of Public Infrastructure in North and West Lots south of Rock Chalk Lane and surrounding areas*.

August 6th, 2014 the City of Lawrence walked the area with representation from Bliss and KU Endowment. The following items were discussed as items necessary of attention prior to acceptance. Predominantly, items concerned infrastructure items. Items relevant to Planning Department, such as landscaping and lighting, were not all included in this list. Items related to Parks and Rec, including the tennis court and natural trails, were also not included.

AREA

The areas included in this punch list are:

- Rock Chalk Parkway
- Rock Chalk Lane
- West Lot
- North Lot (only as far north as RCL)
- East Pond

PUNCH LIST

As a whole, the area needs to be cleaned of construction trash and dirt. Behind the curb, areas need to be carefully checked for nails and bits of wire.

- All paved areas need to be revisited for scraping of excess joint sealant and refill as necessary.
- All curb joints need to be sealed up and over the curb with appropriate sealant.

The rest of the items are divided by area.

Rock Chalk Lane

- Clean out storm inlets as needed.
- Backfill holes (and low spots) adjacent to sidewalk and storm sewer inlets.
- Replace cracked panels.

Rock Chalk Parkway

- Clean out storm inlets as needed.
- Backfill holes (and low spots) adjacent to sidewalk and storm sewer inlets.
- Clean up dirt curb ramp at GWW.

North Lot

• Route and seal missed cracks that are relatively straight through a panel.

- Replace half panels with cracks creating small or triangular shapes.
- Clean out storm inlets as needed.
- Landscape northeast corner, south of the tennis courts.

West Lot

- Repair broken curb.
- Seal missed cracks.

East Pond

- Dredge silt and re-grade to original volume.
- Clean rip rap of silt from each end pipe draining into the area.
- Remove 100ft of limestone aggregate sidewalk at West end of dam.
- Seed and mulch backfill on sides of sidewalk over dam.
- Remove rock and debris pile from east of the pond.

22/26/15 C3,15

Scope: Determine Project Accounting based on backup provided by the city.

Work Performed: We acquired accounting records from the city and compared against contract terms and conditions.

| ~ | |
|---|--|
| \$ 22,500,000.00 | |
| \$ (941,408.23) <u>Arch</u> | |
| \$ (10,550,630.13) Land DI. 4 | |
| \$ (784,333.00) Rec D/ 3 | |
| \$ 10,223,628.64 | |
| \$ 1,000,000.00 | |
| \$ 11,223,628.64 | |
| \$ 161,654.00 | |
| \$ 11,385,282.64 | |
| | |
| \$ 11,598,439.03 MEMO NOVEMBER 19, 2014 | |
| \$ 213,156.39 | |
| \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | \$ (941,408.23) Arch \$ (10,550,630.13) End D1.4 \$ (784,333.00) Rec \$ 10,223,628.64 CANO \$ 11,223,628.64 \$ 1,000,000.00 \$ 11,223,628.64 \$ 161,654.00 \$ 11,385,282.64 \$ 11,598,439.03 MEMO NOVEMBER 19, 2014 |

Conclusion: The following was transferred to the Development Agreement Analysis

2.11C

Gould Brans

| | | | | 3 | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|---|--|---|--|---|---|--|--|----------------|--|--|
| Invoice 8 159005 1571054 157054 157054 157054 150055 15005 | Invelse Date 05/00/2014 07/08/2014 04/07/2014 04/07/2014 04/07/2014 04/07/2014 04/07/2014 11/07/2019 04/08/2014 04/08/2014 04/08/2014 04/08/2014 04/08/2014 05/01/2014 04/08/2014 05/01/2014 05/0 | Data Data 08/07/2014 08/07/2014 08/07/2014 08/07/2014 09/07/2014 12/17/2014 11/07/2014 11/07/2014 11/07/2014 07/22/2014 07/2014 07/2014 07/2014 07/2014 07/2014 07/2014 07/2014 07/2 | Effective Date 071/02/014 071/02/014 071/02/014 072/02/014 072/02/014 022/12/014 022/12/014 022/12/014 022/12/014 022/02/014 02/02/01 | Vendor Involced 11200222 11200221 1200221 11200216 11200216 11200216 11200216 11200216 11200216 11200200 11200200 11200200 11200200 11200200 11200200 | Description desin, construction documents desin, nonstruction documents desin, construction documents desin, constructio | 4 and construction adm and construction adm (LAL/DESIGN) | Inhibitation for City Re inhibitation for City Re | screation Center loc Increation Center loc | and a nock Chain Pa effect at Rock Chain Pa | It init induced second the notice model second the notice encoded second | Disc. Authoritad by CC 2006. Authoritad by CC | 2/10/13, Bond Resolutio 2/10/13, Bond Resolutio | n #7008 n #7005 n #7005 n #7008 n #7008 n #7008 n #7008 n #7008 n #7008 n #7008 n #7008 n #7008 n #7008 | Tetal Amount 0.577.00 3.500.00 0.677.00 0.677.00 0.677.00 0.677.00 0.677.00 0.677.00 0.677.00 0.677.00 0.667.00 0.667.00 0.566.07 0.566.07 0.566.07 0.556.00 0. | Override Net Amoun Gales Gales Cales | Port REELECTIE | 401,001,001,00 401,001,00 401,001,00 401,001,00 308,040,00 308,000 30 | 28/09/2014 29/09/2014 29/09/2014 29/09/2014 29/09/2014 20/07/2013 11/20/2013 11/20/2013 10/01/2013 10/01/2013 09/27/2013 09/22/2013 04/22/2013 04/22/2013 |

3/2/1/10

City of Lawrence

Voucher Payable

Invoice # Vendor Invoice # Department Buyer

Purchase Order #

Description

للمحصور في أكر. المحصور في أكر

> 118529 LE070213DC CIP CMO Invoices Landis, Alan

Effective Date Due Date Invoice Date Vendor 07/02/2013 07/02/2013 07/02/2013 243 Kansas Secured Title & Abstract Co Inc 1410 Kasold Drive Ste A-18 Lawrence,KS 66049-2349

Land Acquisition Rock Chalk Park

| | Subtotal 🥁 | Unit Price | Line Description | Vendor/Item | Unit | Quantity | ine. |
|----|----------------|--------------|--|-------------|------|----------|------|
| 1 | \$784,333.00 | \$784,333.00 | sition Rock Chalk Park, Lot 2 Rock Chalk on No. 1 | | EA | 1.00 | T |
| | | | -6060 | | | | |
| | | | R1005 | | | | |
| | | | | | | | |
| 1 | | | *: | F | 1 | | |
| "E | | | | c | | | |
| 1 | : \$ 784,333.0 | TOTAL: | | | | | |
| | | | | | | | |

| Involce 2 | | | Effective Date | Vendor Involces | Line # | Description | Total Amount | | Invoice Status Paid | Check # 404.072.00 | Check Date |
|--------------|----------------------------------|-------------------------------|---|-----------------|----------|---|--|------------|---------------------------------|--------------------------------|--|
| 167274 | 09/24/2014 | 10/28/2014 | 10/24/2014 | PR102214MH-6 | 1.00 | Tennis Facility at Rock Chaik Park - add electrical outlets for ball machines | 1,650.00 | false | | 404.072.00 | |
| 167274 | 09/24/2014 | 10/28/2014 | 10/24/2014 | PR102214MH-6 | 2.00 | Tennis Facility at Rock Chaik Park - add picklaball stripting on tow of the courts | 1.000.00 | false | Paid | | |
| 167274 | 09/24/2014 | 10/28/2014 | 10/24/2014 | PR102214MH-6 | 3.00 | Tennis Facility at Rock Chaik Park - add water line for future drinking fountain | 3,500.00 | false | Paid | 404,072.00 | 10/28/2014 |
| | | | | THINK POL | 3.00 | Sports Pavilion Lawrence - Change Order to provide Wall Patch to fill connector plate volds at the base of tilt-up wall | | | | | |
| 167141 | 09/24/2014 | 10/28/2014 | 10/23/2014 | PR102214MH-5 | 4 66 | sports Pavilion Lawrence - Change Order to provide wall Paten to fill connector plate volta at the base of the ap men | 4,620.00 | false | Paid | 404,072.00 | 10/28/2014 |
| 10/141 | 0012-12014 | 1012014 | 10/20/2014 | FR102214MIT-5 | 1.00 | panels. (proposed change order sheet #10 dated July 29th) | | | | | |
| 167141 | 09/24/2014 | 10/28/2014 | 100000044 | | - | Sports Pavilion Lawrence - Change Order to provide painting of fire lines on the lower level. (Proposed change order | 4,207,50 | faise | Paid | 404,072.00 | 10/28/2014 |
| 10/141 | 08/24/2014 | 10/20/2014 | 10/23/2014 | PR102214MH-5 | 2.00 | sheet #11 dated July 29th) | 4,201.00 | | | | |
| | | | | | | Dehumidifying the Sports Pavilion Lawrence prior to installation of wood flooring, as specified and approved by City | | | | | |
| | | | 100000000000000000000000000000000000000 | | 03/0724 | Commission 7-1-14. | 12,350.00 | false | Paid | 404,072.00 | 10/28/2014 |
| 167139 | 09/24/2014 | 10/28/2014 | 10/23/2014 | PR102214MH-4 | 1.00 | Not to Exceed \$12,350.00 | 12,380.00 | 12105 | | | |
| | | | | | | Sports Pavilion - Electrical additions per City Request (change order sheet #12) | | | | | |
| | | | | | | 3 TV outlet on upper level \$1600 | | | | | |
| | | | | | | Relocate test switch in concessions \$150 | | | | | |
| | | | | | | Add power to divider wall \$550 | | | | | |
| | | | | | | | | | | | |
| | | | | | | Add 4ptex plugs on concourse poles \$500 | | | | | |
| | | | | | | Add 8 outlets per side on courts 1 and 2 \$9750 | | | | | |
| | | | 1000000011 | | | Add 1 TV outlet in each party room \$525 | 14,492.50 | faise | Pald | 404.072.00 | 10/28/2014 |
| 167137 | 09/24/2014 | 10/28/2014 | 10/23/2014 | PR102214MH-3 | 1.00 | Margin and overhead \$1317.50 | 14,492.50 | terse | | | |
| | | | | | | Changes to the Interior of the Sports Pavilion Lawrence (Item #1 - 7,000 sq ft Multi-purpose area) as specified and | | faise | Paid | 404.072.00 | 10/28/2014 |
| 167135 | 09/24/2014 | 10/28/2014 | 10/23/2014 | PR102214MH-2 | 1.00 | approved by City Commission 7-1-14 | 26,847.70 | taise | Fals | | |
| | | | | | | Change order #1 at Sports Pavilion Lawrence, Approved by City Commission 5-20-14 | | | | | |
| | | | | | 1000000 | | 22.044.00 | faise | Paid | 404.072.00 | 0 10/28/2014 |
| 167133 | 09/24/2014 | 10/28/2014 | 10/23/2014 | PR102214MH-1 | 1.00 | Add Concure Concrete mixture to track | 3,902.80 | false | Pald | | 0 10/28/2014 |
| 167133 | 09/24/2014 | 10/28/2014 | 10/23/2014 | PR102214MH-1 | 2.00 | Add electrical items as specified | | false | Paid | | 0 10/28/2014 |
| 167133 | 09/24/2014 | 10/28/2014 | 10/23/2014 | PR102214MH-1 | 3.00 | Add a mop sink in Storage (105 | 6,015.63 | taise | r one | | |
| 100000000000 | | - 1742 (1942 1942 1949 1 | | | 1002227 | Construction of Lawrence Recreation Center at Rock Chalk Park, Authorized by the City Commission on 5/21/2013. | | faise | Paid | 404 072 0 | 0 10/28/2014 |
| 166729 | 09/30/2014 | 10/28/2014 | 10/17/2014 | PR1227-11 | 1.00 | Total cost not to exceed \$10,500,000. | 971,233.81 | 18150 | Faid | 404,012.0 | o lonzonzo (4 |
| | | | | | | Construction of Lawrence Recreation Center at Rock Chaik Park. Authorized by the City Commission on 5/21/2013. | 100 00000 | 1000 | Paid | 100 101 0 | - |
| 163685 | 08/31/2014 | 10/07/2014 | 10/01/2014 | PR1227-10 | 1.00 | Total cost not to exceed \$10,500,000. Pay app #10 | 158,435.49 | false | Palo | 403,424.0 | 0 10/07/2014 |
| | | | | | | Construction of Lawrence Recreation Center at Rock Chark Park. Authorized by the City Commission on 5/21/2013. | cas sition actions where t | 1 Defenses | | | |
| 160390 | 08/11/2014 | 09/02/2014 | 08/28/2014 | PR1227-9 | 1.00 | Total cost not to exceed \$10,500,000. | 599,396.40 | false | Pald | 402,506.0 | 0 09/02/2014 |
| | | | | | | Construction of Lawrence Recreation Center at Rock Chaik Fark. Authorized by the City Commission on 5/21/2013. | | | | | |
| 155627 | 06/30/2014 | 07/08/2014 | 07/03/2014 | PR1227-8 | 1.00 | Total cost not to exceed \$10,500,000. | 686,250.00 | false | Paid | 401,011.0 | 0 07/08/2014 |
| | | | | | | Construction of Lawrence Recreation Center at Rock Chaik Fark. Authorized by the City Commission on 5/21/2013. | | | | | |
| 153917 | 05/29/2014 | 06/24/2014 | 06/12/2014 | PR1227-07 | 1.00 | Total cost not to exceed \$10,500,000, per app no. 7 | 1.027.209.60 | false | Paid | 400,696.0 | 00 06/24/2014 |
| 100017 | 0012012014 | | | | 1000 | Construction of Lawrence Recreation Center at Rock Crisik Park, Authorized by the City Commission on 5/21/2013, | 2010. The State of | | | 24 | |
| 147722 | 03/31/2014 | 05/06/2014 | 04/28/2014 | PR1227-06 | 1.00 | Total cost not to exceed \$10,560 ORE Feb application #6 | 1,146,254,40 | false | Paid | 399 365 0 | 00 05/08/2014 |
| 14//22 | 03/31/2014 | 05/00/2014 | 04/20/2014 | -INIZE/-OU | 1.00 | Construction of Lawrence Recreation Center at Rock Chain Parts, Authorized by the City Commission on 5/21/2013. | | | | | |
| | 02/28/2014 | 03/25/2014 | 03/24/2014 | PR1227-05 | 1.00 | Total cost not to exceed \$10.500 Host application No. 5 | 1,107,934.20 | faise | Pald | 398 309 (| 00 03/25/2014 |
| 144324 | 02/28/2014 | 03/25/2014 | 03/24/2014 | PR1221-00 | 1.00 | Construction of Lawrence Recreation Center as Rock Chara Plat. Actinotized by the City Commission on 5/21/2013. | | turio e | | 000,000. | of ourore is |
| 10.00 | | | | | 1.00 | Total cast not to exceed \$10.500.500 FeV Application No. 4 | 1,643,622,30 | false | Pald | 207 464 | 00 02/04/2014 |
| 139892 | 12/31/2013 | 02/04/2014 | 02/03/2014 | PR1227-04 | 1.00 | Construction of Lawrence Recreation Center at Rock Chalk Park. Authorized by the City Commission on 5/21/2013. | 1,043,022,30 | Taise | Paid | 397,161. | 00 02/04/2014 |
| | | | 1000 000 000 000 000 000 000 000 000 00 | | | Total cost not to exceed \$10,500,000. Pay application #3 | 1,126,800.00 | | | | |
| 133664 | 10/31/2013 | 11/26/2013 | 11/25/2013 | PR1227-03 | 1.00 | Construction of Lawrence Recreation Center al Rock Chalk Park. Authorized by the City Commission on 5/21/2013. | 1,120,000.00 | faise | Paid | 395,560. | 00 11/26/2013 |
| | a real designation of the second | | | | | Total cost not to exceed \$10,500,000, Fay application #3 | 10,500,000,00 | | a sum of the state of the state | | and the second |
| 133658 | 10/31/2013 | 11/26/2013 | 11/25/2013 | PR1227-03 | 1.00 | Construction of Lawrence Recreation Center at Rock Chalk Park. Authorized by the City Commission on 5/21/2013. | 10,500,000,00 | faise | Cancelled | Marson Maria | and the Contains |
| | | | | | 11012 | | | 12100 | | | |
| 130460 | 09/30/2013 | 10/22/2013 | 10/21/2013 | PR1227-02 | 1.00 | Total cost not to exceed \$10,500,000. Pay app #2 | 1,530,474.30 | faise | Paid | 394,787. | 00 10/22/2013 |
| | | | | | | Construction of Lawrence Recreation Center at Rock Chalk Park. Authorized by the City Commission on 5/21/2013. | | | | | |
| 127578 | 08/31/2013 | 10/01/2013 | 09/27/2013 | PR1227-01 | 1.00 | Total cost not to exceed \$10,500,000. Pay app no. 1 | 452.389.50 | false | Paid | 393,819. | .00 10/01/2013 |
| | a fore and a state of | and the second frames and the | Aut | RM041113CW- | ALC: NO. | | \sim | | outon traffic and and | and a part of the state of the | and the second |
| | | | | | | Auto Liability Settlement A13PR08 2/21/2013 snow plow hit vehicle while it was parked in city lot #4. | 5418 68 | | | | |
| 110320 | 04/11/2013 | 04/16/2013 | 04/11/2013 | SETT | 1.00 | Auto Lability Settlement A ISP (00 22 120 10 show prow int terricity while it was parked in city lot w4. | 21,056,048,8 | false | Pald | 388,634 | .00. 04/16/201: |

5

10,550,650 Reas D.

Scope: Review the unit costs estimated on the project against a 3rd party standards. Ensure that costs charged were in line with established norms.

Work Performed: After discussing with management, we determined that the best measure of project costs would be looking at historical costs for local projects. This means that you are comparing costs of local sources against local sources (there are only a limited number of suppliers). The following analysis captures several data points

The following is the key to columns and color coding:

| Data Points: | This column shows the number of estimates or costs captured to establish a basis for comparison |
|--------------------------|---|
| the second contained the | No Data points were available for this analysisin some cases, a percentage was used to estimate a fair price. |
| | The City of Lawrence short paid this from the original estimated (Exhibit I) costs. |
| | These are recalculated costseither by percentage estimate or unit cost analysis. |
| | These costs were not paid (as of the audit) by the City of Lawrence. |
| | The city overpaid (or paid more) than the estimated amounts. |
| | There was not a direct comparative analysis, but information existed that allowed us to produce a close estimate. |

OBSERVATIONS:

| and the second se | OBSERVATION | | | | - | | | 1 | | | |
|---|--|---|---|---|--|--|--|--|---|--------------------|----------------|
| | DATA DOINTS | DESCRIPTION | UNIT | Unit | Quantity | UNIT PRICE FROM | CONTRACT UNIT COST | CONTRACT TOTAL | 100 million (1997) | Recalculated COSTS | VARIANCE |
| | | MOBILIZATION 4.99881026435572% of TOTAL | CALC | LS | 1 | A14ALI 313 | \$ 400,000.00 | 1 | S | 576,968.73 | \$ 176,968.73 |
| General | | Construction Staking | CALC | LS | 1 | | \$ 225,000.00 | | S | 161,700.00 | \$ 110,000.75 |
| General | - | Seeding, Mulching & Fertilizing | | AC | 20 | Contra and a state of the | \$ 1,500.00 | | S | 30.000.00 | • |
| General | | | | LS | 1 | | \$ 55.000.00 | | s | 39,750.00 | ć . |
| General | | Utilities Connection fees and expenses | LS | LS | 1 | \$ 4,447.64 | \$ 5,000.00 | | s | 4,447.64 | \$ (552.36) |
| General | | EROSION CONTROL .51% of Contract Value | CALC | LS | 1 | 3 4,447.04 | s 40.000.00 | | S | 40.000.00 | \$ (552.50) |
| General | | | CALC | | 1 | - | \$ 167,836.00 | | | 167.836.00 | s . |
| General | | Legal Fees per Development Agreement | | LS | 1 | | S 150,000.00 | and the second sec | | 150,000.00 | \$. |
| General | the state of the s | Loan origination fees for project financing | | LS | 1 | | \$ 309,515,00 | | | 309,515.00 | \$. |
| General | | Loan interest for project financing | | and the second se | and the second | | \$ 283,758.00 | | S | 283,758.00 | |
| General | | Construction Management fee 2.5% on \$11,350,317.65 | - | LS | 1 | | \$ 283,758.00 | \$ 283,758.00 | 12 | 203,758.00 | |
| General | This is set by policy at 6.99% | Professional Engineering Fees | | LS | 4 | | \$ 525,000.00 | \$ 525,000.00 | 100 | 772,748.00 | \$ 247,748.00 |
| Site Grading | 14 | 1 Site Strip | CY | CY | 32,000 | \$ 1.50 | \$ 2.25 | \$ 72,000.00 | \$ | 48,000.00 | \$ (24,000.00) |
| Site Grading | | 7 Site Excavation | CY | CY | 180,000 | \$ 3.39 | \$ 2.25 | \$ 405,000.00 | 5 | 610,200.00 | \$ 205,200.00 |
| Site Grading | 0 | Compaction | | CY | 160,000 | | \$ 1.10 | \$ 176,000.00 | \$ | 176,000.00 | |
| Site Grading | | Topsoil Replacement/fine grade | | CY | 10,000 | | s 10.00 | \$ 100,000.00 | \$ | 100,000.00 | |
| Site Grading | Part of the state | Rock Excavation | S A CARA | CY | 9,750 | Call Treat Street A | s 10.00 | \$ 97,500.00 | \$ | 97,500.00 | |
| Retention Ponds | | Rock Excavation | 1022.000 | CY | 10,000 | No. | s 10.00 | \$ 100,000.00 | \$ | 100,000.00 | |
| Retention Ponds | A Contraction of the second | Dirt Excavation | ARE AN OWNERS | CY | 5.000 | | \$ 2.25 | \$ 11,250.00 | \$ | 11,250.00 | |
| Retention Ponds | | Faircloth Skimmers | En la com | LS | 3 | in the second second | s 10.000.00 | \$ 30,000.00 | S | 30,000.00 | |
| Retention Ponds | 21 | STORM STRUCTURE (DEPENDS ON SIZE) | EACH | LS | 3 | \$ 3,798.00 | s 5,000.00 | \$ 15,000.00 | \$ | 11,394.00 | \$ (3,606.00) |
| Natural Trails and Eight Lighted Tennis Courts | - | Tennis Courts | | LS | 1 | | \$ 640,000.00 | | s | 640,000.00 | |
| Natural Trails and Eight Lighted Tennis Courts | | Retaining Walls at Tennis Courts | a la contra c | LS | 1 | | s 170.000.00 | 그 같은 - 이가이었네?????? | s | 170,000.00 | |
| Natural Trails and Eight Lighted Tennis Courts | | Natural trail 10' Approx, 5 - miles | | SY | 33,710 | | \$ 12.00 | | s | 404,520.00 | |
| Waterline | | CONNECT TO EXISTING WATERLINE | EACH | 1 1 | 1 | \$ 1,391.00 | | | S | 1,391.00 | \$ 641.00 |
| Waterline | | 5 12" DR14 C900 Waterline | IF | LF | 7,642 | \$ 43.46 | \$ 36.87 | | S | 332,121.32 | \$ 49,918.34 |
| | | 7 8" PVC C900 DR14 Waterline | 1 F | LF | 472 | \$ 31.54 | \$ 29.00 | and a second second second second | S | 14,886.88 | \$ 792.88 |
| Waterline | | 7 3" MJ GATEVALVE | EACH | EACH | 2 | \$ 349.00 | | | s | 698.00 | |
| Waterline Waterline | | 7 6" MJ GATEVALVE | EACH | EACH | 2 | \$ 1,123.00 | | | S | 2.246.00 | |
| | | 7 8" MJ GATEVALVE | EACH | EACH | 2 | \$ 1,533.00 | | | 5 | 3,066.00 | |
| Waterline | | 7 12" MJ GATE VALVE | EACH | EACH | 33 | \$ 2,347.00 | | | S | 77,451.00 | |
| Waterline | | B Fire Hydrant Assembly | EACH | EACH | 17 | \$ 4,146.70 | | | - | 70,493.90 | |
| Waterline | | 7 Fire Hydrant Assembly | EACH | EACH | 2 | \$ 4,146.70 | | and the second se | 5 | 8,293,40 | |
| Waterline | | 5 FLOWABLE FILL ESTIMATED FROM DATA | LS | LS | 1 | \$22,300.00 | | | - | 22,300.00 | |
| Waterline | | 2" Curb Stop with Auto Flusher and RIPRAP | LS | LS | 1 | 322,300.00 | \$ 6,000.00 | | Ś | 6,000.00 | \$ 5,017.00 |
| Waterline | | 5 Water Meter Pits (Approx \$950/Each) | EACH | LS | 1 | ACC PROVIDENT | \$ 20,303.11 | | Ś | 20,303.11 | |
| Waterline | | CONCRETE ENCASEMENT | LF | LE | 20 | \$ 73.00 | | | 5 | 1,460,00 | \$ 260.00 |
| Waterline | | 7 8" SDR PVC Granular Embedment | LF | LF | 2,019 | \$ 43.14 | | | and the second se | 87,099.66 | |
| Sanitary Sewer | | | EACH | EACH | 2,019 | \$ 3,150.00 | | | | 25,200.00 | \$ 9,200.00 |
| Sanitary Sewer | | 5 STD Manhole | EACH | VF | 12.46 | \$ 186.44 | \$ 2,000.00 | the second s | | 2.323.04 | |
| Sanitary Sewer | | 6 Extra Depth 4' DIA Manhole | Contraction of the second s | | 1000 | Division and the second s | and the second | | | 4,532.00 | |
| Sanitary Sewer | | 6 Drop Manhole 5' DIA 6' Depth | EACH | EACH VF | 1 6.3 | \$ 4,532.00 \$ 281.87 | | | 2 | 1,775.78 | \$ 1,082.78 |
| Sanitary Sewer | | 5 Extra Depth 5' DIA Manhole | EACH | - | | \$ 281.87 | | | S | 2,000,00 | 3 1,002.70 |
| Sanitary Sewer | | 6" Service Line | - | EACH | 4 | A 9 745 65 | \$ 500.00 | SE MAR | | 2,000,00 | \$ 1,600.00 |
| Sanitary Sewer | | 5 Connect to Existing Manhole | EACH | EACH | 1 | \$ 2,705.00 | | | | 3,990.00 | 5 1,600.00 |
| Sanitary Sewer | | Concrete Collars | | EACH | 7 | | \$ 570.00 | and the second se | - | 3,990.00 | 6 /2 267 74 |
| Sanitary Sewer | | 3 Flowable Mortar Backfill | CY | CY | 403 | \$ 91.42 | \$ 70.00 | | | | |
| Sanitary Sewer | | 4 Seed, Fertilize, Mulch and Erosion Netting | LS | LS | 1 | \$ 5,375.00 | | \$ 5,500.00 | \$ | 5,375.00 | \$ (125.00) |
| Sanitary Sewer | | Construction Staking | a historica | No Bid | No Bid | | \$ - | | \$ | | |
| Sanitary Sewer | | Rip Rap Erosion Protection | 1 1 1 2 2 2 2 | LS | 1 ' | - mainers | \$ 2,500.00 | | | 2,500.00 | |
| Sanitary Sewer | | 7 Concrete Encasement | LF | LF | 45 | \$ 73.00 | \$ 50.00 | \$ 2,250.00 | \$ | 3,285.00 | \$ 1,035.00 |



| | International New York of the I | | 1 10 | | _ | | | |
|---|--|--------|----------|-----------|-------------------------|----------|---|----------------------------|
| Sanitary Sewer | Impervious Ditch Check | | LS | 1 | | \$ | 750.00 | |
| Sanitary Sewer | Polyurethane Manhole Lining 15" HDPE | | LS | 1 38 | | \$ | 7,397.50 23.75 | \$ |
| Storm Sewer Storm Sewer | 2 15" Reinforced Concrete Pipe | LF | I IF | 38 79 | \$ 40.50 | \$ | 23.75 | \$ 902.50 |
| Storm Sewer | 18" HDPE | | | 87 | \$ 40.50 | ₽ \$ | | \$ 2.088.00 |
| | 2 IS" Reinforced Concrete Pipe | LF | | 76 | \$ 28.00 | ŝ | 24.00 | \$ 1,900.00 |
| Storm Sewer | 24" HDPE | | 10 TO 10 | 706 | \$ 28.00 | - 55 | 6767 C C C C | |
| Storm Sewer | | | LF | | a second second | \$ | | \$ 21,180.00 |
| torm Sewer | 24" Reinforced Concrete Pipe | | LF | 38 | | \$ | | \$ 1,216.00 |
| torm Sewer | 2 30" HDPE | LF | LF LF | 19 | \$ 63.50 | \$ | | \$ 741.00 |
| torm Sewer | 7 48" Reinforced Concrete Pipe | LF | LF | 103 | \$ 151.08 | \$ | | \$ 10,815.00 |
| torm Sewer | 7 15" RCP End Section | EACH | EACH | 1 | \$ 661.71 | \$ | | \$ 450.00 |
| torm Sewer | 7 30" RCP End Section | EACH | EACH | 1 | \$ 751.00 | \$ | | \$ 450.00 |
| torm Sewer | 7 48" RCP End Section | EACH | EACH | 2 | \$ 1,393.00 | \$ | | \$ 3,800.00 |
| torm Sewer | 7 5'x4' Curb Inlet | EACH | EACH | 6 | \$ 3,390.00 | \$ | | \$ 12,150.00 |
| torm Sewer | 7 10'x4' Curb Inlet | EACH | EACH | 3 | \$ 5,026.00 | \$ | | \$ 9,756.00 |
| torm Sewer | 2 4'x4' Junction Box | EACH | EACH | 1 | \$ 2,750.00 | \$ | | \$ 2,185.00 |
| torm Sewer | 5 18 " NOM DIA Rip Rap | SY | SY | 84 | \$ 29.00 | \$ | | \$ 2,100.00 |
| torm Sewer | Flowable fill | LS | LS | 1 | 1 Call Constant | \$ | | \$ 11,000.00 |
| arking Lot Lights | LFD-Dual Fixturers | LS | LS | 1 | | \$ | | \$ 120,000.00 |
| arking Lot Lights | Pole Bases | LS | LS | 1 | | \$ | | \$ 25,000.00 |
| arking Lot Lights | Conduit | LS | LS | 1 | | \$ | 40,000.00 | \$ 40,000.00 |
| arking Lot Lights | Conduit Wester | LS | LS | 1 | a fear and | \$ | | \$ 25,000.00 |
| arking Lot Lights | Electric Service - labor | LS | LS | 1 | | \$ | | \$ 22,000.00 |
| andscaping | Trees | EACH | EACH | 450 | | \$ | 425.00 | \$ 191,250.00 |
| andscaping | Shrubs | EACH | EACH | 710 | | \$ | 60.00 | \$ 42,600.00 |
| andscaping | Site Entry Signs | LS | LS | 1 | | \$ | 150,000.00 | \$ 53,200.00 |
| andscaping | Irrigation | LS | LS | 1 | a desta service | \$ | | \$ 100,000.00 |
| andscaping | Misc | LS | LS | 1 | | \$ | | |
| ock Chalk Drive & George Williams | 21 Unclassified excavation | CY | CY | 15934 | \$ 3.39 | \$ | 그 가지 않는 것 같은 것 같 | \$ 79,670.00 |
| ock Chalk Drive & George Williams | Compacted fill | CY | CY | 1790 | | Ś | 1.00 | \$ 1,790.00 |
| ock Chalk Drive & George Williams | Site restoration | LS | LS | 1 | No. Instruction | S | | \$ 5,000.00 |
| ck Chalk Drive & George Williams | 12 11" NRDJ Concrete Pavement | SY | SY | 9758 | \$ 62.60 | S | | \$ 522,115.00 |
| ock Chalk Drive & George Williams | 4 Type CG-1 Concrete curb & gutter | LF | LF | 6257 | \$ 16.96 | Ś | | \$ 96,080.00 |
| ck Chalk Drive & George Williams | 7 4" x 5' Concrete sidewalk | SY | SY | 40 | \$ 27.70 | Ś | | \$ 510.00 |
| ck Chalk Drive & George Williams | 7 6" x 10' Fiber reinforced cone sdwk | SY | SY | 4078 | \$ 128.73 | ŝ | | \$ 159,720.00 |
| ck Chalk Drive & George Williams | 2 Access rampti | EACH | EACH | 13 | \$ 738.00 | s | | \$ 14,000.00 |
| ck Chalk Drive & George Williams | Compaction tests street | LS | LS | 5 | \$ 730.00 | S | and the second se | \$ 500.00 |
| ick Chalk Drive & George Williams | Construction Staking | NO BID | No Bid | No Bid | - | ÷ | No Bid | \$ 500.00 |
| ock Chalk Drive & George Williams | Seed, Fertilize & Mulch | LS | LS | 1 | | s | | \$ 4,000.00 |
| ock Chalk Drive & George Williams | Cleating, Grubbing & Tree Removal | LS | LS | 1 | and state of the second | s | | \$ 1,250.00 |
| ock Chalk Drive & George Williams | 7 Treatment of subgrade 12" fly ash & 4" AB3 | | SY | 11825 | \$ 4.51 | Ś | | \$ 1,250.00 |
| | 22 Erosion Control | CALC | LS | | \$ 5,233.00 | s s | | - Carlo |
| ock Chalk Drive & George Williams | Section Control Section Control | LS | LS | 1 | \$ 5,233.00 | s | | \$ 2,670.00 \$ 1,000.00 |
| | 4 2" Conduit | LS | LS | 1 1701 | \$ 8.70 | 2 | | \$ 3,402.00 |
| ock Chalk Drive & George Williams | | 1 C | | | | \$ | | |
| ock Chalk Drive & George Williams | 7 4" Conduit | LS | LF | 997 | \$ 12.12 | 0 | 2.00 | \$ 5,396.00 \$ 500.00 |
| tock Chalk Drive & George Williams | Traffic Control Signage | SY SY | LS | 1 | \$ 129.00 | \$ | 500.00 | |
| Overflow Parking Lot | 7 Concrete access ramps | | SY | 464 | \$ 129.00 | \$ | | \$ 20,400.00 |
| Overflow Parking Lot | Lot Grading | LS | LS | 1 | the second | \$ | 25,000.00 | \$ 25,000.00 |
| Iverflow Parking Lot | Temporary Gravel Laydown | LS | LS | 1 | | \$ | | \$ 20,000.00 |
| arking Lot / Access Drives | 7 Concrete Parking Lot | SY | SY | 44,356 | \$ 50.24 | \$ | | \$ 1,877,128.00 |
| arking Lot / Access Drives | 4 CG-1 curb and gutter | LF | FL | 15,338 | \$ 16.96 | \$ | | \$ 261,882.00 |
| rking Lot / Access Drives | 7 Concrete parking and bus lane | SY | SY | 7,337 | \$ 50.24 | \$ | | \$ 332,250.00 |
| Irking Lot / Access Drives | 7 Fire lane / Access roads | SY | SY | 8,593 | \$ 50.24 | \$ | | \$ 151,580.00 |
| rking Lot / Access Drives | Storms Sewer | LS | LS | 1 | | \$ | 157,000.00 | \$ 104,232.30 |
| rking Lot / Access Drives | Trim Subgrade | SY | SY | 65,393 | | \$ | 1.25 | \$ 79,700.00 |
| rking Lot / Access Drives | 7 Treatment of subgrade -12" Fly ash & 4" A | | SY | 65,425 | \$ 4.51 | \$ | 9.33 | \$ 463,187.85 |
| ck Chalk Lane and Rock Chalk Parkway | 21 Unclassified excavation | CY | CY | 3,017 | \$ 3.39 | \$ | 5.00 | \$ 15,085.00 |
| ck Chaik Lane and Rock Chaik Parkway | Compacted fill | CY | CY | 2,920 | 15 10 10 10 | \$ | 1.00 | \$ 2,920.00 |
| ck Chalk Lane and Rock Chalk Parkway | Site restoration | LS | LS | 1 | Contract No. | \$ | 5,000.00 | \$ 5,000.00 |
| ck Chalk Lane and Rock Chalk Parkway | 21 8" NRDJ Portland cement | SY | SY | 9,524 | \$ 45.53 | \$ | 50.00 | \$ 427,800.00 |
| ock Chalk Lane and Rock Chalk Parkway | 4 CG-1 curb and gutter | LF | LE | 5,109 | \$ 16.96 | \$ | 16.00 | \$ 74,336.00 |
| ock Chalk Lane and Rock Chalk Parkway | 6" x 10' Fiber ree path | SY | SY | 5,163 | | \$ | | \$ 210,680.00 |
| | 7 4" x 5' Sidewalk | SY | SY | 195 | \$ 27.70 | Ş | | \$ 2,640.00 |
| | 2 Access ramps | EACH | EACH | 51 | \$ 738.00 | \$ | | \$ 51,000.00 |
| lock Chalk Lane and Rock Chalk Parkway | | | | | \$ 4.51 | S | | \$ 85,761.36 |
| lock Chalk Lane and Rock Chalk Parkway lock Chalk Lane and Rock Chalk Parkway | | SY | SY | 10,800 | | | | |
| tock Chalk Lane and Rock Chalk Parkway tock Chalk Lane and Rock Chalk Parkway tock Chalk Lane and Rock Chalk Parkway | 7 Treatment of subgrade -12" By ash & AB3 | | SY SY | 10,800 | | s | | |
| tock Chaik Lane and Rock Chaik Parkway tock Chaik Lane and Rock Chaik Parkway tock Chaik Lane and Rock Chaik Parkway ihip and Seal County Road | 7 Treatment of subgrade -12" By ash & AB3 7 Chip and Seal | SY | SY | 10000 | | \$ | 1.80 | \$ 16,200.00 |
| Rock Chalk Lane and Rock Chalk Parkway Rock Chalk Lane and Rock Chalk Parkway Rock Chalk Lane and Rock Chalk Parkway Chip and Seal County Road Rec Center Pad | 7 Treatment of subgrade -12" By ash & AB3 | | | | | \$ \$ | 1.80 10.00 | |

McDonald

Estim

ociates

2W

3,199.50 \$ 1,244.25 2,088.00 2,128.00 \$ 228.00 21,180.00 1,216.00 1,206.50 \$ 465.50 15,561.24 \$ 4,746.24 661.71 \$ 211.71 751.00 \$ 301.00 2,786.00 \$ (1,014.00) 20,340.00 \$ 8,190.00 15,078.00 \$ 5,322.00 2,750.00 \$ 565.00 2,436.00 \$ 336.00 11,000.00 120,000.00 25,000.00 40,000.00 25,000.00 22,000.00 191,250.00 42,600.00 53,200.00 100,000.00 100,000.00 54,016.26 \$ (25,653.74) 1,790.00 5,000.00 610,850.80 \$ 88,735.80 106,118.72 \$ 10,038.72 1,108.00 \$ 598.00 524,960.94 \$ 365,240.94 9,594.00 \$ (4,406.00) 500.00 . 4,000.00 \$ 1,250.00 \$ 53,330.75 \$ 53,330.75 5,233.00 \$ 2,563.00 1,000.00 14,798.70 \$ 11,396.70 12,083.64 \$ 6,687.64 500.00 59,856.00 \$ 39,456.00 25,000.00 20,000.00 2,228,445.44 \$ 351,317.44 260,132.48 \$ (1,749.52) 368,610.88 \$ 36,360.88 431,712.32 \$ 280,132.32 104,232.30 79,700.00 295,066.75 \$ (168,121.10) 10,227.63 \$ (4,857.37) 2,920.00 5,000.00 433,627.72 \$ 5,827.72 86,648.64 \$ 12,312.64 210,680.00 5,401.50 \$ 2,761.50 37,638.00 \$ (13,362.00) 48,708.00 \$ (37,053.36) 36,800.00 \$ 20,600.00 180,000.00 33,900.00 \$ 11,400.00 9,350.00

7,397.50





Regort Issue #6

| \$ | | 12,000 | SY | SY | Fly Asb 18' | Rec Center Pad |
|--------------------|--------|-----------------|----|----|---------------------------------------|----------------|
| \$ | | 20,100 | SY | SY | A133 Entire Building Pad | Rec Center Pad |
| \$ | | 8,000 | SY | SY | AB3 Additional depth rock area | Rec Center Pad |
| 12.12 \$ |) \$ | 5200 | LF | LF | 7 4" Conduit for Fiber | CHANGE ORDERS |
| 8.70 \$ |) \$ | 600 | LF | LF | 4 3" Conduit for Security | CHANGE ORDERS |
| 4.51 \$ | 5 \$ | 11825 | SY | SY | 7 Treatment of subgrade 9" Fly Ash | CHANGE ORDERS |
| 28.00 \$ | 2 \$ | 42 | LF | LF | 1 12" HDPE Storm Pipe | CHANGE ORDERS |
| 503.79 | 1\$ | 1 | EA | EA | 7 12" CMP End Section | CHANGE ORDERS |
| : | 3 | 5998 | Y | Y | Subgrade 12" Crushed Concrete Parking | CHANGE ORDERS |
| A States of | | En la la | LS | LS | Post Tension Concrete Tennis Courts | CHANGE ORDERS |
| \$ | 5 | 2166.65 | SY | SY | GWW Pavement Thickness | CHANGE ORDERS |
| and a state of the | | | | LS | Engineering for Low Water Crossing | CHANGE ORDERS |
| 1. 1 | S. Com | Section Section | | LS | Performance and Payment Bonds | CHANGE ORDERS |

| \$ | 96,000.00 | \$ 96,000.00 | | |
|----|---------------|---------------------|-----|-------------|
| \$ | 80,400.00 | \$ 80,400.00 | | |
| \$ | 44,000.00 | \$ 44,000.00 | | |
| \$ | | | | |
| \$ | 52,000.00 | \$ 63,024.00 | \$ | 11,024.00 |
| \$ | 6,000.00 | \$ 5,220.00 | \$ | (780.00) |
| \$ | 51,453.00 | \$ 53,330.75 | \$ | 1,877.75 |
| \$ | 966.00 | \$ 1,176.00 | \$ | 210.00 |
| \$ | 450.00 | \$ 503.79 | \$ | 53.79 |
| \$ | 55,961.34 | \$ 55,961.34 | | |
| \$ | 58,765.00 | \$ 58,765.00 | | |
| \$ | (11,641.58) | \$ (11,641.58) | | |
| \$ | (12,960.00) | \$ (12,960.00) | | |
| \$ | 50,889.00 | \$ 50,889.00 | | |
| \$ | 11,542,121.01 | \$ 13,367,513.44 | \$1 | ,825,392.43 |
| \$ | 1,152,351.00 | | | |
| | | | | |

\$ 10,389,770.01 \$ 7,732,308.84 9,519,772.27 ¢ 67%

8.00 \$

4.00 \$

5.50 \$

450.00 \$ 9.33 \$

\$ 10.00 \$ 10.00 \$ 4.50 \$ 23.00 \$

> Ś 5.50 \$ \$ \$

*** These items were not paid by the city of Lawrence.

We were able to test 67% of the costs against estimated unit price totals. The remaining costs we accepted "As is."

Conclusion: The analysis indicated that \$1,825,392 in costs were below established estimates

Page 3 of 3

TECHNICAL PAPER

What successful Cost Estimators know. . . . and you should, too

>>>>>> AN ESTIMATOR'S GUIDE TO POLICIES, >>>>>>>>>>> PROCEDURES, AND STRATEGIES



HOW TO:

ESTIMATE THE COST OF

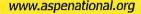
CONCRETE CONSTRUCTION

submitted by Bruce E. Schlesier, CPE

Bruce E. Schlesier is the Director of Cost Management in the Las Vegas area for an international cost and project management firm. His career began as an Architect later seeking a desire

to be closer to construction returned to the University for an Education in Construction Engineering. Bruce founded a Construction Management design-build firm in 1986 which grew to one hundred-sixty employees covering six southeastern states. After selling the business Bruce pursued his career serving as the president or vice-president of construction for three large multi-state regional or national development firms. His current role focuses on creating estimates for the Development Teams of mega multi-use casino resorts worldwide from conceptual including soft cost though final project close-out.

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SECTION1: INTRODUCTION

The intended purpose of this paper is to exhibit the systematic logic used in developing an estimate for concrete construction. The process has been simplified but includes the basic considerations needed to estimate the limited components reviewed for this paper. The hope is that an estimator can utilize this guide as a basis to fully develop an estimate for concrete construction that can be modified or expanded to work with their unique areas of specialty, equipment, labor, and project scopes.

Cast-in-Place Concrete covers a broad spectrum of both civil and building construction. This technical paper due to the abbreviated scope will focus on the process used to estimate slabs on grade, footings, and walls for building construction. The estimates used for example will concentrate on basic concrete material and formwork. Additional items that are often included in a concrete estimate such as excavation, reinforcing bars, miscellaneous concrete, embedded items, and hoisting will not be included in the scope of this paper.

The basis for this technical paper Institute Master Format (2004 Edition)

| Division 03: | Concrete |
|---------------|------------------------|
| Subdivisions: | 03 30 00 Cast-in-Place |
| Concrete | |

SECTION 2: TYPES AND METHODS OF MEASUREMENTS

There are a number of Estimating types including: Schematic or Feasibility, Order of Magnitude or occasionally depending on the limited availability of information this becomes a Rough Order of Magnitude, Preliminary estimate based on preliminary Architectural documents, Baseline estimating sometime referred to as Probable Cost Estimate which is based on Architectural Design Development drawings, and the Definitive Estimate based on 90% or greater completion of the Construction Documents.

The unit of measure for concrete construction varies with the material type. Concrete material is measured in cubic yards, forms by the square foot, concrete finishing by the square foot or sometimes in mass by the square, miscellaneous items vary but usually by count, reinforcing steel by pounds or tons, hand excavation by cubic yards, and fine grade by the square foot. The quantity survey/takeoff is this first step in preparing an estimate. The estimator conducting the quantity survey/takeoff must coordinate and follow the system or units utilized in the pricing schedule. This particularly true in larger companies where the quantity surveyor or takeoff estimator is often a different person than the pricing estimator.

The Quantity Survey:

Concrete yardage is the most important item and should be taken off first along with the associated formwork, finishing, hand excavation, and other items that can be taken off at the same time since their quantities are all associated with the concrete surface. Concrete's standard measure is in cubic yards by strength with an appropriate waste factor added. The waste factor will vary based on application and while there are guidelines for this one should develop their own percentages. Concrete for example placed on grade often does not utilize forms for isolated or continuous footings requiring a higher percentage of waste over concrete placed in forms. The estimator should coordinate with field operations to develop a company standard for waste factors.

There are twenty-seven cubic feet in one cubic yard so the usual procedure is to divide the amount of cubic feet by 27 to find the number of cubic yards. The decimal equivalent conversion factor is 0.37 cubic yards is equal to 1 cubic foot which is another method to determine cubic yardage. For example: a wall that is 12" wide (1'-0") by 10'-0" in height by 50'-0" long results in 1'x10'x50'=500 cubic feet (c.f.). 500c.f./27=18.5 cubic yards (c.y.) or 500cf by 0.37=18.5 c.y. Both calculations provide the same results so the option is based on preference.

The experienced estimator will develop a system for quantity takeoff similar to the example shown in the simple twenty item list below. Following an outline serves consistency and prevents missed items.

Quantity Takeoff Outline; [1]

- 1. Column Footings: Hand excavation area, forms, concrete.
- Wall Footings: Hand excavation area, forms, keys, concrete.

- Foundations Walls: Forms (in 4-foot heights), keys, concrete.
- Underpinning: Hand excavation in cubic yards, forms, concrete.
- 5. Piers below Grade: Forms, concrete.
- Building Slabs on Fill: Sand fill, edge forms, expansion joints, finish area, concrete.
- 7. Columns:
 - a. Exterior Columns: Forms, concrete.
- b. Interior Columns: Forms, concrete.8. Beams:
 - a. Exterior Beams: Forms, concrete.b. Interior Beams: Forms, concrete.
- 9. Shored Flat Slabs: Slab forms, edge forms, finish area, concrete.
- 10. Shored Pan Slabs: Slab forms, edge forms, finish area, concrete.
- 11. Slabs on Metal Forms: Deck forms, edge forms, finish area, concrete.
- 12. Stairs on fill: Sand fill, form risers, finish tread and riser, concrete.
- Shored Stairs: Form risers and stair bottoms, finish treads and risers, concrete.
- 14. Stair Landings: Forms, finish, concrete.
- 15. Pan-fill Stairs: finish, concrete.
- 16. Miscellaneous Concrete in Building: Forms, finish, embedded items, concrete.
- 17. Exterior Sidewalks: Sand fill, edge forms, expansion joints, finish concrete.
- Exterior Paving: Sand fill, edge forms, expansion joints, finish concrete.
- 19. Exterior Straight Curbs: Hand excavation, forms, finish, concrete.
- Exterior Curb and Gutter: Hand excavation, forms, finish, concrete.

The quantity takeoff:

The estimator's first action is to survey the plans taking note of the section details and schedules for both structural and flatwork concrete. Schedules referring to the charts depicting the dimensions, reinforcing, and embedded items required for example in column or box footings. An estimate can be developed by 'assembly' from these details. Assembly meaning taking all items into account listed in italics in the Quantity Takeoff Outline (figure 2.1) by a unit measure, for example column pads would be each, walls by lineal foot, flat surfaces by square foot or squares equaling 100 square feet. The quantity takeoff should then be broken into sections by area and/or floors. This will help the estimator should changes

be required later by the architect, engineer, or owner.

There are a number of ways that estimators can takeoff a project including by hand measure, rolling measure, digitizer, or onscreen takeoff which are available from a number of companies have become an industry standard. These onscreen programs provide a record by color/ type that can be attached to your quantity takeoff and can easily be reviewed by supervisors for quality assurance. The onscreen programs also provide the option to include a number of mathematical functions that will calculate the items shown in the following examples simultaneously.

Examples of Assemblies by Unit are as follows for some concrete construction components including; column or box footings, wall footings, foundation walls, and building slabs on fill. While these represent only a few of the many concrete components they will provide you with some of the methods used to develop a quantity survey.

The information gathered in the quantity survey will be transferred to a recapitulation sheet for pricing.

Using the totals from figure 2.2 we can calculate the quantities required for all columns footings.

1. The cubic feet concrete total of 190 divided by 27= 7.03 c.y. or 190 times 0.037 equals 7.03 c.y. using the factor method. Waste factors are applied based on footing, form, and placement types.

2. The Forms total is 67 square feet. The estimator must coordinate with field operations to determine the best method and available forms. Material estimating will also be affected by the number of reuses.

3. Hand Excavation totals 148 square feet.

Using the totals from Figure 2.3 we can calculate the quantities required for all Wall Footings. Walls and footings should be measured at the centerline. This is the same method used for continuous footings less the keyway.

1. The cubic feet concrete total of 1,255.5 divided by 27= 46.5 c.y. or 1,255.5 times 0.037 equals 46.5 c.y. using the factor method. Waste factors are applied based on footing, form, and placement types.

2. The Forms total is 841.5 square feet. Same as in the column footings the estimator must coordinate with field operations to determine the best method and available forms. Material estimating will also be affected by the number of reuses.

Figure 2.1

| Description | Dimensions | Count | Sq. Ft. Area | Sq. Ft. Forms | Cubic Ft. Concrete |
|-----------------|----------------|--------|----------------|------------------|-----------------------|
| Column Footings | WxLxD | #Ftgs. | W x L x #Ftgs. | (2W + 2L) D | WxLxDx #Ftgs. |
| F1 | 4'0"x4'0"x1'0" | 4 | 64.0 | 16.0 | 64.0 |
| F2 | 3'6"x2'0"x1'6" | 3 | 21.0 | 16.5 | 31.5 |
| F3 | 7'0"x4'6"x1'6" | 2 | 63.0 | 34.5 | 94.5 |
| Totals: | | 9 | 148.0 | 67.0 | 190.0 |

Figure 2.2

| Description | Dimensions | Sq. Ft. Area | Sq. Ft. Forms | Cubic Ft. Concrete |
|---------------|-------------------|--------------|------------------|-----------------------|
| Wall Footings | DxWxL | WxL | 2D x L | WxLxD |
| Line A | 1'0"x2'6"x112'0" | 280.00 | 224.0 | 280.0 |
| Line B | 1'6"x2'0"x86'6" | 173.00 | 259.5 | 259.5 |
| Line C | 2'0"x3'6"x89'6" | 313.25 | 358.0 | 716.0 |
| Totals: | Length = 288 L.F. | 738.25 | 841.5 | 1,225.5 |

Figure 2.3

| Description | Dimensions | Sq. Ft. Area | Sq. Ft. Forms | Cubic Ft. Concrete |
|-------------|------------------|--------------|------------------|-----------------------|
| Walls | HxWxL | WxL | 2H x L | WxHxL |
| Line A | 1'0"x2'6"x7'0" | 70.0 | 350.0 | 175.0 |
| Line B | 0'8"x7'0"x45'0" | n/a | 630.0 | 210.5 |
| Line C | 1'0"x12'0"x92'0" | n/a | 2208.0 | 1,104.0 |
| Totals: | | 70.0 | 3,188.0 | 1,489.5 |

Figure 2.4

| Description | Dimensions | Sq. Ft. Area | Cubic Ft. Concrete |
|---------------|-------------------|--------------|--------------------|
| Slabs on Fill | WxLxD | WxL | WxLxD |
| Meeting Rooms | 120'0"x85'0"x0'6" | 10.200 | 5100 |
| Hotel Lobby | 46'0"x65'0"0'6" | 2.990 | 1495 |
| Restaurant | 65'0"x72'0"x0'6" | 4.680 | 2340 |
| Totals: | 4 | 17.870 | 8,935 |

3. Hand Excavation totals 738.25 square ft.

4. Length of Keys equals the length of footing or 288 lineal ft.

Using the totals from Figure 2.4 we can calculate the quantities required for the Grade Beams and Foundation Walls.

1. The cubic feet concrete total of 1,489.5 c.f. divided by 27= 55.17 c.y. Waste factors should be applied based on footing, form, and placement types. For the purposes of this example there are no box-outs, ledges, embedded items, pilasters, waterstop, or bearing seats which must be added or deducted from the above totals.

2. Grade Beams (Line A) place on earth so the square feet area is calculated for Hand Excavation equaling 70 square feet.

3. Forms for walls should be figured by increments of vertical feet as the additional height increases the total cost for bracing, material, and labor. The total for forms is 3,188 square feet which is broken into the following: 0 to 4 feet forms 350 square feet, 4 to 8 feet forms 503 square feet, and 8 to 12 foot forms 2208 square feet.

The slabs quantities can be estimated from the few areas calculated in table 2.4.

1. Concrete total cubic feet is 8,935 divided by 27 equals 331 cubic yards. A waste factor of 3% for slabs on grade/earth increases the concrete total to 331 multiplied by 1.03 equals 341 yards.

2. Place and grade fill material sand or granular drainage fill. For 4" sand fill take the area 17,870 multiply by 0.34 the factor for 4" equals 6,076 cubic feet. 6,076 divided by 27 equals 225 cubic yards. This is the amount of compacted sand required. Sand does not come compacted so the estimator must account for the shipping volume. Using 25% compaction for sand we take the total compacted sand of 225 cubic yards by 1.25 which equals 281 cubic yards.

3. Vapor Barrier per specification. This example will use a 6 mil polyethylene sheet. The total needed is the square feet 17,870 multiplied by 1.10 adding a 10% factor for lapping the joints equals 19,657 square feet of 6 mil vapor barrier required.

4. Finish Slab is equal to the square foot area of 17,870.

5. Curing compounds or membranes will also be calculated by the square foot area.

6. The estimator should also include other items such as blockouts, edge forms, keyed control joints, and expansion joints while reviewing the plans for the slab as this information will be shown on the same drawings.

SECTION 3: SPECIFIC FACTORS THAT AFFECT TAKE-OFF AND PRICING.

The total price of Construction is the sum of Direct Costs, Contingency Costs, and Margin/ Mark-Up consisting of indirect costs, overhead, and profit. When the Quantity Survey is completed the information is transferred to a recapitulation sheet where the information is formatted for pricing. Below is an example of a Recapitulation Outline.

Recapitulation Outline for Pricing; [2]

1. Forms:

- a. List all formwork items from quantity takeoff.
- b. Sum up total formwork for one stripping and cleaning item.
- Concrete:
- a. List all concrete items from quantity takeoff.

b. Sum up total concrete yardage for testing.

Finish:

a. Screed material: sum of total finish area for building from quantity takeoff.b. Float finish: from room schedule and specifications.

c. Steel trowel finish: screed material area less float finish area.

d. All other finishing: (from quantity take off).

e. Hand rubbing of exposed surfaces: from drawings and specifications.

4. Excavation:

 a. Hand Excavation: from quantity takeoff.

b. Sand fill: from quantity takeoff.

5. Miscellaneous:

a. Check specifications and drawings completely for all other items.

b. Add curing slabs, hoist, heat protection, cleanup, foreman.

c. Add insurance and taxes, state taxes, overhead and profit.

d. Wage increases.

e. Concrete cost per cubic yard.

- Reinforcing Steel and Mesh:
 a. Add as sub-item with overhead and profit.
- 7. Final:
 - a. List of included and non-included items.
 - b. Figure all alternates.
 - c. Figure unit prices.

The pricing estimator prior to completing the Recapitulation must coordinate with construction operations on the formwork type/method to be utilized.

Other specific factors that can affect pricing include: number of form re-uses, site access, schedule, project size, project location, weather, and equipment.

There are a number of excellent published cost databases available for use by an estimator. Estimators should exercise caution in using published data even with the local factor adjustment as these are general in nature. They work well as a check for unit prices to determine if your company's production factors are competitive.

SECTION 4: OVERVIEW OF LABOR, MATERIAL, EQUIPMENT, INDIRECT COSTS, AND MARK-UPS.

Pricing includes: Materials, Labor, Equipment, Contingency costs, Indirect costs, and Mark-ups. Materials, Labor, Contingency, and Equipment are considered Direct Costs:

1. Material Pricing for Concrete Construction consist of obtaining bids for the components based on the quantity and date of placement. Professional Estimators maintain current data for the regions where they typically work.

2. Labor Pricing is far more complex. Labor productivity estimating by unit and or crew cost can be pulled from commercial databases however the experienced estimator will develop cost based on their company's historical cost records and productivities. Historical records should be maintained by project type and scope which can be used as a guide. Labor costs can change so it is important to record the labor productivity of your crews then apply

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the current labor costs as this is the best indicator of the production cost for your company.

The Labor Productivity Charts below provide a basis for a method utilized to record your crew's productivity. Work with your company's Construction Operations to gather current production data by providing them with forms to register data that is consistent with the format utilized in your take-off and pricing estimating system. The published rates can be used until this information has been developed however you should exercise caution as production rates and costs are general in nature. The production factor can be multiplied by the mean average crew rate to determine the labor per unit.

Production Factors may be affected by a number of items including site conditions, tight schedules, and supervision.

The Factors can be applied using the following formulas. The estimator must coordinate with operations to determine the total crew size and required production schedule. These represent only a few examples of the many production formulas that may be required for your project but will serve as an example of how to develop unit costs.

Labor Unit Prices Formulas: [4]

• Daily Labor Unit Price = Total Daily Crew Cost divided by the Daily Crew Production.

• Hourly Labor Unit Price = Total Hourly Crew Cost divided by the Hourly Crew Production.

Daily Production = Daily Crew Cost di-

Samples of Labor Productivity Charts; [3]

Table 4.1

| rom Work: | | | | 384 | |
|---|---------|--------------------|-------|-------|--------|
| | | Man-Hours Per Unit | | | |
| Work Element Description | on Unit | Fabricate | Erect | Strip | Repair |
| Footing, Foundation Walls, and Grade Beams | SFCS | 0.09 | 0.07 | 0.04 | 0.04 |
| Slabs on Grade and Screed | SFCS | 0.13 Complete | | | |
| Columns and Piers | SFCS | 0.09 | 0.10 | 0.05 | 0.05 |
| Suspended Slabs | SFCS | 0.08 | 0.12 | 0.04 | 0.05 |
| Beams and Girders | SFCS | 0.11 | 0.10 | 0.05 | 0.05 |

Placing Concrete:

| | | Man-Hours Per Unit | | | | |
|--------------------------|------|--------------------|---------|--------|-------------------|--|
| Work Element Description | Unit | Direct Chute | Wheeled | Pumped | Crane & Bucket | |
| Grade Beams | CY | 1.0 | 2.0 | 1.50 | 1.50 | |
| Slabs on Grade | CY | 1.5 | 3.0 | 2.00 | 2.50 | |
| Suspended Slabs | CY | - | - | 1.68 | 2.24 | |
| Beams and Girders | CY | - | - | 1.68 | 2.24 | |

Finishing and Curing Concrete:

| Work Element Description | Unit | Man-Hours Per Unit |
|---|------|--------------------|
| Finish – Steel Trowel Machine | SF | 0.015 |
| Finish – Hand Trowel | SF | 0.030 |
| Finish – Float Only | SF | 0.025 |
| Curing – Liquid Spray, membrane, Burlap | SF | 0.005 |
| Cold Weather Protection | CY | 0.500 |

vided Labor Unit Price or:

• Hourly Production = Hourly Crew Cost divided by Labor Unit Price.

• Project Duration (Days) = Total Material divided by Daily Production.

• Required Daily Production = (Daily Crew Cost multiplied by Total Material) divided by Total Labor Budget.

Note that Labor Productivity drops with greater work hours per week so if ten hours per day six days a week are anticipated the estimator will need to factor the drop in productivity.

3. Equipment Pricing. The equipment for each project can vary significantly so it is important that the estimator coordinate with construction operations which will provide a list and schedule of use for the significant equipment items specific to the project. Small tools and equipment are usually added as a factor of the cost. Some equipment items may be provided by the General Contractor an example being a tower crane with operator. Other equipment not provided by the General Contractor may be shared between trades however exercise caution on assumptions if the other trade contractors have not been selected and/or you have not had the opportunity to negotiate the terms. You may offer the General Contractor a deductive option provided this be coordinated through the bid process.

Equipment can be priced by job duration or as a unit price based on historical cost data factors similar to the charts shown in Figure 2.3.

Contingency Items is a subtopic that must also be priced by the estimator. An example is weather protection for rain to protect open trenches or green placed concrete, sump pumps to drain trenches, and straw, sand, and/or walkways to protect finished surfaces from mud tracking. Contingency Items area may be different based on the location, duration, and time of year the project is under construction.

4. Indirect Costs are project specific costs that do not become a physical part of the project. Indirect costs are a function of the project that would not be borne if the project was not under construction. Examples of indirects are temporary job offices, off-site parking if required, toilets safety provisions, equipment maintenance, licenses, administrative costs that are directly associated with the project such as site office administrative staff, insurance, permits, and taxes to name a few.

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5. Mark-Ups include the company's profit and overhead costs.

Profit is the reward of the risk that a contractor takes in bidding a project. The profit is usually determined by the firm's principals who will weigh the company's need for the job to cover ongoing overhead expenses, competition, the reputation of the client, and other factors.

Overhead costs are the ongoing expenses of operations not directly generating profits. Not understanding overhead costs can seriously affect the profitability of your estimate if undervalued. The overhead for some specialty contractors can easily exceed ten percent of the total cost of the project. The overhead can be obtained from the accounting department of your firm or if you are required to develop the overhead model gather historical information by project types. Many overhead costs are fixed such as office rent however many are a function of the job size and types under construction. A large multiuse casino project will require more office staff and consumables that a small hotel for instance however as a percentage to the cost of the job the casino may actually be a lower percentage. Developing a sound model of overhead costs is essential to develop a proper estimate.

SECTION 5: SPECIAL RISK CONSIDERATIONS.

Pricing Special Risks can be a tricky task because if you price every possible risk then you will not get the bid. A list of special risks should be developed along with the anticipated cost should they occur and be presented to the individual making the final decision on the mark-up and profits. There are many special risks situations which a project can encounter and a wise estimator will coordinate with operations to determine the probability of an occurrence. I have listed a few of the more common special risks below.

Escalation is included in the pricing estimate based on anticipated increases in material and labor costs where firm bids or labor agreements cannot be secured to the date of placement. This information for larger companies is tracked for the specific areas in which the company does business. Smaller organizations can usually find this information through a trade organization or online. Make certain that the escalation factor is for the geographic region or city where the project is located. For instance in early 2008 the escalation factor for Las Vegas was more than double many parts of the country. Escalation should be calculated from the estimate date to the time the material is placed on the project. For larger projects use as a placement date the midpoint of construction. Escalation is a best guess for commodity futures. Material prices during 2008 increased by a margin that was far greater than anyone had anticipated causing serious consequences to many firms. Contract clauses requiring the owner to pay for material and labor escalation works well provided it is accepted as a means to reduce the contractors up front bid without escalation added. This places the burden of risk on the owner who may save money if the commodities market drops or remains stable.

Material shortage or longer than anticipated delivery dates is another risk that occurs often enough that every estimator encounters it a few times in a career. The shortage can come from a disaster such as a hurricane that creates a plywood shortage for instance. Excess demand in the market creating a backlog in the production and fabrication of materials is another example. Care should be exercised to secure long lead items well in advance of the date needed for your project.

Weather while factored into the estimate based on normal conditions can sometimes cause a serious delay especially in concrete often requiring the additional costs in overtime, extra shift personnel, and equipment to complete the project on schedule.

Subsurface conditions are often covered in the contract allowing for a additive change order however this will slow the production rate and often require additional equipment.

SECTION 6: TESTING THE BID – RATIOS AND ANALYSIS.

Estimates are made from hundreds even thousands of mathematical functions. They are also dependent on translating information in the plans and specifications to quantities. This leads to many opportunities for error. I have for many years been responsible for the quality assurance / quality control QA/ QC of the estimates prepared by my staff and have a few such errors that will be used as examples on how and why testing the bid is very important.

The QA/QC estimate reviewer will not check the complete take-off or all mathematical functions but uses ratios or unit costs for the completed tested assembly as a standard of measure for comparison. No action is required of a value within a reasonable range of the standard, however if the review renders a significant difference further investigation is required.

The errors can come in many forms including using the wrong scale for the take-off, mathematical equation errors, decimal extension errors, and missing major components of the plans to name the most common.

Examples of how a simple error can affect the estimate:

1. Using unit cost to check the estimate it was discovered that the price used for a single column in a single use form located in a remote part of the project that was not accessible to the tower crane was priced at the same cost per cubic yard as the columns in a multi-story high rise when the cost based on historical data used to develop the unit cost price check table was more than three times the amount used. This was not a significant mistake overall in a large project but includes the many of the considerations an estimator must weigh when figuring a job. All columns are not equal.

2. While checking the cost per square foot of placed flat work it was noticed that the estimate was significantly low. Further investigation yielded the take-off estimator had used the wrong scale and since it was a much larger scale the overall area of the flatwork was reduced.

3. Checking structural steel on a project it was discovered that the pounds per foot of steel was significantly higher than the standard unit price table for a project of this type. Further investigation directed me to the structural columns. The take-off estimator had taken the total length of similar shaped columns to determine the weight. Then he multiplied by the number of columns which was an error in the mathematical formula resulting in the pounds per foot of steel significantly exceeding the actual weight

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SECTION 7: ADDITIONAL PERTINENT INFORMATION.

The low bidder is most often the contractor that gets the job. An excellent estimate provides the confidence a company needs to reduce contingencies that can put your bid over.

Assuming the quantity survey or take-off is accurate another prime area where a company can reduce their bid is in labor production. Management must work to develop the best crew blend, training, morale, and equipment for improved production. Materials especially the few materials used in concrete construction will be bid at close to the same cost for all contractors. Review all costs for any possibility of additional reductions before submitting your bid.

SECTION 8: SAMPLE PLANS AND TAKE-OFF.

The sample plans used for example are from two separate Owner's Directives that primarily affect changes in a variety of concrete construction components. Since this is a Change Directive there are examples of deducts from the old version and adds for the new changes.

The take-off was completed using On-Screen Takeoff (OST) which has highlighted in color each of the concrete components. A takeoff quantity for each item on the sheet has been included at the top right hand corner on each of the plan sheets. The sizes of the components have been indicated on the takeoff for clarity.

SECTION 9: SAMPLE PRICING SHEETS.

Quantities from the takeoff sheets have been placed in the pricing worksheet. The unit cost figures used in this example are blended labor, material, and equipment costs. For instance the cost per cubic yard placed in this example for continuous footings is \$158.40 verses \$165.68 for concrete placed in a concrete wall.

Mark-ups have been included in this example as a total percentage. Mark-ups include: General Conditions, Hoisting, Bonds/Insurance, and the Contractor's Fee.

The pricing estimate contains a few items outside Concrete Construction that are part of this Owners Change Order Directive.

ALL SAMPLE PLANS & TAKEOFF AND SAMPLE PRICING SHEETS CAN BE FOUND ON OUR WEBSITE (www.aspenational.org) UNDER MEMBERSHIP/PUBLICATIONS/ESTIMATING TODAY



SECTION 10: GLOSSARY OF TERMS.

<u>Cast in Place Concrete</u>: Concrete material that is delivered in an unhardened liquid state that is formed and placed in its permanent on site location.

<u>Digitizer</u>: A surface tablet of various sizes that is actively connected to a computer and will transfer the information from the tablet to the computer. Estimators will often have tablets large enough for full plan sheets where quantities can be measured by area, by length, or by count.

On Grade: Ground level. Concrete is placed and supported directly by the ground.

Green Concrete: Concrete that has recently

been placed that has not appreciably hardened to its designed pounds per square inch (psi). <u>Note</u>: There is another recent definition not related to this paper but due to the Green Building initiative relating to sustainable materials used in the concrete mix.

Hoisting: Lifting by mechanical means.

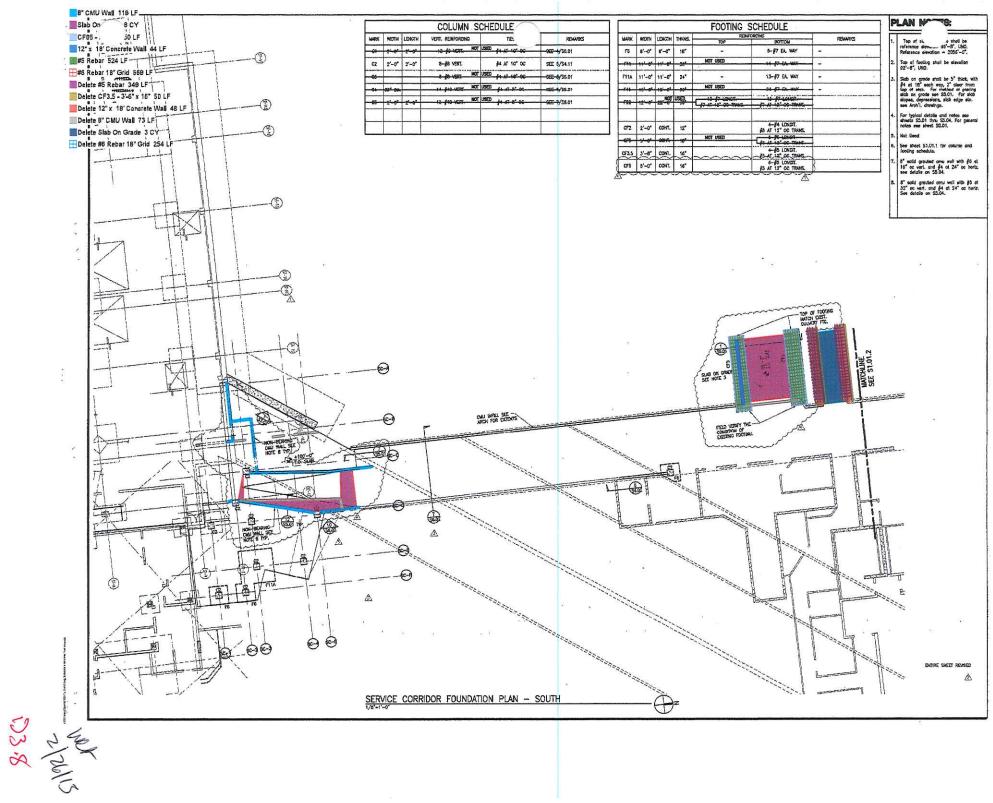
Square: A measurement of one hundred square feet used for large flat surface areas.

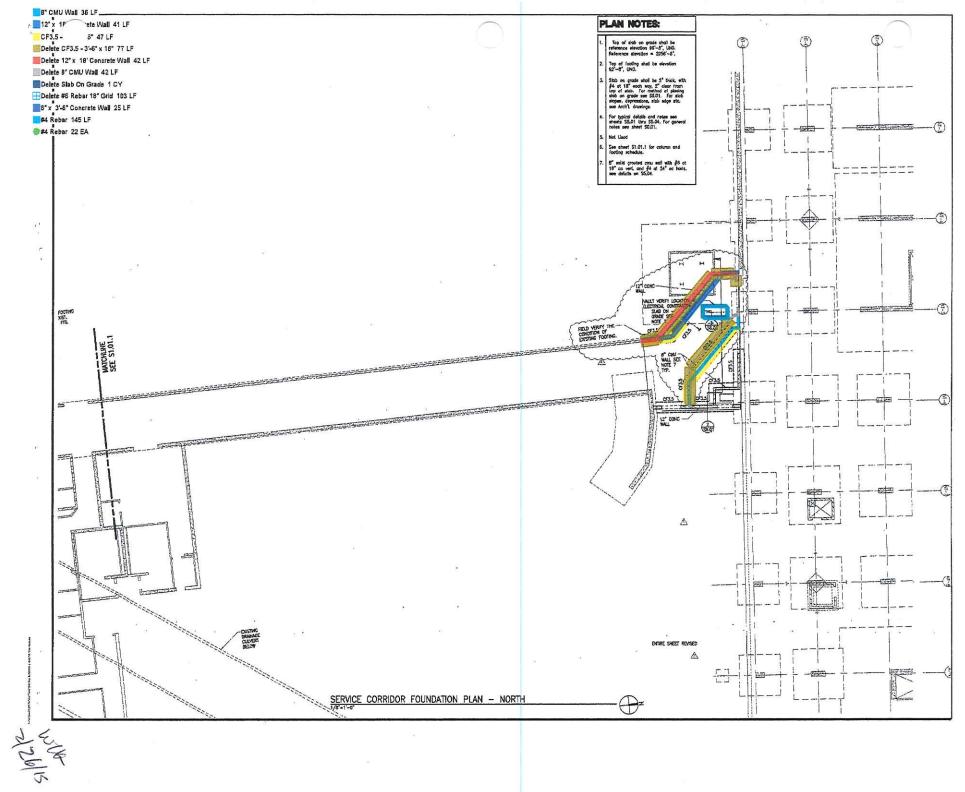
SECTION 11: LIST OF REFERENCES.

[1], [2] Avery, C., 1980, Concrete Construction and Estimating, Craftsman Book Company, Carlsbad, CA.

[3] NAVFAC P-405, 1996, Seabee's Planner's and Estimator's Handbook, Naval Facilities Engineering Command, Alexandria, Virginia.

[4] Atcheson, D., 1995, Roofing Construction and Estimating, Craftsman Book Company, Carlsbad, CA.

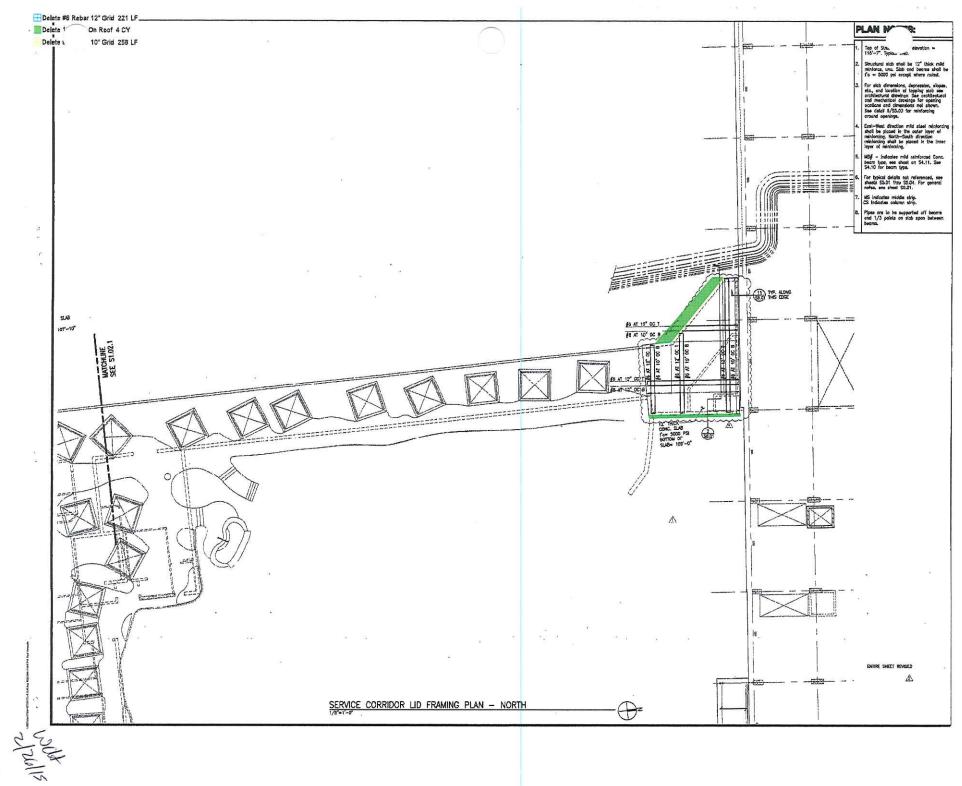




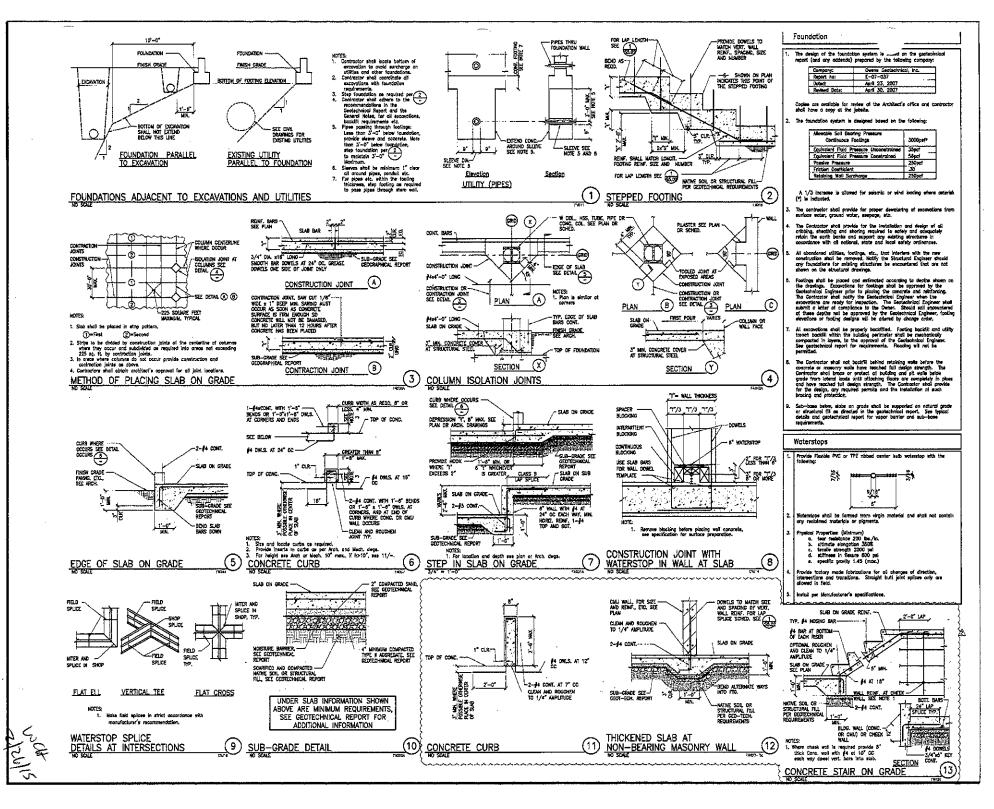
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September 18, 2014

Bliss Sports II, LLC c/o Thomas S. Fritzel 643 Massachusetts Street, Suite 300 Lawrence, Kansas 66044-2255

Re: Acknowledgement of Payment of "Infrastructure Improvements Costs"

Dear Thomas:

As of the date of this letter, the undersigned subcontractor/vendor/consultant acknowledges that it has received a total of <u>\$470,955.98</u> from Bliss Sports II, LLC, which represents hard or soft costs provided by the undersigned in connection with the development and/or construction of "Infrastructure Improvements" for the "Rock Chalk Park Project" (as those and other capitalized terms used in this letter are defined in the Rock Chalk Park Development Agreement amont the City of Lawrence, Kansas, RCP, LLC, Bliss Sports, LC and Bliss Sports II, LLC, datede July 10, 2013).

The undersigned and (by signing below) Bliss Sports II, LLC, agree that the above amount represents a portion of the following (a) "Infrastructure Improvement Costs" line items from Exhibit I to the Development Agreement, or (b) soft cost otherwise included in the definition of Infrastructure Improvements Costs under Section 11.02 of the Development Agreement and is allocable between the infrastructure Improvements on the stadium site and those elsewhere as follows:

Line item from Exhibit I / Includable **Rec Center Site** Soft Cost Under Section 11.02 Stadium Site Ś \$ \$ 31,000.00 \$ 69,000.00 Gould Evans \$ 13,640.00 \$ 30,360.00 Hoss & Brown \$ Landplan Engineering 23,856.36 \$ 53,099.62 \$ 77,500.00 \$ 172,500.00 **Paul Werner Architects** \$ Total 145,996.36 324,959.62

* Unless identifiable as physical work done or as materials provided on the stadium site or elsewhere, infrastructure Improvements Costs are to be allocated based on relative acreages of the Recreation Center Site (26) and the Stadium Site (57).

The undersigned certifies that none of the above amount(s) represents payment for hard or soft costs provided by the undersigned in connection with the development and/or construction of either the "Recreation Center" or the "Stadium Facilities" as defined in the Development Agreement.

Note: This memo was not included as AN Adjustment because the City of LAWRENCE WAS responsible for all of the infrastructure.

Stadium site in pastaline

DY.1

The undersigned has delivered, or contemporaneously is providing, to Bliss Sports II, LLC, a waiver of, and hereby waives, any mechanics or materialmens lien or KSA 60-1111 bond claim that the undersigned or its subcontractors and materialmen might otherwise be able to file for the above portions of the work and materials constituting infrastructure improvement Costs.

| Paul Werner Architects | _ |
|------------------------|---|
| $\neg D 0 0$ | |
| By: Eller | |
| Name: From WERRAR | |
| Title: Curran / port | |
| | |

22 day of Sca , 2014. Acknowledged and agreed this ____ Bliss Sports II, LLC

| By: | | | F | and Fina | | |
|--------|--------------|-----|---|----------|--|------|
| Name: | And a second | 1 / | X |] | | |
| Title: | | | | | | |

M4.2.

 \sim_{l}

gouldevans

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January 7, 2014

Mr. Thomas Fritzel **Bliss Sports** 643 Massachusetts Lawrence, KS 66044

Re: Additional Services

Dear Thomas,

This letter is to confirm that we received a check from Bliss Sports II in December, 2013 for \$100,000 for Rock Chalk Park.

If you need any additional information or have questions, please give me a call at 785-691-5888.

Sincerely,

John M. Wilkins Jr, Principal

706 MASSACHUSETTS STREET LAWRENCE, KS 66044

KANSAS CITY LAWRENCE PHOENIX TAMPA SAN FRANCISCO NEW ORLEANS WWW.GOULDEVANS.COM

1241 1241



January 7, 2014

Bliss Sports LLC Thomas Fritzel 209 Fall Creek Lawrence, KS 66049

To Whom It May Concern:

Payment was received from Bliss Sports for invoice number 13439, dated 7/1/2013 in the amount \$44,000 on 8/28/2013.

If you have any questions, please give me a call.

Sincerely,

Michelle Myers Office Manager

273 123



Civil Engineering Landscape Architecture Community Planning Surveying

1310 WAKARUSA DRIVE | LAWRENCE, KANSAS 66049 | 785.843.7530 (p) | 785.843.2410 (l) | info@landplan-pa.com

September 23, 2014

Thomas Fritzel PO Box 906 643 Massachusetts St., Suite 300 Lawrence, KS 66044

As of September 23, 2014, Landplan Engineering has been paid \$76,955.98 for work telated to infrastructure design at Rock Chalk Park, Lawrence, Kansas.

Christopher M. Storm, P.E.

÷

paulwerner

September 23, 2014

Bliss Sports, LLC c/o Thomas Fritzel Lawrence, Kansas

Re: Payments for Rock Chalk Park

Dear Thomas,

Our records indicate that through September 23, 2014, we have received payments totaling \$250,000.00 for our fees related to infrastructure work at Rock Chalk Park.

Sincerely,

Paul Werner

785.832.0804 • Fax: 785.832.0890 • Info@paulwernerarchitects.com Office: 123 W. 8th Street, Suite B2 • Lawrence, Kansas 66044 Mall: PO Box 1536 • Lawrence, Kansas 66044

McDonald and Associates King Construction Subcontract Cost Review

Scope: Review selected subcontractors and soft costs. Test against supporting documentation.

Work Performed: We reviewed all costs and subcontract/payment documentation related to King Construction subcontract and change orders.

NOTE: The auditor was provided with the Contract between DFC Company of Lawrence, LC (a subsidiary of Thomas Fritzel) and Kings Construction. This agreement was executed on 6/21/13

Section 4 of the contract establishes a price of \$8,506,948. The breakout of this amount is represented in column one (ORIGINAL CONTRACT VALUE).

| | | GINAL CONTRACT UE (Fritzel w/Kings | Bal | ance Per Payment | | Development reement Exhibit |
|----------------------------------|-----|---------------------------------------|-----|-------------------------|----|--------------------------------|
| Row Labels | VAL | Construction) | Dai | Applications | ~5 | I |
| General | \$ | 475,000.00 | \$ | 475,000.00 | \$ | 2,191,109.00 |
| Site Grading | \$ | 850,500.00 | \$ | 850,499.74 | \$ | 850,500.00 |
| Retention Ponds | \$ | 156,250.00 | \$ | 156,250.00 | \$ | 156,250.00 |
| Waterline | \$ | 468,061.65 | \$ | 468,062.05 | \$ | 468,061.65 |
| Sanitary Sewer | \$ | 162,842.50 | \$ | 162,842.10 | \$ | 162,842.50 |
| Storm Sewer | \$ | 82,688.75 | \$ | 82,688.62 | \$ | 82,688.75 |
| Rock Chalk Drive & George | | | | | | |
| Williams | \$ | 1,026,225.25 | \$ | 1,026,225.25 | \$ | 1,026,225.25 |
| Overflow Parking Lot | \$ | 68,200.00 | \$ | 68,200.00 | \$ | 68,200.00 |
| Parking Lot / Access Drives | \$ | 3,821,846.50 | \$ | 3,821,847.05 | \$ | 3,821,846.50 |
| Rock Chalk Lane and Rock Chalk | | | | | | |
| Parkway | \$ | 945,083.00 | \$ | 945,083.00 | \$ | 945,083.00 |
| Chip and Seal County Road | \$ | 18,000.00 | \$ | 2 2 . | \$ | 18,000.00 |
| Rec Center Pad | \$ | 432,250.00 | \$ | 432,250.00 | \$ | 432,250.00 |
| | | | | | | |
| Landscaping | | | | | \$ | 583,850.00 |
| Natural Trails and Eight Lighted | | | | | | |
| Tennis Courts | | | \$ | 213,565.00 ¹ | \$ | 1,214,520.00 |
| Parking Lot Lights | | | \$ | 401,805.00 ¹ | \$ | 240,000.00 |
| | | | | | | |
| Grand Total | \$ | 8,506,947.65 | \$ | 9,104,317.81 | \$ | 12,261,426.65 |

¹Change Order #1—3/31/14 Nature Walking Trails \$401,805 and Change Order #2—5/22/14 Tennis Courts \$213,565

Report #8

McDonald and Associates King Construction Subcontract Cost Review

Under section 5.2.2 Retainage is set at 5% of the monthly draw (billed) amount. This would be the amount that Fritzel withheld from King's construction to ensure work was completed (retainage is released upon final release of lien or lien waiver/attestation).

Section 6 of the subcontract document requires all changes to be in writing—and additions to the \$8,506,948 must be documented and agreed upon in writing between the subcontractor and contractor.

Conclusion: The city has already removed \$63,600 and \$43,565 from the payment for these items. Any pricing concerns of the audit are covered through these withheld amounts. In addition, the amounts paid are in excess of the amounts charged (\$12,261,426.65).

Wat 115 2/26/15

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NOTE:Preliminary Analysis of King Construction Agreement and Draw Review

| | | | | Draw 1 | | Draw 2 | Draw 3 | Draw 4 | Draw 5 | Draw 6 | Draw 7 | Draw 8 | Draw 9 | Draw 10 | Draw 11 | |
|-------------|---|-------------------------|----------------------------------|---------------|----------------------------|----------------------------------|-----------------------|--|-----------------------|-----------------|------------------|---------------|--------------------|---------------|---|--|
| TEM | DESCRIPTION | | sv | COMPLETED | WORK | | | | | 4 000 000 00 | 1 100 000 00 | | | | | TOTAL VA |
| | Mobilization | | | | | | | | | 5 300,000.00 | \$ 100,000.00 | | | | | |
| | Seeding | 4 | | \$ 20 | 00.000, | | | | | | | \$ 10,000.00 | | | | \$ 30,000.00 \$ |
| | Traffic Control | | | | | | | | | | | \$ 5,000.00 | | | | \$ 5,000.00 \$ |
| | Erosion Control | 4 | | | 00.000,00 | | | | | | | | | | | \$ 40,000.00 \$ |
| | Site Grading | | 850,500.00 | | ,299.00 | | \$ 235,160.00 | \$ 107,784.00 | \$ 158,256.00 | | | | | \$ 0.74 | | \$ 850,499.74 \$ |
| 150 | Retention Ponds | 1 | | \$ 156 | ,250.00 | | | | | | | | | - | 200000000000000000000000000000000000000 | \$ 156,250.00 \$ |
| 160 | Waterline | 1 | | | | | | \$ 116,521.00 | | \$ 51,769.00 | \$ 83,845.00 | \$ 50,169.00 | | \$ 0.05 | | \$ 468,062.05 \$ |
| 170 | Sanitary Sewer | 5 | 5 162,842.50 | | | | \$ 131,262.00 | \$ 31,580.00 | | | | | | \$ 0.10 | | \$ 162,842.10 \$ |
| 180 | Storm Sewer | 1 | \$ 82,688.75 | | | | | | | \$ 35,844.00 | | | | \$ 0.62 | | \$ 82,688.62 \$ |
| 190 | Rock Shalk DR/GWW | 1 | 5 1,026,225.25 | | | | \$ 7,967.00 | \$ 13,075.00 | | \$ 5,396.00 | \$ 335,562.00 | \$ 525,000.00 | \$ \$0,000.00 | \$ 89,225.25 | | \$ 1,026,225.25 \$ |
| | Overfolow Parking | | 68,200.00 | | | | | | | | | | | \$ 68,200.00 | | \$ 68,200.00 \$ |
| | Parking Lot/Access Roads | | 5 3,821,846.50 | | | | | \$ 60,828.00 | \$ 400,000.00 | \$ 1,659,372.00 | \$ 1,000,000.00 | \$ 500,000.00 | \$ 72,230.00 | \$ 129,417.05 | | \$ 3,821,847.05 \$ |
| | RC Lane/RC Pkwy-Private Streets | | \$ 945,083.00 | | | | | | | \$ 118,769.00 | \$ 505,000,00 | \$ 200,000.00 | \$ 50,000.00 | \$ 71,314.00 | | \$ 945,083.00 \$ |
| | Chipe and Seal County Road | Contraction of the | | Constanting | Care and | | Contraction of | Sand Section Production | and the second second | | | - | Contraction of the | and the state | | 5 - 51 |
| | Rec Center Pad | | | | | \$ 432,250.00 | | | | C. C. C. | | | | | | \$ 432,250.00 \$ |
| 240 | Rec Center Pad | | 452,250.00 | - | | 3 452,250.00 | | | | | | | | | | 5 . 5 |
| | | F | | | | | | | | | | | | | \$ 213,565.00 | |
| XTRA 2 | Tennis Courts | | | | | | | | | | | | | | | |
| XTRA 1 | Natural Walking Trails | | \$ 401,805.00 \$ 9,122,318.00 | 1 | 5,549.00 | | \$ 374,389.00 | \$ 329,788.00 | | 1 | | | L | | \$ 401,805.00 | \$ 401,805.00 \$ \$ 9,104,317.81 \$ 1 |
| heck Num | FROM Thomas Fritzel | XO | | | | TO Kings Construction Company | 2/14/2013 | | 65 01670/0602/000000 | | | | | | | \$ 18,000.19 |
| | Thomas Prize | N | bliss sports LC | | | | | | | | | | | | | |
| | Thomas Fritzel | 000 | biliss aports LC | | | Kings Construction Company | 2/14/2013 4/18/2013 | | | | | | | | | |
| | i Bliss Sports II LLC | MY . | A | | | Kings Construction Company | 4/18/2013 5/6/2013 | | | | | | | | | |
| | DFC Company of Lawrence, LC. | | e v | | | Kings Construction Company | | | | | | | | | | |
| | DFC Company of Lawrence, LC. | (m. 1 | N.M | | | Kings Construction Company | 5/9/2013 | | | | | | | | | |
| | . DFC Company of Lawrence, LC. | OULK' | 1 Mar | | | Kings Construction Company | 6/13/2013 | | | | | | | | | |
| 1010 | Bliss Sports II LLC | | 15 | | | Kings Construction Company | 6/21/2013 | | | | | | | | | |
| 1013 | Bliss Sports II LLC | - 000 | ~ | | | Kings Construction Company | 7/10/2013 | \$ 374,389.37 | | | | | | | | |
| 1017 | Bliss Sports II LLC | 1 | | | | Kings Construction Company | 8/2/2013 | \$ 329,788.16 | | | | | | | | |
| 1021 | Bliss Sports II LLC | • | | | | Kings Construction Company | 9/5/2013 | \$ 724,014.65 | | | | | | | | |
| | Bliss Sports II LLC | | | | | Kings Construction Company | 8/29/2013 | | | | | | | | | |
| | Bliss Sports II LLC | | | | | Kings Construction Company | 11/10/2013 | | | | | | | | | |
| | Bliss Sports II LLC | | | | | Kings Construction Company | 12/14/2013 | | | | | | | | | |
| | | | | | | Kings Construction Company | 12/27/2013 | | | | | | | | | |
| | Bliss Sports II LLC | | | | | | | | | | | | | | | |
| | Bliss Sports II LLC | | | | | Kings Construction Company | 4/10/2014 | | | | | | | | | |
| 1043 | Bliss Sports II LLC | | | | | Kings Construction Company | 9/22/2014 | | | | | | | | | |
| | | | | | | | | \$ 9,132,568.74 | 5 10,250.74 | \$ 28,250.93 | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | Numbers based on | | | | | | | |
| | | | | | | | | | October Memo final | | | | | | | |
| | | | | | | | | \$ 9,104,317,81 | cost Exhibit 1 | | | | | | | |
| | | | | | | | | \$ 1,860,667.80 | | PAID | | | | | | |
| | | | | | | | | 5 10,964,985.61 | | | \$ 11,760,093.03 | | | | | |
| | | | | | | | | 20,004,000,00 | | | \$ 11,100,000.00 | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | 10 | | | | | | | |
| ne followir | ng information comes directly from Exhibit I. The | e intent of this | data is to compa | re it against | King Con: | struction's draw information an | d determine | Information from | | | | | | | | |
| hat costs w | were included in the King Construction Contract | and what costs | s are outside the | King Constru | uction Ag | reement. | | Exhibit final Cost | | | | | | | | |
| | | | | - 11200 - F | 115 | | | Column | | | | | | | | |
| | | | | | | UNIT | TOTAL | | 1 | | | | | | | |
| ieneral | Mobilization | Station and the state | 15 | | A 100 | | \$ 400,000,00 | | | | | | | | | |
| | | And a second second | LS | | State of Lot of Lot of Lot | | \$ 225,000.00 | \$ 161,700.00 | | | | | | | | |
| ieneral | Construction Staking | | | 1 | | | | 101,700.00 | | | | | | | | |
| eneral | Seeding, Mulching & Fertilizing | Particular in printing | AC | 20 | | | \$ 30,000.00 | | | | | | | | | |
| eneral | Utilities Connection fees and expenses | | کا | 1 | | | \$ 55,000.00 | \$ 39,750.00 | | | | | | | | |
| eneral | Traffic Control | | 15 | 1 | | | \$ 5,000.00 | | | | | | | | | |
| eneral | Erosion & Sediment Control | | LS | | | | \$ 40,000.00 | | | | | | | | | |
| eneral | Legal Fees per Development Agreement | | LS | 1 | | \$ 167,836.00 | \$ 167,836.00 | \$ 212,535.81 | | | | | | | | |
| eneral | Loan origination fees for project financing | | LS | 1 | | | \$ 150,000.00 | | | | | | | | | |
| ieneral | Loan interest for project financing | | LS | 7 | | | \$ 309,515.00 | | | | | | | | | |
| | Construction Management fee 2.5% on \$11,35 | 0 317 65 | LS | Ĵ. | | | \$ 283,758.00 | | | | | | | | | |
| ieneral | | 0,317.03 | LS | 1 | | | \$ 525,000.00 | | LOOK AT DESIGN FEE | | | | | | | |
| eneral | Professional Engineering Fees | | 2 | 1 | | 3 525,000.00 | \$ 525,000,00 | 3 355,198.70 | LOOK AT DESIGN FEE | | | | | | | |
| | COVERED IN KING AGREEMENT | No. of Concession, Name | | | | | | | | | | | | | | |
| | | | | | | | | an anna an | | | | | | | | |
| TOTAL | CHARGED TO THE PROJECT NOT UNDER THE KIN | IG CONSTRUCT | ION CONTRACT: | | | | | \$ 1,860,667.80 | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

Vacation 15

NOTE: The following is a summary of costs paid (by Bliss II, Bliss Sports, Thomas F. and DFC) The table also shows a summary of attested costs per vendor. This was referenced throughout multiple workpapers.

| | | | | PAID | | |
|------------------------|--------|----------------|----|---------------|--------------------|-----------------|
| Row Labels | Sum of | Total Attested | Su | im of Amount | Unpaid | Overpaid |
| Alpha Omega Geotech | \$ | 84,242.72 | | | \$ 84,242.72 | |
| Approved Paving | \$ | 26,085.00 | \$ | 26,085.00 | \$ - | \$ • |
| Black Hills Energy | \$ | 39,750.00 | \$ | 39,750.00 | \$ - | \$ - |
| DFC Company | \$ | 1,403,716.33 | | | \$ 1,403,716.33 | \$ - |
| Earnies Mechanical | \$ | 305,530.00 | \$ | 305,530.00 | \$ | \$ - |
| Emprise Bank | \$ | 713,064.34 | | | \$ 713,064.34 | |
| Gould Evans | \$ | 100,000.00 | \$ | 100,000.00 | \$ | \$ - |
| Hoss & Brown | \$ | 44,000.00 | \$ | 44,000.00 | \$ - | \$ - |
| Kings Construction | \$ | 9,104,318.00 | \$ | 9,132,568.74 | \$ - | \$ 28,250.74 |
| Landplan Engineering | \$ | 76,955.98 | \$ | 77,513.49 | | \$ 557.51 |
| Mid America Courtworks | \$ | 526,600.00 | \$ | 526,600.00 | \$ - | \$ - |
| Paul Werner Architects | \$ | 250,000.00 | \$ | 250,000.00 | \$ - | \$ - |
| Poisinelli | \$ | 212,535.81 | | | \$ 212,535.81 | |
| Qualite | \$ | 325,000.00 | \$ | 325,500.00 | \$ - | \$ - |
| Grand Total | \$ | 13,211,798.18 | \$ | 10,827,547.23 | \$ 2,413,559.20 | \$ 28,808.25 |

welt 2/26/15 E2.2

| attestation that the amoun | Category | Rec | reation Center | 5 | tadium Site | Not | Categorized | Total Attested | Payments | Ck# | Date | Payment | CLAIMED BEYOND BAC |
|--|------------------------------------|-----------|-----------------------|-----|---------------------------------------|------|----------------|--|----------------------------|--------------|---|---|--------------------|
| DFC Company | Construction Staking | \$ | 50,127.00 | | 111,573.00 | 1100 | encegerizes | | | 0.0.0 | | | |
| DFC Company | Performance Bonds | s | 50,889.00 | | 232,112.13 | | | · · · · | | | | | |
| Poisinelli | Legal Fees | | | - | COMPANY OF THE OWNER OF THE | \$ | 212,535.81 | | | | | | |
| Emprise Bank | Loan Interest | - | Station and the state | 1 | | | 554,420.59 | | | | Contraction of the local distance | | \$ 394,60 |
| Emprise Bank | Loan Origination | William B | | | | | 151,500.00 | and the state of the second state of the | | | | | |
| Emprise Bank | Loan Origination UCC Filing Fees | | | | | s | 95.00 | a second a second second | | | | | |
| Emprise Bank | BG Consultants | | | | | s | 2,755.75 | | | | | | |
| Emprise Bank | Morris Laing Evans (IRB Cousel) | | | | | s | 4,293.00 | the second second second study | | | | | |
| Alpha Omega Geotech | Testing and Inspections | Ś | 26,115.24 | ¢ | 58,127.48 | 1 | ,, | and a second of the second sec | 6 | | | | |
| Gould Evans | Design | Ś | 31.000.00 | | 69,000.00 | | | | Bliss Sports II LLC | 1029 | 10/29/2013 | \$ 100,000.00 | |
| Hoss & Brown | Design | ŝ | 13,640.00 | | 30,360.00 | | Sec FE (21) | | Bliss Sports II LLC | 1015 | 7/19/2013 | | |
| Landplan Engineering | Design | ŝ | 23.856.36 | | 53,099.62 | | | | DFC Company of Lawrence | 49545 | 6/14/2013 | | |
| Landplan Engineering | Design | - | 20,000,00 | Ť., | 55,055,02 | | i destila | S CONTRACTOR OF CONTRACT | DFC Company of Lawrence | 49359 | 5/6/2013 | | |
| Landplan Engineering | Design | | | | | | Section France | | Bliss Sports LC | 1930 | 10/26/2013 | | |
| Landplan Engineering | Design | | | | · · · · · · · · · · · · · · · · · · · | | | | Bliss Sports LC | 1005 | 10/11/2012 | | |
| Landplan Engineering | Design | | | | | | EV BAR | | Bliss Sports LC | 1007 | 10/18/2012 | | |
| Landplan Engineering | Design | | | | | | | | Thomas Fritzel | 1526 | 6/30/2013 | | |
| Landplan Engineering | Design | | | | | | State of the | | Thomas Fritzel | 1513 | 4/10/2013 | | |
| | Design | | | | | | | | Thomas Fritzel | 1501 | 2/14/2013 | | |
| Landplan Engineering | | | | | | | i i nin seeks | | Kansas Secured Title | 42656 | 12/21/2012 | | |
| Landplan Engineering Landplan Engineering | Design | | | | | | | | Bliss Sports LC | 3875 | 6/10/2014 | | |
| | Design | | | | | | | | Bliss Sports LC | 4206 | 7/30/2014 | and the second se | |
| Landpian Engineering | Design | s | 77,500.00 | • | 172,500.00 | | | | Bliss Sports LC | 1021 | 1/24/2013 | | |
| Paul Werner Architects | Design | ¢ | 77,500.00 | 2 | 172,500.00 | | | 5 01976994CAUGUED-ALORA | Bliss Sports II LLC | 1028 | 10/29/2013 | | |
| Paul Werner Architects | Design | | | | | | t all and dit. | | Thomas Fritzel | 1508 | 2/14/2013 | | |
| Paul Werner Architects | Design | | | | | | See . | 8 | Bliss Sports LC | 4060 | 7/2/2014 | | |
| Paul Werner Architects | Design | | 124 000 00 | | 176 000 00 | | 3333 A 34 | | Thomas Fritzel | 1502 | 2/14/2013 | the second second second second second | |
| Kings Construction | Mobilization | \$ | 124,000.00 | | 276,000.00 | | | D. 100 States and 100-3 | Thomas Fritzel | 1502 | 2/14/2013 | | |
| Kings Construction | Seeding | \$ | 9,300.00 | | 20,700.00 | | | | Bliss Sports II LLC | 1006 | 4/18/2013 | | |
| Kings Construction | Traffic Control | \$ | 1,550.00 | | 3,450.00 | | 100 | | | | 10 10 10 10 10 10 10 10 10 10 10 10 10 1 | | |
| Kings Construction | Erosion Control | \$ | 12,400.00 | | 27,600.00 | | | | DFC Company of Lawrence, L | | 5/6/2013 | | |
| Kings Construction | Site Grading | \$ | 263,655.00 | | 586,845.00 | | | | DFC Company of Lawrence, L | | 5/9/2013 | | |
| Kings Construction | Retention Ponds | \$ | 48,437.50 | | 107,812.50 | | 이번 동안 공기에 가지? | | DFC Company of Lawrence, L | | 6/13/2013 | | |
| Kings Construction | Waterline | \$ | 163,821.70 | | 304,240.30 | | | A STATE OF A STATE OF A STATE OF | Bliss Sports II LLC | 1010 | 6/21/2013 | | |
| Kings Construction | Sanitary Sewer | \$ | 50,481.17 | | 112,361.33 | | AND BAR | and a second second second second | Bliss Sports II LLC | 1013 | 7/10/2013 | 승애님도도 아이님께서 걸려갈 것 같아요. ㅎㅎㅎㅎ | |
| Kings Construction | Storm Sewer | \$ | 41,344.37 | | 41,344.38 | | | to a second state of the s | Bliss Sports II LLC | 1017 | and the state of the | \$ 329,788.16 | |
| Kings Construction | Rock Shalk DR/GWW | | | \$ | 1,026,225.25 | | | | Bliss Sports II LLC | 1021 1027 | | \$ 724,014.65 | |
| Kings Construction | Overfolow Parking | | | \$ | 68,200.00 | | | Sector and the sector of the | Bliss Sports II LLC | | | \$ 2,171,150.34 | |
| Kings Construction | Parking Lot/Access Roads | \$ | 1,816,400.25 | \$ | 2,005,446.25 | | | | Bliss Sports II LLC | 1032 | | \$ 2,070,048.74 | |
| Kings Construction | RC Lane/RC Pkwy-Private Streets | | | \$ | 945,083.00 | | | | Bliss Sports II LLC | 1035 | | \$ 1,291,371.00 | |
| Kings Construction | Chipe and Seal County Road | | | | | | | | Bliss Sports II LLC | 1036 | | \$ 172,229.69 | |
| Kings Construction | Rec Center Pad | \$ | 432,250.00 | | | | Received | | Bliss Sports II LLC | 1038 | 4/10/2014 | | |
| Kings Construction | Natural Walking Trails | \$ | 401,805.00 | | | | | | Bliss Sports II LLC | 1043 | 9/22/2014 | \$ 615,370.00 | |
| Kings Construction | Tennis Courts | \$ | 213,565.00 | | | | 1. 5. 1. 1. | a see se a accordence a se | | | - / | | |
| Mid America Courtworks | Tennis Courts | \$ | 526,600.00 | | | | 124.6.1 | 2 | Bliss Sports LC | 4170 | 7/30/2014 | | |
| Mid America Courtworks | Tennis Courts | | | | | | | | Bliss Sports II LLC | 1042 | 9/22/2014 | | |
| Black Hills Energy | Gas Line Extension | 1 - B | | 1. | | \$ | 39,750.00 | 8 · · · · · · · · · · · · · · · · · · · | Bliss Sports II LLC | 1030 | 11/9/2013 | | |
| Earnies Mechanical | Parking Lights | \$ | 30,000.00 | \$ | 30,000.00 | | | | Bliss Sports II LLC | 1039 | 7/19/2014 | | |
| Earnies Mechanical | Tennis Lights | \$ | 24,000.00 | | | | 196531 1992 | E | Bliss Sports II LLC | 1020 | 9/5/2013 | Contraction of the second second | |
| Earnies Mechanical | Site Utilities | \$ | 110,765.00 | | 110,765.00 | | 医含白色的 里 | | Bliss Sports II LLC | 1037 | 2/6/2014 | | |
| Qualite | Parking Lights | \$ | 86,000.00 | \$ | 86,000.00 | | | | Bliss Sports II LLC | 1031 | 11/10/2013 | \$ 325,500.00 | |
| Qualite | Tennis Lights | \$ | 153,000.00 | | | | | | | | | | |
| DFC Company | Trees | \$ | 131,812.00 | | 293,388.00 | | 1 | | | | | | |
| DFC Company | Shrubs | \$ | 21,239.65 | \$ | 47,275.35 | | | 68,515.00 | | | | | |
| DFC Company | Entry Sign | 21 | | \$ | 53,200.00 | | 12 | | | | | | |
| DFC Company | Irrigation | \$ | 78,312.26 | | 174,307.94 | | 13 | 252,620.20 | | | | | |
| DFC Company | Miscellaneous Added Trees to Scope | \$ | 49,438.80 | \$ | 110,041.20 | | 3 | 159,480.00 | | | | | |
| UN A NE | | | | | | | | | | | | | |

| Approved Paving | Chipe and Seal County Road | \$ | 26,085.00 | \$ | 26,085.00 Bliss Sports II LLC | 1041 |
|------------------|----------------------------|----|-----------|----|-------------------------------|------|
| Approved Lotting | chipe one sear county node | ÷ | 20,000100 | Ľ | | |

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122/26/15

9/3/2014 \$ 26,085.00

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| PAY | 'MENT | DETAIL |
|-----|-------|---------------|
|-----|-------|---------------|

| Payments | Ck # | Date | Payment |
|------------------------------|-------|------------|---------------------|
| Bliss Sports LC | 1005 | 10/11/2012 | \$ 15,225.54 |
| Bliss Sports LC | 1007 | 10/18/2012 | \$ 6,000.00 |
| Kansas Secured Title | 42656 | 12/21/2012 | \$ 6,125.00 |
| Bliss Sports LC | 1021 | 1/24/2013 | \$ 50,000.00 |
| Thomas Fritzel | 1501 | 2/14/2013 | \$ 17,353.37 |
| lhomas Fritzel | 1508 | 2/14/2013 | \$ 75,000.00 |
| Thomas Fritzel | 1502 | 2/14/2013 | \$ 21,267.00 |
| Fhomas Fritzel | 1507 | 2/14/2013 | \$ 30,755.44 |
| Thomas Fritzel | 1513 | 4/10/2013 | \$ 21,653.57 |
| Bliss Sports II LLC | 1006 | 4/18/2013 | \$ 80,109.76 |
| DFC Company of Lawrence | 49359 | 5/6/2013 | \$ 4,179.27 |
| DFC Company of Lawrence, LC. | 49363 | 5/6/2013 | \$ 223,365.74 |
| DFC Company of Lawrence, LC. | 49369 | 5/9/2013 | |
| DFC Company of Lawrence, LC. | 49521 | 6/13/2013 | |
| DFC Company of Lawrence | 49545 | 6/14/2013 | \$ 1,341.54 |
| Bliss Sports II LLC | 1010 | 6/21/2013 | \$ 432,250.00 |
| Thomas Fritzel | 1526 | 6/30/2013 | \$ 1,320.00 |
| Bliss Sports II LLC | 1013 | 7/10/2013 | \$ 374,389.37 |
| liss Sports II LLC | 1015 | 7/19/2013 | \$ 44,000.00 |
| liss Sports II LLC | 1017 | 8/2/2013 | \$ 329,788.16 |
| Bliss Sports II LLC | 1027 | 8/29/2013 | \$ 2,171,150.34 |
| Bliss Sports II LLC | 1021 | 9/5/2013 | \$ 724,014.65 |
| Bliss Sports II LLC | 1020 | 9/5/2013 | \$ 199,377.00 |
| Bliss Sports LC | 1930 | 10/26/2013 | 2,203.24 |
| Bliss Sports II LLC | 1029 | 10/29/2013 | \$ 100,000.00 |
| Bliss Sports II LLC | 1028 | 10/29/2013 | \$ 100,000.00 |
| Bliss Sports II LLC | 1030 | 11/9/2013 | 39,750.00 |
| Bliss Sports II LLC | 1032 | 11/10/2013 | 2,070,048.74 |
| Bliss Sports II LLC | | 11/10/2013 | |
| Bliss Sports II LLC | | 12/14/2013 | |
| Bliss Sports II LLC | 1036 | 12/27/2013 | \$ 172,229.69 |
| liss Sports II LLC | 1037 | 2/6/2014 | \$ 22,153.00 |
| liss Sports II LLC | 1038 | 4/10/2014 | \$ 358,157.81 |
| liss Sports LC | 3875 | 6/10/2014 | 1,176.96 |
| Bliss Sports LC | 4060 | 7/2/2014 | \$ 25,000.00 |
| Bliss Sports II LLC | 1039 | 7/19/2014 | \$ 84,000.00 |
| Bliss Sports LC | 4206 | 7/30/2014 | \$ 935.00 |
| Bliss Sports LC | 4170 | 7/30/2014 | 143,500.00 |
| Bliss Sports II LLC | 1041 | 9/3/2014 | \$ 26,085.00 |
| Bliss Sports II LLC | 1043 | 9/22/2014 | \$ 615,370.00 |
| Bliss Sports II LLC | 1042 | 9/22/2014 | 383,100.00 |
| | | - | \$ 10,827,547.23 |
| AYMENT BREAKOUT | | | |

PAYMENT BREAKOUT

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(

| \$ 9,942,844.52 |
|-----------------|
| \$ 467,187.89 |
| \$ 244,040.74 |
| \$ 167,349.38 |
| \$ 6,125.00 |
| |

12/26/15 12/26/15

Scope: Test legal fees to determine if the direct cost of the fees related to (or directly benefited) the project (recreation center and infrastructure).

Work Performed: We analyzed (in detail) the first 7 billings for legal fees (\$135k of the total charged). The reason these were selected was because it was prior to Bliss Sports II being created---and the greatest opportunity for non-City related work being charged.

From May 2013 forward, we physically went through each billing listed on the November 5, 2014 Memo from Polsinelli Law Firm, but did not capture the detail in this working paper. From May 2013 forward, we ensured that the description on the billing fit in line with what we would expect to see on the development project (costs benefiting the city)--Those that did not we identified for further review.

| | Jul-12 \$ | 17 555 00 | | | | |
|---------------|--|---|--|-------|---------------------------------------|-------------------------|
| | the second s | 17,566.00 | | | | |
| | Aug-12 \$ | 15,492.61 | | | | |
| | Sep-12 \$ | 35,208.00 | | | | |
| | Oct-12 \$ | 11,705.50 | | | | |
| | Nov-12 \$ | 506.08 | Detail Testing Below | | | |
| Second Second | Dec-12 \$ | - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 | | | | |
| | Jan-13 \$ | 1993 (S | | | | |
| | Feb-13 \$ | 23,833.00 | | | | |
| 1.2.2.2.2. | Mar-13 \$ | 30,847.75 | | | | |
| | Apr-13 \$ | 5,276.50 | 4/8/13 Looked at endowment construction contract addendum and architects fee 2.2 hours \$ | \$825 | \$ 825.00 | CONTRACTING ISSUES |
| | | | 4/12/13 AIA document review RCP, LLC \$527 | | \$ 527.00 | |
| | | | 4/13/13 AIA Documents Review \$660 | 4 | \$ 660.00 | |
| | | | 4/17/13 Review of AIA 103 and A201 GCs \$310 | 1 | \$ 310.00 | |
| | | | 4/18/13 RCP Construction MGT agreement review \$660 | 5 | \$ 660.00 | CONTRACTING ISSUES |
| | | | 4/24/13 Review loan documents \$1232 | | \$ 1,232.00 | FINANCING/CORP. STRUCTU |
| | | | <i>y</i> = <i>y</i> == ······ | | \$ 4,214.00 | |
| | May-13 \$ | 12 295 00 | 5/3/13 Emprise Loan and Policy Alternatives \$132 | | \$ 132.00 | FINANCING/CORP. STRUCTU |
| | Widy-10 \$ | 12,255.00 | 5/6/13 Organized bills regarding loan status \$660 | 103 | · · · · · · · · · · · · · · · · · · · | FINANCING/CORP. STRUCTL |
| | | | 5/8/13 Worked on loan documents \$1100 | | | FINANCING/CORP. STRUCTU |
| | | | 5/16/13 Reviewed articles from Lawrence Journal World \$1320 | | | NEWSPAPER/PR |
| | | | | 1.12 | | NEWSPAPER/PR |
| | | | 5/17/13 Conferences with Lawrence Journal World \$440 | | \$ 3,652.00 | NEWSPAPEIYPR |
| | | | | | | |
| | Jun-13 \$ | 10,951.00 | 6/4/13 Review press release \$660 | | \$ 660.00 | NEWSPAPER/PR |
| | | | NOTE: on 6/21/13 They discussed audit requirements under contract between RCP, LLC, Blis | | | |
| | | | 6/27/13 Review of KU Sublease and assessment waiver \$150 | | | KU ENDOWMENT SPECIFIC |
| | | | | | \$ 810.00 | |
| | Jul-13 \$ | 22,361.00 | 7/2/13 Newspaper Article meeting \$880 | | | NEWSPAPER/PR |
| | | | 7/3/13 Changes to construction fee application \$660 | | \$ 660.00 | |
| | | | 7/24/13 AIA Addendum Review \$440 | - | \$ 440.00 | |
| | | | 7/29/13 AIA Addendum revisions \$660 | 5 | \$ 660.00 | |
| | | | 7/30/13 Organized final construction mgt. agreement \$132 | 4 | \$ 132.00 | |
| | | | | 5 | \$ 2,772.00 | |
| | Aug-13 \$ | 16,065,48 | NOTE: on 8/2/13 discussed drafting subcontract between Bliss II and DFC | | | |
| | | | 8/6/13 AIA Document review \$660 | | \$ 660.00 | |
| | | | 8/7/13 AIA Document review \$440 | | \$ 440.00 | |
| | | | | | \$ 1.100.00 | |
| | Sep-13 \$ | 6 212 39 | NO BACKUP SUPPORTING TIME FOR THIS PERIOD | | | |
| | Oct-13 \$ | 0,210.00 | | | | |
| | Nov-13 \$ | | Tested without exception | | | |
| | Dec-13 \$ | | Tested without exception | | | |
| | Jan-14 \$ | 138.00 | resteu without exception | | | |
| | | 1 451 00 | | | | |
| | Feb-14 \$ | | NO BACKUP SUPPORTING TIME FOR THIS PERIOD | | | |
| - | Mar-14 \$ | | Tested without exception | | | |
| 4 | Apr-14 \$ | | Tested without exception | | | 121 |
| | May-14 \$ | 1,015.50 | NOTE REVIEWED LIEN STATEMENT FROM KING ON 4/8/14 4/23/14 Review AIA A101 between City of Lawrence and Gene Fritzelshould this cost be o | | | |
| 25 | | | | | | |

N Page 1 of 2

| Jun-14 | Ś | | |
|--------|----|--------------|--------------------------|
| Jul-14 | | : <u>-</u> : | |
| Aug-14 | \$ | 598.00 | Tested without exception |
| Sep-14 | \$ | (1) | |
| • | \$ | 212,535.81 | \$ |
| | | | s |

| 132,924.73 | 24367.89 |
|------------|----------|
| 108,556.84 | |

Donald

Inter

`ssociates view

| A total o | f \$79,611.08 was | billed from Bliss Foundation of Lawrence (before the creation of Bliss Sports II). |
|-----------|--|--|
| he follo | wing looks at the | components of the transaction details for the period prior to Bliss Sports II. The following costs we consider |
| | | to infrastructure or recreation center costs: |
| \$ | 11,301.00 | TAX |
| \$ | 21,621.00 | FINANCING/CORP. STRUCTURE |
| \$ | 4,338.00 | KU SPECIFIC ISSUES |
| \$ | 37,260.00 | |
| | | |
| | rom Feb-Mar 20 | 3 included detail that did not appear directly related to the project. |
| \$ | 2,442.00 | TAX |
| \$ | 1,760.00 | NEWSPAPER/PR |
| \$ | 3,430.00 | FINANCING/CORP. STRUCTURE |
| \$ | 1,012.50 | MAINTENANCE |
| \$ | 8,644.50 | |
| The Falls | | otential problems from April 2013 to September 2014we examined the billing descriptions and determine that these items |
| | | the scope of direct construction costs. |
| were po | itentially outside | ne scope of direct construction costs. |
| \$ | 1,485.00 | CONTRACTING SPECIFIC ISSUES (NEGOTIATION OF ARCHITECT FEE, CORPORATE RISK MANAGEMENT |
| \$ | | FINANCING/CORP. STRUCTURE |
| \$ | CONCERNING AND | NEWSPAPER/PR |
| \$ | | KU ENDOWMENT SPECIFIC ISSUE |
| \$ | 7,664.39 | BILLNGS LACKED DETAILED BACKUP OR SUPPORT |
| \$ | 15,723.39 | |

CONSLUSION:

If the development agreement is strictly followed, then Bliss Foundation of Lawrence costs are not defined as "soft costs" to the project. This calls into question \$79,611.08

If Bliss Foundation costs are allowable--we still have questions regarding \$37,260 in costs applied to this project because they seem to fit outside the agreement's terms and conditions.

The billings under Bliss Sports II (Outlined as Reimbursable in the Development Agreement—had some amounts that may have been ancillary to the project (not directly related) and mostly related to one of the Fritzel businesses or advice on how to conduct business. In addition, a few of the most recent billings lacked detail supporting the costs. This adds up to the following:

 Billings Feb-Mar 2013
 \$ 8,644.50

 Billings Apr-Sept 2014
 \$ 15,723.39

 \$ 24,367.89

Report Appandis A

Page 2 of 2

WORK PERFORMED: The following data came directly from the Emprise Bank Disclosure on the project's financing. Since this is a Federally insured entity, we are confident that the reporting and systems are accurate enough to provide sufficient detail. The components of these costs were reviewed and compared against the amounts billed to the project.

OBSERVATIONS FROM EMPRISE REPORT ON INTEREST AND PRINCIPLE: Colors correspond to expense summaries listed below the table.

| Date Description | | action Amount | | Principle | | Interest | Pri | inciple Balance | | Marker |
|---|-------------------|-------------------|-------|---|----|--------------|--------|--|-----|---------|
| 9-May-13 Original Rate Aay 9, 2013 NEW NOTE | Ś | est Rate: 4.1250% | \$ | | | | ć | 2 | | |
| 9-May-13 UCC FILING FEES | ŝ | 95.00 | | 95.00 | | | ç | 95.00 | | |
| | e e | 150,000.00 | | 150,000.00 | | | è | 150,095.00 | | |
| 9-May-13 LOAN ORIGINATION FEE 10-May-13 ADV TO DDA "6674 | ې د | 1,535,000.00 | 12.01 | 1,535,000.00 | | | ç | 1,685,095.00 | * | |
| | ç | 5,730.12 | | 1,555,000.00 | \$ | 5,730.12 | ç | 1,685,095.00 | | 138,912 |
| un 05, 2013 Payment - Extra To Principal | э с | | | 211.00 | ÷ | 5,750.12 | ç c | S | Ş | 156,512 |
| un 18, 2013 BG Consultants 6-12-13 Invoice | 2 | 211.00 | | 211.00 | | | ç | 1,685,306.00 | | |
| un 19, 2013 Attorney fee to Morris Laing Evans Brock& | \$ | 1,512.00 | 2 | 1,512.00 | | | ç | 1,686,818.00 | | |
| Kennedy inv dtd 4-30-13 | | 1 017 00 | * | 1 017 00 | | and an and a | ç | 1,686,818.00 | | |
| un 19, 2013 Attorney Fee to Morris Laing Evans Brock& | \$ | 1,917.00 | 2 | 1,917.00 | | S. MARCHINE | Ş | 1,688,735.00 | | |
| Kennedy inv dtd 5-31-13 | | | | 4 007 050 00 | | | Ş | 1,688,735.00 | w., | |
| un 28, 2013 Draw 2 to dda xxxx6674 | \$ | 1,037,250.00 | | 1,037,250.00 | | | > | 2,725,985.00 | | 420 200 |
| Jul 05, 2013 Payment - Extra To Principal | Ş | 5,721.40 | | - la | \$ | 5,721.40 | Ş | 2,725,985.00 | Ş | 138,700 |
| Jul 10, 2013 Draw for BG Consultants invoice 7-8-13 | \$ | 204.50 | | 204.50 | | | Ş | 2,726,189.50 | | |
| ug 07, 2013 Payment - Extra To Principal | Ş | 10,840.42 | | - | Ş | 10,840.42 | Ş | 2,726,189.50 | | 262,798 |
| ug 28, 2013 Draw #3 to dda xxxx6674 | Ş | 1,267,000.00 | | 1,267,000.00 | | | \$ | 3,993,189.50 | | |
| ep 12, 2013 Payment - Extra To Principal | \$ | 9,550.99 | | | Ş | 9,550.99 | 1.1 | 3,993,189.50 | | 231,539 |
| ep 13, 2013 Attorney bill Morris Laing Evans Brock & | \$ | 324.00 | Ş | 324.00 | | | \$ | 3,993,513.50 | \$ | |
| Kennedy Invoice 210579 8-31-13 | | | | han manana ana ana ana ana ana ana ana an | | | Ş | 3,993,513.50 | | |
| ep 19, 2013 Draw for BG Consultants Inv 9-10-13 | \$ | 496.00 | | 496.00 | | | Ş | 3,994,009.50 | | |
| Oct 02, 2013 Draw #4 to dda xxxx6674 | \$ | 1,761,582.34 | | 1,761,582.34 | | | \$ | 5,755,591.84 | | |
| Oct 02, 2013 Payment - Extra To Principal | \$ | 15,258.87 | | - | \$ | 15,258.87 | \$ | 5,755,591.84 | \$ | 369,912 |
| Oct 08, 2013 Draw for BG consultants inv 10.4-13 | \$ | 80.50 | \$ | 80.50 | | a Charles | \$ | 5,755,672.34 | | |
| Oct 17, 2013 Attorney Bill Morris Laing Evans Brock | \$ | 540.00 | \$ | 540.00 | | | \$ | 5,756,212.34 | | |
| &Kennedy Invoice dtd 9-30-13 | | | | | | | \$ | 5,756,212.34 | | |
| Oct 31, 2013 Draw to wire funds for IRBs | \$ | 8,028,787.66 | \$ | 8,028,787 <mark>.</mark> 66 | | | \$ | 13,785,000.00 | | |
| Oct 31, 2013 Wire from Bank of Oklahoma for IRBs | | 8,028,787,66 | \$ | 8,028,787. <mark>6</mark> 6 | | | \$ | 5,756,212.34 | | |
| ov 08, 2013 Draw #5 to dda xxxx6674 | \$ | 2,123,700.00 | \$ | 2,123,700 <mark>.</mark> 00 | | | \$ | 7,879,912.34 | * | |
| ov 19, 2013 Automatic Late Charge | \$ | 1,077.97 | | | | | \$ | 7,879,912.34 | | |
| ov 26, 2013 Payment - Extra To Principal | \$ | 21,559.54 | \$ | - | \$ | 21,559.54 | \$ | 7,879,912.34 | \$ | 522,655 |
| ec 02, 2013 WAIVED LATE CHARGE PER RHONDA | \$ | 1,077.97 | \$ | - | | | \$ | 7,879,912.34 | | |
| SCOTT | | | | | | | \$ | 7,879,912.34 | | |
| ec 09, 2013 Payment - Extra To Principal | \$ | 26,956.14 | \$ | - | | | \$ | 7,879,912.34 | | |
| ec 13, 2013 Draw for BG Consultant inv 11-7-13 | | 335,00 | \$ | 335.00 | | | \$ | 7,880,247.34 | | |
| ec 17, 2013 Draw for BG Consultants Inc. invoice dtd | \$ | 248.00 | \$ | 248.00 | | | \$ | 7,880,495.34 | | |
| 12/6/13 | | | | | | | \$ | 7,880,495.34 | | |
| ec 17, 2013 Draw #5 to wire to Bank of Oklahoma | \$ | 1,450,978.00 | \$ | 1,450,978.00 | | | \$ | 9,331,473.34 | * | |
| an 06, 2014 Payment - Extra To Principal | 35 | 31,379,88 | \$ | | | 31,379.88 | \$ | 9,331,473.34 | | 760,724 |
| | | | | | | | 1 | an a | 20 | |
| an 14, 2014 Draw for BG Consultants Invoice dtd 1-8-14 | \$ | 120.75 | \$ | 120.75 | | | \$ | 9,331,594.09 | | |
| an 31, 2014 Draw #7 wire to Bank of Oklahoma | | \$950,000.00 | Ś | 950,000.00 | | | s | 10,281,594.09 | * | |
| | | \$32,692.46 | | 220,000,000 | | 32,692.46 | - S | 10,281,594.09 | | 792,544 |

1=2.1

| Feb 13, 2014 Draw for BG Consultants Inc. Invoice dtd | \$785.00 | \$ 785.00 | | \$ 10,282,379.09 | |
|---|----------------|--------------------------------|-----------------|------------------------|----------|
| 2/7/14 | | | | \$ 10,282,379.09 | |
| Mar 05, 2014 Payment - Extra To Principal | \$33,503.29 | \$ - | \$ 33,503.29 | \$ 10,282,379.09 \$ | 812,20 |
| Apr 03, 2014 Draw 8 to Bank of Oklahoma | \$1,232,000.00 | \$ 1,232,000.00 | | \$ 11,514,379.09 * | |
| Apr 21, 2014 Payment - Extra To Principal | \$36,023.53 | \$ - | \$ 36,023.53 | \$ 11,514,379.09 \$ | 873,29 |
| May 5, 2014 Interest Payment | \$39,873.87 | | \$ 39,873.87 | \$ 11,514,379.09 \$ | 966,63 |
| May 7, 2014 Draw #9 wire to Bank of Oklahoma | \$1,240,000.00 | \$ 1,240,000.00 | | \$ 12,754,379.09 * | |
| May 9, 2014 Rate Change | Interest Rate | 4.1250% | | | |
| May 9, 2014 ORIGINATION FEE | \$1,500.00 | \$ 1,500.00 | | \$ 12,755,879.09 | |
| 9-May-14 Note Renewal | \$0.00 | \$ - | | \$ 12,755,879.09 | |
| 16-May-14 Draw for BG Consultants Inc. kw dtd 5-6-14 | \$275.00 | \$ 275.00 | | \$ 12,756,154.09 | |
| Jun 10, 2014 Draw for interest payment | \$46,411.89 | \$ 46,411.89 | | \$ 12,802,565.98 ** | |
| Jun 10, 2014 Regular Payment | \$46,411,89 | \$ - | \$ 46,411.89 | \$ 12,802,565.98 \$ | 1,125,13 |
| Jul 14, 2014 Advance for loan payment | \$43,405.96 | | \$ 43,405.96 | \$ 12,845,971.94 \$ | 1,052,26 |
| Jul 14, 2014 Regular Payment | \$43,405,96 | \$ - | \$ 43,405.96 | \$ 12,845,971.94 \$ | 1,052,26 |
| Aug 05, 2014 Advance for Interest payment | \$44,985.27 | | \$ 44,985.27 | \$ 12,890,957.21 \$ | 1,090,55 |
| Aug 05, 2014 Regular Payment | \$44,985.27 | \$ - | \$ 44,985.27 | \$ 12,890,957.21 \$ | 1,090,55 |
| Sep 19, 2014 Advance for payment | \$45,187.91 | | \$ 45,187.91 | \$ 12,936,145.12 \$ | 1,095,46 |
| Sep 19, 2014 Regular Payment | \$45,187.91 | \$ - 21 | \$ 45,187.91 | \$ 12,936,145.12 \$ | 1,095,46 |
| Oct 20, 2014 Automatic Late Charge | \$2,190.64 | | | \$ 12,936,145.12 | |
| Oct 27, 2014 Draw for Interest payment | \$43,812.88 | \$ 43,812. <mark>8</mark> 8 | | \$ 12,979,958.00 ** | |
| Oct 27, 2014 WAIVE LATE CHARGE | \$2,190.64 | | | \$ 12,979,958.00 | |
| Oct 27, 2014 Regular Payment | \$43,812.88 | \$ | \$ 43,812.88 | \$ 12,979,958.00 \$ | 1,062,13 |

ASSOCIATES

RATE ANALYSIS

ONALD /

ISE INT

RCP/

| | 5 | | \$ 599,517.42 |
|----------------------|---------------------|----------|---|
| COLOR CODED EXPENSES | | | - |
| UCC FILING FEES | \$ 95.00 | | \$ 95.00 |
| LOAN ORIGINATION FEE | \$ 150,000.00 \$ | 1,500.00 | \$ 151,500.00 |
| BG Consultants | \$ 2,755.75 | | \$ 2,755.75 |
| Attorney Fee | \$ 4,293.00 | | \$ 4,293.00 |
| | | | \$ 158,643.75 This amount ties to the Loan Origination Fees for project financing |

| LOAN PRINCIPLE DRAWS | | CH | IECKS PAID | VARIANCE | |
|---|---------------------|----------|---------------|--------------------|---------------------------|
| \$ | 12,597,510.34 | \$ | 10,827,547.23 | \$ 1,769,963.11 |] |
| Expenses through Inter-Company Transfer or GL | | | | \$ 1,700,500.00 | NOT LISTED IN CHECKS PAIL |
| | | | _ | \$ 69,463.11 | Unused Variance |
| | | LOAN OF | RIGINATION | \$ (158,643.75) | |
| | INTEREST AS OF THIS | S REPORT | FROM EMPRISE | \$ (599,547.42) | |
| | | | , | \$ (688,728.06) | Ē. |

CONCLUSION: The interest expenses on Exhibit I along with the Loan Origination fees are well documented and justified. Based on our high-level analysis, the project and this financing cost Mr. Fritzel \$688,728 in negative cash flow.

| Interest Charged During the Development Agreement Period | \$ 544,253.00 | |
|--|---------------|--|
| Loan Origination Fees | \$ 158,643.75 | |
| | \$ 702,896.75 | |
| contract period | \$ 10,167.59 | |

Variance between Fees Presented and Fees during contract perio

1/20/15 FZ.2

Page 2 of 2

NOTE: The following looks at the amounts of checks paid by a Fitzel entity and the compared that against the amount of Bank Draws for the project. It is important to note that there were related party (or inter-company transactions) that may constitute some of the variance.

| Date | Description | | | | | | | Be | Difference tween Checks | | |
|----------------|------------------------------------|------|----------------|----|-----------------|----|---------------|----|----------------------------|----------------------------|--|
| | | Tran | saction Amount | Pr | inciple Balance | Re | corded Draws | an | d Bank Draws | | |
| 10-May-13 A | DV TO DDA "6674 | \$ | 1,535,000.00 | \$ | 1,685,095.00 | \$ | 555,358.29 | \$ | 979,641.71 | | |
| Jun 28, 2013 D | raw 2 to dda xxxx6674 | \$ | 1,037,250.00 | \$ | 2,725,985.00 | \$ | 667,568.98 | \$ | 1,349,322.73 | | |
| Aug 28, 2013 D | raw #3 to dda xxxx6674 | \$ | 1,267,000.00 | \$ | 3,993,189.50 | \$ | 749,497.53 | \$ | 1,866,825.20 | 118 | |
| Oct 02, 2013 D | raw #4 to dda xxxx6674 | \$ | 1,761,582.34 | \$ | 5,755,591.84 | \$ | 3,094,541.99 | \$ | 533,865.55 | | |
| Nov 08, 2013 D | raw #5 to dda xxxx6674 | \$ | 2,123,700.00 | \$ | 7,879,912.34 | \$ | 202,203.24 | \$ | 2,455,362.31 | | |
| Dec 17, 2013 D | raw #6 to wire to Bank of Oklahoma | \$ | 1,450,978.00 | \$ | 9,331,473.34 | \$ | 3,726,669.74 | \$ | 179,670.57 | | |
| Jan 31, 2014 D | raw #7 wire to Bank of Oklahoma | \$ | 950,000.00 | \$ | 10,281,594.09 | \$ | 172,229.69 | \$ | 957,440.88 | | |
| Apr 03, 2014 D | raw 8 to Bank of Oklahoma | \$ | 1,232,000.00 | \$ | 11,514,379.09 | \$ | 22,153.00 | \$ | 2,167,287.88 | | |
| May 7, 2014 D | raw #9 wire to Bank of Oklahoma | \$ | 1,240,000.00 | \$ | 12,754,379.09 | \$ | 358,157.81 | \$ | 3,049,130.07 | | |
| | | \$ | 12,597,510.34 | | | \$ | 1,279,166.96 | | | | |
| | | | | | | \$ | 10,827,547.23 | \$ | 1,769,963.11 | | |
| | | | | | | - | | Ś | 1,700,500.00 | NOT LISTED IN CHECK LEDGER | |
| | | | | | | | | Ś | 69.463.11 | Unused Variance | |
| | | | | | 10 | AN | ORIGINATION | Ś | (158,643.75) | | |
| | | | INTERES | ΓΔ | S OF THIS REPOR | | | | (599,547.42) | | |
| | | | | | | | | Ś | (688,728.06) | | |
| | | | | | | | | - | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| UCC FILING FEES | \$ 95.00 | | \$ 95.00 |
|----------------------|------------------|----------------|------------------|
| LOAN ORIGINATION FEE | \$ 150,000.00 | \$ 1,500.00 | \$ 151,500.00 |
| BG Consultants | \$ 2,755.75 | | \$ 2,755.75 |
| Attorney Fee | \$ 4,293.00 | | \$ 4,293.00 |
| | | | \$ 158,643.75 |

NOTE: This is a copy of the Fitzel Check Register showing all related draws on the project.

| | | States and States | | Re | corded Draws |
|------------|------------------------------|-------------------|--------------------|------|-----------------------|
| Date | Payments | Ck# | Payment | 2.10 | |
| 10/11/2012 | Bliss Sports LC | 1005 | 15,225.54 | | and a state of the |
| 10/18/2012 | Bliss Sports LC | 1007 | \$ 6,000.00 | | |
| 12/21/2012 | Kansas Secured Title | 42656 | \$ 6,125.00 | | |
| 1/24/2013 | Bliss Sports LC | 1021 | \$ 50,000.00 | | and the fail of the |
| 2/14/2013 | Thomas Fritzel | 1501 | \$ 17,353.37 | 4 | and the second second |
| 2/14/2013 | Thomas Fritzel | 1508 | \$ 75,000.00 | 24 | |
| 2/14/2013 | Thomas Fritzel | 1502 | \$ 21,267.00 | | |
| 2/14/2013 | Thomas Fritzel | 1507 | \$ 30,755.44 | | |
| 4/10/2013 | Thomas Fritzel | 1513 | \$ 21,653.57 | | |
| 4/18/2013 | Bliss Sports II LLC | 1006 | \$ 80,109.76 | | 化化的单位 |
| 5/6/2013 | DFC Company of Lawrence | 49359 | \$ 4,179.27 | | |
| 5/6/2013 | DFC Company of Lawrence, LC. | 49363 | \$ 223,365.74 | | |
| 5/9/2013 | DFC Company of Lawrence, LC. | 49369 | \$ 4,323.60 | \$ | 555,358.29 |
| 6/13/2013 | DFC Company of Lawrence, LC. | 49521 | \$ 233,977.44 | | |
| 6/14/2013 | DFC Company of Lawrence | 49545 | \$ 1,341.54 | | |
| 6/21/2013 | Bliss Sports II LLC | 1010 | \$ 432,250.00 | \$ | 667,568.98 |
| 6/30/2013 | Thomas Fritzel | 1526 | \$ 1,320.00 | | |
| 7/10/2013 | Bliss Sports II LLC | 1013 | \$ 374,389.37 | | |
| 7/19/2013 | Bliss Sports II LLC | 1015 | \$ 44,000.00 | | |
| 8/2/2013 | Bliss Sports II LLC | 1017 | \$ 329,788.16 | \$ | 749,497.53 |
| 8/29/2013 | Bliss Sports II LLC | 1027 | \$ 2,171,150.34 | | |
| 9/5/2013 | Bliss Sports II LLC | 1021 | \$ 724,014.65 | | |
| 9/5/2013 | Bliss Sports II LLC | 1020 | \$ 199,377.00 | \$ | 3,094,541.99 |
| 10/26/2013 | Bliss Sports LC | 1930 | \$ 2,203.24 | | |
| 10/29/2013 | Bliss Sports II LLC | 1029 | \$ 100,000.00 | | |
| 10/29/2013 | Bliss Sports II LLC | 1028 | \$ 100,000.00 | \$ | 202,203.24 |
| 11/9/2013 | Bliss Sports II LLC | 1030 | \$ 39,750.00 | TE | |
| 11/10/2013 | Bliss Sports II LLC | 1032 | \$ 2,070,048.74 | | |
| 11/10/2013 | Bliss Sports II LLC | 1031 | \$ 325,500.00 | 12 | 加加を意味 |
| 12/14/2013 | Bliss Sports II LLC | 1035 | \$ 1,291,371.00 | \$ | 3,726,669.74 |
| 12/27/2013 | Bliss Sports II LLC | 1036 | \$ 172,229.69 | \$ | 172,229.69 |
| 2/6/2014 | Bliss Sports II LLC | 1037 | \$ 22,153.00 | \$ | 22,153.00 |
| 4/10/2014 | Bliss Sports II LLC | 1038 | \$ 358,157.81 | \$ | 358,157.81 |
| 6/10/2014 | Bliss Sports LC | 3875 | \$ 1,176.96 | | |
| 7/2/2014 | Bliss Sports LC | 4060 | \$ 25,000.00 | 65 | 11 32 - WE |

Welt 26/15 EF2.3

EXHIBIT G CITY INSPECTION RECORDS



Rock Chalk Park Addition No.1 Sanitary Sewer Improvements Project Number #12S014 2013

| Contractor:Ki | ings Construc | ction | | | |
|--|---|---|---|--|--|
| Wednesday | 5.8.13 | Lo 52 | Hi 76 | Cloudy | Crew |
| The Pre-Cor | n meeting for | Rock Chalk P | ark was at 2p | m at the City | hall conference room. |
| Friday | 5.17.13 | Lo 58 | Hi 79 | Cloudy | Crew 2 |
| working on i started de-w 11:30am an | nstalling sewe atering proce d started core | er line for the j ess.Kevin O'M e drilling main | project. Once eara from Cus when that was | the main was stom Concrete s completed h | sewer main and start uncovered the crew Cutting arrived at in installed an 8" A- hen capped end. |
| Monday | 5.20.13 | Lo 60 | Hi 82 | Sunny | Crew 0 |
| | | | | | ey were going to until further notice. |
| Tuesday No work per | 5.21.13 formed | Lo 58 | Hi 76 | Sunny | Crew 0 |
| Wednesday No work per | | Lo 53 | Hi 70 | Cloudy | Crew 0 |
| Thursday No work per | 5.23.13 formed | Lo 50 | Hi 71 | Cloudy | Crew 0 |
| Friday | 5.24.13 | Lo 58 | Hi 73 | Sunny | Crew 0 |

No work performed

| Monday Holiday — No | 5.27.13 o work perform | Lo63 ned | Hi84 | Cloudy | Crew 0 |
|--------------------------|---------------------------|-------------|-------|--------|--------|
| Tuesday No work per | 5.28.13 formed | Lo 72 | Hi 83 | Cloudy | Crew 0 |
| Wednesday No work per | | Lo 67 | Hi 82 | Cloudy | Crew 0 |
| Thursday No work per | 5.30.13 formed | Lo 63 | Hi 77 | Cloudy | Crew 0 |
| Friday No work per | 5.31.13 formed | Lo 61 | Hi 78 | Sunny | Crew 0 |

Monday 6.3.13 Lo44 Hi75 Sunny Crew 3 Lonnie and crew are back and are installing sewer line from Sta. 0+00 to Sta. 0+70.62. The crew installed line then poured concrete collar in the middle of the line approx. 35' from both MH's. Lonnie took his grade shots and MH A1 was 1' too high to connect to outgoing line to MH AO, He checked his elevations and grade markers then decided to dig up line and re-lay it.

Tuesday 6.4.13 Lo 63 Hi 77 Sunny Crew 3 The crew is correcting the line between MH A0 and MH A1 and once it was corrected he re-poured concrete collar then set MH A1.

Wednesday 6.5.13 Lo 62 Hi 70 Cloudy Crew 3 The crew is working on line between MH A1 to MH A2. They installed approx. 300' today.

Thursday 6.6.13 Lo 55 Hi 76 Cloudy Crew 3 The crew continued toward MH A2 and set it before lunch and are continuing toward MH A3

Friday 6.7.13 Lo 50 Hi 77 Sunny Crew 3 The crew continued toward MH A3 and set it at 11am. The crew then started excavating for impervious ditch check from Sta. 6+05 to Sta. 6+50 and once it was installed (pics taken) the crew installed inverts in MH's A1, A2, &A3 then stacked out manholes and backfilled.

Monday 6.10.13 Lo54 Hi89 Sunny Crew 3 The crew is removing excess rock from area and continues form Sta. 6+50, they are forming areas for concrete collars where specified on plans. The 1st collar is formed at Sta. 6+75 and 2nd at Sta. 7+11 and 3rd at Sta. 7+46. Tuesday6.11.13Lo 71Hi 97SunnyCrew 3The crew continued from 7+46 and formed for concrete collar at Sta. 7+81 and Sta.8+16 then ran into 2 rock ledges so rock had to be hauled out as they hammered.

Wednesday 6.12.13 Lo 76 Hi 97 Sunday Crew 3 The crew got through the rock ledges and final form for concrete collar was reached at 11am. The concrete collars were poured from 1pm to 4pm, the wait on concrete trucks extended time. The crew continued toward MH A4, which needs a 2' concrete barrel section since the elevation was changed 2'.

Thursday 6.13.13 Lo 59 Hi 86 Sunny Crew 3 The crew air and mandrel tested the sewer line from MH A1 to MH A0, MH A1 to MH A2, MH A2 to MH A3 and all passed.

Friday 6.14.13 Lo 63 Hi 93 Sunny Crew 3 The crew continued testing MH A3 to MH A4 air and mandrel tested then MH's A1, A2, and A3 were vacuum tested and passed.

Monday 6.17.13 Lo 67 Hi 86 Sunny Crew 3 The crew started at 10am because of rain and started laying pipe from MH A4 to MH A5. The crew installed 112' of 8" PVC SDR-26.

Tuesday6.18.13Lo 62Hi 88CloudyCrew 3The crew installed the service tee for the Recreation Center at approx. Sta. 10+25 then
continued toward Sta. 11+44.59 to install MH A5 which was installed late afternoon.

Wednesday 6.19.13 Lo 68 Hi 86 Sunny Crew 3 (Late start due to rain) The crew continued laying pipe from MH A5, then prepped poured inverts in MH A5,A3, and A4. They continued laying pipe toward MH A6 and flowable fill is being installed as 3 sections of pipes are laid. (8 yards poured today)

Thursday6.20.13Lo 68Hi 92CloudyCrew 3The crew continues to install pipe and pour flowable fill as they go and they installed126' today. (100 yards poured today)

Friday 6.21.13 Lo 72 Hi 94 Cloudy Crew 3 The crew set MH A6 then continued toward MH B1 installing 28' out of MH A6 then they stopped and poured invert in MH A5 and took elevations of flow lines in MH AO, A3, A4, and A5. They stacked out MH A6, A5, and A4 and 130' yards of flowable fill was installed today.

Monday 6.24.13 Lo 78 Hi 94 Sunny Crew 3

The crew continues out of MH A6 toward MH B1, they have to hammer thru rock and fly ash being applied in the area is slowing down progress. Bob Skinner took shots of MH A1, A2,A3, A4, and concrete collar between MH A0 & A1.

Tuesday 6.25.13 Lo 74 Hi 93 Cloudy Crew 3 The crew set MH B1 then went back to MH A6 and worked toward MH A7 and installed pipe to within 10' of MH.

Wednesday 6.26.13 Lo 70 Hi 99 Sunny Crew 3 The crew installed service at Sta.15+03.90 then set MH A7and poured invert, Stacked out and wrapped MH A-5, A-6 and A-7. Poured flowable fill between MH A-6 and B-1 then went back to MH B1 and started working toward MH B2. The service and MH A7 was shot by Skinner.

Thursday 6.27.13 Lo 68 Hi 87 Sunny Crew 3

Poured invert for MH B-1. Poured flowable fill. Continued installing pipe from MH B-1 to B-2 JR

Friday 6.28.13 Lo 65 Hi 90 Sunny Crew 3

Pressured tested and mandrel lines between MH A-4 to A-5, MH A-5 to A-6, MH A-6 to A-7, MH A-6 to B-1, Lines passed mandrel and pressure test. Vac tested MH A-4, A-6 and A-4 passed vac test. MH A-5 Failed vac test. Poured flowable Fill JR

Monday 7.01.13 Lo 57 Hi 84 Sunny Crew 3

Continued to install sewer pipe between MH B-1 and B-2. Retested Vac Tested MH A-5 (passed) Poured Flowable Fill JR

Tuesday 7.02.13 Lo 54 Hi 75 Sunny Crew 3

Continued to install sewer pipe Between MH B-1 and B-2 pipe install completed between manholes,

Installed 8x8 service and poured invert to MH B-2. Stacked out and wrapped MH B-1 and B-2,

Poured flowable fill. JR

i.

| Wednesday 7.03.13 Lo 55 Hi 88 Sunny | Crew 3 |
|-------------------------------------|--------|
|-------------------------------------|--------|

Vac tested MH B-1 and B-2 (Passed), Air tested and Mandrel tested Sewer line between MH B-1 and B-2 (Passed) Bob Skinner took shots of 8x8 service and MH B-1 and B-2, Poured Flowable Fill JR

Friday 7.05.13 Lo 63 Hi 90 Sunny Crew 2

Ĺ

Talked to Lonnie with Kings Const about straps for MH A-6 – Straps have been ordered and will call when they come in and install JR

07/09/13 Tuesday Low 75 High 100 Sunny Crew 4 I attended the meeting at Rock Chalk. I met with Lonnie. He requested inspection for the Zebron coating for two manholes this afternoon. I went to Rock Chalk and inspected the Zebron application on the existing manhole and manhole A3. Lonnie came by to notify me that Dan King had told him to fill in the trench that was a couple feet low of flow able fill. I notified John S. I asked Lonnie to have Dan talk with Dave Cronin since they said that Bill from Public Works thought it was ok to compact. John S was notified of information. KN

Report of Compaction Tests RCT 11305

Alpha-Omega Geotech, Inc. 1701 State Avenue Kansas City, KS 66102 Office: (913) 371-0000 Fax: (913) 371-6710 Website: www.aogeotech.com



| Job Name: | | Sports Comple | | | Job No.: | 12-436 | Date: | 7-19-13 |
|-----------------------|-------------------|--|---------------------------------------|-------------------|----------------|---|---|---------------------------------------|
| Job Address: | | ge Williams V | /ay | <u></u> | City/ State: | Lawrence, KS | | |
| Client: | Bliss Sports | | | | Contractor: | King Excavati | | |
| Inspector: | T. Westbrool | | | | Reviewed: | | w/ | |
| Specification Re | quirements: | 95% MDD ±3 | | | ource of Spec: | Typical | | |
| Description of Sa | ample: | Reddish brow | n fat clay with | trace of orga | anics | | | |
| Gauge No.: | 16 | Densit | y Standard: | 3129.0 | _ | Moisture | e Standard: | 476.0 |
| Proctor Results. | M | aximum Dry D | ensity, pcf: | 95.5 | Optim | um Moisture (| Content, %: | 23.4 |
| Test Number | 1 - 12" | 2 - 6" | 3 - 12" | 4 - 6" | 5 - 12" | 6 - 6" | | |
| Elev. or Lift # | - 2 | - 2 | - 1 | - 1 | final grade | final grade | | |
| % Moisture | 20.4 | 21.0 | 20.2 | 21.2 | 21.5 | 22.2 | | |
| Wet Density | 112.2 | 114.4 | 112.6 | 114.8 | 117.3 | 114.6 | | |
| Dry Density | 93.2 | 94.5 | 93.7 | 94.7 | 96.5 | 93.8 | | |
| % Compaction | 97.6 | 99.0 | 98.1 | 99.2 | 101.1 | 98.2 | | |
| +/ - O.M.C. | - 3 | - 2.4 | - 3.2 | - 2.2 | - 1.9 | - 1.2 | | |
| Test Number | - | · · · · · · · · · · · · · · · · · · · | | | 1 | I I I | <u> </u> | 1 |
| lev. or Lift # | | | | | · · · | | | |
| Moisture | | · · · · · · · · · | | | | | | |
| Wet Density | | | | | | | · · · | |
| Dry Density | | ····· | | | · · · · | | · · · · | |
| % Compaction | 1. | | | | | · · · · · · | | · · · · |
| +/ - O.M.C. | | | | · · | ł | · · · | | |
| (Note: All elevations | are approximate) | | l | | | <u> </u> | <u>, , , , , , , , , , , , , , , , , , , </u> | .J |
| | are approximate) | | | | | | | |
| REMARKS: | All tests met | compaction ar | nd moisture sp | ecifications | ···· | | | |
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| Informed contra | actor of results. | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · | | | - · · · · · · · · · · · · · · · · · · · | | 1 of 1 |
| LOCATION SKE | тсн | | | | | ٨ | lote [.] Drawir | ig is not to scale. |
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| LOCATION SKETCH | 4 | | ALP L. HOW | INTERN | Note: Drawit | រដ្ឋាន។ | | |
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4-4b-13 COMP

7-19-13 comp

4-10-2014

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4.21.2014

NORTHLOT DREDUCE ISSUES: NGON CORBINLET, NEEDS SUBGREDE CUT DOWNINGTH AND REMOVE FLY 25 H TREEMONT SO 9" OF AB3 WI 7" (INSTERDOF 5") 0;" PROFENT. KINGS- CUTTON'S GREDE-BLITS - WIDEN THE JOINTES ON PREL SUNFLOWER LEFT SITC PERE BROIT SARIHER. TREES: HILE TREES 200 MERCH STRENGS: 40 SHEURS 24

422.2014

Meeting-

TREES - NEW TO BE STRZIGHTENED.

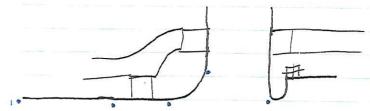
TENNIS LOVET - FOOTINGS TO BE POWED

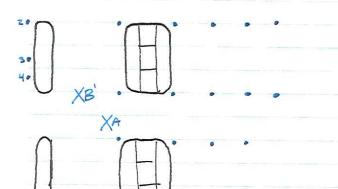
SOON. Need to EGREE ON PLZN DESIGN.

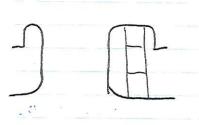
ADA issues. Disagreement over water Fountain,

Revens- 6100 people on SETURDER STIMETED BY PEPER. LIGHT COMPLENT FROM CITIZEN NORTH OF PEPSAG SWP3- New mai Love in place ul COPIES OF OLD REPORTS 27 GWW \$ REP T.C.O. - WER, STREETLY LOWSTRUCTION SITE UNTIL OTHERWSE NOTIFED. INTERET IN DRENING TREEK. TRACK- WATING ON PREMITS FOR low work chossing & cost especte. MONSYMENT STON- COST? DEGIN? SIGN LODE LOMPLICATE? ADD Jay House & City of lavele INFRESTRUCTURE - PUNCH LIST ... KILLAT WORK SOUTH OF RCPARKINES THEN NORTHERN SUCTION LETER. TRZILS- CITY COMITSION WILL EPAPENE TRZILS & WONT BREZKDOWN OF LOST FIRST. DOLLER SMOUNT is IN ORIGINEL BID BUT COMISSION WANTS COMMENT ON COST. CONCETUR SPRENSEL GIVEN, BUT NOT FULL APPRAVEL THE TO COST QUESTIONS. Law waref BBOBC PLAMIT WAT TIME OF 60 Day 6 ~ PUBLIC COMMENT PERIDO. FIBER · LONDUIT CHANGE ORDER. NEG RUBLIC ROLL SORAMANT FOR KU'S LONDWIT.

NexT MEETING - MONTHLY ... 25 NEEDED ...







SUNFLOWER- POSSING CUFB ZDJZLENT TO BUS LENE IN NW LOT. TELKED TO CESSY ZBOUT REMOVING PEVIMENT ZOJZLENT TO ISLENDS ZLREZDY STURE OFF... CONTINUE W REMOVEL. CURB ISLEND DOGRAFT BUSLENE. MORAHOT BLISS- WIDENING JOINTS IN NORTH

4.23.2014 SUNPLOWER - POUR EDSTREW CURB RUNDS IN NW LOT. POUR E-W TORIUTISTS LONG TN LOW SPOT IN NORTH SUCTION OF NORTH LOT.

> 4.24.2014 RAW SUNPLOWER SOL CUT YLERCEDOU'S POR.

4.25.2014

LOT.

PERFING LOT LIGHT BORE INSTRUCTIONS. San CHTTINGS/WDENING JOINTON N LOT. SUNPLONCE - SON CHT CONTRAINE JOINT ON 43 POLE WILL WIDDN OF BUS LEVE OPEN TO TRAFFIC.

BLISS - POUR REC PETH ON PER... 4.28.2014 WIDENILLS & JOINT SERVING NLOT. FIRST. The LOODS LINGTONE THIRD WE GREATE FORMING REL PETH ZURAN DEM. WI FIRE NED TO REMMORE FIRST 100 PT. LIGHTS - RALLS INSTALLS IND NOR OF TELKED TO Case, about THILLERING Sidewack where Whitsman while prove \$ SONTH LOTS. 2005, Meavers Prekans sour 18 x 8.5 " BOTTHO (SCALING VOTOTS Note LOT. 4.29.2014 5.05.2014 SUNFLOWER POUR MISC LURB IN NO WW LOTS. BLISS- POWR STOLWELK IN ISLEWOS OF NFNW LOTS. BIG GLIND IN N LOT. KINGS - GROWING ZUESS ROOD 4.30.14 3000 ND REE CENTER, ROUTING & SEZLING JOISTS IN NORTH LOT South LUT LIGHTS PREPREDUTOR TUGTZU, 3-06:20NG POUL CUEB - SUNFLOWER Form Ronnes - BLISS 5.01.2014 FLY ASH FRE JULG DEATH REC-KNGS SUMFUDUER - POUR ISLAND CURB IN NO LOT, WEDDA. Park PENEMENT STREP IN NUT, NGEND Water more in North Lot water Rang My 3 seous Low DON RU NORTH END. DRZINING FROM SORRET WER TITLET BOOTH TO MMINSTRUG MET IN MORTH LOT. 5.02.2014 SUNFLOWR- POUR ISCOND CIRD & POURMET IN NE SUTION OF IN LOT.

PSV 210V 5.07.14 513.14 Measuring quantities. Rec center BLISS - Par Sidewark REMPS in NORTH LOT. NO VIBRETOR : rear fire access road cracked to hell ... SUNFLOWR- BOUR LURB (Mish) 5+ cracks (transverse). San cuto wide as for crack scaling ... vary REALY SLOW MUD ... PENNY'S SUPPLE BUSY, KINGS - ROLK IFRE ZULLIS BESS WREE in depth 1" - 2" on 7" powement. FINOL CORBINET GROTED. 5.08.14 FLY ASH B-9" WH" ROCK ... PONE ON THURS BLIJS-POUR FREIACLES BEHND Defore use time complete ... Person competition Rel CUSTER (1957) UNTIL REN. Eggin Testing THE DEV-OF ... KINGY- GREDIDES FIRCHALLES WIST OF KU. 5.14.14 SUNFORCE - POUR CURB & Buendy SCREEPING EXCLUS SEEL OFF SOUTHLOT. Part Cot in NORTH LOT MOTIL REAL. File Allers Lane West of Rec LENTER HIS A GRODE & LOBRESS NEW TO BE CLEERED OFF THE WEBGUT TO THE 5.09.14 BLISS - POWE FREIACLESS PERSID NW LOT. Rec Centre (200 x) Wur ? BRING TREES ZVONG RCV/ KINGS - FLY ASH BRUALLA CHELKED GROOM ON FIRE ALLER, GROUD DOWN 2-1" & LE-COMPECTED. WIST OF REL CENTER. FOR 27 MON. VIBRONOR BROKE DOWN 5.12.14 RE.N. Mid STREACH a-30 Min HISTUS TO FIXIT. SCREEPING DINTSER INSLOT. Lots (10+) TRES BOWN OVER. GUTTLE BUDNES FULLIAMENTE

| 505014 | |
|--------------------------------------|-----------|
| SUNFLOWER - POURING STRENZI | K Ronpi |
| IN NORTH & NW LOT. | |
| BLISS - Son artikly Fire/A | 1145 |
| With of Rel. Almost comple | Te |
| 27 3:00 pm. Par ender) ~ = | SPM |
| on Monestry night. Depath was | Good ou |
| JOINTS- ASLED BUTH Cabery's TO BLOWS | et their |
| COMPLUTE FOR 240' TEMPS TOMEN | <i>[.</i> |

5.16.14

BLISS - POUR RETRING WELL FUTING NORTH OF TENNIS CORT, SPRIED FOUTING, NO LE

5.19.14

BLIG. PAR RETENSING WERE FUTING SE OF TENNIS COVERTY. FOLLOWGS NON-TRAFFIC BERGING DET-TIL.

SUNPOULL. PRULED A RECEIPTOR RULA.

5-20.14 Meet, NG

PONCH LIST - Casey Har NOT RECENCED, THOMAY HAR. CHIPESEZL REQ. BOOT. PZEKIR LOT LADITTI NOT SET COMPLETE. STRIP BETWEN REC & FREAKER (NUDS GRAVE OR CONCRETE OF SOMETHING. TENNES COURT PLEN SET IN PLEAD NING BUT NOT KET EPPROLED. STOP WELL WORK UNTIL PLENNING EPPRarge & CALT 2 DUILDING REAMIT. STUB OUT WETER LINOL FOR WORKER FOUNTERN (TO BE TASTALED BY LOL). ROST TENSIDIATIS CONCRETE TENNIS WAREY. INSPECTION BY ... 7 FIRE ACCOUNT THE MOST FEM weaky. Fix CREEKS DEMOND REC. Remare Limestone the Pert (LUD'). PUS, BLE APRON BEATIND WAS FOR WEST STOR Mays BLORC. UMPB MUT ANDELLOD, Pone vice Tank as sopen shour antice. Bee porty watch on la would upor, Mr Algent Approvers. Nells File MT IND ... DERPIPTION ON TROID DREAMS, WIND OWN PRANTING, NELD BUILD, NG REMIT FOR STON WILL JUNC/ JULY COMPLETION FOR STEDUN BUARDANA, TLO ALUNS ATIRECY + LOCARY TO WE thrack & historial.

8

| 520.14 CONTD | 5.27.14 |
|---------------------------------------|---|
| BLAS- FORM SOUR ON GUNLORI | Par RETRINING WELL W/ NO |
| 521.14 | NBREFOR (NORTH). FOUR TIND PEVEMENT/CURB |
| BLKG- POUL SDAR ON GAMM CURVE. | PERES IN NORTH LOT. |
| Park Sidemark in escano in NORTHLOT. | |
| POUR CORB INCET TARROET IN NORTH LOT. | 5.28.14 |
| | POUL RETENDING LELL BOUTH |
| DAN N FOUNDETTON. | WIND VIBRETOR |
| Smarping MORTH Lot. Grazing | REMMONTSDUK - ZAIZCENT TO |
| FORM REMPS IN ISLAND IN MORTH | Building in West Lot. |
| of al Rebor. | 5:29.14 |
| 5.22.14 | Remove Forms FROM NORTH |
| BLISS - PODE Z SDUK RENTS IND | PETANING WZLL |
| SLOWS IN NORTH LOT NO VIBROTOR. | FORM SIDUZLK ZDJZENST |
| Fram SOUNK NE OF Rec. | TO BUILDING IN WEST LOT. |
| | 5-30-14 -JOSH |
| 5.23.14 105 44 | REMOVE FORME FROM SOUTH RETAINLY |
| BUISS - POW SDUK E28T OF Rel. | WZLL. POWE SIDEWZLK ZDIZUNT TO |
| | Buil Dinto in West Lot. |
| 5.26.14 Memorial Day | |
| | |
| | |
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| | |
| | |

| 6.02.14 | SIGN WI ROLL COTLIK PERIC (92 SFT) \$ |
|---|---|
| WIDON JOINTS IN NOR-THELOT. | COL & JOYHZWK FOR BUILDING PERMIT |
| | FOR WELL END SIGN PERMIT FOR |
| 6.03-14 | MONUMENT SIGN. May POSSIBLY ZOD |
| Meeting- | when premit to RL Park premits. |
| LORA PREMIT, NOT DUR YET WORK When | ATTORNEY FROM KU ATTULTICS Says CONBO |
| FUR SNOKE. WRITING ON FIRE AT INFO. | of COL & JEYHERK OKEN ON STAN BUT |
| NEED PLEN DREWING DETEILING. STERT | Nur Diranto. PLONNIN |
| TRAL CONSTRUCTION ZFTER LOST ZPPROA | NEDS REVISED SHELTS FOR TENNIS |
| OF FREZIL \$12.50 /SY wiTH CITY erimere | COVETS DUMPSTER, NW LOT. |
| 27 9.50 154 w/ 200 Reconcer 27 \$400,000 TOTEL. | CONCRETE FLOME TO CONVECT |
| COMMESTON EPPROVER LOST & THE PIT INFO | DOWNSPONTS TO PERFORMANT? OR LONGREE? |
| HOREFULLY BY merine on 17TH. | CHYP \$ SEZL - 2-3 LACKS OUT. BY KING |
| NEED RELEXPOS ON CONSTRUCTION STOCKING. | BEFORE JULY. NOTITY NORTH PRODUCTS |
| Need consult into for the of has use | on were prior to semint by 200%. |
| OF CONDUIT COLT OF CONDUIT, OWNERSHIP OF CONDUIT? | TENNIS CORTS - PIZILLE BOLL BRINKING |
| KU and one is city and one? Likewie | Romotory, allother outway betin under |
| 26 REMART WI KU FOR USE of LITY LONDUIT? | CONTANTION BUT CONCER WILL BE POST TENSIONES) |
| : 2ND COMPNIT BELONGS TO? | andle R. Sidwalks were artimal, Paro |
| JUNE ZZED, FINEL VELK THEOVEN BY | "230,000-50,000 W25 200; TIDNEL POR SPUTZTURS TO |
| CITY OF STEDIUM FACILITY. NEED DEATHON | WETCH TURNEMENTS. ORIGINAL PLAN SHOULD |
| FEETURE (more THEN WELLS DUNE) GRUEDING | TENNIS COVET IN NO FOUNTEIN NO PETTIOS. |
| THE PLANGE POOL. | ONLY STOCKTUR DUNING COVER TO BUILD, NG. |
| SIGNS- TO CITY COMMITSION, REPORT FOR | NUMB TO BE SPRAND TO GET 2 CHENGE ORDER. |
| SIGNS & WOLLS ON FON, NUD DUTON OF MONYMOUT | |

| | _ | |
|--|---------|--|
| 6.03.14 CONTD | 1 | 6:09:14 PM RZN |
| CURBINLET YET TO BE INSTELLED | | GREDING BROUK OF TENNIT |
| with portion to pond Paul Decorner | - | Takes. Pacifina, up were |
| FLZES POLE LIDS HTS CONNECTED TO | FORMS | Marah Law orcap: No Thes. |
| BUILDING LIDITY THET WILL STRY ON ZU | | SERLING NW LOT. |
| me ine. | | |
| WESTSTER ZUES TO LINCS COMPTULED | + | 6.10.14 AM RZIN |
| BOLK CORRES IN DIRTS CAREST. | | MOSTLY WET INDOOR LORK IN THE REC |
| 6.04.14 | | 6.11.14 |
| KINGS- excention 3 GAREDING OF | | GREDING TENNIS LOURT EREZ |
| TENNIT COURT ERCE. | WITT | to REZDY TO BREATH THE SOUTHEN |
| With Remp POURCD? THE QUE w/ 2 HUMP Due to iRRZZTION Lite TOO | | en uzer? |
| Hibit :. Reber mer NOT in Right Race. | | SWERTHIG NW LOT POR SEZIINE. |
| NW REMP OF CHEVE OF REL. | | HEARTLEND Midwert - KUNNING CONDUIT |
| WIDENING JOINTS OF NORTH LOT. | 20000 L | War side OF GWW FROM RCD TO GTST. |
| 605.14 - RZN | | LEFT JERON STON MARING POLE 3 DEMEGED. |
| 6.05.14 | | INSTALING BOLT LOVERS ON PERIGNAL LOTLANG |
| Sweeping NW LOT FUR Services, | | WOOD STILL IN DITCH NE OF RCD + CORD |
| BECKALING RETENTED WELLS. | | SOWK WEST OF RCL MUDDY. |
| MUTILED LRUDZED TRUES 262:2. | | WELKED ROOK FIRE /ALIESI LENDE W/ STORE L. |
| FUND SWR3 MAZROD CAPTY. | | 10.12.14 |
| | | POVERS Librate POLE BERES in NONWLOT |
| | | FUTING MOINT FOR DEGIS IN IN IN TO SOT |
| | | FORM TRON ENT OF Rea Ering NW LOT |
| | | |
| | | |

| 613.4 | Workerine Larg FOR LINE TO |
|---|--|
| GRADING TENNIS COVET. | DRUKING FUNTEIN 2T TENNIS WRITE |
| FREMING CURS ON NE CORNER ON NLO | TZP OFF MEN LINE ZFTER METER TO |
| PREPARA LIGHT PRES 27 PRESTLY | FIT WI TWO UZLUES. |
| PURED LIGHT POLE BERES. MONNO TENNIS LONG | FIRE AT DROWING, HOREFULLS |
| Libitas. | This weeks |
| FOR 1201FT TREIL SEOFREL. | FLZG POLE - PURCATZED BY PUNCTION 10 CATY. WINST TO ZNEWER BY SDEWZLER. |
| 6-16.14 | Low Wree Geornon - Heep Z Fier |
| INSTELLING TEANS LOURT LIGHTS. | FOR MORE HYDROMITE RESERREN TO BE |
| Experients terrers uners. Factorilists | Shomotop To Dure. |
| Well voting PERESNS WT Lights por | CURB CONST BUILDING TO PUST |
| NWWT, WEST LOT, 7 NORTHERD N LOL | warel may soon Building. Exposed AGG? |
| PURID Portaties of Mr Lot. | Games? Concerce? |
| 6.17.14 | TREZ- LORE THIS LACK / BELLY |
| MEETING | MAGT WHICK FOR GRADDE FREIS FORD H |
| PENNIN'S CONCROTE TICKETS - 1554C NOT PELENTITY | BALFILING ON BUILDING \$ SE ZULLI POZO |
| ZLL OF THEM/CHONGING THINGS WI WHITE OUT? WILL | Brock that. |
| GULT TOLLETSA TO COMPERE. | TENNIS CARY - POST TENS, JANG |
| STORM THROAT WERN OUT. NEW TO WHICK | 6m 24KNOS KSTERDER. INSPLIED BY LES POR |
| BONIS, TOO. | CITY of Coursesue. |
| News Pay APP FOR FLAT Flow MONTHS. | |
| Wark THRONG H WHENEVER SFEEL WORK | GRODING S FILL/ACUSS ROOD. |
| LOMPLETE. CHIP & SCIL STOPS. | Tennis Laurt. |
| TREAS- BENC - 1 GARAGE ON Dom & page on enos | BRUFFLIGHT ISLENDS & TRZ.Z. FORM BUS LENE BY RUC. |
| | |

| 617.14 CONTO SOUTH FREE ATLES LOVE GERDELES JELEDY ROL ABS. JELEDY ROL | | |
|--|---------------------------------------|-----------------------------------|
| South File Arly Love Gerden Jetter Prod Arly Love Gerden But Into Weeds. But Into Weeds. But Into Weeds. But Into Weeds. But Into Weeds and NE conner of But Into Weeds and NE conner of Werth Lot. Willing To Port Tomorpoon Barry Willing To Port Tomorpoon Barry But But But Love Pull Out (Mer) But Constant of Weeth Lot and But Constant of Weeth Lot and But Constant Constants. From USA on NE weeks Sur Cont (Deare I' To 22') Peterse Port Into Joints ON Fire/ Location Are Storm Reve Instantion Killer Multipoon Somethod words Wy Dorol . Sur Cont Constant Storm Reve Instantion Killer Multipoon Somethod words Wy Dorol . Wight Row Weethow Wy Dorol . Wy Many Multipoon Storm Bar Storm Bar Words Wy Dorol . Wy Many Multipoon Storm Bar Storm Bar Words Wy Marth Row Storm Bar Storm Reve Instantion Killer Multipoon Storm Bar Storm Bar Storm Bar Multipoon Storm Bar Monor to Sur Contract Contract . Wy Marth Row Storm Bar Storm Bar Multipoon Storm Bar Monor to Sur Multipoon Bar Storm Bar Storm Bar Multipoon Storm Bar Multipoon Storm Bar Storm | 6.17.14 CONTD | 619.14 CONTO |
| 22754 PAR AB3. BAK (See (West) POUR 7:200 OSWO BAK (See (West) POUR 7:200 OSWO POURD BY LUBG OT NE CORNER OF BLOWED BY LUBG OT NE CORNER OF BLOWED BY LUBG OT NE CORNER OF BLOWED OUT THEOSTS ON CHU. HORING TO POUR TOMORPOOL (B ²⁷) WIBH HUMING TO POUR TOMORPOOL (B ²⁷) BUR CHER BY BUS LENCE ON HORING TO POUR TOMORPOOL (B ²⁷) HUMING TO POUR TOMORPOOL (B ²⁷) BUR CHER BY BUS LENCE ON HORING TO POUR TOMORPOOL (B ²⁷) BUR CHER BY BUS LENCE OF DORTH LOT. ROLE TOMORPOOL JOINT REL TOMORPOOL JOINT REL MER. TO Z'S") POUR FIRE/AILOSS POOL WITH ORLE SEW CHT (DEARE I" TO Z'S") POUR FIRE/AILOSS POOL WITH ORLE LOISTIS FOR STORM REVE HISTORIAN ALLESS POOL ON FIRE/ LOISTIS FOR STORM REVE HISTORIAN ALLESS POOL ON STORAGEY NOT TO FIRM CUMB BUTTORICE. L'19/14 [CZ]). FORM CUMB BUTTORICE. L'19/14 [CZ]). FORM CUMB BUTTORICE. L'19/14 [CZ]). | SOUTH FIRE ATLES LOVE GREDED | PuliNG weeds. |
| But (mer (when) POIR 7:20 m and 7 | | ELECTRIC LOVE NEAR NW & OF NEO |
| NORTH LOT. (LEANING OUT THREADTS ON CALL. HORING TO POUR TOMORPOOL (ST) UIB.14 FOR BUS LOVE PULL OUT (NEW) ROUR BUS LOVE PULL OUT (NEW) ROURS OF BODING OF NORTH LOT OT 2. GROUP OF NORTH LOT TO 2. ST NORTH LOT. TONE TOMORPOUL JOINT RET MIC. THERE? SEN CAT (DEARE I' TO 2. PETCHUS FOR STOR AND 2. ROUR FIRE/AILCSS ROOD SUTHORSE SON WETTER IN FRONT SON WETTER IN FRONT VIENT BODING ON NE HOUSEN. ROUR SOLL AND DOINTS ON FIRE/ LOISTIS FOR STORM REVE HISTORIANS MY DUTIEL NOT PETCHING SUPPORT REVE HISTORIANS NUMP MUDDY/MERCH. NUMP MU | Bus (swe (Whor) POUR 7:300 on Was. | |
| Cleanish our THEODITS on Grow. HORING TO POUR TOMORIZON (DIT) HORING TO POUR TOMORIZON (DIT) POUR BUS LONE PULL OUT (NEW) POUR TALLOTS OF BECLEFICLENT BSITE GREDDING. FORM CURB ON NE CHENER SER CAT (DEARE I' TO Z'') POUR FIRE/AICUS POOD ENTHORIZON POUR FILL POUR FILL | FOLLOWED BY LURB OF NE LORNER OF | |
| HORNE, TO POUL TOMORPOL (Stat) WIGHT HANDER BUS LOVE PULL OUT (MEN) THE N E CHER BY BUS LOVE AND POUR BUS LOVE PULL OUT (MEN) THE N E CHERTER OF NORTH LAT ST2. B" DEPTH. B" | NORTH LOT. | 6.20.14 |
| HORNEL TO POUL TOMORPOL (Stat) WIGHT H ROLE BUS LOVE PULL OUT (WENT) THE N E CHERTIP OF NORTH LAT ST2. B" DEPTH. B" D | Cleaning our THROSTS on Gun. | FORMING FIRELACLESS ENTITUE BEC. |
| CIENTA POR BUS LEVE PULL OUT (MEN) POR CUEB BY BUS LEVE IND POR BUS LEVE PULL OUT (MEN) POR NER DUE VOID (MEN) OF NORTH LAT. TONE CONTON FORM CUEB ON NE CUENER STATE CARE ON NE CUENER STATE TONE CONTON POR FIRE/AILLIS POND SUTHORSE SET CAT (DUENE I" TO 25") POUR FIRE/AILLIS POND SUTHORSE COLOTES FIRE FORM REVE INSTRUMENT SOUCHTING JOINTS ON FIRE/ LOUDTUS FIRE STORM REVE INSTRUMENT FURM SOUCH ADMIDIAL. 6:19:14 REIN. 500000 BOX ON SITE. FORM CUAB BUT DONCE. 6:19:14 REIN. FORM CUAB BUT DONCE. 10:19:14 REIN. 10:19:14 REIN. | | HOPING TO POUR TOMORPOL (527) |
| 8" DEPTH. 6" DEPTH. 600 DEPTH. FORM ENERS ON NE ENERDE 500 DEPTH LOT. POUR TOMORRIUM. JOINT REAL MILLS. 500 CONT (DEEME I" TO Z'Z") POUR FIRE/AILLSS RODD ENTHORALE SEN CONT (DEEME I" TO Z'Z") POUR FIRE/AILLSS RODD ENTHORALE IN TOT SOLL MENT FROM FUEN SOLL ANTRONAL. 6.19.14 [ZZ]]. FORM CUMB RUTTON BUY LOWE. 10.19.14 [ZZ]]. FORM CUMB RUTTON BUY LOWE. | 6.18.14 | PUR CURB BY BUS LONE DND |
| CHERC TENNIS CARTS. FORM CURR ON NC CHENERS SPR CHER ON NC CHENERS JOINT REL MARC. THEOREM. JOINT REL MARC. THEOREM. JOINT REL MARC. THEOREM. JOINT REL MARC. CHENERS. SUM CHER FORM RENT 25") POUR FIRE/AILLOS ROAD WITH ORCE GENERAL CONTREL LOINTER CHERC PETER IN FRONT LOINTES FIRE SFORM RENTE HISTOURIDE ALLERS AUCTION JOINTES ON FIRE/ LOINTES FIRE SFORM RENTE HISTOURIDE ALLERS AUCTION JOINTES ON FIRE/ LOINTES FIRE SFORM RENTE HISTOURIDE ALLERS AUCTION JOINTES ON FIRE/ LOINTES FIRE SFORM RENTE HISTOURIDE ALLERS AUCTION DON SCRUEDON NOT TO HUM CURS BUT ADDRES. LOINTER LOINTES FIRE SFORM RENTE HISTOURIDE ALLERS AUCTION BOX ON STILL. LOINTES FIRE SFORM RENTE HISTOURIDE ALLERS AUCTION BOX ON STILLE. LOINTES FIRE SFORM RENTE HISTOURIDE ALLERS AUCTION BOX ON STILL. LOINTES FIRE SFORM RENTE HISTOURIDE ALLERS AUCTION BOX ON STILL. LOINTES FIRE SFORM RENTE HISTOURIDE ALLERS AUCTION BOX ON STILLES. LOINTES FIRE SFORM RENTE HISTOURIDE ALLERS AUCTION ALLERS AUCTION ALLERS AUCTIONS ALLERS AUCTION ALLERS AUCTIONS AUCTIONS AUCTIONS AUCTIONS ALLERS AUCTIONS AUCTIONS ALLERS AUCTIONS AUCTIONS AUCTIONS ALLERS AUCTIONS AUCTIONS AUCTIONS AUCTIONS ALLERS AUCTIONS AUCTIONS AUCTIONS AUCTIONS AUCTION | POUR BUS LOVE PULL OUT (MEST) | THE NE CORNER OF NORTH LOT DE2. |
| FORM WER ON NE WENER SOF NORTH LOT. PONE TOMOGRIUM. JOINT REAL MIC. TREES. Sur COTT (DURKE 1" TO 2"") PETERLI PONE ON MONIDEN. PETERLI PONES ON MONIDEN. PETERLI PONES ON MONIDEN. PETERLI PONES ON MONIDEN. POUR FIRE/AICUSS POID WITHORKER DOISTUS FRE STORM RUNCE HISTOWARD ALLERS POND NOT TO FREM SOME AMTRONOR. 6.19.14 RESIDENC. HY DUTSIL. FORM CURES BUTTOR BUY LONC. | O" DEPTH. | Loss of BEERFILLING BSITE |
| DE NORTH LAT. POUR TOMOGRIUM. JOINT REIL MISC. THERES. Sur CAT (DURRE 1" TO Z'=") PETERES PORCE ON MONIDEN. PETERES PORCE ON MONIDEN. PETERES PORCE ON MONIDEN. PETERES PORCE HALE PETERE IN FRANT OF REIL CONTREL LOISTES FOR STORM RENTE INSTRUMENT. FURM SOME ANTRONOR. U-19:14 REIL. HU DUTSIL. FORM CURSS RULE BUT DONC. HU DUTSIL. VURY MUDOY/MURELY. STORM BOX ON SITE. HU DUTSIL. NUMBER OF REIL. | Grade TENNIS Carets. | GREDING. |
| JOINT REAL MIRE. THERES. SEN CAT (DURRE 1" TO 2'2") PETERES PORCES ON MONIDEN. PETERES PORCES ON MONIDEN. PETERES PORCES ON MONIDEN. PETERES PORCES ON MONIDEN. POUR FIRE/AIRCOS POSD WITH OFFICE (0:23.14 SOU CATTING JOINTS ON FIRE/ LOUSTES FIRE STORM RENTE INSTRUMENT FURM SOUR AMERICA. 10.19.14 REIN. FORM CURRE BOTH BUY LONC. IN PROVIDENCE. IN PROVIDE | Form WRB ON NE WERER | GROONLY CONTO LONGY. |
| Sur ant (Darde 1" TO 22") PETERLIS PORCO ON MONIDEN. PETERLIS PORCO ON MONIDEN. PAR WETTER HARE PETER IN FRANT OF REC CONTRE LOLETUS FILE STORM RENTE HISTORIAN ACLESS POLD WITH OF RE/ LOLETUS FILE STORM RENTE HISTORIAN ACLESS POLD WITH OF RE/ LOLETUS FILE STORM RENTE HISTORIAN ACLESS POLD WITH OF RE/ LOLETUS FILE STORM RENTE HISTORIAN ACLESS POLD ON SCHLADON NOT TO FURM SOLL ANTRONOR. 6.19.14 [CZI]. FORM CURPS Bath MD BUY LONC. FORM CURPS Bath MD BUY LONC. | OF NORTH LOT. POUR TOMORRILL. | |
| PETERLS PORCO ON MONDEN. POR WETTER HAR PETER IN FRONT (0:23.14 SON CUTTING JOINTS ON FIRE/ LOLDTOS FOR STORM RENTE INSTRUMT ALLELS POURCO ON SCALEDON NOT TO FURM SOUR ANTRONOR. 10:19.14 RTS. FORM CUMB BUTTON BUY LONC. FORM CUMB BUTTON BUY LONC. | JOINT REL MILL. THERE. | |
| ROR WETTER HAR PETER IN FRANT OF REC CONTOR LOLDTON FAR STORM RENTE HISTELLETION ALLERS PARED ON SCALEDON NOT TO FURM SOLULA MATRONOR. 6.19.14 REIN. FORM CUMB BUTTING BUY LONK. BUTTING UNIT BUTTING JOINTS ON FIRM. KOMM CUMB BUTTING BUY LONK. BUTTING JOINT OF REL. | Sur ant (Dure 1" To 2=") | POUR FIRE/AILESS RODD WITH ORLEC |
| of Rec control LOLDTON FOR STORM RENTE INSTRUMTION ALLELS PARED ON SCHURDON NOT TO FURM SOLK MERRONDE. 6.19.14 REIN. FORM CUMB BUTTON BUS LONC. SOLO DE LONDON IN FRONT OF REC. | PETCHES PORCES ON MONDEN. | |
| LOLDTON FOR STORM RENTE INSTRUMTION ALLELS PARED ON SCHLEDON NOT TO FURM SOME ANTRONOR. 6-19-14 REIN. FORM CURB BOTTON BUS LONC. FORM CURB BOTTON BUS LONC. | Par werde the PETRA IN FRANT | 6.23.14 |
| FURM CURB BOTTON BUS LONC. HY DUTOIL. Nerey MUDDY MURKY. STORM BOX ON SITE. GRAM CURB BOTTON BUS LONC. HY DUTOIL. Verey MUDDY MURKY. STORM BOX ON SITE. GRAM CURB BOTTON BUS LONC. | of fer contra | SEW CUTTING JOINTS ON FIRE/ |
| 6-19-14 RZIN. FORM CURB BUTTING BUT LENC. | LOLOTOS FOR STORM RENTE HASTELLET. DI | Allell Parked on Scrukiozy NOT TO |
| 6.19.14 Rain. Form CURB Betting Buy Lanc. | FURM SOLK APATRONDR. | MY DUTZIL. |
| FORM CURB BUTTING BUY LONC. ERODING IN FRONT OF REC. | R | |
| | 6.19.14 10252. | HA STORM BOX ON SITE, |
| Mart in Bus Lowe Powerd WHTERDONY in K | FORM CURB Bettind BUY LONC. | GRADING IN ACONT OF REC. |
| | Mar on Bus LENC POWER WITCHDAY in | X |
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| | | |
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| 6.24.14 | | 6-27.14 |
|--|------------|-------------------------------|
| POR - SDIK - WEST ENTRY TO REL | | LURB - WAT CIND OF NORTH SUDE |
| \$ 3 DORWZYS SE OF REE. CURB. | | UN LOT. MORTH OF ENT SDE OF |
| SUBGRARE SALL TO WET. | | H LOT. |
| | | GRADING - LURB BETTIND |
| 625.14 | North | H Lot - Ree. |
| POUR - WEB NORTH OF WISTERN | | BERRY? INSPECTED WIST RIC |
| BUS LENT IN NORTH LOT. | entra | ENTE SAWK RUNNING GREER |
| FORM ESTERN BUS LENC. | Mm | BC OKEN, LENISING UN TOP TO |
| | stut. | 3+1. Met TO BE <21. |
| May Grangs in Butter 2 200 | | FREMING CULL BLASNO ESSTORN |
| JONT SEZL PRIVERE ROZD, | | are Man |
| SLOW CLARD FORMING RESTERD L = 7 345 | | POUR ENTRY TO REC. |
| OF IST THALK ROMO TRUCK MURCH ANT | | Crany SOD NO POR ON SET. |
| BUT NEAR SLOW TO FARITH. | | |
| | | 6.30.14 |
| 6.26.14 | | POUR - LURB (LIEDOLN) ESTREN |
| Park torrelad Bus Lowe to | BUS CO | and in FRONT OF Ree. |
| LAC & DWN COMPANY & DF MORE LOT. | | FORM & GRODE SIDEWOUL BEAND |
| ENERDING IN FRONT OF Rel. FORMING LIPES | Buy La | at IN FRONT OF Ree. |
| 2000 Buy LONC. PAMPING CACOR OUT | | JOINT SERL. |
| of mut show Statists. | | INSTRU GER 2T TILLT BUTTH. |
| Metrino : Totomos, Coscy, Comar, Manie, Brushi | | NO WARK ON LOUNTY ROZD. |
| LONGLOTE ON STULP TRAZ SECTIONS, LIMISTONC, | | 4 V D D |
| TIMES. A FUN CONCIDENCE SPOOTS WI PITE. | | |
| Cattle an monday. | 1 - | |
| | | |

| 7.01.14 | | Rel CENTER MOZT - Fil w/ concrete |
|--|--------|---------------------------------------|
| MEETING Melling commonce to momas | \$ Dec | De who / thom to pay INFRESTRUCTURE? |
| or Crany | | D:20 (TIP) SE=L |
| PUNCH LIST - NEW LET ZETOR ITEMS COMPANY | | PRIME (OZT un 24 Mores cossor? |
| CHIPSEZL - meetings 27 10 ml (2504 | | 2 LANGER of OL 7 CHET (4-2") |
| TREN- EDJUSTED LEDOUT, CONCRETE ON | | MCBOD CUTBER OIL VS RCBOD |
| STULP SUTIONS, Dipus & conscrete at HONH | | 23' mile x 2630' = 6781 54 5 |
| DRT, NECK TREES. Backweter Study of | | 28' mile x 2430 = 8182 54 |
| Low WZER CRUSSINGS CHENGING PIRS FROM | | MIKE- PRIME LOZT ON VIRCHIN RISTRS 30 |
| 3FT Diam. TO 2PT Diam TO Ellow Playout | N | NEED CRAIN ESTRUSTED ZI. |
| OF STRUCTURE SOONER TO REDVER BRUKMETER. | | MORK- NEOD PROPOSEL FOR PROCESS & |
| TENNIS LOUR NEED DRZWASS STIL. | | ENY CHANGE IN KOTTS SPECS. |
| SOFT SPOTS IN SUBGREDE. POURING SUDN. | | |
| SIGN- WELL PERMIT EPOPPONED, WORKNO | | FORM & POUR SIDEWELK IN FORMET |
| wi sibn company on Design. | 0 | ec RETIND BUS LEARS. 6" ~ |
| WaTARLING ESGMENT USINES? | | EXPASION & DOWLS DEARD CARS. |
| BUILDING PLANTT- FINTSH ITEMS & PUNCH LIST | | |
| ESEMENT / CONDUNT OWNERSONP/MORNICONONIC | | 7.02.14 |
| Mines New to be Reported. (ITY whe DREPT | | Paur = TEMNIS COLRTS. |
| 26 RELMENT FOR ATT TO STON KU OWNS | | FORMA SPOUR IN FRONT OF REC. |
| FIBLE LANC, GTY and FIBLE LANC; USEY owns | | Muck out, & REPER UCKNE |
| LONDINT al 25 Ren man T POR KU TO USE IT | IMB'LS | STOON LINE IN MORTH LOTING |
| I KU dun's THE EMPTY CONDUNT OR LITY | | . TOUK & Privenest, UNDERMINED, TO |
| Bury's company conduit to dury? | | sues al plowage. |
| > CONTO> | | Puplot UST FOR MOREIC. |
| | | |

7.02.14 7.10.14 us ary FORM SOUR ZIZCZ IN FRONT OF R.C. NOTION CRECKED CORB ET SOUTH TONNE LOVES SILL GEN OUT, SUNTAULULAKIT OF NORTH LOT TO REPAY. LOVE BONG ENEMED. STORM SELER - PLACING HOPE ON BURNON SOMUTION IN SAUS POUTH OP Rapius ... NEW was + ROLL & COMPLETE ON SOFTBUL BUDDING INNTS, AND ROWBBLE FOUL OVER MOST OF THE FIPE & Rec PETTI MILL GO OVER. 7.04.14 4TH OF JURY TENMS COURT FINEL FOR MING To Park Tomorphan. 7.07.14 TREES - ZLONG WENT SDC OP GROOMES BY WEST LOT. FCLN. Many CADDED THEIS FELL YOUR-FRONT Ric Lewter BOLK FROME chores. MIT NOT YER POURed. LIGHT POLE N NUPETHLOF. 7.11.14 STORM SCUER. HOPE PIPE 7.28.14 INSTRUCT ON RODUS. LONGRETE COURS TRUES UNTORION FROM SEDAM. ON THE ENGLED JON J. FLOURSE TRUL, BOUHGUENG, ETC. FU OTR MST OF Stree. Box SET EVEN of CUEB. - FICTURE ON 7.09.14 MONDEN. MONTHS LODDI OF HATHON APPROLT FOR TRA. START EXCANTING STORM SURCE. 7.14.14 TRUES. Branchicinto. Fixing Storen scale Box, march BUIL I FT. No BROKE LID, ORDERED NEW ONE. BMTTER WORK. BEENGIUMS TEMAZ COURTER)

| 7.15.14 | 7:22.14 |
|---|---|
| Pare storm schor theoer on | LONDSCORING, POUR SIDON BOUNDESDU, |
| FNZL SURBINLET. | TRZLS, ETC. |
| | |
| 7.16.14 | 723.14 |
| TREES. IRRIGETION. CONNECTING | FORMING SIGN WELL, TENNIT |
| SINTERS TO DREAD PIRES ON REC CENTER | COURT LIGHTS, TRESZ, NOTICED ISLEND |
| WIL aperflow PERKNG ALLER DRIVED | IN NEED OF FF HES BEEN LENDRERED |
| MONTO (PUSHED ATPHENT FOR FREILS. | STREATHINGT B ARCLE |
| TENUTED REMP CONSTRUCTION FOR | |
| 20-for R. | 7.24.14 |
| | SIGN WELL FRAMED. TREE.2. TENNIS |
| 7.17.14 | LOVER LIBIT T. NOTICO LONGRESE LONG PARES |
| PEDNTING PERKING STELLS IN | BUTWEEN DUNDING 3 PAPAGNOG. DUMPSTER? 2245 |
| bert Lor. | GARMAD GOTAL LOWING A PARKA ON FREE |
| Mario CRUSITED ASPATELT POR TREIL | Acure line Nonen of Rec. Trans the |
| NOTION GURB WAS FRONTLY ALARD N | Portot Portott Concerco From West of Rec |
| her lor. | To Dam, West Lor STREAD, |
| 7.18.14 | |
| Landscapints | Mevanon wi Dave 3 Change |
| CONOS CZENINOS III | - BTO SWER? |
| 7.21.14 | - Demo Trees |
| | - SOUTR LOT - DETINEBRE DITCH REGREDE |
| Pros, TWRF, SOD, LTC. (HIPHOL ON PRINTING. | 2 OLAGY MOLLI CALTY STOLM, CARLY - WWW, LIGHT - |
| | 7.28.14. mart No w/ Ku 71864 |
| | |

| | $\left(\begin{array}{c} 0 \end{array} \right)$ | |
|---|---|---|
| 7.28.14 - 7.31.14 -8.1.14 | | B-0B-14 |
| WORKING ON RANCH LIT I TONS | | Par percing on Given |
| FOR SOUTH TREZ SOUR REMAINEL, | | Fran Pricker as Rest RL + Park |
| GROUTING CHIMAS TRUES, MARKAR ROZOS, | | San con NOR-181 LOT. Part Her. |
| CROSSWELLE PETET, ETC. | | Signaph Constanciste on RCD. |
| | | |
| B.H.14 | | 8-11-14 |
| Parz some by Tennis Carrol. | | FORM PETCH ST WEST END OF RED. |
| , | | Sem Percetts in West Lot. |
| 8:05.14 | | EXCAVETE GIDST PETCIHON RID+640 |
| 2640 LFT CHIP 3 SEEL | | |
| EXCONTING PETCHES ON GUINBRID. | | B112.14 |
| CILLED CARE Re. DOLL BERS NUMED ON | | ELEVER GIENT PETCH ON ROD+ GUW |
| BOOH SIDES OF PETECH. | | DONE PETCH and PETCHER 27 West |
| | END OF | RCD. |
| 8.06.14 | | BUR SDUCK SOUTH OF TERMIT CAMET. |
| WELK MODELS ETTON. Itthate standed | | |
| En CITY LOTS. EXIZVETING BOMAKI ON GUW. | | 8-13-14 |
| | | Remare parettes. |
| 8.07.14 | | |
| New SEW CATS ON LAWW PRICHES. | | 8.44.14 West |
| LURS PETCHER ON PCP. FORMUND BOWK \$ | | POUR PETCH IN NORTHLOT. |
| Rangs By TENNIS CONCER | | EXENDER / FORM SALLE LOT LORD THROET |
| | | EXCLUZTE SOUR BY SOUCH FILD. |
| | | |
| | (Hop Noter | 15-24-25-25-24 ANG 26-3 772534 |
| | | |
| | | Contraction of the second s |
| | | |

B-15.14 PETCHNG, SCRZANG, GRUDPH. 8.1B.14 EXCENTE PETCATS REDOND RE. PUR in Am. Marken core tocar. Lazans. 819-25.14 FRi - LORE SEMPLES and the second B.26.14 TARE HOLE WE'D TO BE REFILED. LONDS(2076, These, Peratorb. 8.27.14 Mise 8.28.14 Misc 8-29.14 PETCH RCLI UMB. Monker. LORC Hory TO BE FIXED. · 10 · 1 and the second

9.2.14 - 9.5.14 Misc. PUNCH LIST ITAMS.

Misc PUNCH LIT ITEMS.

9.9.14

Sew LOT CREEKS IN STREETS. OPEN ON MONDEY!

9.10.14

Externe Percites

9.11.14

Par street porches

9.1214 POUR PERIGNOSLOT PETCH. 4K TREES.

9.13.14 Boutes

10000

9.14.14 Parcity

| 9.15.14 | 9.24.14 |
|------------------------------------|---|
| PZTCHES IN NORTH & NORTHWEST | SOD BY SOLLER FIELD |
| 9.16.14 | TALLED TO CASEY ABOUT PUNCH |
| | UST: PONDS DREDGED MAYBE |
| LANDSCAPING | THIS WEEK, STOEWALL SOUMERS WI |
| 0 | FOOT PRIINT & TOLES, SEALING , BINTS |
| 9.17.14 | LO FO RAMP BACKFUL. |
| LANDSCAPING ENTRY SIGN | |
| KUS FENCE INSTALLATION | 9.25.14 |
| | SOD ON SOLCER SIDE OF FENCE |
| 9.18.14 | LANDSCAPING ENTRY SIGN AREA |
| Kus Fence | |
| LONDSCAPING RELENTRANCE | 9.26.14 |
| | REMOVE SAWK RAMP -1 AUTORSAT. |
| 9.19.14 | TALKED TO AGRIA RE: PANEMENT |
| | MATCH & BAZILIFAL ICLEANING STURM SELVER. |
| 9.22.14 | A |
| BAQUERU KU FENCE | VACATION |
| ADD MATERIAL TO PATH BY NORTH POND | · LOMPLETED ROAD & LOT PATCHES |
| SPORE WI LAFEY RE RAMP & LORD | SEALED MUC PATCHES |
| | · REMOVED TEMP. SEDIMENT BARRIERS |
| 9.23.14 | Flom PONDS WAITING TO DRY OUT TO GRADE |
| LORES TAKEN ON GAMM. | · RE GRADED DITCH SOUTH OF SOUTHLOT |
| LANDS LAP MAD. | WATTING ON SOR |

| 10.09.14 | |
|--------------------------------------|------|
| "WALL THRY" PUNCH LIST W/ (ASEYSDANE | |
| SEALING FINAL PATCHES. | |
| 10.10.14 | Ι, δ |
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Juno Tavoice No. 138664

| 11816 L | ACKLAND ROAD, | SUITE 150 + SAINT LOI | UIS, MISSOUR | l 63146 • TEL (314) | | • |
|---|---------------------------------|---------------------------------------|-------------------------|--|------------------|-----------------|
| | | | | | PGN | 10.007062 |
| Mark Thiel City of Lawrence Ka City Hall 6 E 6th Street Lawrence, KS 6604 | | | | January 17, 24 Project No: Invoice:No: | J021135.1 | 1 of Per SML |
| Project or Professional S | J021135.11 ervices through | Rock Chalk Pr December 31, 2013 fo | irk or the reference | ced project. | | |
| Fask Professional Perso | | 7110-Concrete Testing | - Field | | | |
| Concrete Testing - F | Field | | Hours | Rate | Amount | |
| Jeronimus, Concrete Cylinder P | | 11/25/2013 | 8.25 | 47.00 ノ | 387.75 | |
| Robinett, B | randon Totals Total Labor | 11/26/2013 | 3.00 11.25 | 47.00 | 141.00 528.75 | 528.75 |
| nit Billing | | | | | | UNICI U |
| oncrete Cylinders (| Cast on Site | | | | | |
| 11/25/2013 | | | 4.0 E | ach @ 18.00 | 72.00 | |
| 11/25/2013 | | | | ach @ 18.00 | 72.00 | |
| 11/25/2013 V 11/25/2013 | | | | ach @ 18.00 | 72.00 | |
| ehicle Mileage | | | 4.0 E | ach @ 18.00 | 72.00 | |
| 11/25/2013 | Jeronimus, Ro | bert 4125 | 97.0 | Mile @ 0.65 | 63.05 | |
| 11/26/2013 | Robinett, Bran | | |) Mile @ 0.65 | 65.65 | |
| | Total Units | | | | 416.70 | 416.70 |
| | | | | Total this | Task | \$945.45 |

TERMS: NET 30 DAYS; ON PAST DUE BALANCES, A SERVICE CHARGE WILL BE ASSESSED

NOTICE TO OWNER

FAILURE OF THIS CONTRACTOR TO PAY THOSE PERSONS SUPPLYING MATERIAL OR SERVICES TO COMPLETE THIS CONTRACT CAN RESULT IN THE FILING OF A MECHANIC'S LIEN ON THE PROPERTY WHICH IS THE SUBJECT OF THIS CONTRACT PURSUANT TO CHAPTER 429, Rs.Mo. TO AVOID THIS RESULT YOU MAY ASK THIS CONTRACTOR FOR 'LIEN WAIVERS' FROM ALL PERSONS SUPPLYING MATERIAL OR SERVICES FOR THE WORK DESCRIBED IN THIS CONTRACT. FAILURE TO SECURE LIEN WAIVERS MAY RESULT IN YOUR PAYING FOR LABOR AND MATERIAL TWICE.

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11816 LACKLAND ROAD, SUITE 150 • SAINT LOUIS, MISSOURI 63146 • TEL (314) 997-7440 • FAX (314) 997-2067

| Project | J021135.11 | Rock Chalk Park | | | Invoice | 94503 |
|----------------|------------------------|-----------------|-------|-------|--|------------|
| Profession | al Personnel | | | | | |
| ~ (* 1) | 4 • | | Hours | Rate | Amount | |
| Coordinatio | n/Management | | | | | |
| Da | mron, Stephen | 12/4/2013 | .25 | 95.00 | 23.75 | |
| Reports/En | gineering/Data Operati | ons | | | | |
| Du | ck, Linda | 11/25/2013 | .25 | 45.00 | 11.25 | |
| Du | ck, Linda | 12/5/2013 | .25 | 45.00 | 11.25 | |
| Du | ck, Linda | 12/12/2013 | .25 | 45.00 | 11.25 | |
| Pe | ckham, Jamie | 11/26/2013 | .25 | 45.00 | / 11.25 | |
| Pe | ckham, Jamie | 11/27/2013 | .25 | 45.00 | 11.25 | |
| Pe | ckham, Jamie | 12/16/2013 | .25 | 45.00 | 11.25 | |
| Pe | ckham, Jamie | 12/27/2013 | .25 | 45.00 | 11.25 | |
| | Totals | | 2.00 | | 102.50 | |
| | Total Labo | r | | | | 102.50 |
| | | | | Tot | al this Task | \$102.50 |
| | | | | Tatal | this invoice | 64.04T OF |
| | | | | iotal | uns mvoice | \$1,047.95 |
| | | | | | and the second s | |

TERMS: NET 30 DAYS; ON PAST DUE BALANCES, A SERVICE CHARGE WILL BE ASSESSED

NOTICE TO OWNER

FAILURE OF THIS CONTRACTOR TO PAY THOSE PERSONS SUPPLYING MATERIAL OR SERVICES TO COMPLETE THIS CONTRACT CAN RESULT IN THE FILING OF A MECHANIC'S LIEN ON THE PROPERTY WHICH IS THE SUBJECT OF THIS CONTRACT PURSUANT TO CHAPTER 429, Rs.Mo. TO AVOID THIS RESULT YOU MAY ASK THIS CONTRACTOR FOR 'LIEN WAIVERS' FROM ALL PERSONS SUPPLYING MATERIAL OR SERVICES FOR THE WORK DESCRIBED IN THIS CONTRACT. FAILURE TO SECURE LIEN WAIVERS MAY RESULT IN YOUR PAYING FOR LABOR AND MATERIAL TWICE.

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REPORT OF CONCRETE CYLINDER COMPRESSION TESTS

| PROJECT NO.: <u>13-228</u> | | | | | | DATE CAST: 5/19/2014 | | | | | |
|----------------------------|------------------|------------------------|-------------------|---------|-------------|---------------------------------------|-------------|------|------|----------|-----------|
| PROJ | ECT: | Rock Chalk Rec. (| | | | | | | | | |
| CLIEN | ŧT: | Bliss Sports | | | | | | | | | |
| CONT | RACTOR: | Fritzel | | | | | | | | | |
| SUPP | LIER: | Penny's Concrete | | | | | | | | | |
| | | | | | MIX DA | ТА | | | | | |
| DESIC | GN STRENG | GTH (Project Plans): | 3000 | | | | IIT WEIGHT: | | | | |
| | | (Project Plans): | | | | | PE OF MORTA | R: . | •••• | | ۰. |
| | | | | | | AD | MIXTURES: | | | | |
| DESIC | SN STRENG | GTH (Delivery Ticket): | 3000 | | | W/ | ATER: | - | | | |
| DESIC | GN SLUMP (| (Delivery Ticket): | 4 ⁿ | | | ĆE | MENT: | | | | |
| DESIC | GN MIX COL | DE (Delivery Ticket): | 30-564F1 | | | FINE AGGREGATE: | | | | | |
| | | | COARSE AGGREGATE: | | | | | | | | |
| | | | | CY | LINDER | ра | та | | | | |
| 1004 | TION OF PO | ามห | footing | | ning wall f | | | | | | |
| WEAT | | | 70° F overcast | | | | - | | | | |
| | K NO./TICK | ET NO. | 195-1094018 | | | SLUMP: <u>6.5"</u> | | | | | |
| | | RETE IN DELIVERY: | | | | · · · · · · · · · · · · · · · · · · · | | | | | |
| | | ADDED AT SITE: | 0 | | | CONCRETE TEMP.: 74° F | | | | | |
| | TEST TIME | | 1:52PM / 2;20 PM | | | UNIT WEIGHT: NT | | | | | |
| CYLIN | IDERS MAD | E BY: | TW | | | | KED UP BY: | - | AOG | | |
| | | | | | | | | - | | | |
| CYL. | AGE, | LABORATORY | | DATE | DATE O | F | CRUSHING, | PS | 51 | FRACTURE | REPORT |
| NO. | DAYS | NUMBER | F | REC'D | TEST | | LOAD LBS. | | | | DATE |
| 1 | 8 | 13-228 5-19 A | 5/ | 20/2014 | 5/27/201 | 4 | 62,920 | 5,0 | 010 | 4 | 5/27/2014 |
| 2 | 28 | 13-228 5-19 A | 5/. | 20/2014 | 6/16/201 | 4 | 75,820 | 6,0 | 30 | 4 | 6/16/2014 |
| 3 | 28 | 13-228 5-19 A | St. | 20/2014 | 6/16/2014 | 4 | 79,060 | 6.2 | 90 | 4 | 6/16/2014 |

79,060

74,240

6,290

5,910

FRACTURE CODE: C-CONE, CSP-CONE & SPLIT, CSH-CONE & SHEAR, S-SHEAR, COL-COLUMNAR

6/16/2014

5/20/2014

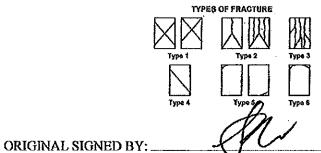
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6/16/2014

6/16/2014

REMARKS;

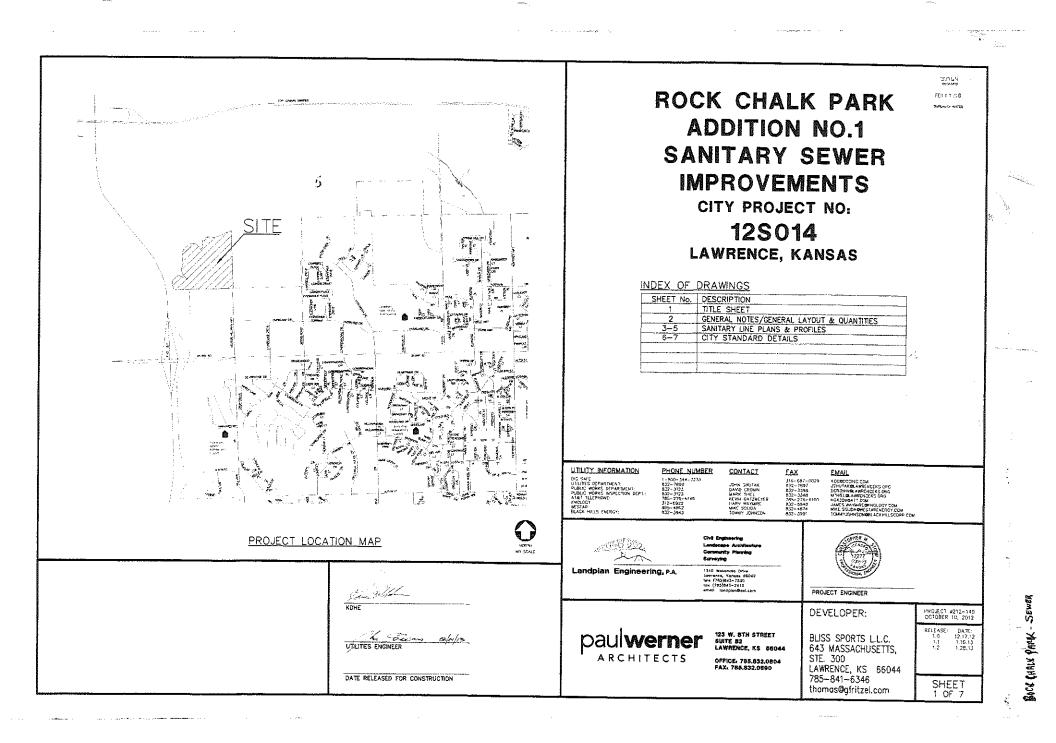
28

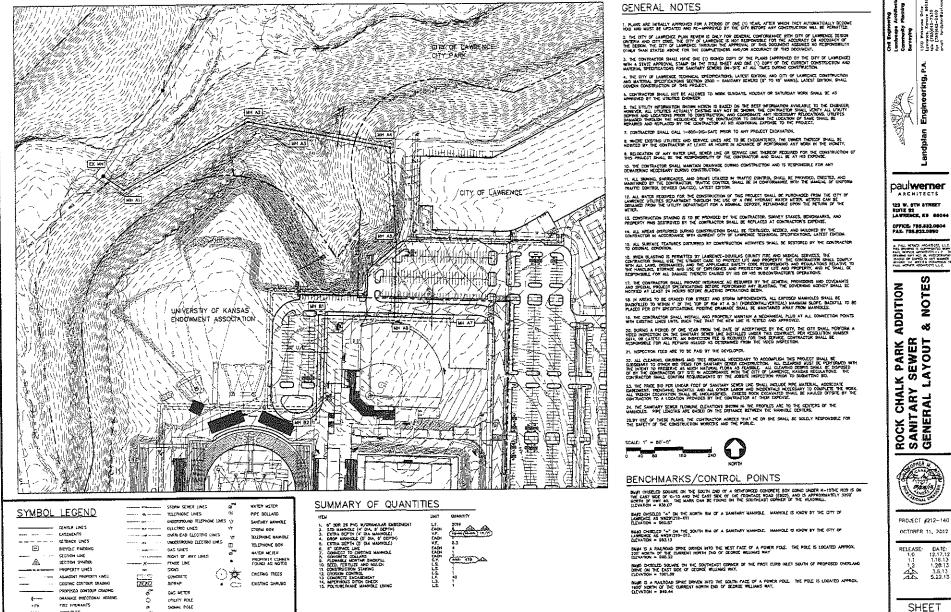
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13-228 5-19 A

13-228 5-19 A

13-228 5-19 A





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HANI-OLTS

WATER LINES

SANFTARY SEMER LINES

SUY ANCHOR

WATER VALVE

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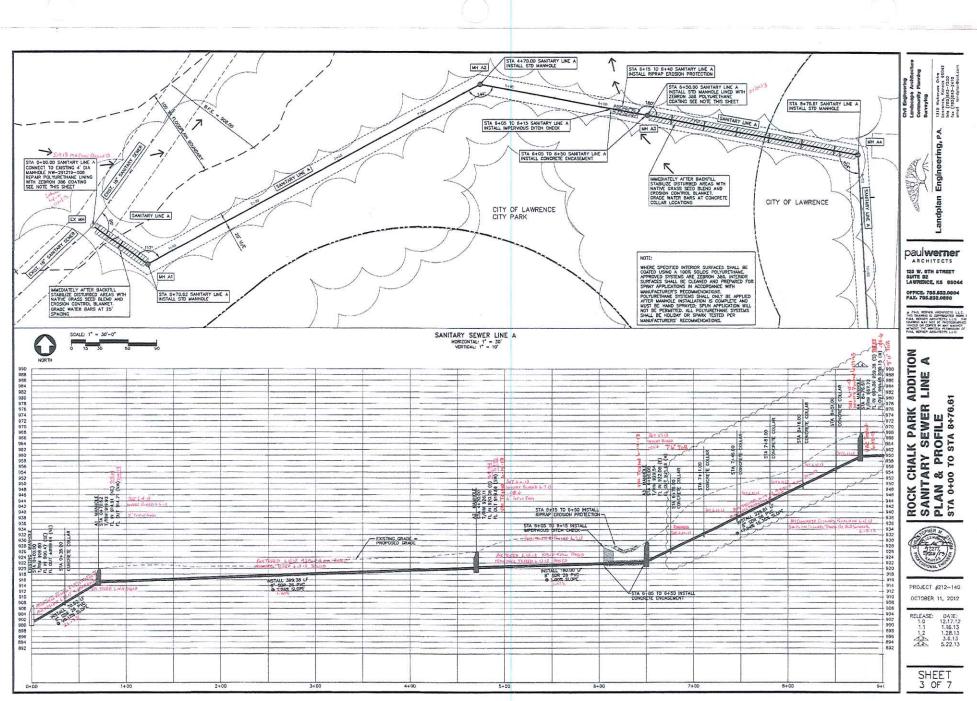
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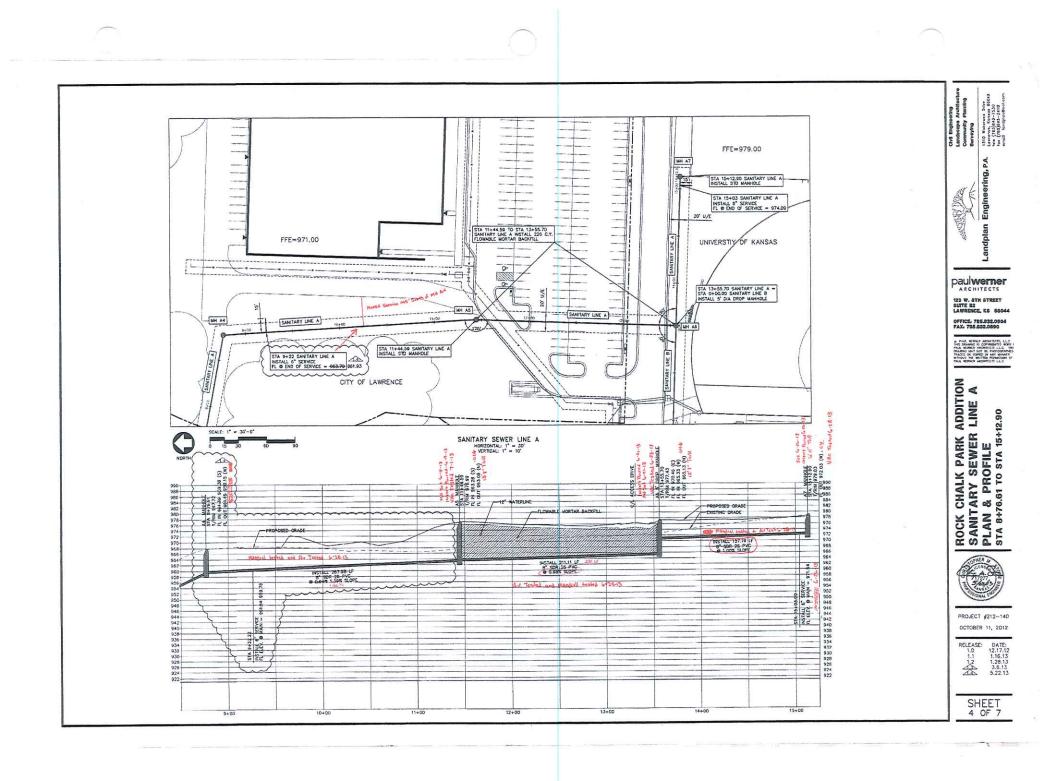
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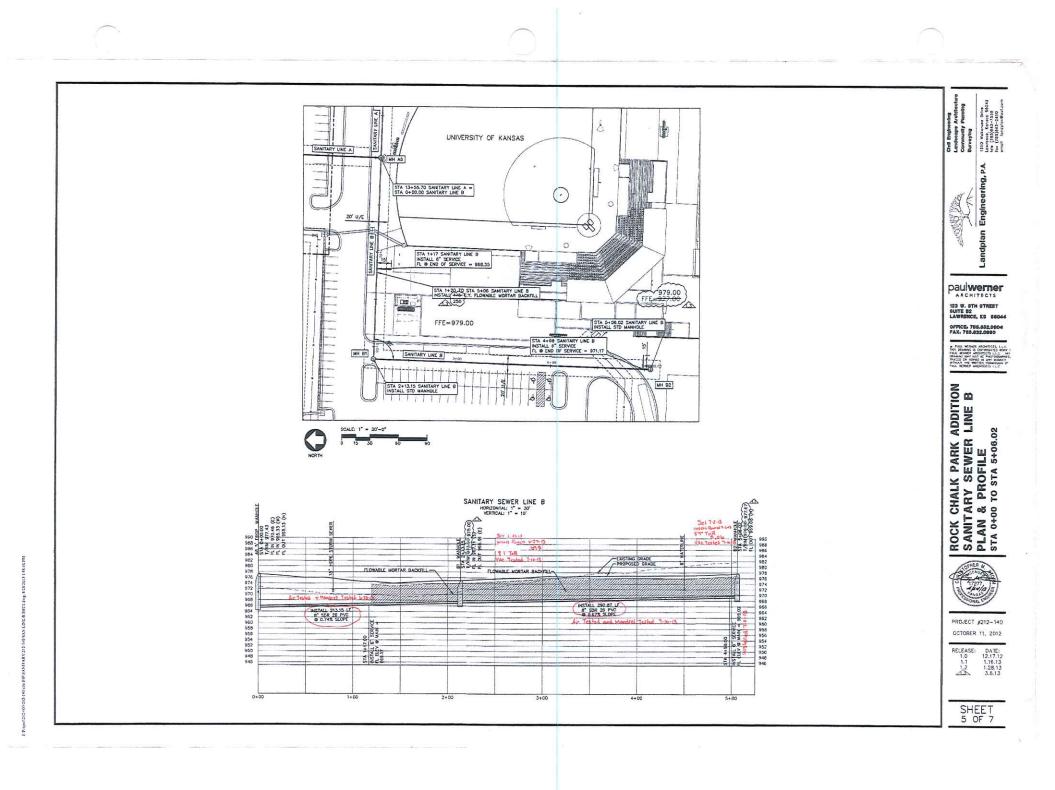
2 OF 7

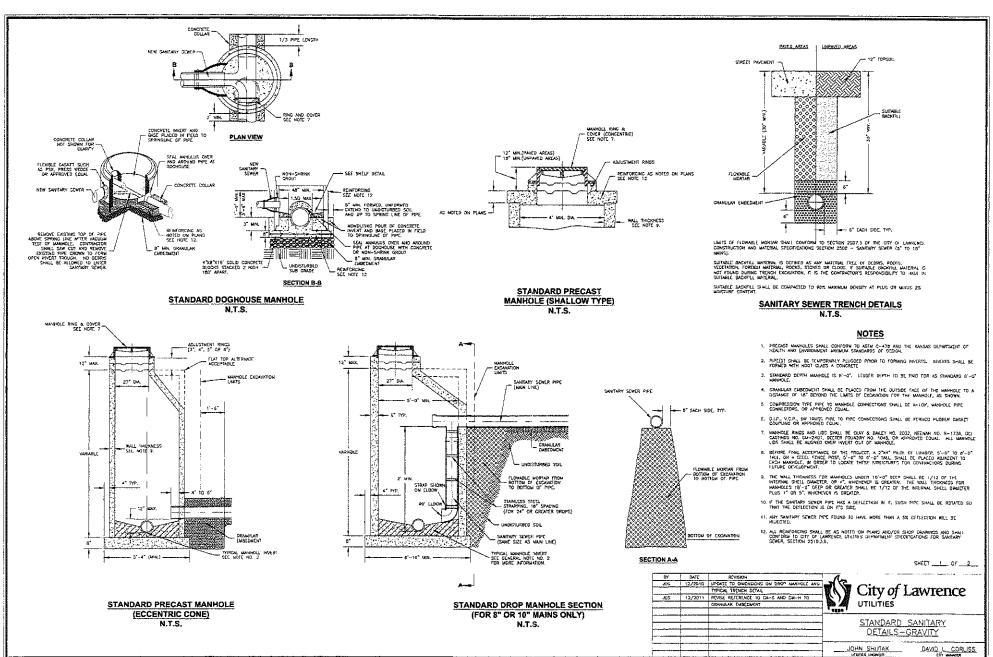
DATE: 12.17.12 1.16.13 1.28.13

3.6.13





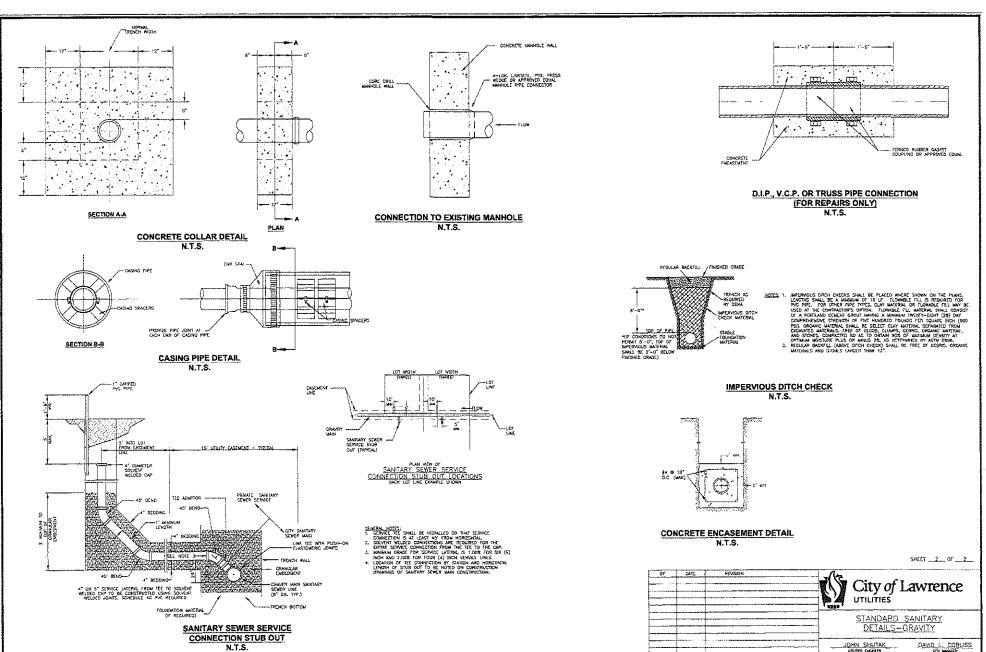




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REPORT OF CONCRETE CYLINDER COMPRESSION TESTS

| PROJECT NO .: | 12-436 | | DATE CAST: 4/4/2014 | | |
|---------------|------------------------|---------------------------------------|--|------|--|
| PROJECT: | Rock Chalk Sports | s Complex & Rec Center | ······································ | ~ | |
| CLIENT: | Bliss Sports | | | | |
| CONTRACTOR: | Fritzel | ······ | | | |
| SUPPLIER: | Penny's | · · · · · · · · · · · · · · · · · · · | | · | |
| | | MIX D | АТА | | |
| DESIGN STRENG | GTH (Project Plans): | 4000 | UNIT WEIGHT: | | |
| DESIGN SLUMP | (Project Plans): | | TYPE OF MORTAR: | | |
| | | | ADMIXTURES: | | |
| DESIGN STRENG | GTH (Delivery Ticket): | 4000 | WATER: | ···· | |
| DESIGN SLUMP | (Delivery Ticket): | 4 | CEMENT: | | |

DESIGN MIX CODE (Delivery Ticket): AS6525G4

CYLINDER DATA

FINE AGGREGATE:

| LOCATION OF POUR: | Paving; ramp between socc | er field and softball fiel | d |
|-------------------------------|---------------------------|----------------------------|-------------|
| WEATHER: | 40's°F / partly sunny | CYLINDER SIZE: | <u>4x8</u> |
| TRUCK NO./TICKET NO.: | 113/1093102 | SLUMP: | 6.00" |
| YARDS OF CONCRETE IN DELIVERY | . 10 | AIR CONTENT: | 8.0% |
| GAL OF WATER ADDED AT SITE: | 15 | CONCRETE TEMP .: | <u>68°F</u> |
| DISP./TEST TIME: | 8:17 a.m. / 9:00 a.m. | UNIT WEIGHT: | NT |
| CYLINDERS MADE BY: | <u>TW</u> | PICKED UP BY: | AOG |

| CYL. NO. | AGE, DAYS | LABORATORY NUMBER | DATE REC'D | DATE OF TEST | CRUSHING, LOAD LBS. | PSI | FRACTURE | REPORT DATE |
|-------------|--------------|--|---------------|-----------------|------------------------|-------|----------|----------------|
| 1 | 7 | 12-436 4-4 A | 4/5/2014 | 4/11/2014 | 57,060 | 4,540 | 4 | 4/11/2014 |
| 2 | 28 | 12-436 4-4 A | 4/5/2014 | 5/2/2014 | 85,140 | 6,780 | 4 | 5/2/2014 |
| 3 | 28 | 12-436 4-4 A | 4/5/2014 | 5/2/2014 | 86,060 | 6,850 | 4 | 5/2/2014 |
| 4 | 28 | 12-436 4-4 A | 4/5/2014 | 5/2/2014 | 85,480 | 6,800 | 4 | 5/2/2014 |
| 5 | н | 12-436 4-4 A | 4/5/2014 | | | | | |
| | | ••• • • | | | | | | |
| | | ······································ | | | | | | |
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| | | | | | | | | • |

FRACTURE CODE: C-CONE, CSP-CONE & SPLIT, CSH-CONE & SHEAR, S-SHEAR, COL-COLUMNAR

. • •

CC:

TYPES OF FRACTURE

3

COARSE AGGREGATE:

REMARKS:

ORIGINAL SIGNED BY: _



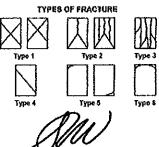
REPORT OF CONCRETE CYLINDER COMPRESSION TESTS

| PROJ CLIEN | IT: RACTOR: | 12-436 Rock Chalk Sports Bliss Sports Fritzel Penny's | - | | Center | | ATE CAST: <u>4/4</u> , | /2014 | | | |
|---------------|----------------|---|------------------------|----------|------------------|--------------------------|------------------------|-------|----------|-----------|--|
| | | | | | MIX DA | ТА | | | | • | |
| DESIC | SN STRENC | GTH (Project Plans): | 4000 | | μηλυλ | | NIT WEIGHT: | | | | |
| | | (Project Plans): | 1000 | | | TYPE OF MORTAR: | | | | | |
| | | () | | | | | MIXTURES: | | | | |
| DESIC | SN STRENC | STH (Delivery Ticket): | 4000 | | | W/ | ATER: | | | | |
| | | (Delivery Ticket): | 4 | | | CE | EMENT: | | | | |
| DESIC | SN MIX COL | DE (Delivery Ticket): | AS6525G | 4 | | FIN | NE AGGREGAT | E; | | | |
| | | | | | | CC | DARSE AGGRE | GATE: | | | |
| | | | | CV | LINDER | | ТА | | | | |
| 1004 | | าและ | Paving: ra | | | | and soccer fie | Ы | - | | |
| WEAT | | 5011. | 40's°F / sunny | | noon som | CYLINDER SIZE: 4x8 | | | | | |
| | K NO /TICK | ET NO.: | 139 / 1093125 | | | SLUMP: 5.50" | | | | | |
| YARD | S OF CON | RETE IN DELIVERY: | | | | AIR CONTENT: 7.5% | | | | | |
| GAL C | DF WATER | ADDED AT SITE: | 10 | | | CONCRETE TEMP.: 70°F | | | | | |
| DISP. | TEST TIME | : | 11:51 a.m. / 1:10 p.m. | | p.m. | UNIT WEIGHT: <u>NT</u> | | | | | |
| CYLIN | IDERS MAD | E BY: | TW | | ·· · · · · · · · | PICKED UP BY: <u>AOG</u> | | | ì | | |
| | | | | | | | | | | | |
| CYL. | AGE, | LABORATORY | Ð | ATE | DATE O |)F | CRUSHING, | PSI | FRACTURE | REPORT | |
| NO. | DAYS | NUMBER | | EC'D | TEST | | LOAD LBS. | | | DATE | |
| 1 | 7 | 12-436 4-4 B | | /2014 | 4/11/201 | 4 | 53,920 | 4,290 | 4 | 4/11/2014 | |
| 2 | 28 | 12-436 4-4 B | 4/5 | /2014 | 5/2/2014 | 4 | 86,260 | 6,860 | 4 | 5/2/2014 | |
| 3 | 28 | 12-436 4-4 B | 4/5/2014 | | 5/2/2014 | | 88,980 | 7,080 | 1 | 5/2/2014 | |
| 4 | 28 | | | 5/2/2014 | 4 | 83,640 | 6,660 | 1 | 5/2/2014 | | |
| 5 | 0 | 12-436 4-4 B | 4/5 | /2014 | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | : | | | | | |

FRACTURE CODE: C-CONE, CSP-CONE & SPLIT, CSH-CONE & SHEAR, S-SHEAR, COL-COLUMNAR

CC:

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ORIGINAL SIGNED BY: _

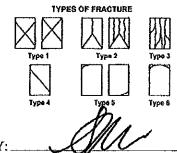


REPORT OF CONCRETE CYLINDER COMPRESSION TESTS

| PROJ | ECT NO.: | 12-436 | | | DATE CAST: 4/7/2014 | | | | | |
|----------------------------------|------------------|------------------------|--------------------|-----------|--|------------|----------|-----------|--|--|
| PROJ | ECT: | Rock Chalk Sport | ts Complex & Rec | Center | | | | | | |
| CLIEN | NT: | Bliss Sports | • | | | • | | ······ | | |
| CONTRACTOR: Fritzel | | | | | | | ····· | | | |
| SUPP | LIER: | Penny's | | | | | | | | |
| | | | | MIX DAT | A | | | | | |
| DESIGN STRENGTH (Project Plans): | | | 4000 | | INIT WEIGHT: | | | | | |
| DESIGN SLUMP (Project Plans): | | | | | YPE OF MORTA | R· | | <u></u> | | |
| | | (* **)****** | | | DMIXTURES: | | | | | |
| DESIC | GN STRENC | GTH (Delivery Ticket): | 5000 | | WATER: | | | | | |
| | | (Delivery Ticket): | 4 | | CEMENT: | | | | | |
| | | DE (Delivery Ticket): | AS6525G4 | | FINE AGGREGATE: | | | | | |
| | | | | | COARSE AGGREGATE: | | | | | |
| | | | C | YLINDER D | АТА | | | | | |
| LOCA | TION OF P | OUR: | | | cer field and softball field, east end | | | | | |
| WEAT | | | 40's°F / overcast | | CYLINDER SIZE: 4x8 | | | | | |
| | K NO./TICK | ET NO.: | 174 / 1093146 | | SLUMP: 5.75" | | | | | |
| YARDS OF CONCRETE IN DELIVERY | | | | | AIR CONTENT: 8.0% | | | | | |
| GAL OF WATER ADDED AT SITE: | | | 10 | | CONCRETE TEMP.: 67°F | | | | | |
| DISP./TEST TIME: | | | 8:28 a.m. / 9:20 a | | UNIT WEIGHT: NT | | | | | |
| CYLINDERS MADE BY: | | | TW | | PICKED UP BY: AOG | | | | | |
| | | | <u></u> | · | | <u>100</u> | <u></u> | | | |
| CYL. | AGE, | LABORATORY | DATE | DATE OF | CRUSHING. | PSI | FRACTURE | REPORT | | |
| NO. | DAYS | NUMBER | REC'D | TEST | LOAD L8S. | | | DATE | | |
| I | 7 | 12-436 4-7 A | 4/8/2014 | 4/14/2014 | 53,900 | 4,290 | 4 | 4/14/2014 | | |
| 2 | 28 | 12-436 4-7 A | 4/8/2014 | 5/5/2014 | 78,340 | 6,230 | 4 | 5/5/2014 | | |
| 3 | 28 | 12-436 4-7 A | 4/8/2014 | 5/5/2014 | 79,500 | 6,330 | 4 | 5/5/2014 | | |
| 4 | 28 | 12-436 4-7 A | 4/8/2014 | 5/5/2014 | 79,800 | 6,350 | 4 | 5/5/2014 | | |
| 5 | 0 | 12-436 4-7 A | 4/8/2014 | | | - 1 - 1 | | | | |
|] | | | | | | | | | | |
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FRACTURE CODE: C-CONE, CSP-CONE & SPLIT, CSH-CONE & SHEAR, S-SHEAR, COL-COLUMNAR

CC:



ORIGINAL SIGNED BY:



REPORT OF CONCRETE CYLINDER COMPRESSION TESTS

| | ECT NO.: | 12-436 | | | DATE CAST: 4/10/2014 | | | | | |
|--|------------------|--|------------------------|-----------|---------------------------------------|-------|---|-----------|--|--|
| PROJ | | Rock Chalk Sports Complex & Rec Center | | | | | | | | |
| CLIEN | | Bliss Sports | | | | | | | | |
| | RACTOR: | Fritzel | | | · · · · · · · · · · · · · · · · · · · | | · . · · · · · · · · · · · · · · · · · · | ····· | | |
| SUPP | LIER: | Penny's | | | | | | | | |
| | | | | MIX DAT. | A | | | | | |
| DESIC | ON STRENC | STH (Project Plans): | 4000 | L | UNIT WEIGHT: | | | | | |
| DESIGN SLUMP (Project Plans): | | | | | YPE OF MORTA | R: | | | | |
| | | | | A | DMIXTURES: | | | | | |
| DESIC | IN STRENC | STH (Delivery Tickel): | <u>5000</u> | ν | WATER: | | | | | |
| DESIG | GN SLUMP (| (Delivery Ticket): | 4 | 0 | CEMENT: | | | | | |
| DESIGN MIX CODE (Delivery Ticket): | | | AS6525G4 | | FINE AGGREGATE: | | | | | |
| | | | | C | OARSE AGGRE | GATE: | | | | |
| | | | CY | LINDER D | АТ А | | | | | |
| CYLINDER DATA LOCATION OF POUR: Paving; aproach off of N. Hual Rd. west end | | | | | | | | | | |
| WEAT | | | 50's-60's°F / partl | | | | | | | |
| TRUCK NO./TICKET NO.: | | | 112 / 1093254 | | SLUMP: 2.50" | | | | | |
| YARDS OF CONCRETE IN DELIVERY | | | | | AIR CONTENT: 7.4% | | | | | |
| GAL OF WATER ADDED AT SITE: | | | 5 | | CONCRETE TEMP .: | | | | | |
| DISP./TEST TIME: | | | 9:36 a.m. / 10:10 a.m. | | UNIT WEIGHT: NT | | | | | |
| CYLINDERS MADE BY: | | | TW | | PICKED UP BY: AO | | | | | |
| | | | | | | | ******** | | | |
| CYL. | AGE, | LABORATORY | DATE | DATE OF | CRUSHING, | PSI | FRACTURE | REPORT | | |
| NO. | DAYS | NUMBER | REC'D | TEST | LOAD LBS. | | | DATE | | |
| | 7 | 12-436 4-10 A | 4/11/2014 | 4/17/2014 | 68,900 | 5,480 | 4 | 4/17/2014 | | |
| _2 | 28 | 12-436 4-10 A | 4/11/2014 | 5/8/2014 | 89,460 | 7,120 | . 4 | 5/8/2014 | | |
| 3 | 28 | 12-436 4-10 A | 4/11/2014 | 5/8/2014 | 90,880 | 7,230 | 4 | 5/8/2014 | | |
| 4 | 28 | 12-436 4-10 A | 4/11/2014 | 5/8/2014 | 88,120 | 7,010 | 4 | 5/8/2014 | | |
| _5 | H | 12-436 4-10 A | 4/11/2014 | | | | | | | |
| | | | | | | | | | | |
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FRACTURE CODE: C-CONE, CSP-CONE & SPLIT, CSH-CONE & SHEAR, S-SHEAR, COL-COLUMNAR

CC:

REMARKS:

ORIGINAL SIGNED BY:

TYPES OF FRACTURE

Type 2

Type 5

Туре З

Type 6

Fype i

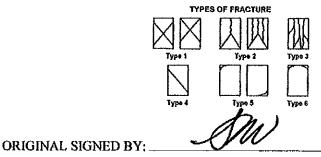


REPORT OF CONCRETE CYLINDER COMPRESSION TESTS

| PROJ | IECT NO .: | 13-228 | DATE CAST: 4/23/2014 | | | | | | | |
|------------------------------------|------------------|------------------------|-------------------------------|---|-----------------------------|------------|----------|-----------|--|--|
| PROJ | IECT: | Rock Chalk Rec. Center | | | | | | | | |
| CLIEN | NT: | Bliss Sports | | | | | | | | |
| CONT | FRACTOR: | Sanflower | | | | | | | | |
| SUPP | LIER: | Penny's | | | | | | | | |
| | | | | MIX DATA | 4 | | | | | |
| DESIC | GN STRENC | STH (Project Plans): | 4000 | U | NIT WEIGHT: | | | | | |
| DESIC | SN SLUMP | (Project Plans): | <u>6" Max</u> | Υ | TYPE OF MORTAR: | | | | | |
| | | | | A | ADMIXTURES: | | | | | |
| DESK | GN STRENC | TH (Delivery Tickel): | 4000 | v | WATER: | | | | | |
| DESIGN SLUMP (Delivery Ticket): | | | 4 | C | CEMENT: | | | | | |
| DESIGN MIX CODE (Delivery Ticket): | | | AS6425G4 | F | FINE AGGREGATE: | | | | | |
| | | | | c | COARSE AGGREGATE: | | | | | |
| | | | СҮ | LINDER D | АТА | | | | | |
| LOCA | TION OF PO | DUR: | Paving; Rec. cent | Paving: Rec. center parking lot east side | | | | | | |
| WEA1 | THER: | | 70's°F / sunny | C | CYLINDER SIZE: 4x8 | | | | | |
| TRUCK NO./TICKET NO.: | | | 146 / 1093534 | \$ | SLUMP: 5.50" | | | | | |
| YARDS OF CONCRETE IN DELIVERY | | | 10 | Α | AIR CONTENT: 8.0% | | | | | |
| GAL OF WATER ADDED AT SITE: | | | 5 | ¢ | CONCRETE TEMP.: <u>68°F</u> | | | | | |
| DISP./TEST TIME: | | | <u>12:06 p.m./ 12:40 p.m.</u> | | UNIT WEIGHT: <u>NT</u> | | | | | |
| CYLINDERS MADE BY: | | | TW | | ICKED UP BY: | <u>A0G</u> | | | | |
| | | 1 | | - <u> </u> | | | | | | |
| CYL. | AGE, | LABORATORY | DATE | DATE OF | CRUSHING, | PSI | FRACTURE | REPORT | | |
| NO. | DAYS | NUMBER | REC'D | TEST | LOAD LBS. | | | DATE | | |
| | 7 | 13-228 4-23 A | 4/24/2014 | 4/30/2014 | 49,340 | 3,930 | 4 | 4/30/2014 | | |
| 2 | 28 | 13-228 4-23 A | 4/24/2014 | 5/21/2014 | | | | | | |
| 3 | 28 | 13-228 4-23 A | 4/24/2014 | 5/21/2014 | | | | | | |
| _4 | 28 | 13-228 4-23 A | 4/24/2014 | 5/21/2014 | | | | | | |
| 5 | 0 | 13-228 4-23 A | 4/24/2014 | | | | | | | |
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FRACTURE CODE: C-CONE, CSP-CONE & SPLIT, CSH-CONE & SHEAR, S-SHEAR, COL-COLUMNAR

CC:



REMARKS:

Water line II



PW1315_RockChalkPark_AdditionNo1 2013-2014

Contractor: Kings Construction

07/08/13 Monday Low 74 High 99 Sunny Crew 3 The crew was onsite working on storm sewer. They had several deliveries of 12-inch PVC waterline. I met with Lonnie to ensure he would notify me of anything with inspection. KN

07/09/13 Tuesday Low 75 High 100 Sunny Crew 3 John called to let me know about a meeting at Rock Chalk at 1:30. John gave me the plans for the waterline. I attended the meeting at Rock Chalk. I met with Lonnie. He showed me the staging area for fittings for the waterline. He requested inspection for the Zebron coating for two manholes this afternoon. KN

07/18/13 Thursday Low 73 High 97 Sunny Crew 3 I went to the north end of George Williams Way. I shut down the water line 500' from Overland Drive. I drained the line and met with Lonnie from Kings over construction plans. Kings installed the 80' of 12-inch PVC and connected to the existing valve. They were waiting to backfill to see if they needed to install a conduit 2-3' from the waterline excavation. I went to George Williams Way and turned on the waterline. I flushed for 20 minutes. The crew had backfilled the line. Lonnie called from Kings to notify to start the waterline at Rock Chalk tomorrow upon delivery of the 12-inch cross. At Rock Chalk, Kings connected to the existing 12-inch valve and installed 80' of 12-inch PVC. I flushed the line for 20 minutes. KN

07/19/13 Friday Low 73 High 99 Sunny Crew 5 I went to the meeting at City Hall over Rock Chalk Park. I went to Rock Chalk. Kings installed the 12-inch cross and 4 12-inch valves along with 8' of 12-inch pipe. Lonnie and I discussed some project details. I found out that all the construction staking was being completed by one person who was Fritzles employee. Bob S came out and took GPS shots. The crew was installing 12-inch PVC pipe. The crew installed 100' of pipe. The crew installed another 100' of 12-inch PVC. At Rock Chalk, Kings installed 200' of 12-inch PVC, 4 12-inch valves, and a 12-inch cross. KN

07/22/13MondayLow 72High 95SunnyCrew 5I went to Rock Chalk. The crew was installing 12-inch PVC waterline. The crew installed100' of pipe. I talked to Lonnie and told him that at the meeting tomorrow, it was going

to be discussed about the backfill on the sanitary sewer line. Lonnie told me that Dan had a crew backfill the area on Friday. He said that Alpha Omega tested the compaction. I sent an email to Bob B about the situation. The crew installed another 60' of pipe. The crew installed a 12-inch valve, a hydrant tee, and a 6-inch valve. I discussed with Lonnie that the hydrant legs would need to be restrained from the tee to the hydrant. He was going to order a bell restraint for the long hydrant leg. I met with Jermaine from Alpha Omega and he said that his office could email the compaction results. The crew installed another 100' of 12-inch PVC pipe. At Rock Chalk, Kings installed 260' of 12-inch PVC, 1 12-inch valves, and a hydrant tee with 6-inch valve. KN

07/23/13 Tuesday Low 66 High 89 Sunny Crew 3 I went to Rock Chalk. The crew was assembling some of the valve clusters and hydrant tee with valves. I attended the update meeting for Rock Chalk. I met with Bob B and Mike after the meeting. The crew was still tightening bolts on the valves and tee's. The crew started to install pipe. They installed 60' of 12-inch PVC. I met with Bob B over Rock Chalk. I went by Oregon Trails and picked up the flow able fill tickets for Rock Chalk. I went to Rock Chalk. The crew installed another 60' of pipe. The crew installed a 12-inch valve, a hydrant tee, and a 6-inch valve. The crew installed anther 60' of 12-inch PVC pipe and a hydrant assembly. They installed the bell restraint and polywrapped it on the long hydrant leg. At Rock Chalk, Kings installed 180' of 12-inch PVC, 1 12-inch valves, hydrant, and a hydrant tee with 6-inch valve. KN

07/24/13 Wednesday Low 65 High 90 Sunny Crew 2 I went to Rock Chalk. The crew installed the first hydrant leg on waterline A. They set the hydrant. The crew installed one joint of pipe. The crew poured seven thrust blocks for Waterline A. They backfilled some of the excavations. I met with Bob B over Rock Chalk. We went over vertical depths. I went to Rock Chalk. The crew installed another joint of pipe. I measured all of the manhole depths. I found that the extra vertical depth was around 18.66. The crew installed a 12x12x12 MJ Tee and 2 12-inch valves. The crew installed another joint of pipe. The crew started on Waterline D and encountered a layer of rock. They had to use a breaker. At Rock Chalk, Kings installed 60' of 12-inch PVC, two 12-inch valves, hydrant, and seven thrust blocks. KN

07/25/13 Thursday Low 63 High 88 Sunny Crew 3 I went to Rock Chalk. The crew started on waterline D. The crew installed three joints of pipe. Lonnie and I met over the flow able fill locations. Only one of the hydrant legs at station 4+58.24 will require flow able fill. The other hydrant on line A does not have the sidewalk cross the leg. The crew poured 20 cubic yards of flow able fill. The crew installed another three joints of pipe. They encountered a shelf of rock. The crew deflected the pipe to clear underneath the storm sewer by a foot. The crew continued to excavate the layer of rock. They had to use a breaker. The crew installed another six joints of pipe and went under the storm sewer pipe. Lynn electric was out and started to install two 4" conduits. They stayed over 24-inches or more from the waterline to the south. The crew backfilled the excavations. At Rock Chalk, Kings installed 240' of 12inch PVC, and poured 20 cubic yards of flow able fill. KN

assembly and plug to the east, and 11' of 8-inch pipe. The crew was started in on line E. They crew installed two 8-inch 45 elbows, and excavated for the vault. At Rock Chalk, the crew backfilled part of line F and poured four thrust blocks. They used concrete that was extra from the concrete crew pouring the footings for the building. At Rock Chalk, the crew installed 11' of 8-inch PVC, one 3-inch valve, two 8-inch 45 elbow, one hydrant assembly, and poured 4 thrust blocks. KN

08/21/13 Wednesday Low 68 High 92 Sunny Crew 4 I went to Rock Chalk. Bob B and Mike L stopped by to discuss the waterline C relocation. Mike wants to be 4' to the west of any bump outs on the access road. We discussed about staking for the access road and the building. Testing of the waterline was discussed and the subject was relayed to Lonnie with Kings yesterday. The crew continued to excavate on waterline E. The crew installed the backflow vault. The crew installed 120p of 12-inch PVC pipe. They installed 21' of 8-inch pipe on the private line along with one 8-inch valve, one hydrant assembly, and the backflow preventer. At Rock Chalk, the crew installed 120' of 12-inch PVC, one private 8-inch valve, one private hydrant assembly, set the base to the backflow vault, and 21' of 8-inch private pipe. KN

08/22/13 Thursday Low 69 High 91 Sunny Crew 3 Mike L called about a meeting at Rock Chalk. I went to Rock Chalk. I met with James Kings, Chris Storm, Paul Warner, Thomas F, and Casey. WE discussed the alignment of the access road and waterline. The new waterline location is supposed to be 30-32' west of the practice track. Kings was installing megalugs on the 8-inch ductile iron spools for the backflow preventer. The crew reinstalled the hydrant and valve. The crew continued on water line E, the private line. The crew installed five joints of pipe. The crew installed another 4 joints of 8-inch pipe on waterline E. They backfilled the pipe. At Rock Chalk, the crew installed 180' of 8-inch PVC pipe. KN

08/23/13 Friday Low 72 High 93 Crew 4 Sunny I went to Rock Chalk. The crew was working on waterline E. The crew installed two joints of pipe. Lynn Electric was installing 4-inch conduit for fiber. The crew poured four thrust blocks and plugged the ends of the backflow vault. Bob S came out and took GPS shots of the waterline and the fiber line. The crew installed another joint of pipe. The crew installed another joint of pipe. They had encountered rock and had to hammer at the north end of line E for about 90'. The crew was waiting for a hydrant tee and plug to complete the installation. The crew backfilled the line. I met with Lonnie over testing the waterlines. He said that Thomas was going to pull them off waterline to excavate the footings for the recreation center next week. The crew installed the hydrant plugged to the north with 12' of 8-inch PVC. I saw that the waterline on the west side of the stadium was staked. I met with the surveyor who staked the waterline at 29' from the practice track. I met with Casey and he said that Lonnie knew that was 1' off. I checked with Lonnie and he did not know. Lonnie and myself are going to check the staking out and measure it on Monday to verify the distance. At Rock Chalk, the crew installed 92' of 8-inch PVC pipe, one hydrant assembly with a plug, and poured four thrust blocks. KN

08/26/13 Monday Low 70 High 96 Sunny Crew 0 I went to Rock Chalk. The crew was excavating for footings and not working on the waterline. I saw that Lynn Electric was excavating for the 4-inch conduit for fiber optic.

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08/05/13 Monday Low 71 High 87 Pt Cloudy Crew 3 I went to Rock Chalk. The crew continued on waterline D. The crew was clearing the roadway. The access roads were very muddy from the rain last night. The crew graded the roads. They added rock on the exit road. The crew excavated for the valve cluster and hydrant for the connection from Waterline D to Waterline C. The crew installed one joint of pipe. They took elevation shots to determine waterline depth. The crew installed a 17' piece of pipe and a 12-inch valve. The crew assembled one 12-inch valve and a 12x12x12 MJ Tee. The crew poured 37 cubic yards of flow able fill. The crew installed another 15'of pipe. The crew installed the hydrant assembly and one 12-inch valve. The crew installed a joint of pipe and a 5' piece of pipe. The crew backfilled the excavations. We measured out the locations for flow able fill on waterline D and waterline C. At Rock Chalk, Kings the crew installed 77' of 12-inch PVC, three 12-inch valve, 12x12x12 MJ Tee, one hydrant assembly, and poured 37 cubic yards of flowable fill. KN

Tuesday 08/06/13 Low 71 High 91 Sunny Crew 4 I went to Rock Chalk. The crew continued on waterline C. The crew was clearing the roadway. The access roads were very muddy from the rain last night. The crew graded the roads. They added rock on the exit road. The crew installed ten joints of pipe. I met with Bill from public works over Rock Chalk. He wanted help with the totals for the 4inch conduits that were beside the waterline ditch. I measured the lengths of the dual 4inch conduits and checked stations to compare lengths. I called Bill and left a message. The crew installed another three joints of pipe. Bill called about the conduit totals. He is going to turn in the station footage of 676' times two. The crew assembled two 12-inch valves, a 12x12x8 MJ Tee plugged to the north, and one 12-inch 45 elbow. The crew poured 20 cubic yards of flow able fill. Kings chose to pour an extra 22' that was under the pavement from station 25+14 to 25+36. The crew installed another four joints and 4' of 12-inch pipe. The crew backfilled the excavations. We measured out the locations for flow able fill on waterline C. At Rock Chalk, Kings the crew installed 344' of 12-inch PVC, two 12-inch valves, 12x12x8 MJ Tee plugged to the north on the 8-inch, one 12inch 45 elbow, and poured 20 cubic yards of flowable fill. KN

08/07/13 Wednesday Low 67 High 87 Sunny/Rain Crew 3 I went to Rock Chalk. The crew continued on waterline C. The crew was clearing the roadway. The access roads were very muddy from the rain last night. The crew graded the roads. They added rock on the exit road. The crew installed three joints of pipe. The crew continued to clear the road for possible flow able fill and concrete this afternoon. I met with Lynn Electric to see what totals they had on the conduits that were beside the waterline ditch. They did not have any totals. The crew installed another joint of pipe and a 12-inch 45 elbow. The crew continued to install pipe on waterline C. Bob S came out and took GPS shots. The crew installed two more joints of 12-inch PVC pipe. The crew assembled one 12-inch valve, 8' of pipe, and one 90 MJ elbow. The crew assembled the hydrant with a valve and anchor tee but did not install it. Lonnie canceled the concrete and flow able fill due to the rain over lunchtime. The crew backfilled the excavations. The crew built the 2-3' tall burm for erosion control. The burm had to be excavated for the new waterline. At Rock Chalk, Kings the crew installed 128' of 12-inch PVC, one 12-inch valve, one 12-inch 45 elbow, and one 12-inch 90 elbow. KN

07/26/13 Friday Low 68 High 89 Sunny Crew 3 The crew continued on waterline D. The crew installed three joints of pipe. The crew installed two joints of 12-inch pipe. The crew went to work on storm boxes. The crew installed another three joints of pipe. The crew installed another joint of pipe and the hydrant assembly with a 12-inch valve to the west. The crew poured two thrust blocks. The crew installed one more joint of pipe. At Rock Chalk, Kings installed 200' of 12-inch PVC, one 12-inch valve, one hydrant assembly, and poured 2 thrust blocks. KN

07/30/13 Tuesday Low 68 High 84 Cloudy Crew 3 I went to Rock Chalk. The crew continued on waterline D. The crew installed 5 joints of pipe. The crew installed another 8 joints of pipe and encountered rock for 120'. The crew continued to install 12-inch PVC on water line D. The crew installed another 5 joints of pipe. At Rock Chalk, Kings the crew installed 360' of 12-inch PVC. KN

07/31/13 Wednesday Low 68 High 88 Sunny Crew 3 I went to Rock Chalk. The crew was excavating on waterline D. The crew installed 28' of 12-inch PVC and a 90 elbow. The crew poured 30 cubic yards of flow able fill. The crew installed another 40' of pipe. The crew assembled two 12-inch valves with a hydrant tee with a 6-inch valve and 3' of 12-inch PVC pipe. The crew installed the valve cluster. The crew installed the hydrant 3' hydrant leg and hydrant. I met with Kyle and went over project quantities on the waterline. Thomas F stopped by and asked questions about the pipe totals and project status. He was concerned about the conduits that they were not over the waterline. The crew installed another 58' of 12-inch PVC pipe. At Rock Chalk, Kings the crew installed 129' of 12-inch PVC, one hydrant assemble, one 12-inch 90 elbow, two 12-inch valves, and poured 30 cubic yards of flow able fill. KN

08/01/13 Thursday Low 70 High 92 Sunny Crew 3 I went to Rock Chalk. The crew continued on waterline D. The crew installed valve boxes on waterline D and waterline A. They backfilled the various valve locationsThe crew poured tee thrust blocks for the 90 elbow and hydrant. The crew installed 4 joints of pipe. The crew continued to install 12-inch PVC on water line D. The crew installed another 6 joints of pipe. The 4-inch conduit is going to be installed on the west side where the water goes north and is on the east side. At Rock Chalk, Kings the crew installed 200' of 12-inch PVC and poured 3 thrust blocks. KN

08/02/13 Friday Low 71 High 88 Sunny/Rain Crew 3 I went to Rock Chalk. The crew continued on waterline D. The crew was clearing the roadway. The access roads were very muddy from the rain last night. The crew installed five joints of pipe. The crew assembled one 12-inch valve and hydrant assembly. The crew installed another four joints of pipe. The crew backfilled the excavations. We measured out the locations for flow able fill on waterline D. At Rock Chalk, Kings the crew installed 180' of 12-inch PVC, one 12-inch valve, and one hydrant assembly. KN

08/03/13 Saturday Low 66 High 88 Cloudy Crew 3 I went to Rock Chalk. The crew continued on waterline D. The access roads were very muddy from the rain last night. The crew installed 12 joints of pipe. The crew backfilled the excavations. We measured out the locations for flow able fill on waterline D. At Rock Chalk, Kings the crew installed 240' of 12-inch PVC. KN 08/08/13 Thursday Low 69 High 77 Rain/Cloudy Crew 3 I went to Rock Chalk. The crew continued on waterline C. The crew was clearing the roadway. The access roads were very muddy from the rain last night. The crew graded the roads. They added rock on the exit road. The crew took elevation shots for the hydrant assembly. I went to the update meeting for Bob Billings and Iowa. It was canceled. I went back to Rock Chalk. The crew installed 5' of pipe and a hydrant assembly. The crew installed a 10' piece of 12-inch pipe. It started to sprinkle out. The crew installed one more joint of pipe and backfilled part of the excavation. At Rock Chalk, Kings the crew installed 35' of 12-inch PVC, and one hydrant assembly. KN

08/09/13 Friday Low 65 High 85 Rain/Cloudy Crew 3 I went to Rock Chalk. The crew continued on waterline C. The crew dug out for 11 thrust blocks to be poured. The crew cut poly wrap and covered the fittings. The crew poured 11 thrust blocks. The crew unloaded a storm box and went to work Storm Sewer boxes. Bob came out and took GPS shots. The crew continued to install pipe on waterline C. The crew installed 80' of 12-inch PVC pipe. The crew poured 40 cubic yards of flow able fill from station 21+87 to 23+82. The crew installed another two joints of 12-inch pipe. At Rock Chalk, Kings the crew installed 120' of 12-inch PVC, poured 11 thrust blocks, and poured 40 cubic yards of flowable fill. KN

08/12/13 Monday Low 66 High 87 Rain/Cloudy Crew 3 The crew was delayed till 10 am from rain. I went to Rock Chalk. The crew graded the mud around the site. They continued to excavate on waterline C. The crew was into about 2' of rock. They had to go under the storm sewer since it was installed at a higher elevation than the plans. The crew installed four joints of pipe. They had 12-inches separation below the storm sewer. The crew moved the sand piles and had to have rebar moved to continue on south for waterline C. At Rock Chalk, the crew installed 80' of 12-inch PVC. KN

08/13/13 Tuesday Low 59 High 85 Crew 4 Sunny I went to Rock Chalk. I attended the update meeting. The crew continued to excavate on waterline C. The crew was into about 2' of rock. The crew installed two joints of pipe. The crew installed a 12-inch 90 elbow. The crew installed another five joints of pipe. Matt from Kings called with questions over relocating the ten meter tiles along Iowa. Lonnie told me that Thomas F requested them to install the new waterline C on the west side of the stadium 10' to the east. I instructed Lonnie to stop at that point until the plans and easements could be changed. I notified Bob B and Malinda. I talked to Taylor with Kings and Tim with HD supply over some submittals that were not shown and acceptable materials. The crew installed four joints of pipe. Melinda called about the waterline relocation on water line C. I talked with Lonnie and he said that Casey told the staking crew to move the stakes because the waterline would be under the practice track. I talked with Time from HD Supply. He emailed the updated submittals and said he had an approved submittal for the 3-inch anchor couplings on May 2. He said that they do not make FBC 3-inch anchor couplings. There is a crane in the way so the crew was going to work on Waterline C where is goes east at Waterline D interception. The crew installed a 6-inch valve and anchor tee. Melinda called and we discussed the 3-inch pipe and anchor coupling. I talked to Lonnie and Tim. Tim from HD supply has all the 3inch parts and Lonnie will pick them up tomorrow. The crew installed another two joints

of pipe. At Rock Chalk, the crew installed 282' of 12-inch PVC, one 12-inch 90 elbow, one 6-inch valve, and one 12x12x6 anchor tee. KN

08/14/13 Wednesday Low 58 Sunny Crew 3 High 80 I went to Rock Chalk. The crew continued to excavate on waterline C. The crew installed three joints of pipe. The crew installed a 12x12x3 MJ tee, hydrant tee with valve plugged to the east, and 17' of pipe. The crew was installing valve boxes and backfilling the waterline. The crew installed three joints of pipe on water line C. Melinda called about the waterline relocation on water line C. Lonnie and I caught up with Casey. He explained that any distance we could move the waterline to the east would be beneficial in the future because the practice track is only 6' away from the waterline and if any maintenance in the future could possible cause damage to the practice track. He said even 5' would be great. Lonnie had a guestion about how many vaults there were. Cretex said there was only two. I showed Lonnie were the three vaults were located. The crew poured five thrust blocks on waterline C. At Rock Chalk, the crew installed 137' of 12-inch PVC, one 12x12x3 MJ Tee, one hydrant anchor tee with 6-inch valve, one 12inch plug, and poured 5 thrust blocks. KN

08/15/13 Thursday Low 63 High 75 Pt Cloudy Crew 3 I went to Rock Chalk. The crew continued to excavate on waterline C. The crew installed one 12-inch valve, one hydrant assembly and 25' of 12-inch PVC. The crew was installed another joint of pipe. They broke 11 conduits that crossed the waterline 27' south of the fire hydrant. They found another 3 conduits crossing at an angle 48' south of the fire hydrant. I met with Bob over updates at Rock Chalk. I went to Rock Chalk. The crew was excavating on waterline C. The crew installed two joints of pipe. The crew installed a 12x12x12 MJ Tee, 12x8 reducer and one 8-inch valve. I met with Lonnie. I found that the ground crew had compacted the base for the practice track and were filling the area to the west of the track. The area east of the track was slope to the track. The tracks base went to the middle of the utility easement and the edge of the track would be only 4' from the center of the waterline. It appeared that the access road was moved or eliminated and instead just dirt sloped to drain. This would affect the elevation of the hydrants and access for the hydrants. I took a picture and sent it to Melinda. I called Melinda to discuss the details. I notified Bob B of the situation and asked to meet in the morning. The crew installed two joints of pipe. At Rock Chalk, the crew installed 125' of 12-inch PVC, one 12x12x12 MJ Tee, one hydrant assembly, one 8-inch valve, one 12inch valve, and one 12x8 MJ reducer. KN

08/16/13 Friday Low 57 High 81 Sunny Crew 3 I went to Rock Chalk. The crew continued to excavate on waterline C. The crew installed one 3-inch valve, and one hydrant with leg. Bob called and was onsite with Dave O. We discussed the waterline C location from station 6+24.44 to 12+35.01. There are conflicts with the location since they moved the practice track 43' from the edge of the stands and are moving the access road to the west 8' from the practice track. The crew was poured four thrust blocks. Dave W and Mike L were onsite to look at the conflict. The crew backfilled the hydrant legs. The crew continued on waterline C. They installed four joints of 12-inch pipe. Bob B called and asked me to attend a meeting on the waterline conflict. Mike L, Bob B, James K, Thomas F, Casey, and myself discussed the changes west of the track stadium. The practice track is 43' west of the track stadium. The track

elevation is 975 with a .2 fall. There is a 8' green space with 6-8 inches of drop to the access road which is at 974. The practice road was supposed to be 26' wide. It was decided to shorten the access road to 19'-20'. There was still discussion of keeping the 26'. The new waterline will be 4' west of the edge of pavement with the two hydrants west off of the waterline. The 15' utility easement will be centered on the new waterline. There is a driveway that the waterline will go under that goes to a storage building for KU. The building is around 22' wide to 150' long. Thomas agreed to have the edge of the access road staked and the drive to the storage building. The hydrant at station 7+00 may have to move to the south for the driveway and to be within 500' hydrant separation rule for the fire department. Thomas suggested to bring up in the meeting so Paul can have the new alignment drawn up and easements filed. We discussed the irrigation services and the meters which Thomas was not sure if the plumber Earl and JR were completing them or Kings. The crew started on waterline F. The crew installed 3 joints of 8-inch PVC. The crew had to hammer rock for waterline F. I met with Casey, he had taken GPS shots for Paul and was going to have some staking done possible on Monday. At Rock Chalk, the crew installed 80' of 12-inch PVC, 63' of 8-inch PVC, one hydrant, one 3-inch valve, and poured 4 thrust blocks. KN

08/19/13 Low 63 Monday High 87 Sunny Crew 4 I went to Rock Chalk. The crew continued to excavate on waterline F. The crew installed two joints of pipe. They were encountering a layer of rock and had to hammer it out. The crew poured 20 cubic yards of flow able fill. The crew continued on waterline F. The crew installed 2 joints of 8-inch PVC and a 45 elbow. The crew had to hammer rock for waterline F. Bob S came out and took GPS shots of the waterline. Lynn Electric was installing the two 4-inch conduits across the road. They installed 74'. Bob S took GPS shots of the conduits. I met with the Black Hills Gas. I showed them where the new waterline and two 4-inch conduit lines were installed. The crew installed another joint of 8-inch PVC. The crew excavated for the vault. I called Melinda about the note on the construction plans for the 5' of flowable fill around the vault. She explained the reasoning to prevent any liability of settlement. I told her that the flowable would have to be installed after the 3-inch service line and the 6-inch fire line were installed. Also, that the hydrant would need at least 4' for the thrust block of undisturbed ground. She told me that the vault would be in the road. I looked at the submittals and saw that the lid had a padlock tab on it. I called her back and she discovered that the submittals included the 3-inch meter vault but it was not approved only the backflow vault and those cut sheets were in the file by mistake. We discussed what other submittals would be required for the 3-inch services and fire lines. The crew was installing the vault base. Melinda agreed that it was ok to set the base since it would be the same and approved. I notified Lonnie that the vault top was wrong and not to be installed. I explained how it would require a different hatch. The crew installed a 19' piece of pipe and a 8x8x6 tee with a 6-inch valve for a fire line. The crew backfilled part of line F. At Rock Chalk, the crew installed 120' of 8-inch PVC, one 6-inch valve, one 8-inch 45 elbow, set the base to the 3-inch meter vault, and poured 20 cubic yards of flowable fill. KN

08/20/13 Tuesday Low 65 High 91 Sunny Crew 3 I went to Rock Chalk. The crew continued to excavate on waterline F. I attended the update meeting for Rock Chalk. I checked on the crew. They were bolting together the fittings for the hydrant. The crew installed a 8x8x3 MJ tee with 3-inch valve, hydrant Kings poured three thrust blocks and 10 cubic yards of flow able fill on Waterline E. I went back to Bob Billings and Iowa. The crew excavated for the vault and existing 6inch valve for the fire line. I met Bob S and he took gps shots of waterline E and the 4inch conduit for fiber optic. At Rock Chalk, the crew poured three thrust blocks and 10 cubic yards of flow able fill. KN

08/27/13 Tuesday Low 73 Hiah 95 Sunny Crew 0 I went to Rock Chalk. The crew was excavating for footings and not working on the waterline. Lynn Electric was installing for 4-inch conduit for the fiber optic. I met with Bill from public works and he was tracking the lengths of fiber optic 4-inch conduit. I told him that we had current GPS shots on the fiber optic conduit. Bob S came out and took GPS shots of the 4-inch conduit. I met with Ernie from JR mechanical. He had questions over the irrigation meter installation and parts. He said that he was going to hire Kings to complete the 8 irrigation services and the two 3-inch services. I met with Lonnie and he was going to work on footings today. I looked at the staking for the waterline west of the stadium and it is still 29' west of the practice track. At Rock Chalk, the crew was working on excavating footings. KN

08/28/13 Wednesday Low 65 High 94 Sunny Crew 0 I went to Rock Chalk. At Rock Chalk, we went over the monthly totals. I called Bob out to take GPS shots of the 4-inch conduit. The crew was going to work on excavating footings. I took GPS shots on the collector application on hydrants and hydrant valves. I measured 4-inch conduit. I met with Jake. At Rock Chalk, the crew was working on excavating footings. KN

08/29/13 Thursday Low 72 High 97 Sunny Crew 0 I went to Rock Chalk. I tried to use the arcgis application. I was able to take a few GPS shots but ran into a lot of difficulty. I called Clint and we went over some details and tried different options. Bob S came out and took GPS shots of the 4-inch fiber optic conduit. Lonnie called about a elevation bust with the sanitary sewer. I notified Melinda. Melinda called and I went over the concerns. She asked for the elevations and where they wanted to tap the sanitary sewer. I went to Rock Chalk. I met with Lonnie and they took more elevation shots and found out that the line will have 2% slope between the two connections. I notified Melinda. Bob S came out and took GPS shots of the 4-inch conduit that is by the stadium. I measured the lengths of the conduits. At Rock Chalk, the crew was working on excavating footings and excavating for the sanitary sewer service to the recreation center. KN

08/30/13 Friday Low 71 High 101 Sunny Crew 0 I viewed the changes for Rock Chalk waterline. Bob S went to Rock Chalk and took GPS shots of the 4-inch fiber optic line along George Williams Way. I sent out my comments and concerns. Lonnie called about the sanitary sewer service to the recreation center at Rock Chalk. I notified Melinda and Bob Brower. I went to Rock Chalk. I had Lonnie excavate the sanitary sewer service tee. JR mechanical and Kings took elevation shots and had 7-8 inches of fall in the service which they said was over 1%. I called Melinda and left her a message about the sanitary sewer service. I notified Bob B that it was not an issue. Kings decided to install some waterline while they were waiting for a crane to be moved. The crew installed two joints of 12-inch PVC. Melinda called back and we discussed project updates. I measured the 4-inch conduits along George Williams Way. The august total for 4-inch conduit for fiber optics is 6644 LF. At Rock Chalk, the crew was working on excavating footings and excavating for the sanitary sewer service to the recreation center. They installed 40' of 12-inch PVC. The august total for 4-inch conduit for fiber optics is 6644 LF. KN

09/03/13 Tuesday Low 54 High 88 Sunny Crew 3 I scanned some documents. I went to Rock Chalk. I attended the update meeting. I met with Mike L and Bob B over the waterline by the stadium. I met with Lonnie over updates on the waterline alignment. At Rock Chalk, the crew was working on excavating footings. KN

09/04/13 Wednesday Low 56 High 87 Sunny Crew 3 I went to Rock Chalk. I met with Lonnie over the new waterline alignment. They were going to install some waterline today and we discussed testing. The crew was gathering equipment and parts to start installing the waterline. The crew was not able to have the new hydrant location staked at the northwest of the stadium. They could not work on the waterline until finish elevation can be staked. I went by Rock Chalk and the crew only installed one joint of pipe. At Rock Chalk, the crew was working on excavating footings. The crew installed 20' of 12-inch PVC. KN

09/05/13 Thursday Low 64 High 89 Sunny Crew 4 I went by Rock Chalk and the crew continued to excavate footings. Lonnie called and they were starting back up at Rock Chalk. I went to Rock Chalk and the waterline on the south side of the stadium was staked. It was at the edge of the sidewalk by the track. I called Mike L to provide information on the waterline alignment and some suggestions for field adjustment. We are going to meet tomorrow morning. I met with Thomas and Casey. The access road will have a 1% slope of fall from the practice track and track. It should be around 976 elevation for the access road. The access road is going to have the most of 9-inch of tilled fly ash and 7-inchs of pavement. The crew set up and gathered fittings for tomorrow. They hammered some rock out for the 90 elbow. At Rock Chalk, the crew was working on excavating footings. KN

09/06/13 Friday Low 67 High 93 Crew 3 Sunnv I went by Rock Chalk and the crew continued on waterline C. The crew installed two joints of pipe and a 90 12-inch elbow. I met with Mike L and Bob B over the alignment of the waterline on the south side of the stadium. We took some field measurements and verified some information with Casey. The crew installed another joint of pipe. The crew took elevation shots of the hydrant location and set the 12-inch valve and hydrant tee and 12' of 12-inch PVC. The crew installed the hydrant assembly with a 90 elbow then the hydrant valve and hydrant with anchor couplings. The entire leg is anchored together. I called Bob for GPS shots. The crew installed a 10' piece of 12-inch PVC pipe and bolted it together to the hydrant tee. The crew installed another three joints of 12inch pipe. Bob S was out and took GPS shots. The crew installed three more joints of 12-inch PVC and backfilled the excavations. At Rock Chalk, the crew installed 202' of 12inch PVC, one 12-inch valve, one 12-inch 90 elbow, and a hydrant assembly. KN

09/09/13 Monday Low 70 High 96 Sunny Crew 3 I went to Rock Chalk. The crew poured four thrust blocks. They backfilled and graded over the waterline C area. The crew went back to excavating footings. I offered to fill and flush part of the waterline but Lonnie with Kings was not ready to flush any water. KN

09/12/13 Thursday Low 69 High 88 Sunny Crew 3 I went to Rock Chalk. The crew was onsite-excavating footings. Matt called and was going to Rock Chalk to install waterline. I went to Rock Chalk. The crew installed 6 joints of 12-inch PVC pipe. I updated the as-built map for Rock Chalk. The crew installed another 6 joints of 12-inch pipe. At Rock Chalk, the crew installed 240' of 12-inch PVC. KN

09/13/13 Friday Low 48 High 80 Sunny Crew 3 I went to Rock Chalk. Matt and I went over the new waterline alignment on the south side of the stadium. We measured and marked out the new alignment. I called Bob B to see if he would be able to view the alignment. The crew started to install waterline on Line C. The crew installed 3 joints of 12-inch PVC pipe. Bob B and Dave O came out to the site. I reviewed the alignment. Bob B agreed with the new alignment. The crew continued to install waterline. I updated as-built information. The crew installed another three joints of pipe. The crew installed a 45 elbow. The crew installed 3 joints of 12-inch PVC pipe. The crew installed one 12-inch valve and a hydrant assembly. Clint came out and took GPS shots. The crew installed another 42' of pipe. I updated the as-built map for Rock Chalk. At Rock Chalk, the crew installed 222' of 12-inch PVC, one 12-inch 45 elbow, one 12-inch valve, and one hydrant assembly. KN

09/14/13 Saturday Low 61 High 82 Sunny Crew 1 I went to Rock Chalk. I met with Lonnie. The crew started to backfill part of the waterline. The crew poured three thrust blocks. Lonnie started to backfill the excavation for the lifts to be tested. Jerome with Alpha-Omega Geotech completed two nuclear density tests and will test Monday on the final lift for the waterline ditch. The first lift tested was 21' northwest of the fire hydrant and the second lift test was 53' northwest of the hydrant. He will complete another three tests 100' to the east on the proposed waterline ditch next week. At Rock Chalk, the crew backfilled the southwest side of the stadium with two nuclear density test and poured three thrust blocks. KN

09/18/13 Wednesday Low 68 High 93 Sunny Crew 6 Lonnie called and the crew was going to work on the waterline at Rock Chalk. I went to Rock Chalk. The crew was grading the roads for traffic and needed to expose some existing utilities. I went to Rock Chalk. The crew installed one joint of pipe on water line B. The crew installed 2 more joints of pipe. The crew installed another joint on waterline B. The crew poured 10 cubic yards of flow able fill on waterline B at station 0+37.5 to 0+80. Another crew showed up and started on waterline C. The crew installed 3 joints of pipe. At Rock Chalk, the crews installed 140' of 12-inch PVC and 10 cubic yards of flow able fill. KN

09/19/13 Thursday Low 67 High 94 Sunny Crew 6 I went to Rock Chalk. One crew was excavating footings. The other crew was working on Waterline C south of the stadium. The crew excavated around the existing electric conduits. They installed one joint of pipe. The crew excavated for the elbow and continued on to the east. Bob B and Mike L were onsite to look at the new alignment. We went over depths and alignments. They wanted to know about the backfill around the retention pond. I went and found Casey. He said that they would be filling extra areas around the retention area and it was still being designed. They would not be cutting any of the walls out but adding. The crew had to order a 22 1/2 elbow since a 45 elbow was going to be too much of an angle. I went back to the office and met with Bob B over the retention pond at Rock Chalk. I relayed what Casey said. The crew installed 1 more joints of pipe. The other crew started back on Waterline B. They installed 3 joints of pipe. The crew poured 8 cubic yards of flow able fill on waterline B at station 0+80 to 1+03. They installed another 10 joints of pipe. I talked Alpha Omega and they will be doing the other compaction tests tomorrow on Waterline C. They backfilled around the entrance. The crew working on waterline C installed a 22 1/2 elbow. Bob S came out and took GPS shots of the gas and fiber lines crossing waterline B and the fitting for waterline c along with the electric crossings. The crew installed 5 joints of 12-inch PVC pipe. At Rock Chalk, the crews installed 400' of 12-inch PVC, one 22 1/2 elbow, and 8 cubic yards of flow able fill. KN

09/20/13 Friday Low 48 High 75 Sunny Crew 5 I went to Rock Chalk. Lonnie's crew was working on Waterline B. The other crew was backfilling on Waterline C south of the stadium. They were waiting for nuclear density testing. The crew working on waterline B installed 4 joints of 12-inch PVC pipe. The crew on water line B installed 1 joint of pipe. The crew checked the elevation and grade since they were close to the hydrant assembly. The crew installed two 12-inch valves along with a hydrant assembly and two joints of 12-inch PVC pipe. The other crew on waterline C was backfilling and grading south of the stadium. Alpha Omega Geo Tech came out and took 4 nuclear density tests. The crew continued to excavate for the 90 elbow on waterline C. The other crew on Waterline B poured two thrust blocks. Bob S came out and took GPS shots. The crew on Waterline C installed one joint of pipe and a 90 elbow. They poured two thrust blocks on the 22 1/2 elbow and 90 elbow. The crew on waterline B installed another joint of 12-inch PVC. At Rock Chalk, the crews installed 204' of 12-inch PVC, 1 90 elbow, 2 12-inch valves, one hydrant assembly, and 4 thrust blocks. KN

09/23/13 Monday Low 53 High 80 Sunny Crew 4 I went to Rock Chalk. Lonnie's crew was working on Waterline B. The crew working on waterline B installed 10 joints of 12-inch PVC pipe. I went over the monthly totals with Kyle from Kings. I went to Rock Chalk. The crew continued on water line B. The crew installed another 7 joints of 12-inch PVC pipe. I met with Lonnie going under the storm sewer and the elevation of the road. The crew stopped on waterline B to allow the road crews to grade the area. They went back to waterline C. At Rock Chalk, the crews installed 340' of 12-inch PVC. KN 09/24/13 Tuesday Low 53 High 80 Sunny Crew 4 I went to Rock Chalk and attended the bi weekly meeting. The crew was installing waterline on Waterline B. The crew installed 2 joints of 12-inch PVC. Lonnie's crew was working on Waterline B. The crew working on waterline B installed 3 joints of 12-inch PVC pipe. The crew installed the hydrant assembly and a 12-inch valve along with a 2' piece of pipe. The crew continued on water line B. The crew installed another joint of 12-inch PVC pipe. The crew poured 20 cubic yards of flowable fill. They went back to waterline C. The crew moved to waterline C. The crew installed three joints of 12-inch PVC pipe. At Rock Chalk, the crews installed 182' of 12-inch PVC pipe, one 12-inch valve, one hydrant assembly, and poured 20 cubic yards of flow able fill. The crew will not be working tomorrow. KN

09/26/13 Thursday Low 59 High 89 Sunny Crew 3 I went to Rock Chalk. The crew was working on waterline C. The crew installed four joints of pipe and a 17' piece of pipe along with a valve and hydrant tee with valve. Lonnie and discussed elevations going under the storm and the staking on waterline B. The crew finished installing the hydrant assembly with 47' of 6-inch PVC pipe to the hydrant. Bob S came out and took GPS shots. The crew stopped on waterline C from the rock shelf that will need to be hammered out. The crew went back to waterline B. The rock pipe and some grading was completed. They line was staked to the connection to waterline C. The crew installed three joints of pipe. The crew poured four thrust blocks. The crew backfilled the excavations. At Rock Chalk, the crew installed 157' of 12-inch PVC, one 12-inch valve, one hydrant assembly, and four thrust blocks. KN

09/27/13 Friday Low 66 High 87 Sunny Crew 3 I reviewed the first compaction results for waterline C, still waiting for the second report. I updated the project notes and folders. I went to Rock Chalk. The crew was working on waterline B. The crew installed eight joints of pipe. The crew poured 8 cubic yards of flowable fill. The crew installed a 2' hydrant extension at station 9+60.22 and backfilled the hydrant and valve. The crew installed another 2 joints of 12-inch PVC pipe. The crew back filled the excavation. The crew installed a 2' hydrant extension at station 9+60.22 and backfilled the hydrant and valve. The crew installed 2 joints of 12-inch PVC pipe. At Rock Chalk, the crew installed 240' of 12-inch PVC, and poured 8 cubic yards of flow able fill. KN

09/28/13 Saturday Low 44 High 71 Rain Crew 3 I updated the folders for Rock Chalk. I went to Rock Chalk. The crew had started to excavate. The rain was coming down in spurts. The crew ended up calling it a day. At Rock Chalk, the crew was not able to install anything due to rain. KN

10/01/13 Tuesday Low 60 High 86 Sunny Crew 4 I met with Mark over construction activities from yesterday. The crew at Rock Chalk installed 202' of pipe, one 12-inch valve, and a hydrant assembly. I went to Rock Chalk. The crew installed two joints of 12-inch pipe. Lonnie and I went over the remaining quantities to be installed. We found that the hydrant quantity was wrong. The plans call out for 17 hydrants and when you go through the plans and count there are 18. Lonnie ordered another hydrant. I sent an email to Bob B and Mike L to notify them of the discrepancy. The crew installed another joint of 12-inch pipe. The crew was hammering rock. The crew installed two joints of 12-inch pipe. The crew assembled a tee and two 12-inch valves in preparation to the connection to Waterline C. The crew installed 24' of 12-inch pipe along with a 12x12x12 MJ tee and two 12-inch valves. At Rock Chalk, the crew installed 124' of 12-inch PVC, 12x12x12 MJ Tee, and two 12-inch valves. KN

10/07/13 Monday Low 44 High 73 Sunny Crew 3 I went to Rock Chalk. The crew installed two joints of pipe. The crew poured three thrust blocks. The crew poured 8 cubic yards of flowable fill on waterline B. The crew stopped working on the waterline to work on the storm sewer. At Rock Chalk, the crew installed 40' of 12-iinch PVC, poured three thrust blocks, and poured 8 cubic yards of flow able fill on waterline B. KN

10/16/13 Wednesday Low 35 High 59 Pt Cloudy Crew 4 I updated some project notes and spreadsheets. I went to Rock Chalk. The crew was working on waterline C. The crew installed three joints of 12-inch pipe. I met with Ernie from JR mechanical. He gave me a sheet showing the locations of the irrigation meters. I went to the Kaw plant and met with Mike L and Andy over the irrigation meters. Ernie said that all of the meters would be short services. I went back to Rock Chalk. The crew installed another joint of pipe. I met with Andy over the irrigation services at Rock Chalk. I went Rock Chalk. The crew installed another joint under the storm sewer on waterline C. The crew went back to installing storm sewer. At Rock Chalk, the crew installed 100' of 12-inch PVC pipe on waterline C. KN

10/17/13 Thursday Low 33 High 68 Pt Cloudy Crew 0 I went to Rock Chalk. I found the contractor working under Kasey or Fritzle had a hose hooked up to a hydrant without a meter or backflow preventer. I went over the shutoff the hydrant and removed their hose. I told the crew that they needed a backflow preventer and meter in order to draw water. They told me that Kasey had told them to fill up their 500 gallon tank which was being used to cur concrete. I flushed the hydrant for 5 minutes. I notified Mike L of the situation. He asked me to go discuss the matter with Kasey. I found Kasey and discussed the concerns and future actions. Kasey called Meredith to check out a water meter/backflow preventer. The crew was onsite and working on storm sewer. KN

10/18/13 Friday Low 35 High 44 Rain Crew 3 The crew worked on waterline C. They installed two joints of 12-inch PVC pipe. They had to hammer rock. Another crew was working on the fire line for the stadium on the private side. The crew stopped work due to the rain. At Rock Chalk, the crew installed 40' of 12-inch PVC. KN

10/21/13 Monday Low 39 High 57 Sunny Crew 4 I went to Rock Chalk. One crew was backfilling the excavation. Another crew showed up to work on excavating for the power poles. The crew installed two joints of pipe. The crew installed another 18' of 12-inch PVC pipe and a 12x12 sleeve. I notified Bob S that I had a few GPS shots. Lonnie talked about filling the waterline this afternoon of definitely tomorrow. I notified the water plant. The crew finished waterline C and connected it to waterline B. Bob S came out and took GPS shots. The crew started on waterline B. Lonnie, I looked at the staking, and some of the cuts/fills were not consistent with the roads cuts/fills. They were going to have the line checked with the staking crew. The crew installed four joints of 12-inch PVC on water line B. At Rock Chalk, the crew installed 140' of 12-inch PVC pipe and one 12x12 MJ sleeve. KN

10/22/13 Tuesday Low 38 High 63 Pt Cloudy Crew 2 I went to Rock Chalk. One crew was backfilling the excavation. Another crew showed up to work on excavating for the power poles. The crew was checking all the valves in preparation to fill the waterline. I found that one of the light poles was excavated 5' south of the waterline north of the stadium. We had Urial come over to check the staking and I measured off of the construction plans where it was shown. I notified Bob B. JR Mechanical proposed to move the pole 2.5' from its shown location. I called Bob B and he agreed with proposal. I notified the water plant operators that we would be filling the waterlines at Rock Chalk. We started to fill the waterline at 11 pm. We continued to fill the waterline. Garney called to notify they were headed into town. We continued to fill the line. We switched flows and filled waterline B. The crew filled lines E and F. The crew started to hydrostatically test waterline A and waterline D from station 0+00 to 8+68. The static pressure was at 110 PSI. The crew pumped up the waterline to 200 PSI. The line held for a 1/2 an hour at 200 PSI. The line passed. At Rock Chalk, the crew flushed for 4 hours and passed one hydrostatic test. KN

10/23/13 Wednesday Low 29 High 59 Pt Cloudy Crew 3 I went to Rock Chalk. We continued to hydrostatically test the line. The crew flushed the line for 60 minutes to blow off any air pockets. The crew pumped up the waterline D from station 8+68 to 15+88 and waterline C from Station 27+75.09 to 21+34.49 but were fighting more air pockets. The crew directionally flushed for 30 minutes. They crew checked all the valves and hydrants. The crew tested waterline D and waterline C with a static pressure of 110 PSI and a dynamic pressure of 200 Psi for 30 minutes. The line passed. The crew hydrostatically tested the waterline C from Station 21+34.49 to 3+45 and Waterline F. The static pressure was 110 PSI and the dynamic pressure was 200 PSI. for 30 minutes. The line passed. The crew started to pump up waterline C from station 0+00 to 3+45 and waterline B from station 0+00 to 16+23. The static pressure was 110 PSI. I called Mark R to come out and watch the last test while I take a bacteriological sample at the Kaw water plant. At Rock Chalk, the crew pumped up the waterline to 200 PSI. The line held for a 1/2 an hour at 200 PSI. The line passed. At Rock Chalk, the crew flushed for 2 hours and passed three hydrostatic tests. KN

10/24/13 Thursday Low 28 High 53 Pt Cloudy Crew 3 I went to Rock Chalk. We continued to hydrostatically test the line. The crew pumped up the waterline E. The line would not hold pressure. The crew tried a couple times to see if there was an air bubble in the line. The crew checked the backflow vault and the connection to the backflow was leaking water. The crew repaired the connection with the spool to the backflow vault. We filled and flushed the line for 30 minutes. The crew tried pumping up the line again and it would not hold. The crew decided to dig up about 60' north of the vault where they had a problem with one joint of pipe. The crew excavated the line and found that it was leaking from a bell. The crew went to pick up parts. The crew installed a 4' piece of pipe and two 8x12 MJ sleeves. Bob S came out and took GPS shots of the sleeves. The crew backfilled the line. We filled and flushed the line for 30 minutes. There was a piece of plastic stuck in the foot valve of the

hydrant. The crew ended up breaking the breakaway on the hydrant. They disassembled the hydrant and were going to pick up a new breakaway tomorrow morning. At Rock Chalk, the crew flushed for 1 hour and installed two 8x12 MJ sleeves. KN

10/25/13 Friday Low 43 High 58 Pt Cloudy Crew 3 I went to Rock Chalk. The crew installed another breakaway in the hydrant. The crew flushed for 30 minutes. We continued to hydrostatically test the line. The crew pumped up the waterline E. The line would not hold pressure. The crew tried a couple times to see if there was an air bubble in the line. The crew flushed the line for 15 minutes. The crew could not get the line to hold pressure. They were going to setup to chlorinate the 12-inch waterline. The crew set up to chlorinate the waterline. The crew chlorinated waterline B and part of waterline C to the hydrant northwest of the stadium. The line was flushed for an hour. The crew went to each hydrant and ran them until chlorine was present. The crew changed direction and started to chlorinate waterline A, C, D, and F. The crew chlorinated for an hour and 45 minutes. They flushed all the hydrants until chlorine was present. At Rock Chalk, the crew flushed for 3 1/2 hours and chlorinated the 12-inch waterline. KN

10/28/13 Monday Low 32 High 65 Pt Cloudy Crew 5 I went to Rock Chalk. I started to flush the line at station 11+00 on Waterline C and B. The chlorine was reading less than 10 MG/L. It had the same reading after 15 minutes of flushing. I changed directions of flushing to waterlines, A, C, and D. The chlorine registered the same. I flushed the line for 15 minutes and it registered the same. I notified Kings that the chlorine must have combined out in the waterline and the lines would need to be rechlorinated. The crew arranged to chlorinate the line, again. I went to Chelsea Place and Bob Billings. I met Mark at Rock Chalk. He was going to assist while the crew was chlorinating the waterlines. The crew started to chlorinate the waterline. The crew finished the waterlines B and part of C, which took 2 hours. The crew changed direction and started to chlorinate waterline A, C, D, and F. The crew chlorinated for four hours and 45 minutes. They flushed all the hydrants until chlorine was present. Mark stayed while they finished chlorinating the waterlines. KN

10/29/13 Tuesday Low 51 High 64 Cloudy/Rain Crew 1 I went to Rock Chalk. The crew was not working due to rain. There was a crew onsite pumping water. I attended the Rock Chalk meeting. We had to check the valves since the crew had the line isolated in several locations. We flushed the line for 100 minutes. I took the bacteriological sample to the water plant. KN

10/30/13 Wednesday Low High Cloudy/Rain Crew 1 Kirk on vacation and I went to project to flush and sample waterlines A, C, F, and D. The crew flushed all lines thru hydrant at Sta. 11+00 for approx. 45 minutes then we flushed from all hydrants on the lines and chlorine level was tested and hydrants were flushed until residual was 3.5 mg/L.

I took 3 samples at the following locations: Sta. 27+75.09 Waterline A, D, & C (2583" of 12" PVC) Sta. 1+87.36 Waterline C & F (1088' OF 12" PVC & 187' of 8" PVC) Sta. 11+00 Waterline C (437' of 12" PVC) I spoke to Peggy Thomas about sample taken yesterday and she told me it had failed so while I took the 3 samples to CWTP the crew switched the valves over and started flushing Waterline B & C and the line was flushed for approx. 45 minutes the I tested chlorine level and re-sampled the line at Sta. 11+00 (Waterline B & C 2723' of 12" PVC C-900 DR-14) All flushing and sampling was completed at 11:30am.

10/31/13 Thursday Low 40 High 59 Rain Crew 0 Peggy called and two of the three samples failed. I notified Kyle with Kings. They will be chlorinating the waterline again tomorrow. KN

11/01/13 Friday Low 37 High 62 Pt Cloudy Crew 2 I went to Rock Chalk. I met Kings Construction at the sight. They set up to chlorinate the waterlines. I notified the water plant about flushing water. A crewmember and I went along and flushed each hydrant until chlorine reached it. We did this for all the waterlines and kept they hydrant flushing at station 11+00. We changed directions and chlorinated the other waterlines. Randy called to notify me about pavement restoration at Bob Billings. The crew finished chlorinating the water lines. It took 6 hours to chlorinate and flush. KN

11/04/13 Monday Low 50 High 62 Pt Cloudy Crew 2 I went to Rock Chalk. I started to flush the waterline. The chlorine was over 50 mg/l. I flushed waterline B and C for 2 hours. I went to the Clinton water plant and picked up sample bottles. I changed direction and flushed waterline A, D, F, and C for 2 $\frac{1}{2}$ hours. I took four bacteriological samples. The crew was working on the Private Line. We flushed and filled the line. The line was still leaking. The crew started to excavate bells to the north of the first leak. KN

11/05/13 Tuesday Low 46 High 63 Rain Crew 2 I went to Rock Chalk. I attended the update meeting. Peggy called and the four bacteriological samples passed. I notified Kings that they passed. I went to the Clinton water plant and picked up sample bottles. I talked to Matt about the irrigation services at Rock Chalk Park. He thought he may be able to find the parts. I went to Rock Chalk. I started to flush the waterline. The chlorine was over 3.5 mg/l. I flushed waterline B and C for 30 minutes. I changed direction and flushed waterline A, D, F, and C for 1 hour. I took three bacteriological samples. KN

11/06/13 Wednesday Low 31 High 48 Pt Cloudy Crew 4 I met with Terry and found out that the 12x2 inch saddles only were made in 3 piece design. I met with Andy to show him the results of the saddles. I went to Rock Chalk. Peggy called and the bacteriological samples passed and one failed. I notified Kings about the results. One crew started to excavate the waterline south of the stadium for the irrigation tap. I started to flush the waterline C. I went to the Clinton water plant and picked up a sample bottle. I went to Rock Chalk. Another crew was onsite looking for the water leak on private waterline E. I took a bacteriological sample on Waterline C. The crew installed the ford 3 piece saddle and ford corp. The crew tapped the waterline. They installed 2" HDPE pipe from the meter to the backflow device them to the 21/2-inch PVC line that went to the track field. I called Bob S for GPS shots. The other crew found another leaking bell on waterline E. They removed one of the sleeves and replaced the

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pipe to the leak. They cut out the bell and used the sleeve to connect the waterlines. The other crew installed 2-inch copper from the corpe to the meter set. KN

11/07/13 Thursday Low 29 High 59 Pt Cloudy Crew 2 I went to Rock Chalk. Peggy called and the bacteriological sample passed. I notified Kings that they passed. Kings flushed and hydrostatically tested the private waterline E. The line held 200 PSI for 30 minutes and passed. The crew chlorinated the waterline. I started to flush the waterline C. I took a bacteriological sample on waterline C. I called Bob S for GPS shots but he was not available. I took measurements of the first 2-inch irrigation water meter installed south of the stadium/track. I met with Dave O about having the interceptor sanitary sewer line video inspection next Tuesday. KN

11/08/13 Friday Low 41 High 64 Sunny Crew Aurora called and the bacteriological sample passed. I notified Kings that they passed. Mark and I went to Rock Chalk. Bob S took GPS shots of the meter pit, backflow pit, and a sleeve. We met with Kings Crew over construction activities. Mark and I went over the waterline E that will need to be sampled on Monday. Mark and I went around and opened valves and closed hydrants. We went to the Clinton water plant and picked up a sample bottle. The road crew had not tilled over the interceptor sanitary sewer line. They had spread all the fly ash in preparation for tilling. I came back to the office and updated notes. I went and met with Clint over project details for Rock Chalk. Mark and I went to Rock Chalk Park. We met with Kings Construction. They will be completing the fly ash tilling today. They had already made two passes over the interceptor sanitary sewer line. They did not know any dates for paving. I informed them that the sanitary sewer line would have video inspection on Tuesday morning. We came back to the office. I met with Dave O about the progress and updates on the interceptor sanitary sewer line. KN

11/12/13 Tuesday Low 13 High 35 Sunny Crew 3 I went to Rock Chalk. The city crew was out and took video inspection of the interceptor sanitary sewer line. The crew was installing waterline. The crew installed 6 joints of 12inch PVC. I met with Matt and he was going to install another irrigation service today but was delayed for other work. Mark called and the bacteriological sample passed on waterline E. I went to the Clinton water plant and picked up another sample bottle. I went to the field shop. I dropped off the graph to Bob B of the video inspection. There are three sags in the line. One was at around 55', which is close to the center of the road. He was going to review the first video to see if the sag was created by the roadwork. I checked out a 2-inch meter. I went to Rock Chalk. The crew installed three joints of 12-inch waterline pipe. We flushed waterline E for 20 minutes. I took the second bacteriological sample. The crew assembled the hydrant assembly with two 12inch valves one either side. The crew installed another 23' of 12-inch PVC pipe. At Rock Chalk Park, the crew installed 203' of 12-inch PVC pipe, one hydrant assembly, and two 12-inch valves. KN

11/13/13WednesdayLow 27High 51SunnyCrew 3I went to Rock Chalk. The crew was hammering rock. The crew installed one joint of 12-inch PVC. Jay emailed that the second sample passed for waterline E. I went to RockChalk. The crew was installing waterline and hammering rock. The crew installed 2

joints of 12-inch PVC. I met with Matt and he was working on the fire line to the recreation center. There was no bends on the fire line. The crew turned on the waterline E. The crew continued to hammer rock and install water line. The crew installed 2 joints of 12-inch PVC. The crew backfilled the excavation. They had to haul in dirt. Clint called and some GPS shots were not showing up on the GIS. I called Bob S to come out and take some GPS shots. Bob S came out and took some GPS shots on waterline B and C. The crew installed 2 joints of 12-inch PVC pipe. Clint talked to me about the GPS shots on the fiber optic lines. I went ahead, redlined the rough location of the fiber optic lines, and downloaded in order for Clint to show Micah where the lines are located along with sizes. The crew continued to hammer rock. The crew installed another joint of 12-inch PVC pipe. Another crew will be excavating for the irrigation service to the soccer field tomorrow morning. The crew will be excavating the interceptor sanitary sewer in the morning to verify the depth. The crew installed another joint of pipe and backfilled the excavations. At Rock Chalk Park, the crew installed 180' of 12-inch PVC pipe. KN

11/14/13 Thursday Low 32 High 59 Crew 3 Sunny I went to Rock Chalk. The crew excavated the interceptor line, which was 20 inches deep on the north side. I dug up the line on the south side and it had about 12 inches of cover from the base of the road. The crew was hammering rock. The crew installed one joint of 12-inch PVC. I met with Lonnie and he was working on the irrigation for the soccer field. He installed the ford saddle and corp. He was waiting for the copper and parts to show up in order to finish. The other crew continued to hammer rock. I went to the field shop. I stopped by the Kaw plant and met with Clint over Rock Chalk Park. I went back to Rock Chalk Park. The crew installed 2 joints of 12-inch PVC pipe. The crew continued to hammer rock. The crew backfilled the excavations. The crew continued to hammer rock and install water line. The crew installed 2 joints of 12-inch PVC. The crew backfilled the excavation. Another crew, completed a 2-inch tap and installed the irrigation meter and backflow preventer. Bob S came out and took GPS shots. The crew installed 2 joints of 12-inch PVC pipe. At Rock Chalk Park, the crew installed 140' of 12inch PVC pipe, and one 2-inch irrigation meter and corp. KN

11/15/13 Friday Low 46 High 60 Sunny Crew 3 I went to Rock Chalk. The crew hammered rock below the interceptor sanitary sewer line. Bob B called to discuss the encasement of the sanitary sewer interceptor line under the street. I did not have the updated sheet with the encasement note and it was not in the folders/files. I notified Kings and Casey with Bliss Sports (Fritzle), about the encasement. Carol from Public works, Casey, and myself discussed the options. Casey wanted to pave over and cut out a section of concrete later. Carol was ok with that. Bob B emailed the updated sheet 5. I went to the office and printed out sheet 5. I went back to Rock Chalk. The crew received a delivery of 11 meter pits. I found that three of the meter pits were acceptable and the other 8 were not approved. They were obviously made from storm sewer pipe. I notified Kings of the non-acceptable pits. The crew installed 2 joints of 12-inch PVC pipe. The crew continued to hammer rock. Casey decided to go ahead and remove the concrete where the sanitary sewer interceptor line was located. I excavated and marked both sides of the street to show him where the sanitary sewer line was located. They cut out about 12'. The crew continued to hammer rock. The crew continued to hammer rock and install water line. The crew installed 4 joints of 12-inch PVC. The road crew filled in 8-10 fit to the south of the access road

south of the stadium. They are planning to build a 21' wide access road around the stadium. At Rock Chalk Park, the crew installed 120' of 12-inch PVC pipe. KN

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11/18/13 Monday Low 31 High 60 Sunny Crew 2 I went to Rock Chalk. The crew excavated and installed one joint of 12-inch PVC pipe. The crew excavated for the MJ tee. I met with Andy over Rock Chalk Park. I went back to Rock Chalk Park. The crew was tightening bolts on the MJ Tee and two valves. The crew stopped working on the waterline and started on the encasement on the sanitary sewer interceptor line. The crew excavated around the sanitary sewer line. They uncovered 21' of the line. They blocked under the sewer line with concrete blocks and installed #5 rebar. The crew installed another 16' of pipe and will install the two valves with MJ Tee tomorrow. At Rock Chalk Park, the crew installed 36' of 12-inch PVC pipe. KN

11/19/13 Tuesday Low 41 High 66 Sunny Crew 2 I went to Rock Chalk. The crew excavated and installed the MJ tee with two valves. I attended the meeting for Rock Chalk Park. The crew installed 24' of 12-inch PVC pipe. I had kings mound dirt over the sanitary sewer interceptor line. The interceptor line was video inspected for any sags and egg shaping of pipe. The pipe still has a sag. The crew installed two more joints of PVC pipe. I saw that Ernies Mechanical was trenching for the fiber optic lines along George Williams Way. I stopped and measured the length which was 2222'. Bob B came out and took GPS shots. The crew installed another 12' of 12inch PVC pipe. The crew poured 8 cubic yards of flow able fill for waterline B. The crew worked on the pipe protection concrete cover over the interceptor sanitary sewer line. They installed CMH over the sanitary sewer line. The crew has an area of 37' long by 7-8' wide and 6-inchs deep. They used #5 rebar with 12-inch centers. The crew poured 4 thrust blocks on waterline B. The crew assembled the hydrant tee and valve for installation tomorrow. Casey with Bliss poured 2/3rds of the concrete protection cover. They ran out of concrete and will finish the rest tomorrow morning. At Rock Chalk Park, the crew installed 76' of 12-inch PVC pipe, one 12x12x12 MJ tee, one 12-inch plug, two 12-inch MJ valves, four thrust blocks, and eight cubic yards of flow able mortar. KN

11/20/13 Wednesday Low 41 High 53 PT Cloudy Crew 2 I went to Rock Chalk. Casey with Bliss had already poured the remaining part of the pipe protection cover. The crew excavated and installed the hydrant assembly. The crew set the hydrant plumb. The crew installed a 9' of 12-inch PVC pipe. They completed a 2inch tap for the eclipse auto flusher. The crew had to go find some brass parts for the auto flusher. The crew installed a 12-inch valve with a plug. The crew poured four thrust blocks. They finished installing the eclipse auto flusher. I met with Casey about not pouring around the meter vault for the stadium since they needed cast iron valve boxes and the vault has the wrong lid. At Rock Chalk Park, the crew installed 9' of 12-inch PVC pipe, one 12-inch plug, one 12-inch MJ valve, four thrust blocks, and an eclipse auto flusher with curb stop. KN

11/21/13 Thursday Low 25 High 51 Rain/Cloudy Crew 2 I went to Rock Chalk. The crew was backfilling and rough grading on waterline B. The crew installed valve boxes and finished rough grading on waterline B. I called the Kaw water plant operators and told them I would be filling the waterline off the west hills zone. We filled and flushed the waterline for 45 minutes. The crew pumped up the line, but there was a lot of air. We left 100 PSI on the waterline during lunch. I talked to Karen and she was going to be working on Saturday so I could bring in a bacteriological sample on Friday. The crew pumped up the waterline again and still had some air. We valved off the line and all of it held pressure except the last 85'. Mark Shepard came out and we discussed the location of the new waterline where the tracer wire needed to be checked. We flushed the waterline for another 60 minutes. The waterline still would not hold pressure. The crew was going to start looking for a leak. At Rock Chalk Park, the crew flushed and filled waterline B for 105 minutes. KN

11/22/13 Fridav Low 23 High 31 Pt. Cloudy Crew 3 I went to Rock Chalk. The crew was excavating the saddle and curb stop for the eclipse auto flusher. The crew found that the saddle was leaking out the side. They started to disassemble the auto flusher. I went to the warehouse. We did not have any saddles for 12x2 with iron pipe threads for PVC. I went back to Rock Chalk. The crew installed the saddle and curb stop. We filled/flushed the line for 30 minutes. The crew pumped up the line but something else was still leaking. The crew excavated around the hydrant tee to check for any leaks. The crew tightened the hydrant tee. We flushed the waterline for 15 minutes. The crew pumped up the line and it did not hold pressure. The crew found that the tee with two valves had come apart. The crew excavated the tee. They were going to fence the excavation and put concrete blankets over the main till Monday. At Rock Chalk Park, the crew flushed and filled waterline B for 45 minutes. KN

11/25/13 Monday Low 22 Hiah 42 Pt. Cloudy Crew 3 I went to Rock Chalk. The crew took apart the assembly with the 12x12x12 MJ tee and two 12-inch valves. Mark S came out and we walked and checked all the tracer wire at Rock Chalk Park. All the tracer wire passed. The crew excavated back on the waterline for two joints of pipe. They deflected the line a few inches to the north and installed the 12-inch valve. Terry called and wanted to know if Kings would be able to install all the meters before the first of the year. I checked with Lonnie and the meter sets were supposed to be here next week. He said that they wanted to finish all the meter installations by Christmas. I notified Terry what Kings Construction had said. The crew installed the 12x12 x12 MJ tee with another 12-inch valve. They had to disassemble on of the nipples between the tee and the valve. The crew turned the nipple and bolted the assembly together. The crew poured three thrust blocks. At Rock Chalk Park, the crew fixed a leak on a MJ tee and valve. KN

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11/26/13 Tuesday Low 13 High 37 Pt. Cloudy Crew 3 I went to Rock Chalk. We filled and flushed the line for 45 minutes. The crew hydrostatically tested the remaining of waterline B from station 16+23 to 24+86. The waterline passed with a dynamic pressure of 200 PSI and a static pressure of 110 PSI. The crew set up and chlorinated the waterline. The chlorine exceeded 25 PPM. The crew excavated for the 20' encasement of the sanitary sewer line that is over the new waterline. The crew will pour the encasement tomorrow. The road is finished over the interceptor sanitary sewer line. I informed Bob B that the interceptor sanitary sewer line is ready for final video inspection. At Rock Chalk Park, the crew passed a hydrostatic test and chlorinated the waterline. KN 11/27/13 Wednesday Low 22 High 33 Pt. Cloudy Crew 2 Kyle with Kings called last night and they went ahead and poured the encasement with 7 cubic yards of concrete. The crew used #5 rebar. I went to Rock Chalk. The crew had a concrete blanket over the encasement. The encasement was 20' long. I called Bob S for a GPS shot. He said he would be by today to take the shot. I met with Matt with Kings to check on construction activities. I met the video inspection crew. We found that there was still a section of road not paved on the south side. I told the crew to not video the line until the road was completed. I found Casey. He said they may try to pour the area on Friday. Bob S came out and took GPS shots of the encasement north of the road. At Rock Chalk Park, the crew completed the 20' encasement. KN

12/02/13 Monday Low 30 High 57 Pt. Cloudy Crew 2 I went to Rock Chalk Park. I started to flush the waterline B. The chlorine was over 50 mg/l. We flushed all the hydrants free of chlorine and I took a bacteriological sample. The crew raised on hydrant 18-inches. The crew raised another hydrant 2' and was turning hydrants. I met with Casey and he was going to try to pour the concrete road today over the interceptor line. The crew went to work on storm sewer. At Rock Chalk Park, the crew completed two hydrant extensions and we flushed for 60 minutes. KN

12/03/13 Tuesday Low 33 High 62 Sunny Crew 2 I went to Rock Chalk Park. I attended the update meeting. Mary called and the first bacteriological sample passed. I started to flush the waterline B. I met with Kyle over which direction to turn some hydrants. We discussed some elevations to raise some hydrants and finish grades. I took a bacteriological sample. Kyle called and the vault for the recreation center should be delivered next week. At Rock Chalk Park, the crew flushed for 60 minutes and the first bacteriological sample passed. KN

12/04/13 Wednesday Low 16 High 41 Cloudy Crew 0 Mary called and the waterline B passed the second bacteriological test. I notified Kyle's with Kings that the sample passed. I went to Rock Chalk Park. I turned on the valves on the line and removed the out of service tags from the hydrants. Mike Lemming completed the final video inspection of the interceptor sanitary sewer line. I took the results back to the field shop and met with Bob B. He passed the interceptor sanitary sewer line. I notified Andy that the entire waterline was in service and that the interceptor sanitary sewer line passed. At Rock Chalk Park, the second bacteriological sample passed, the final video inspection passed for the interceptor sanitary sewer line, and the entire waterline is in service. KN

12/31/13 Tuesday Low 14 High 55 Sunny Crew 5 The crew excavated the last 6 areas for the 2-inch irrigation taps. They did not finish exposing the irrigation tap south of the track due to ground water. The crew installed 5 Ford brass saddles and Ford corpse. The crew completed the 5 2-inch taps. They covered the water main and taps with concrete blankets until the service line will be installed. KN

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01/03/14 Friday Low 1 High 39 Pt. Cloudy Crew 3 I went to Rock Chalk Park. The crew installed two meter pits and backflow pits. Bob came out and took GPS shots. The crew was working on a third meter setter and Bob took GPS shots of it. The crew finished the installing the meter setter and backflow pit. The crew was working on the fourth meter setter. I took measurements of the three other meter setters. My tablet would not load the maps to take GPS shots. The crew finished installing the fourth meter setter. I took measurements on it. They continued to work on the backflow pit. KN

01/08/14 Wednesday Low 18 High 29 Pt. Cloudy Crew 3 I went to Rock Chalk Park. The crew was installing a meter setter and backflow device. The crew excavated for the last irrigation service south of the track. The crew installed the saddle and meter setter with backflow device. They will disassemble in order for the waterline tap tomorrow. Bob S came out and took GPS shots. The crew was going to set up to excavate for the vault for the recreation center. The crew will have to finish it tomorrow when they have a bigger excavator onsite in order to install the vault. KN

01/09/14 Thursday Low 29 High 36 Pt. Cloudy Crew 3 I went to Rock Chalk Park. The crew installed the vault for the 3-inch meter to the recreation center. They did not have elevation staking and set the vault to match the elevation with the waterline so the service line would go straight into the valve without any fittings. The crew assembled the rising stem valves and fittings for the meter and bypass assembly. The crew installed the assembly in the vault. The crew had the last 2inch irrigation service tapped. They installed some rock in the excavation since it was holding water. The crew connected to the corpe and covered everything with sand. The crew used rock by the backflow pit and above the waterline since it would be under pavement. The crew backfilled the rest of the excavation. KN

01/14/14 Tuesday Low 20 High 41 Pt Cloudy Crew 2 I went to Rock Chalk Park. The crew poured 10 cubic yards of flow able fill around the meter vault for the stadium. KN

01/31/14 Friday Low 20 High 29 Pt Cloudy Crew 2 Terry emailed that the meter would be in by 10:30 this morning. I notified Matt with Kings. He was going to check his schedule with Bliss and see if he could install the meter today. Matt called back and was able to install the meter today. I met with Terry over the meter for Rock Chalk Park. Matt met me at the warehouse. He was going to see if we had some parts he needed for the meter assembly. He decided to wait for his parts to show up from Olathe. I went to Rock Chalk Park. The crew was excavating a 2inch irrigation corp that was leaking slowly. The crew found that the saddle was leaking. They tightened the saddle and aligned the 2-inch copper to stop the leaking. Matt with Kings called and his uni-flange was too wide. He was going to the warehouse and check with Terry about our uni-flange to see if it would work. I went to the field shop and met Matt. I went to Rock Chalk Park. The crew installed the 3-inch compound meter, meter# 14081044 and read# 0.00. The crew turned on the water to the building. They notified Ernie with JR Mechanical that the water was on with no leaks. KN

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Report of Compaction Tests

Ipha-Omega Geotech, Inc. '01 State Avenue Kansas Clty, KS 66102 Office: (913) 371-0000 Fax: (913) 371-6710 Website: www.aogeotech.com

Compaction Waterline



| Job Name: | Rock Chalk | Sports Comple | x | | Job No.: | 12-436 | Date: | 9-20-13 |
|-----------------------------|------------------|------------------------|--------------|---------------------------------------|--------------|------------------|-----------|---------------------|
| Job Address: | | rge Williams V | /ay | | City/ State: | Lawrence, KS | | |
| Client: | Bliss Sports | | | | Contractor: | King Excavating | | |
| Inspector: | TW | | | | Reviewed: | · | | |
| Specification Re | | 95% MDD 3± | | Sc | urce of Spec | Iypical | | |
| Description of Sa | | Brown fat clay | with trace o | f organics | | | | 470.0 |
| Gauge No.: | 16 | _ Density | y Standard: | 3129.0 | - | Moisture S | tandard: | 476.0 |
| Proctor Results. | N | <i>l</i> laximum Dry E | ensity, pcf: | 93.3 | _ Optin | num Moisture Cor | ntent, %: | 23.4 |
| Test Number | 1 - 12" | 2 - 6" | 3 - 6" | 4 - 12" | 5 - 6" | | | |
| Elev. or Lift # | - 2 | - 2 | - 1 | final grade | final grade | | | |
| % Moisture | 25.9 | 23.7 | 28.7 | 26.5 | 25.1 | | | |
| Wet Density | 115.3 | 117.2 | 116.9 | 117.1 | 117.8 | | | |
| Dry Density | 91.6 | 94.7 | 90.8 | 92.6 | 94.2 | | | |
| % Compaction | 98.2 | 101.5 | 97.4 | 99.2 | 100.9 | | | |
| +/ - O.M.C. | + 2.5 | + 0.3 | + 5.3 | + 3.1 | + 1.7 | | | |
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| st Number | | | | | | | | |
| 'ev. or Lift # | | | | | | | | |
| J Moisture | | | | | | | | |
| Wet Density | | | | | | | | |
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| % Compaction | | | | 1 | | | | |
| +/ - O.M.C. | | · | | 1 | | | | |
| (Note: All elevations | are approximate |) | | | | | | |
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Report of Compaction Tests RCT 11305

Alpha-Omega Geotech, Inc. 1701 State Avenue Kansas City, KS 66102 Office: (913) 371-0000 Fax: (913) 371-6710 Website: www.aogeotech.com



| Rock Chalk | Sports Complex | | | Job No.: | 12-436 | Date: S | 9-14-13 | |
|-----------------|--|---|---|---|--|---|---|--|
| | | | | City/ State: | Lawrence, KS | | | |
| Bliss Sports | | | | Contractor: | King Excavating | | | |
| Trumaine W | /estbrook | | | Reviewed: | | | | |
| uirements: | 95% MDD | | S | ource of Spect | Typical | | | |
| mple: | | | | nics | | | | |
| 16 | Density | / Standard: | 3129.0 | - | Moistu | re Standard: | 476.0 | |
| | Maximum Dry D | ensity, pcf: | 95.5 | Optir | num Moisture | Content, %: _ | 23.4 | |
| 1 - 12" | 2 - 6" | 3 - 6" | (| | | | | |
| - 1 | - 1 | - 1 | | | | | | |
| 27.3 | 26.5 | 19.3 | | | | | | |
| 117.4 | 117.4 | 118.9 | | | | | | |
| 92.2 | 92.8 | 99.7 | | | | | Selement Col I College and | |
| 96.6 | 97.2 | 104.4 | | | | | | |
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| ГСН | | | | | | Note: Drawing | is not to scale. | |
| | TRU T | DW Deeper | Risiered IVA | | TRICKY | - D | | |
| | 6th and Gec Bliss Sports Trumaine W uirements: mple: 16 1 - 12" - 1 27.3 117.4 92.2 96.6 + 3.9 | 6th and George Williams Williams Williams Sports Trumaine Westbrook uirements: 95% MDD mple: Reddish brow 16 Density Maximum Dry D 1 - 12" 2 - 6" - 1 - 1 27.3 26.5 117.4 117.4 92.2 92.8 96.6 97.2 + 3.9 + 3.1 | 6th and George Williams Way Bliss Sports Trumaine Westbrook uirements: 95% MDD mple: Reddish brown fat clay with 16 Density Standard: Maximum Dry Density, pcf: 1 - 1 1 - 12" 2 - 6" 3 - 6" - 1 - 1 - 1 27.3 26.5 19.3 117.4 117.4 118.9 92.2 92.8 99.7 96.6 97.2 104.4 + 3.9 + 3.1 - 4.1 | 6th and George Williams Way Biss Sports Trumaine Westbrook uirements: 95% MDD Somple: Reddish brown fat clay with trace of orgating the second of the secon | 6th and George Williams Way City/ State: Bilss Sports Contractor: Trumaine Westbrook Reviewed: uirements: 95% MDD Source of Spec: mple: Reddish brown fat clay with trace of organics 3129.0 | 6th and George Williams Way City/ State: Lawrence, K Bliss Sports Contractor: King Excaval Trumaine Westbrook Reviewed: Typical uirements: 95% MDD Source of Spec: Typical mple: Reddish brown fat clay with trace of organics Typical Moistu | 6th and George Williams Way City/ State: Lawrence, KS Biss Sports Contractor: King Excavating Trumaine Westbrook Reviewed: Image: City/ State: King Excavating uirements: 95% MDD Source of Spec: Typical mple: Redish brown fat clay with trace of organics Moisture Standard: | |



WATER INSPECTION BACKUP

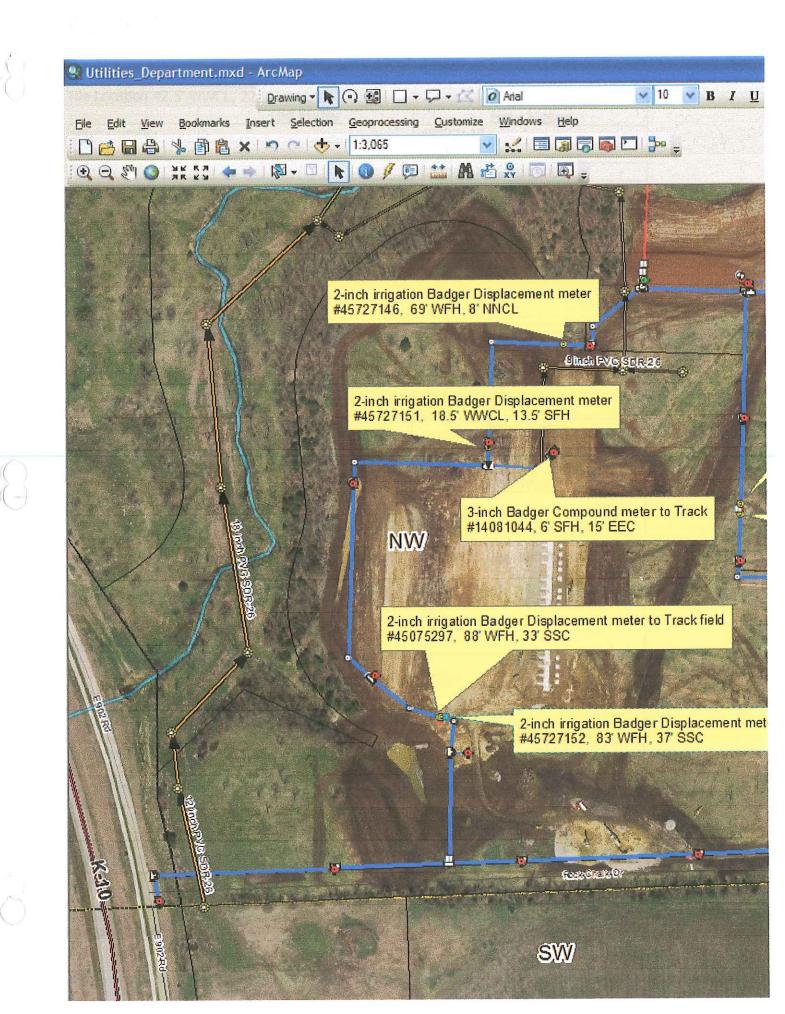
Meter Card Information

| | Old Meter | New Meter |
|-----------------|--|---------------------|
| Meter Number | | 45075297 |
| Meter Reading | | 000000 00 |
| Make of Meter | | Badger Displacement |
| Size | | 2-inch |
| Date | Date Out | Date In 11/07/13 |
| Conditions/Rema | rks eter will feed the track field. | |



Meter Card Information

| | Old Meter | New Meter |
|------------------|-----------|-----------------------|
| Meter Number | | 14081044 |
| Meter Reading | | 0 |
| Make of Meter | | Badger Compound |
| Size | | 3-inch |
| Date | Date Out | Date In 01/31/14 |
| Conditions/Remai | rks | d north of the track. |





Hydrostatic Pressure Test Report

| Project Name: Rock Chalk Park Addition 1 | Project No.: PW1315 | |
|--|---------------------|-------|
| Inspector: KN | Page: 1 | of: 1 |
| Contractor: Kings Construction | | |

| Pipeline Length | Pres (ps | | Test Time | | | | |
|-----------------|-------------|-----------|--------------|-------------------------|----|-----|--|
| . (ft) | Operating | Test | (min) | Pass | F | ail | Remarks/Repairs Made |
| 1585 | 110 | 200 | 30 | $\overline{\checkmark}$ | | | Waterline A and Waterline D from station 0+00 to 8+68 on 10/22/13 |
| 1358 | 110 | 200 | 30 | $\overline{\mathbf{A}}$ | | | Waterline D from station 8+68 to 15+88 and waterline C from Station 27+75.09 to 21+34.49 on 10/23/13 |
| 293 | 110 | 200 | 30 | | | | Waterline E on 10/24/13 |
| 1976 | 110 | 200 | 30 | \Box | | | Waterline C from Station 21+34.49 to 3+45 and Waterline F on 10/23/13 |
| 1967 | 110 | 200 | 30 | $\mathbf{\nabla}$ | | | Waterline C from station 0+00 to 3+45 and waterline B from station 0+00 to 16+23 on 10/23/13 |
| 294 | 105 | 200 | 30 | \Box | | | Waterline E (Private) on 11/07/13 |
| 863 | 110 | 200 | 30 | \Box | | | Waterline B from station 16+23 to 24+86 on 11/26/13 |
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Notes:

1. Maximum pipeline test length permitted is 1500 feet.

2. Test pressure shall be 2.5 times the operating pressure, not to exceed 200 psi.

3. Minimum test time shall be 30 minutes.

4. Any drop in pressure across the tested section of pipeline shall constitute a failure of the pressure test.