BILL TO:

CITY OF JOPLIN, MISSOURI

ACCOUNTS PAYABLE
602 S. MAIN ST.
JOPLIN, MISSOURI 64801

PAGE:
P.O. NO.: 360292
DATE: 11/12/15

FEDERAL IDENTIFICATION NUMBER 44-6000196

MISSOURI STATE SALES TAX EXEMPTION CERTIFICATE NO. 12490440

PURCHASE ORDER

TO: ANDERSON ENGINEERING INC.
2045 W WOODLAND
SPRINGFIELD, MO 65807

SHIP TO: CITY OF JOPLIN
ENGINEERING DEPARTMENT
602 SOUTH MAIN STREET
JOPLIN, MO 64801

VENDOR NO.
1688

DELIVER BY	SHIP VIA	F.O.B.	TERMS
10/31/16	BEST WAY	DESTINATION	NET

CONFIRM BY	CONFIRM TO	REQUISITIONED BY
STEVEN L BRADY	- ZAVALA, SOLEDA	LINDA WHITE

FREIGHT	CONTRACT NO.	ACCOUNT NO.	PROJECT	REQ. NO.	REQ. DATE
		150-1518-570.75-06	GFCDII	3600001090	11/06/15

LINE NO.	QUANTITY	UOM	ITEM NO. AND DESCRIPTION	UNIT COST	EXTENDED COST
1	4678.10	EA	MATERIAL TESTING JOPLIN PARK	1.00	4678.10
				SUB-TOTAL	4678.10
				TOTAL	4678.10

AUTHORIZED BY _____
PURCHASING AGENT

THE ABOVE PURCHASE ORDER NUMBER **MUST** APPEAR ON ALL INVOICES, BILLS OF LADING, AND ACKNOWLEDGEMENTS RELATING TO THE P.O.

CITY		ENGINEER	
CITY OF JOPLIN 602 S. MAIN STREET JOPLIN, MO 64801		Name: Anderson Engineering Address: 714 South Main Street Joplin, Missouri 64801	
Attention: **Tony Robyn** **trobyn@joplinmo.org**		Attention: Cody White ANDERSON ENGINEERING 811 E. THIRD STREET JOPLIN, MO 64801	
Department: **Planning, Development and Neighborhood Services Department**		417-782-7399 OFFICE	
Phone: **417-624-0820, ext 541**	Fax: **417-625-4738**	Public Park Materials Testing	

Amendment - Anderson Engineering Public Park 1
Compaction Testing and Materials Testing

City and Engineer agree to amend their October 16, 2015 Services Agreement for Professional Engineering Materials Testing Services by adding the following terms to their Agreement.

1. **Services**. The City agrees to engage the services of the Engineer and the Engineer agrees to perform the services hereinafter set forth in connection with projects described in ***Exhibit A*** **– Public Park Materials Testing and Fee Table.**

2. **Addition to Services**. The City may add to the Engineer services or delete therefrom activities of a similar nature to those set forth in ***Exhibit A*****- Public Park Materials Testing, to include Soil Testing Services,** provided that the total cost of such work does not exceed the total cost allowance as specified in Paragraph 5(b) hereof. The Engineer shall undertake such changed activities only upon the direction of the City. All such directives and changes shall be in written form and prepared and approved by the City and shall be accepted and countersigned by the Engineer.

3. **Term**. The services of the Engineer shall commence as soon as practicable after the execution of this contract, unless otherwise directed in writing, and shall be undertaken and completed in such sequence as to assure their expeditious completion in the light of the purposes of the contract, but in any event, all of the services required hereunder shall be completed as set forth in the construction contractor park schedule.

4. **Costs not to Exceed**. The City of Joplin is limited by law with respect to the amount of money it can pay. Therefore, the City has established a fixed sum for this a, which cannot be exceeded unless this contract is amended. The Engineer providing services hereunder shall be required to keep track of the amount of hours billable under this contract at all times; and any work in excess of the fixed sum shall not be eligible for payment. The Engineer shall notify the City if Engineer anticipates that the contract amount may be exceeded, in order to determine whether or not the City is prepared to increase the total compensation. The Engineer shall establish a billing system showing the original agreement amount and the amount of money remaining on the contract, which shall be shown in each monthly billing.

5. **Payment**.

a. **Conditioned upon acceptable performance.** The City agrees to pay the Engineer in accordance with the terms set forth in ***Exhibit A*****- Public Park Materials Testing,** which shall constitute complete compensation for all services to be rendered under this contract; provided, that where payments are to be made periodically to Engineer for services rendered under this contract, the City expressly reserves the right to disapprove in whole or in part a request for payment where the services rendered during the period for which payment is claimed are not performed in a timely and satisfactory manner in accordance with the schedule and description of services set forth in ***Exhibit A*****- Public Park Materials Testing.**

b. **Total compensation not to exceed.** It is expressly understood that in no event will the total compensation and reimbursement to be paid to the Engineer under the terms of this work Authorization Number ***Exhibit A*****- Public Park Materials Testing 1** exceed the sum of Four Thousand, Six Hundred and Seventy-Eight and 10/100 Dollars ($4,678.10).

6. **Insurance**. Without limiting any of the other obligations or liabilities of the Engineer, the Engineer shall secure and maintain at its own cost and expense, throughout the duration of this Contract and until the work is completed and accepted by the City of Joplin, insurance of such types and in such amounts as may be necessary to protect it and the interests of the City of Joplin against all hazards or risks of loss as hereunder specified or which may arise out of the performance of the Contract Documents. The form and limits of such insurance, together with the underwriter thereof in each case, are subject to approval by the City of Joplin. Regardless of such approval, it shall be the responsibility of the Engineer to maintain adequate insurance coverage at all times during the term of the Contract. Failure of the Engineer to maintain coverage shall not relieve it of any contractual responsibility or obligation or liability under the Contract Documents.

7. All other terms and conditions of the original Agreement dated October 16, 2015 shall remain in effect.

IN WITNESS WHEREOF, the parties hereto have set their hands and seals on the day and year herein stated.

REVIEWED FOR APPROVAL

Tony Robyn
Assistant Director of Planning, Development and Neighborhood Services

CITY OF JOPLIN, MISSOURI

By: _____
Troy Bolander
Director of Planning, Development and Neighborhood Services

Engineer: Anderson Engineering

By: John T. Snider

Printed Name: JOHN T. SNIDER

Title: VP

Date: 3/9/2016

ANDERSON ENGINEERING, INC

EMPLOYEE OWNED

Exhibit A

October 16, 2015

City of Joplin
Attn: Mr. David Hertzberg, P.E.
Public Works Office
602 South Main Street
Joplin, Missouri 64801

Re: RFQ-Soil Compaction Testing for Joplin Public Park Project at 26th & McClelland

Anderson Engineering is the most qualified testing firm in Joplin for providing the requested services for this project. We have more experience with this particular site than any other firm in Joplin. By conducting numerous geotechnical and materials testing projects on this site prior to and after the tornado that destroyed the past Mercy Hospital, we have amassed a lot of specialized knowledge about this specific site. Anderson Engineering was the Geotechnical Engineer of Record for many St John's/Mercy Projects prior to the tornado. Anderson Engineering has also conducted numerous geotechnical and materials testing projects all around the 26th street and McClelland Ave making us the most familiar with the site and the soils associated with this site.

We have also recently done testing for several deep fills / mass grading projects in this area or similar areas which involved 10s of thousands of yards of fill: Temporary St John's Mercy Hospital; Joplin High School complex; East Middle School/Soaring Heights Elementary; Home Depot; Assisted Living Center on 28th Street; and Galena HS addition. Each of these projects were done on budget for testing, often with daily visits to keep construction on tight schedules.

Mr. Steve Brady our current Chairman of the Board and Senior Geotechnical Engineer, is a priceless asset to Anderson Engineering on this project and other Joplin Projects. As the most senior and experienced geotechnical engineer in the Joplin area with over 45 years experience in the geotechnical engineering and construction testing, Mr. Brady provides a level of quality that no other firm can offer. Also we still retain Zig Tarnowieckyi, who has over 30 years of construction testing in Joplin. No other local firm, with local experience retains that much senior experience, which we call on routinely for second opinions.

As the oldest, remaining geotechnical and construction testing firm in Joplin, Anderson Engineering has the most experienced testing staff of any firm in Joplin. In our Joplin lab alone, we have 5 technicians with over 50 years of combined field testing experience. With this many technicians we are close to the site and will be responsive. We are also the only testing firm in Joplin that is ran by a licensed Professional Engineer in the Joplin Office: Cody White, P.E., with over 10 years of experience in the civil engineering and construction field. Mr. White will be responsible for day to day supervision of the testing technicians and will be responsible for reviewing all testing reports. Mr. John Snider, P.E. with over 30 years of experience in the civil engineering and construction fields will be the company Principal assigned to this project.

The primary technician for this project will be Steve Graham – he has 25 years of construction inspection and materials testing experience in a wide range of construction fields including mass grading and earthwork testing. Druly Thomas with be backup to Mr. Graham as the primary testing technician. Mr. Thomas has 10 years of construction inspection and materials testing experience in a wide range of construction fields including mass grading and earthwork. Other technicians are available to keep us locally responsive and if needed provide a 2d technician.

Thank you for your consideration for selection for this project.

ANDERSON ENGINEERING, INC.

Cody R. White, P.E.
Laboratory Manager

John T. Snider, P.E.
Principal Engineer

811 E. THIRD STREET JOPLIN, MO 64801 PH: 417.782.7389 FX: 417.782.7398 WWW.AEINCMO.COM E-MAIL: AEINC@AEINCMO.COM

ANDERSON ENGINEERING, INC

EMPLOYEE OWNED

FEE SCHEDULE - MATERIALS TESTING

THIS SCHEDULE IS PREPARED AS A METHOD OF CHARGING FOR SERVICES ON A UNIT AND HOURLY BASIS. THE RATES ARE BASED UPON THE SKILL AND KNOWLEDGE OF OUR PERSONNEL. INVOICES WILL BE SUBMITTED MONTHLY AND/OR UPON COMPLETION OF SERVICES. PAYMENT IS DUE ON RECEIPT OF THE INVOICE. ACCOUNTS OVER FORTY FIVE DAYS ARE SUBJECT TO 1 1/2% PER MONTH SERVICE CHARGE. SERVICES WILL BE PERFORMED IN ACCORDANCE WITH ACCEPTED STANDARD METHODS UTILIZING PROPERLY TRAINED, REGISTERED, LICENSED, OR CERTIFIED PERSONNEL AS REQUIRED. HOWEVER, WE CANNOT ASSUME RESPONSIBILITY FOR CONSTRUCTION METHODS, MATERIALS, PROCEDURES, PRODUCTS, SAMPLING OR ACTIONS OF OTHERS.

ANDERSON ENGINEERING, INC., BY: _____ EFFECTIVE: 10/01/2015 thru 09/30/2016

NEIL S. BRADY, P.E., PRESIDENT

BASIC CHARGES

PERSONNEL (HOURLY RATES):

PRINCIPAL	$162.00
PROJECT MANAGER	$149.00
PROJECT ENGINEER	$133.00
ASSOCIATE ENGINEER	$112.00
DESIGN ENGINEER	$90.00
GEOLOGIST	$90.00
TECHNICIAN IV - SPECIALIST/LAB MANAGER	$89.00
TECHNICIAN III - SENIOR LAB/FIELD TECHNICIAN	$73.00
TECHNICIAN II - LAB/FIELD TECHNICIAN	$52.50
TECHNICIAN I - TECHNICIAN AIDE	$44.00
STRUCTURAL STEEL/AWS CERTIFIED WELD INSPECTOR	$68.00
ASNT TC-1A ULTRASONIC, MAG PARTICLE & DYE TESTING - LEVEL II	$84.00
DESIGNER III	$92.00
DESIGNER II	$84.00
DESIGNER	$76.00
CLERICAL	$45.00

EXPENSES & EQUIPMENT CHARGES:

VEHICLE (3/4 TON OR LESS)	$0.63/MILE
VEHICLE (SUBURBAN & 1 TON+)	$0.68/MILE
WATER TRUCK	$75.00/DAY + $0.68/MILE
COPIES	$0.10/EACH
PRINTING PLANS	$0.50/SQ. FT + TECHNICIAN TIME

REIMBURSABLES: (COST PLUS 15 PERCENT) TRAVEL EXPENSES (INCLUDING MEALS AND LODGING), OUTSIDE PRINTING. CONSUMABLE MATERIALS AND SUBCONTRACTOR EXPENSES.

MINIMUM CHARGE: THERE IS A MINIMUM CHARGE OF 2 HOURS OF TECHNICIAN TIME PER JOB SITE VISIT, EXCEPT FOR CONCRETE CYLINDER AND SAMPLE PICKUP.

OVERTIME (OVER 8 HOURS PER DAY OR SATURDAYS, SUNDAYS, AND HOLIDAY WORK): 1.5 TIMES THE HOURLY RATE.

HOURLY RATES: APPLY TO MEETING AND TRAVEL TIME, INCLUDING CONCRETE CYLINDER PICKUP, FOR ALL PERSONNEL CATEGORIES.

DEPOSITION OR COURT TESTIMONY: 1.5 TIMES THE HOURLY RATE.

FIELD TESTING AND INPSECTION CHARGES

FIELD DENSITY (COMPACTION TEST)	BASIC CHARGES + $ 8.00/EA.
CONE PENETROMETER	BASIC CHARGES + $ 15.00/EA.
FLOOR FLATNESS EQUIPMENT	BASIC CHARGES + $250.00/EA.
DYNAMIC CONE PENETROMETER	BASIC CHARGES + $25.00/EA.
CORING EQUIPMENT CHARGES	BASIC CHARGES + $100.00/DAY

LABORATORY TEST CHARGES

AGGREGATES (ASTM)	UNIT CHARGE
L.A. ABRASION, SMALL AGG. (C131)	$ 127.00
L.A. ABRASION, LARGE AGG. (C535)	$ 155.00
SULFATE SOUNDNESS TEST (C88):	
5-CYCLE	$ 223.00
10-CYCLE	$ 297.00
20-CYCLE	$ 419.00
SIEVE ANALYSIS, DRY AGG (C136)	$ 53.00
SIEVE ANALYSIS (C117)	$ 64.00
SIEVE ANALYSIS (C117, C136)	$ 79.00
SPECIFIC GRAVITY, FINE AGG (C128)	$ 58.00
SPECIFIC GRAVITY, COARSE AGG (C127)	$ 58.00
LIGHTWEIGHT PIECES IN AGG (C123)	$ 90.00
ORGANIC IMPURITIES (C40)	$ 53.00
FLAT & ELONGATED PIECES (D4791)	$ 79.00
DELETERIOUS MATLS (MODOT TM71)	$ 69.00
CLAY LUMPS & FRIABLE PARTICLES (C142)	$ 85.00
DRY RODDED UNIT WEIGHT (C29)	$ 38.00

MASONRY TESTS (ASTM)	
COMPRESSIVE STRENGTH, 4" BLOCK	$ 26.50
COMPRESSIVE STRENGTH, 6" BLOCK	$ 32.00
COMPRESSIVE STRENGTH, 8" BLOCK	$ 44.50
COMPRESSIVE STRENGTH, 12" BLOCK	$ 74.00
COMPRESSIVE STRENGTH, MORTAR	
MORTAR/GROUT CUBE	$ 13.00
GROUT PRISM	$ 13.00
MORTAR CYLINDER (2" X 4")	$ 13.00
ABSORPTION, MASONRY BLOCK	$ 42.50
LINEAR SHRINKAGE (SET OF 3)	$ 318.00

BITUMINOUS TESTING	
ASPHALT CONTENT	$ 95.50
ASPHALT CONTENT & AGG. GRADATION	$ 159.00
SEIVE ANALYSIS EXTRACTION	$ 79.00
MARSHALL TEST, FIELD – 3 PUCKS	$ 79.00
MARSHALL TEST, LAB – 3 PUCKS	$ 117.00
RETAINED STABILITY	$ 180.00
ASPHALT CORE DENSITY, EACH	$ 26.50
THEORETICAL MAX. DENSITY	$ 127.00

SOIL TESTS (ASTM)	UNIT CHARGE
ATTERBERG LIMITS (D4318)	$ 58.00
SWELL TEST, 1/16 TSF (D4546)	$ 155.00
SWELL PRESSURE (D4546)	$ 292.00
SHRINKAGE LIMIT (D4943)	$ 58.00
MOISTURE CONTENT (C2216)	$ 6.00
SIEVE + HYDROMETER	$ 143.00
HYDROMETER ONLY (D422)	$ 79.00
USCS CLASSIFICATION	$ 27.50
PERCENT PASSING #200	$ 42.50
SPECIFIC GRAVITY (D854)	$ 74.00
UNCONFINED COMPRESSION	$ 51.00
UNCONFINED/TRIAXIAL, REMOLDED	$ 79.00
TRIAXIAL TEST, PP, CU w/PP	$ 309.00
ORGANIC MATTER (D2974-C)	$ 53.00
PENETROMETER	$ 4.50
SAMPLE PREP, PER HOUR	$ 51.00
SHELBY TUBE DENSITY	$ 32.00
RESISTIVITY	$ 159.00
PERMEABILITY, FALLING HEAD	$ 381.00
PERMEABILITY, FLEXIBLE WALL	$ 360.00
PERMEABILITY, CONSOLIDATION TEST	$ 159.00
CONSOLIDATION TEST, TO 8 TSF	$ 403.00
CONSOLIDATION TEST, LOAD INC. > 8 TSF, EA.	$ 53.00
CALIFORNIA BEARING RATIO, LAB, PER POINT	$ 106.00
pH	$ 53.00

LABORATORY COMPACTION TESTS	
MOISTURE DENSITY RELATIONSHIP	
STD. PROCTOR (D698), MTH A & B	$ 153.00
STD. PROCTOR (D698), MTH C	$ 180.00
STD. PROCTOR (D698), 1 POINT	$ 54.50
MOD. PROCTOR (D1557), MTH A & B	$ 186.00
MOD. PROCTOR (D1557), MTH C	$ 251.00
MOD. PROCTOR (D1557), 1 POINT	$ 60.00
RELATIVE DENSITY	$ 382.00

FEE SCHEDULE
MATERIALS TESTING
OCTOBER 01, 2015 THRU SEPTEMBER 30, 2016

CONCRETE/ROCK CORE	
CORE TRIM & TEST	$ 44.00
THICKNESS (AASHTO T148 /ASTM C174)	$ 25.00

CONCRETE TESTING	
4" X 8" OR 6" X 12" TEST MOLD	$ 2.00
6" X 12" CYLINDER, TESTED & MOLD	$ 15.00
6" X 12" CYLINDER, EXTRA & MOLD	$ 11.00
4" X 8" CYLINDER, TESTED & MOLD	$ 11.00
4" X 8" CYLINDER, EXTRA & MOLD	$ 7.00
SAW CONCRETE CYLINDER	$ 26.00
BEAM FLEXURAL STRENGTH	$ 37.00
CONCRETE BEAM, NOT TESTED	$ 21.00

Invoice

ANDERSON ENGINEERING, INC.
2045 W WOODLAND
SPRINGFIELD, MO 65807

DAVID HERTZBERG
CITY OF JOPLIN
602 S MAIN
ENGINEERING DEPARTMENT
JOPLIN, MO 64801

January 23, 2016
Invoice No: 74415

Manager CODY WHITE

Project 50093-15 Joplin Public Park 25th & McClelland
Joplin Public Park 25th & McClelland

Professional Services for the Period:December 20, 2015 to January 23, 2016

Professional Personnel

		Hours	Rate	Amount	
PROJECT ENGINEER					
ADMINISTRATION					
WHITE, CODY	11/24/2015	.50	133.00	66.50	
WHITE, CODY	11/25/2015	.25	133.00	33.25	
TECHNICIAN III					
CONFERENCE					
GRAHAM, STEVE	11/11/2015	1.00	73.00	73.00	
Totals		1.75		172.75	
Total Labor					**172.75**

Unit Billing

11/11/2015	Vehicle Mileage	10.0 Units @ 0.63	6.30	
Total Units			6.30	**6.30**

Total Project Invoice Amount **$179.05**

Billing Summary

	Current	Prior	Total
Labor	172.75	132.13	304.88
Unit	6.30	469.30	475.60
Totals	179.05	601.43	780.48

2/8/16

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, RSMO. 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 MATERIALS TWICE.

CITY OF JOPLIN

417-624-0820

CHECK NO. 102815

DATE	INVOICE	DESCRIPTION	PO	DPT/DIV	AMOUNT
01/23/16	74415	25TH & MCCLELLAND		1518	179.05

ANDERSON ENGINEERING INC. 1688 TOTAL **179.05

BEFORE SUBMITTING FOR PAYMENT, PLEASE BE SURE ALL APPROPRIATE INFORMATION IS COMPLETED AND THE NECESSARY SUPPORTING DOCUMENTATION IS ATTACHED.

FOR FINANCE DEPARTMENT USE ONLY:

APPROVED BY _____

DATE 2/16/16

CITY OF JOPLIN

602 S. MAIN ST.
JOPLIN, MISSOURI 64801

UMB Bank
Joplin, MO
18-69/1010

NO. 102815

VENDOR NUMBER	DATE	CHECK NUMBER	NET AMOUNT
1688	02/12/2016	102815	$*********179.05

ACCOUNTS PAYABLE

ONE HUNDRED SEVENTY NINE AND 05/100 DOLLARS

PAY TO THE ORDER OF
ANDERSON ENGINEERING INC.
2045 W WOODLAND
SPRINGFIELD MO 65807

NON-NEGOTIABLE

Warning: This document is void without Artificial Watermark and Red Image behind numbers on back of check. Hold at angle to view watermark.

⑈102815⑈ ⑆101000695⑆ ⑈9871420949⑈

EE | EE ADDRE | OUNT COI | JECT NUM | AL AMOU | SON FOR | 25-64 | CK DISTR | MA | HOI | PLE | HORIZED

Jones, Brandon C (US - Arlington)

From: Rachel Goeke <rachelgoeke@ppimo.com>
Sent: Tuesday, November 10, 2015 3:51 PM
To: Jones, Brandon C (US - Arlington)
Cc: DHertzbe@Joplinmo.org; Rick Hundley
Subject: 3rd Party Testing Information - 9:00 a.m. meeting tomorrow
Attachments: 2015-10-21 - PPI Cost Estimate for Joplin Public Park.pdf

Brandon,

Per my phone call, please see attached and below. I am not familiar with your planned Agenda, but I thought I would summarize background information so far as I know it.

The City of Joplin sent out two (2) separate RFQs – one for laboratory soil compaction testing and one for field compaction testing.
Anderson Engineering (c/o Cody White, P.E.) was awarded the laboratory soil compaction testing.
Palmerton & Parrish, Inc. (PPI) (c/o Rachel Goeke, P.E., also the Geotechnical Engineer of Record) was awarded the field compaction testing.

PPI provided David Hertzberg with a cost estimate for field compaction observation and testing services, as well as observation of the liner installation. *(see attached).*

PPI sent a suggested distribution list to David Hertzberg (see below) for distribution of our field reports. We have not received comments as of yet. We also asked about email only or if hard copies were requested.
David Hertzberg, P.E., City of Joplin, DHertzbe@Joplinmo.org
Jay Wohlschaleger, PLA, ASLA, SWT, jayw@swtdesign.com
Derek Don, ASLA, SWT, derekd@swtdesign.com
Aaron Harrison, P.E., Horner & Shifrin, aharrison@hornershifrin.com
Dave Smith, R.E. Smith, dave@resmithconst.com
Brandon Jones, Deloitte, brandjones@deloitte.com

To date, construction observation and field density testing has been provided on a part-time basis in general accordance with PPI's Geotechnical Engineering Report. PPI's Report did not provide a square foot-lift specific to landscape areas, and I have told PPI's Joplin Office that we can shoot for a minimum coverage of 1 test per ~7,500 square foot-lift in landscape areas, and adhere to the 1 test per 2,500 square foot-lift in structural fill areas, typically no less than 3 tests per fill lift in any case.

Project Status Update (from the vantage point of the Geotechnical Engineer of Record and CMT Laboratory):
Asbell, under contract to R.E. Smith, commenced work on pond excavation the week of 10/26/15.
As of today, 11/10/15, excavation work continues in the pond footprint area.
Material excavated from the pond footprint is being utilized as new fill in landscape areas of the site. Some filling has occurred west of the pond, and they are not working on fill on the south side of the pond. Existing asphalt pavement on the south side of the pond has been removed, base rock has been left in place, the proof-roll passed, and filling commenced.
So far, PPI (as the Geotechnical Engineer of Record) is satisfied with the nature of the material that is being excavated. Evidence of past mining activity in the pond footprint has not been observed as of this date.

Budget / Testing Intervals:

R.E. Smith (Dennis) was calling PPI periodically at the very beginning of the Project. At this point, Asbell is excavating and filling pretty quickly, and PPI is just stopping by periodically for testing. Looking at PPI's draft billing versus the budget estimate, we are in good shape. So far, so good.

Hope this information is helpful. I apologize I can't make it to Joplin for the meeting tomorrow; I had other commitments that I couldn't reschedule on short notice.

Please let me know if you have any questions or need additional information from PPI.

Rachel Goeke, P.E.
Geotechnical Engineer / Client Services Manager
Palmerton & Parrish, Inc.
4168 W. Kearney St.
Springfield, Missouri 65803
p. 417 864-6000
f. 417 864-6004
c. 417 830-0329
e. rachelgoeke@ppimo.com

Jones, Brandon C (US - Arlington)

From: Hertzberg, David <DHertzbe@Joplinmo.org>
Sent: Wednesday, October 21, 2015 10:47 PM
To: Jones, Brandon C (US - Arlington)
Subject: Fwd: Public Park Project
Attachments: 201510211545.pdf

Sent via the Samsung Galaxy S™ III, an AT&T 4G LTE smartphone

-------- Original message --------
From: Cody White
Date:10/21/2015 3:31 PM (GMT-06:00)
To: "Hertzberg, David"
Subject: Public Park Project

David,

Attached is our cost breakdown for the proctor testing at the Joplin Public Park project. This includes the 4 proctors that Rachel estimated and the one we discussed for the baserock. I added two additional proctors and associated tests to cover anything else that may come up. Hopefully that will prevent us from needing to go through the change order process. As we discussed, we will only charge for the actually number of tests conducted. Please let me know if you have any questions.

Thanks for the opportunity to work with the City on this project.

Cody R. White, PE
Laboratory Manager

ANDERSON ENGINEERING
EMPLOYEE OWNED
811 E. Third Street, Joplin, MO 64801
417-782-7399 Office 417-825-4729 Cell
Find us on Facebook
think before you print

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Jones, Brandon C (US - Arlington)

From: Hertzberg, David <DHertzbe@Joplinmo.org>
Sent: Wednesday, October 21, 2015 10:46 PM
To: Jones, Brandon C (US - Arlington)
Subject: Fwd: PPI Cost Estimate for Joplin Public Park
Attachments: 2015-10-21 - PPI Cost Estimate for Joplin Public Park.pdf

Sent via the Samsung Galaxy S™ III, an AT&T 4G LTE smartphone

-------- Original message --------
From: Rachel Goeke
Date:10/21/2015 5:36 PM (GMT-06:00)
To: "Hertzberg, David"
Cc: Rick Hundley , Mike Foley
Subject: PPI Cost Estimate for Joplin Public Park

David,

Please see attached in accordance with our conversations.

Thanks, and please let me know if you need anything else from us as we get started. Rick will coordinate with Cody as it comes time to pick up Proctors.

Rachel Goeke, P.E.
Geotechnical Engineer / Client Services Manager
Palmerton & Parrish, Inc.
4168 W. Kearney St.
Springfield, Missouri 65803
p. 417 864-6000
f. 417 864-6004
c. 417 830-0329
e. rachelgoeke@ppimo.com

PALMERTON & PARRISH, INC.

SPRINGFIELD, MISSOURI - PH.: 417 864-6000
JOPLIN, MISSOURI - PH.: 417 624-2005
BRANSON, MISSOURI - PH: 417 561-8395
TULSA, OKLAHOMA - PH: 918 872-9898

FEE SCHEDULE - 2014-2015 (Effective October 1, 2014)

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PERSONNEL RATES		
Principal	$185 /hr.	
Project Manager	$135 /hr.	
Senior Project Engineer (P.E.)	$120 /hr.	
Project Engineer (P.E.)	$105 /hr.	
Engineer In Training (E.I.T.) II	$90 /hr.	
Engineer In Training (E.I.T.) I	$82 /hr.	
Registered Geologist (R.G.)	$100 /hr.	
Geologist In Training (G.I.T.)	$80 /hr.	
Senior Technician	$70 /hr.	
Technician IV	$62 /hr.	
Technician III	$55 /hr.	
Technician II	$48 /hr.	
Technician I	$42 /hr.	
Clerical III	$54 /hr.	
Clerical II	$47 /hr.	
Clerical I	$42 /hr.	
Expert Witness or Deposition	$200 /hr.	($500 min.)

MISCELLANEOUS RATES	
Vehicle Mileage	$0.67 /mi.
Per Diem	$35 /day
Motel Expense	Expense + 15%

Overtime billing during weekends, night work, and/or Federal holidays will be billed at regular rates times a multiplier of 1.25. Out of pocket expenses for printing and materials such as pipe, well piping, cement, granular fill, and outside contractors or consultants will be billed at cost plus 15%.

An invoice will be submitted on the Friday following the last Saturday of the month. The invoice is due in 30 days and deliquent in 60 days. An interest charge of 1.5 percent per month retroactive to the date of billing, and a $15.00 monthly re-billing charge will be assessed on all unpaid balances 60 or more days old. In addition, if your account is delinquent, you shall also be responsible for all costs of collection, including a reasonable attorney's fee.

PALMERTON & PARRISH, INC.

SPRINGFIELD, MISSOURI - PH.: 417 864-6000
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SOILS TESTING	
CBR - Field (per point)	$370.00 /ea.
CBR - Lab (per point)	$141.00 /ea.
Consolidation - Load up to 16 tsf	$500.00 /ea.
Direct Shear (3-point)	$811.50 /ea.
Field Density (nuclear)	$10.50 /ea.
Field Density (sand cone)	$10.50 /ea.
Free Swell	$41.00 /ea.
Grain Size (SS Sample)	$63.50 /ea.
Grain Size (Soil Proctor)	$94.50 /ea.
Grain Size (Hydrometer Only)	$102.50 /ea.
Grain Size (Soil Sieve + Hydrometer)	$192.50 /ea.
Moisture Content	$8.00 /ea.
Organic Matter	$32.00 /ea.
Plasticity Index	$80.00 /ea.
Proctor - Modified (4")	$225.00 /ea.
Proctor - Modified (6")	$257.50 /ea.
Proctor - Standard (4")	$175.00 /ea.
Proctor - Standard (6")	$205.00 /ea.
Proctor - Single Point - Modified	$76.50 /ea.
Proctor - Single Point - Standard	$68.50 /ea.
Penetrometer	$5.50 /ea.
Permeability - Flex. Wall Shelby Tube	$400.00 /ea.
Permeability - Flex. Wall Remolded	$481.00 /ea.
Remold Triaxial Sample	$76.50 /ea.
Sand Equivelant	$78.50 /ea.
Shelby Tube Density	$26.00 /ea.
Shrinkage Limit	$400.00 /ea.
Specific Gravity Soil	$88.00 /ea.
Swell by Consolidation	$176.00 /ea.
Unconf. Compressive Strength	$65.50 /ea.
Unconf. Compressive Strength - Remold	$95.00 /ea.
Unified Classification	$34.00 /ea.
Triaxial Test - UU, 1-point	$183.00 /ea.
Triaxial Test - UU, 3-points	$370.00 /ea.
Triaxial Test - CU, 1-point	$535.00 /ea.
Triaxial Test - CU, 3-point	$840.00 /ea.
Torvane (Laboratory)	$5.50 /ea.

CONCRETE AND MASONRY	
2" x 2" x 2" Mortar Cube	$12.50 /ea.
3" x 3" x 6" Grout / Prism	$13.50 /ea.
2" DIA Concrete Core	$4.00 /in.
4" DIA Concrete Core	$4.25 /in.
6" DIA Concrete Core	$4.50 /in.
8" DIA Concrete Core	$6.25 /in.
Beam Flexible Strength	$44.50 /ea.
Calcium Nitrate Test	$48.00 /ea.
Chloride Ion Test - 1 to 2 tests	$435.00 /ea.
3 to 5 tests	$292.00 /ea.
6 or more tests	$244.00 /ea.
Comp. Strength - 4" or 6" Block	$64.00 /ea.
Comp. Strength - 8" Block	$88.00 /ea.
Comp. Strength - 12" Block	$113.50 /ea.
Concrete Core Trim, Cap, & Test	$50.00 /ea.
Concrete Cylinder - Hold	$8.25 /ea.
Concrete Cylinder - Tested	$12.50 /ea.
Concrete Mix Design	$580.00 /ea.
Concrete Mix Design with Aggregate Testing	$850.00 /ea.
Concrete/Asphalt Core Drill	$154.50 /day
Dry Shrinkage	$343.00 /ea.
Efflorescence	$271.00 /ea.
Generator	$150.00 /day
Grout Molds	$3.10 /ea.
Initial Set Test	$275.00 /ea.
Linear Shrinkage - Masonry Block (3)	$403.00 /ea.
Masonry Block (ASTM C140, set)	$188.00 /ea.
Masonry Block Prism	$84.00 /ea.
Prisms - Not Broken	$10.50 /ea.
Test Mold	$1.65 /ea.
Windsor Pin Device (Mortar)	$220.00 /day
Windsor Pins	$14.00 /ea.
Windsor Probe Device (Concrete)	$220.00 /day
Windsor Probes	$28.00 /ea.

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AGGREGATES	
Chert Content	$115.00 /ea.
Clay Lumps & Friable Particles	$107.00 /ea.
Deleterious Materials	$88.00 /ea.
Dry Rodded Weight	$34.00 /ea.
Flat and Elongated Pieces	$102.00 /ea.
Freeze Thaw Rock Slabs	$1,130.00 /ea.
L.A. Abrasion	$155.50 /ea.
Light Weight Particles	$188.00 /ea.
Limestone Core Trim and Test	$55.00 /ea.
Method D Sample Preparation	$92.00 /ea.
Methylene Blue	$167.00 /ea.
Mohs Hardness	$64.00 /ea.
Moisture Content Crusher Run	$109.00 /ea.
Organic Impurities	$69.00 /ea.
Organic Matter	$32.00 /ea.
pH Testing	$71.00 /ea.
Resistivity Aggregate	$186.00 /ea.
Rock Crushing	$207.00 /day
Sieve Analysis - Coarse, Clean Agg., Wet	$82.00 /ea.
Sieve Analysis - Coarse, Well-Graded Agg., Wet	$102.00 /ea.
Sieve Analysis - Dry Aggregate	$65.50 /ea.
Sieve Analysis - Fine Aggregate, Wet Sieve	$81.50 /ea.
Sieve Analysis- +3" Aggregate	$154.50 /ea.
Sieve Filter Aggregate	$120.00 /ea.
Sodium / Magnesium Sulfate - 05 Cycle	$271.00 /ea.
10 Cycle	$361.00 /ea.
20 Cycle	$513.00 /ea.
Soft Particles	$182.00 /ea.
Specific Gravity - Coarse Aggregate	$77.00 /ea.
Specific Gravity - Corelok	$88.00 /ea.
Specific Gravity - Field Apparent	$48.00 /ea.
Specific Gravity - Fine Aggregate	$77.00 /ea.

ASPHALT	
2" or 4" DIA Asphalt Core	$4.00 /in.
6" or 8" DIA Asphalt Core	$6.25 /in.
Anti-Stripping	$102.50 /ea.
Asphalt Core Density	$37.00 /ea.
Bituminous Extraction and Extracted Gradation (Solvent)	$304.50 /ea.
Bituminous Extraction Only (Solvent)	$213.00 /ea.
Bituminous Tensile Strength	$338.00 /ea.
Burn Furnace A.C. Content	$91.00 /ea.
Burn Furnace Aggregate Gradation	$82.00 /ea.
Field Density AC Thin Lift	$10.30 /ea.
Fine Aggregate Angularity	$61.00 /ea.
Fractured Faces	$70.50 /ea.
Gyratory Compaction	$110.00 /day
Gyratory Mix Verification	$675.00 /pt.
35, 50, or 75 blow	$2,100.00 /ea.
Marshall Mix Design Trials	$650.00 /ea.
Marshall Mix Verification	$560.00 /pt.
Marshall Retained Stability	$225.00 /ea.
Marshall Stability - Field - Set of 3 pucks	$102.00 /set
Marshall Stability - Lab - Set of 3 pucks	$154.00 /set
Micro-Duval	$252.50 /ea.
Nuclear A.C. Content	$45.00 /ea.
Nuclear Calibration - Puck or Pan	$473.00 /ea.
Theoretical Maximum Density	$155.00 /ea.
TSR Only	$532.00 /ea.
TSR with Mix Design	$297.00 /ea.
SP125 Design Complete	$3,350.00 /ea.
SP190 Design Complete	$3,350.00 /ea.
SP250 Design Complete	$3,350.00 /ea.
SP125 Partial / Resubmitted	$1,854.00 /ea.
SP190 Partial / Resubmitted	$1,854.00 /ea.
SP250 Partial / Resubmitted	$1,854.00 /ea.

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ENVIRONMENTAL MONITORING WELLS	0 to 20 ft.	20 to 40 ft.	40 to 60 ft.	Below 60 ft.
Well Riser - 2" Dia., SCH 40 PVC	$20.95 /ft.	$23.50 /ft.	$24.75 /ft.	$26.50 /ft.
Well Screen - 2" Dia., SCH 40 PVC	$32.80 /ft.	$35.00 /ft.	$37.15 /ft.	$39.50 /ft.
Well Riser - 2" Dia., SCH 80 PVC	$21.90 /ft.	$24.50 /ft.	$26.35 /ft.	$28.50 /ft.
Well Screen - 2" Dia., SCH 80 PVC	$35.45 /ft.	$38.00 /ft.	$39.85 /ft.	$42.00 /ft.
Well Riser - 4" Dia., SCH 40 PVC	$41.85 /ft.	$48.50 /ft.	QUOTE /ft.	QUOTE /ft.
Well Screen - 4" Dia., SCH 40 PVC	$60.05 /ft.	$65.50 /ft.	QUOTE /ft.	QUOTE /ft.
Well Riser - 4" Dia., SCH 80 PVC	$45.40 /ft.	$52.00 /ft.	QUOTE /ft.	QUOTE /ft.
Well Screen - 4" Dia., SCH 80 PVC	$64.00 /ft.	$69.50 /ft.	QUOTE /ft.	QUOTE /ft.

ENVIRONMENTAL FIELD SERVICES	
2" DIA Expanding Plug & Lock	$29.00 /ea.
2" DIA Cap or Plug	$18.50 /ea.
4" DIA Expanding Plug & Lock	$36.50 /ea.
4" DIA Cap or Plug	$18.50 /ea.
2" DIA Pump	$95.00 /ea.
3" DIA Pump	$105.00 /ea.
Above Ground Protective Cover	$226.50 /ea.
Bentonite Plug - 3.25" or 4.25" I.D. HSA	$29.50 /ea.
Bentonite Plug - 6.625" I.D. HSA	$55.00 /ea.
Bumper Post	$91.00 /ea.
Cement or Volclay Grout - 3.25" or 4.25" I.D. HSA	$8.00 /ft.
Cement or Volclay Grout - 6.625" I.D. HSA	$14.00 /ft.
Cement or Volclay Grout - HQ Core Hole	$5.50 /ft.
Cement or Volclay Grout - NQ2 Core Hole	$5.00 /ft.
Centralizer	$23.00 /ea.
Chemco Grout Plant	$400.00 /day
Concrete Well Caps	$445.00 /ea.
Disposable Well Bailers	$13.00 /ea.
Dye Penetrant / Developer	$15.00 /can
Environmental Sample Jars	$6.00 /ea.
Flush Mount Cover	$185.00 /ea.
High Pressure Sprayer	$105.00 /day
High Yield Bentonite Grout	QUOTE
Level D	$20.00 /day
PID	$91.00 /day
Ph Meter	$16.50 /day
PVC Well Points	$12.50 /ea.
Spoil Drums	$92.00 /ea.
Steam Cleaner	$185.00 /day
Tyvek	$150.00 /man/day
Water Level Meter	$34.00 /day
Well Development	$111.00 /hr.

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PPI's Drilling Fleet includes three (3) track-mounted CME 55s (2000, 2005, and 2014), an ATV-mounted CME 550X (2010), an ATV-mounted BK51, a truck-mounted BK51, and a truck-mounted CME 75.

PPI maintains considerable additional equipment, and can tailor our services to meet the needs of your Subsurface Investigation Program. A brief listing of some of our other Drilling Equipment is provided at the bottom of this sheet.

MOBILIZATION / DEMOBILIZATION / TRAVEL	
Drill Rig Travel (Mob. / Demob.)	$145.00 min. or $3.00 /mi.
Support Truck Travel (1 ton / Water Truck)	$1.15 /mi.
Support Truck Travel (1/2-ton)	$0.67 /mi.
Difficult Drill Rig Set-Up	$145.00 /ea.
Track Between Borings	Quote /proj.

SOIL AND ROCK DRILLING UNIT RATES	0 to 20 ft.	20 to 40 ft.	40 to 60 ft.	Below 60 ft.
CFA (4.5")	9.00 /ft.	11.70 /ft.	13.80 /ft.	15.60 /ft.
HSA (3.25" or 4.25" I.D.)	13.15 /ft.	15.60 /ft.	17.70 /ft.	20.00 /ft.
HSA (6.625" I.D.)	31.40 /ft.	38.20 /ft.	QUOTE /ft.	QUOTE /ft.
HSA (8.25" I.D.)	QUOTE /ft.	QUOTE /ft.	QUOTE /ft.	QUOTE /ft.
Wash Boring / Mud Rotary	13.30 /ft.	14.20 /ft.	15.50 /ft.	16.65 /ft.
Rock Penetration (Auger)	$36.30 /ft.	$44.50 /ft.	$52.00 /ft.	$62.50 /ft.
NQ2 Rock Coring	$49.20 /ft.	$54.25 /ft.	$56.60 /ft.	$61.10 /ft.
HQ Rock Coring	$56.50 /ft.	QUOTE /ft.	QUOTE /ft.	QUOTE /ft.
PQ Rock Coring	$65.00 /ft.	QUOTE /ft.	QUOTE /ft.	QUOTE /ft.
3" Dia. Rock Tri-Cone	$44.00 /ft.	$50.00 /ft.	$54.00 /ft.	$61.00 /ft.
4" Dia. Rock Tri-Cone	$53.70 /ft.	$60.00 /ft.	$64.00 /ft.	$72.50 /ft.
6" Dia. Rock Tri-Cone	$63.50 /ft.	$69.00 /ft.	QUOTE /ft.	QUOTE /ft.

SOIL SAMPLING RATES	0 to 20 ft.	20 to 40 ft.	40 to 60 ft.	Below 60 ft.
2" Dia. Split Spoon	$31.00 /ea.	$36.00 /ea.	$42.00 /ea.	$53.00 /ea.
2" Dia. Shelby Tube	$30.00 /ea.	$35.00 /ea.	$41.00 /ea.	$51.50 /ea.
3" Dia. Shelby Tube	$31.00 /ea.	$36.00 /ea.	$42.00 /ea.	$53.00 /ea.
5" Dia. Shelby Tube	QUOTE /ea.	QUOTE /ea.	QUOTE /ea.	QUOTE /ea.
CME Continuous Sampler	$20.00 /ea.	$24.00 /ea.	$29.00 /ea.	$34.00 /ea.
5-Gallon Bucket Grab Sample	$13.00 /ea.	$13.00 /ea.	$13.00 /ea.	$13.00 /ea.

MISCELLANEOUS UNIT RATES	
Angle Drilling and Sampling	Unit Charge * 1.30
Drill Rig w/ 2-man Crew	$223.00 /hr.
Backfill Boring	$10.00 /ea.
Fuel Permit	$130.00 /ea.
Water Meter	$18.00 /day
Rock Hammer Set-Up	$150.00 /ea.
NQ Single Packer Test	$305.00 /ea.
NQ Double Packer Test	$330.00 /ea.
6" Dia. Single Packer Test	$350.00 /ea.
6" Dia. Double Packer Test	$375.00 /ea.
Low OH Rig w/ 2-man Crew	$200.00 /hr.
Inclinometer Installation	Quote

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MISCELLANEOUS	
2000 ft.-lb. Torque Wrench	$200.00 /day
Air Compressor	$310.00 /day
Concrete Buggy	$206.00 /day
Concrete Mixer	$185.00 /day
Core Drill	$154.50 /day
Down Hole Camera	$150.00 /day
Dynamic Cone Penetrometer	$201.00 /day
Earth Resistivity Meter	$100.00 /day
Fire Proofing Density Tests	$25.50 /ea.
Fireproofing Adhesion Kits	$16.00 /ea.
Floor Flatness Gauge	$309.00 /day
Generator	$150.00 /day
GPR Large Window	$250.00 /hr.
GPR Small Window	$125.00 /hr.
Hanging Scale (2,000 lb.)	$155.00 /day
Hanging Scale (20,000 lb.)	$310.00 /day
Inclinometer - Digitilt	Quote
James R. Meter / Rebar Locator	$100.00 /day
Magnetic Particle Gauge	$100.00 /day
Maturity Meters	$9.00 /day
Maturity Meter Loggers	$125.00 /ea.
Moisture Detection Kits	$42.50 /ea.
Paint Thickness	$106.00 /ea.
Pavement Saw	$215.00 /day
Ram & Pump	$110.00 /day
Relative Humidity Meter	$56.00 /day
Relative Humidity Probe	$42.00 /ea.
Relative Humidity Sleeves	$6.00 /ea.
Report Printing	$21.00 /ea.
Rotary Hammer	$110.00 /day
Skidmore Tensiometer	$100.00 /day
Survey Crew w/ Total Station	$175.00 /hr.
Swiss Hammer	$41.50 /ea.
Torque Wrench	$50.00 /day
Ultra Sonic Gauge	$185.00 /day
Vibrator	$67.00 /day

HORNER & SHIFRIN, INC.

LIMITATIONS REGARDING ELECTRONIC TRANSFERS OF HORNER & SHIFRIN, INC. WORK PRODUCTS

Horner & Shifrin, Inc. (H&S) takes every reasonable precaution to promote the complete and accurate transfer of electronic files pertaining to data contained here within. However, due to the fact that the actual receipt and/or any subsequent manipulation of such transferred files by the receiving party is beyond the control of H&S, we cannot assume any responsibility for the use of such electronically transferred files for any purpose.

In order to assist receiving parties in assessing the accuracy of the electronic transmission of computer files and to facilitate subsequent use of such files, upon request by the receiving party, Horner & Shifrin will provide (at the expense of the requesting party) a hard copy of the drawing, printed text, or spreadsheet represented by the corresponding electronic file that was transferred.

It is the sole responsibility of the party receiving such electronically transferred files to crosscheck the confirming hard copy against the contents of the electronic file received to confirm the accuracy of the transfer. Upon notification by the receiving party (within a seven (7) calendar day acceptance period from the date of receipt of the confirming hard copy) of any discrepancies between the hard copy and the electronically transferred file, H&S will work with the receiving party to resolve such discrepancies. H&S will not be responsible for any such discrepancies that are not reported to H&S within the acceptance period.

Further, H&S reserves the right to modify and/or utilize the information contained within any electronically transferred file without any obligation to any other entity that may have received such file.

Contract Drawing Information

Horner & Shifrin, Inc. may provide copies of Electronic Files of certain Contract Drawings to the Contractor, only for Contractor's convenience in preparing fabrication drawings, performing fire protection system design / layout, or other construction-related purposes. Contractor shall not use any such Electronic Files for any purpose, other than in connection with the work to be completed under this Contract; and shall not have any rights to transfer, sell, or pledge such Electronic Files to any other entity. In addition, Horner & Shifrin, Inc. furnishes no warranties, express or implied, concerning the accuracy, correctness, or completeness of these Electronic Files; nor does Horner & Shifrin, Inc. accept any liability that the means of electronic transfer of the Electronic Files are free of computer virus or have not been corrupted in transfer.

Contractor shall be responsible for independently verifying the accuracy, correctness, and completeness of such Electronic Files for Contractor's needs, and for assuring that such Files are free off any viruses, prior to any use or subsequent distribution to subcontractors. Contractor shall remove all references to the names and/or logos of Horner & Shifrin and any of its subconsultants from any Contract Drawings prior to their re-use by Contractor or subcontractors.

With respect to fire protection or alarm system Contract Drawings, such Drawings are provided for the Contractor's use in understanding the design intent, and are therefore to be used for diagrammatic reference only. The Contractor shall be solely responsible for field verification of all Contract Drawings provided, with respect to locations and sizes of any existing piping or structures, potential conflicts between fire protection system piping / sprinkler heads / appurtenances, and so on. The Contractor shall also be solely responsible for developing (and submitting for Engineer's review) the design calculations for the fire protection system design (sealed by a professional engineer registered in the state where the project is located), obtaining all necessary approvals from local building authorities and Fire Marshals, and installing a complete and fully-functional fire protection system in those areas designated by the Contract Documents to be fire protected.

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