SECTION 009113 - **ADDENDA #2**

PART 1 - Addenda

1.1 PROJECT INFORMATION

A. Project Name: Joplin Public Park.

B. Owner: City of Joplin, MO.

C. Owner Project Number: 2015-011.

D. Architect: SWT Design.

E. Architect Project Number: 220288.01.

F. Date of Addendum: August 13, 2015.

1.2 NOTICE TO BIDDERS

A. This Addendum is issued to all registered plan holders pursuant to the Instructions to Bidders and Conditions of the Contract. This Addendum serves to clarify, revise, and supersede information in the Project Manual, Drawings, and previously issued Addenda. Portions of the Addendum affecting the Contract Documents will be incorporated into the Contract by enumeration of the Addendum in the Owner/Contractor Agreement.

B. The Bidder shall acknowledge receipt of this Addendum in the appropriate space on the Bid Form.

C. The date for receipt of bids is unchanged by this Addendum, at same time and location.

1. Bid Date: August 27, 2015.

1.3 ATTACHMENTS

A. This Addendum includes the following attached Documents:
1. Document A, Current Plan Holder List, dated August 13, 2015.
2. Document B, Pre-Bid Meeting Attendees, dated August 11, 2015.
3. Document C, Pre-Bid Meeting Agenda and Notes, dated August 11, 2015.
4. Document D, Pre-Bid Meeting Questions and Answers, dated August 13, 2015.
5. Document E, Electric Questions and Answers, dated August 13, 2015.
6. Document F, Specifications for Restroom Facility.

1.4 CLARIFICATIONS

A. Specification Section 000002 Table of Contents, (not reissued).

1. Division 03 – Should read as “033000 – Cast in Place Concrete”. Is currently included with bid manual, there was simply an edit made to the table of contents.

END OF SECTION 009113

DOCUMENT A

CURRENT PLAN HOLDER LIST

JOPLIN PUBLIC PARK

PLAN HOLDER LIST

August 13, 2015

Responses	Company	Location	Contact Name	Email	Phone Number
1	Play By Design	Tulsa, OK	Kelli Collins	playbydesigninc@gmail.com	918-851-9518
2	Audio Input, LLC	Joplin, MO	Perry Workman	pworkman@audioinput.com	417-782-2569
3	Hunter Knepshield Co.	La Grange, KY	Tom Knepshield	knepsr@gmail.com	502-225-9121
4	Blevins Asphalt Construction Co.	Mt. Vernon, MO	Jeran Cordova	jcordova@blevinsasphalt.com	417-466-3758
5	Bill's Electric, Inc.	Webb City, MO	Misty Youngblood	myoungblood@beijoplin.com	417-624-6660 ext. 239
6	Koppel Fabrication, Inc.	Sweet Springs, MO	Larry Winfrey	larry@koppelfab.com	660-335-4601
7	Crossland Construction Company	Columbus, KS	Tamara Mann	tmann@crosslandconstruction.com	620-429-1414
8	iSqFt*		Matt Knochelman	mknochelman@ISQFT.com	800-364-2059 ext. 7029
9	Tri-State Area Contractors Association	Joplin, MO	Heather Griffith	heather@tristatecontractors.net	417-627-9392
10	Jeff Asbell Excavating and Trucking, Inc.	Carl Junction, MO	Donna Blackmon	dblackmon@jeffasbell.com	
11	Big John's Heavy Equipment	Diamond, MO	Maggie Anderson	manderson@swmotm.com	417-437-0285
12	McCann Concrete Products, Inc.	Dorsey, IL	Debbie Christopher	dchristopher@mccannprecast.com	618-377-3888
13	Joplin Electrical Co., Inc.	Duenweg, MO	Jeff Cartright	jeff@joplinelectric.com	417-623-3425
14	Simply Bright Ideas	St. Charles, MO	Brian Brader	brian@simplybrightideas.com	314-718-1688
15	Wickman Gardens	Springfield, MO	Brian Bennett	brianbennett950@gmail.com	417-880-5236
16	DeWitt and Associates	Springfield, MO	Heath Dawson	hdawson@dewitt-associates.com	417-881-4820
17	Dalton-Killinger Construction Company	Joplin, MO	Mary Lou Halama	marylouhalama@daltonkillinger.com	417-624-0651
18	B&D Yardbuilders, Inc.	Joplin, MO	Lisa Keele	bndboston@cableone.net	417-623-8754
19	APAC Missouri, Inc.	Joplin, MO	David Andrews	david.andrews@apac.com	417-849-0821
20	RE Smith Construction	Joplin, MO	Dave Smith	dave@resmithconst.com	417-623-4545
21	ePlan*	Columbia, MO	Raven Webster	ravenw@eplanbidding.com	573-447-7130
22	Dodge *	IL, IN, KS, MO	Darlene Morman	darlene.morman@construction.com	847-221-2141
23	Branco Enterprises, Inc.	Neosho / Springfield, MO	Patrick Capron	PCAPRON@branco.com	417-451-5250
24	Athco, LLC	Lenexa, KS	Jason Cates	JCates@athcollc.com	913-469-5600
25	Layne Electric	Joplin, MO	Mark Layne	mark@layneelectric.com	417-782-5800
26	Construction Market Data*	Norcross, GA	Robert Canetta	robert.canetta@cmdgroup.com	630-288-7973
27	CorWorth / Restroom Facilities Ldt.	Marble Falls, TX	Shanda Miller	shanda@corworth.com	800-447-6570
28	Mid America Sports Construction	Lees Summit, MO	Nick Roth	nroth@mid-americagolf.com	816-524-0010
29	Emery Sapp & Sons, Inc.	Springfield, MO	Janet Caudillo	Janet.Caudillo@Emerysapp.com	417-833-9915
30	Baxter Farms and Nurseries	St. Louis, MO	Chistopher Ake	Chris@BaxterFarms.com	314-542-9400
31	SFP Landscaping / Native Landscape	St. Louis, MO	Charles Caverly	chuckc@sfplandscapinginc.com	314-544-7918
32	Shade-Guard	St. Louis, MO	Jerre Parsons	jerre@shade-guard.com	314-363-7637
33	Solartonic	Ann Arbor, MI	Brian Tell	brian@solartonic.com	734-418-0696
34	AB Creative	St. Louis, MO	Tony May	tony@abcreative.net	314-478-9160
35	Central Turf and Irrigation	Springfield, MO	Kent Brobst	kbrobst@centraltis.com	417-924-9696
36	Kenney Outdoor Solutions	Lenexa, KS	Korey Your	korey.york@kmcturf.com	913-449-8683
37	Branco Enterprises, Inc.	Neosho / Springfield, MO	Bruce Johnson	bjohnson@branco.com	417-451-5250
38	Wickman Gardens	Springfield, MO	Brian Bennett	brianbennett950@gmail.com	417-880-5236
39	Rooter Local 20	Kansas City			417-413-6600
40	Ashell Excavating and Trucking	Carl Junction, MO	Duane Inartick	dwartick@jeffasbell.com	417-437-0526
41	A-Y-I	Carl Junction, MO	Dan Yates	duates@a-yi.com	417-437-0206
42	RE Smith Construction		Chris Bookstaver	chris@resmithcont.com	417-439-3394
43	Carson-Mitchell		Jason Carson	jason@carson-mitchel.com	417-859-5653
44	Vaughn Dirtwork	Molett, MO	Jacob Vaughn	joulo@sbcglobal.net	417-737-1427
45	Layne Electric		Adam Layne	adam@laynelectric.com	417-782-5800
46	Dalton-Killinger Construction Company		Shane McDaniel	bidfile@daltonkillinger.com	417-624-0651
47	Emery Sapp and So.	Springfield, MO	Chris Orf	chris.orf@emerysapp.com	417-833-9915

48	Atnip Enterprise	Jasper, MO	Michael Ehrson	mikeehrson@yahoo.com	417-525-4280
49	Paragon	Tulsa, OK	Mike Thedford	miket@paragontulsa.com	918-497-0627
50	Crossland Construction Company		Steve Houser	shouser@crosslandconstruction.com	620-429-1414
51	Southwest Traffic MO	Joplin, MO	Sid Davis	sdavis@joplin.com	417-437-0285
52	Dalton-Killinger Construction Company		Justin Underwood	bidfile@daltonkillinger.com	417-624-0651
53	Goals Ent.		Jim Thomasex	contact@goinsent.com	417-659-6082
54	Fagan Electric	Joplin, MO	David Webb	dwebb@faganelectric.com	417-623-4848
55	Double S Dirt Works		Zac Short	zac.ssdirtworks@windstream.net	417-843-2185
56	JIE	Joplin, MO	Mike Kinmer	mike@joplinelectric.com	414-623-3425
57	Jeff Asbell Excavating and Trucking, Inc.		Rusty Snyder	rsnyder@jeffasbell.com	417-437-1195
58	BEI	Joplin, MO	Dwight Harvey	dharvey@beijoplin.com	417-621-8031
59	All Seasons	Joplin, MO	Bo Jones	jeff@joplinrockyard.com	417-206-0534
60	All Seasons	Joplin, MO	Jeff Coffey	jeff@joplinrockyard.com	417-206-0534
61	Estate Management Services	Willard, MO	Jimmy Rogers		417-838-8040
62	RE Smith Construction	Joplin, MO	Dave Smith	dave@resmithconst.com	417-439-4545

DOCUMENT B

PRE-BID MEETING ATTENDEES

JOPLIN PUBLIC PARK

Pre-Bid Meeting
10:00am @ Joplin City Hall, 5th Floor
August 11, 2015

Name Jacob Vaughn	Address: PO Box 438 Monett, MO 65708	Phone Number: 417-737-1427
Company Vaughn Dirtworks	Email: JDV10@sscglobal.net	
Name ADAM LAYNE	Address: 1104 Byers	Phone Number: 417-782-5800
Company LAYNE Elect	Email: adam@ layneelectric.com	
Name Shane McDaniel	Address:	Phone Number: 417-624-0651
Company Dalton-Killinger	Email: bidfile@daltonkillinger.com	
Name Chris Orr	Address: 5350 ENWY AA Springfield, MO	Phone Number: 417-833-9915
Company Emery Sapp & Sons	Email: chris.orr@emerysapp.com	
Name Adnip Enterprise	Address: Jasper MO	Phone Number: 417 525-3280 434-3283
Company Michael Ehrsam	Email: mikeehrsam@yahoo.com	
Name Rachel Baker	Address: rachelgaker@ppimail.com	Phone Number:
Company Paragon	Email: mikel@paragontulsa.com	
Name Mike Thedford	Address: Tulsa, OK	Phone Number: 918-497-0627
Company	Email:	
Name	Address:	Phone Number:
Company	Email:	

JOPLIN PUBLIC PARK

Pre-Bid Meeting
10:00am @ Joplin City Hall, 5th Floor
August 11, 2015

Name STEVE HOUSER	Address:	Phone Number: 620.429.1414
Company CROSSLAND CONST.	Email: shouser@crosslandconstruction.com	
Name SID DAVIS	Address:	Phone Number:
Company Southwest Traffic MO	Email: sdavis@joplin.com	417 439 0285
Name JUSTIN UNDERWOOD	Address:	Phone Number: 417-624-0651
Company DALTON-KILLINGER CONST	Email: bidfile@daltonkillinger	
Name JIM THOMAS	Address:	Phone Number: 417-659-6002
Company GOODS ENT	Email: CONTACT@GOODSEATS.COM	
Name	Address:	Phone Number:
Company	Email:	
Name	Address:	Phone Number:
Company	Email:	
Name	Address:	Phone Number:
Company	Email:	
Name	Address:	Phone Number:
Company	Email:	

JOPLIN PUBLIC PARK

Pre-Bid Meeting
10:00am @ Joplin City Hall, 5th Floor
August 11, 2015

Name David Webb	Address: 313 W. 15th Joplin	Phone Number: 623-4848
Company Fagan Electric	Email: dwebb@faganelectric.com	
Name Zac Short	Address:	Phone Number:
Company Double S Dirt Works	Email: zac.ssdirtworks@windstream.net	417-843-2185
Name Mike Kinnison	Address: 2202 S. Prigmore	Phone Number: 1+417-623-3425
Company JIF	Email: mike@joplinelectric.com	
Name Rusty Snyder	Address:	Phone Number: 417.437-1195
Company Jeff Abell Exc.	Email: rsnyder@jeffabell.com	
Name Dwight Harvey	Address: 1776 Falcon Dr Joplin	Phone Number: 417-621-8031
Company BEI	Email: ~~dharvey@beijoplin.com~~	dharvey@beijoplin.com
Name Bo Jones / Jeff Coffey	Address: 815 S Schiffendecker	Phone Number: 417-206-0534
Company All Seasons	Email: jeff@joplinrockyard.com	
Name Jimmy Rogers Estate Management Service	Address: 4657 W FR 60 Willard MO 65781	Phone Number: 417 838-8040
Company RE Smith	Email: dave@RESmithconst.com	417 439 4575
Name Dave Smith	Address: Joplin	Phone Number:
Company	Email:	

JOPLIN PUBLIC PARK

Pre-Bid Meeting
10:00am @ Joplin City Hall, 5th Floor
August 11, 2015

Name: Duane Wartick	Address: 9400 State Hwy 171, Carl Jct, MO	Phone Number: 417 437 0520
Company: Abell Electric Co.	Email: Dwartick@jeffabell.com	
Name: Bruce Johnson	Address: Neosho, MO	Phone Number: 417-451-5250 451-2851
Company: Branco Ent.	Email: bjohnson@branco.co	
Name: Brian Bennett	Address: 1346 S Fort Springfield MO	Phone Number: 417 880 5236
Company: Lickman	Email: brianbennett1950@gmail.com	
Name: Roofers Local 220	Address: KANSAS City	Phone Number: 417 413 6600
Company:	Email:	
Name:	Address:	Phone Number:
Company	Email:	
Name: Dan Yates	Address: 9585 County Line 274 Carl Junc.	Phone Number: 417-437-0206
Company: A-Y-1	Email: DYates@A-Y-1.com	
Name: Chris Beckstaver	Address: 1036 W. 2nd St.	Phone Number: 417-439-3394
Company: RE Smith	Email: Chris@resmithconst.com	
Name: Jason Carson	Address:	Phone Number: 417-869-5653
Company: Carson-Mitchell	Email: jason@carson-mitchell.com	

DOCUMENT C

PRE-BID MEETING AGENDA AND NOTES

JOPLIN PUBLIC PARK

AGENDA

PRE-BID MEETING
August 11, 2015
10:00am @ Joplin City Hall, 5th Floor

1. Introduction

2. CDBG Requirements [Please be familiar with CDBG section of the specifications]

3. Schedule
    a. 8/19 last day for questions
    b. 8/21 final addendum w/ plan holder list will be issued
    c. 8/27 bids due at 2:00pm, City Hall – 4th Floor
    d. 9/21 City Council Approval
    e. 4/29 Substantial Completion
    f. If needed GC interviews will take place the week of 8/31 in Joplin

4. Bid Manual Overview
    a. Front End
    b. Appendix

5. Bid Requirements
    a. Section 004

6. Review of the Project
    a. Site Plan
    b. Alternates
    c. Estimated Base Construction Budget [Design team stated estimated base construction budget is approximately $3,000,000]

7. Q&A [See attachment included with Addendum #2]

8. Site Visit

DOCUMENT D

PRE-BID MEETING QUESTIONS AND ANSWERS

JOPLIN PUBLIC PARK

PRE-BID MEETING

QUESTIONS / ANSWERS / CLARIFICATIONS
August 11, 2015
10:00am @ Joplin City Hall, 5th Floor

1. A revised alternate list will be issued as part of Addendum #3. All construction, including any accepted alternates are to be complete by substantial completion date.

2. **Q:** Can base bid and alternate bids be turned in at 2:00 pm with all other forms turned in later?
   A: No, all required forms and information must be turned at 2:00 per instructions. Sealed bids will be accepted at Joplin City Hall, 602 S. Main Street, 4th Floor; Joplin, MO 64801 until 2pm, CST, August 27, 2015 and read aloud.

3. **Q:** Will the unit cost be used to determine contract award?
   A: No, the unit prices will only be used to address potential changes in the field.

4. **Q:** Are there to be detectable ADA warnings at sidewalks?
   Y: Yes, there are to be 8 locations of detectable warnings. Reference Appendix A, Section 2300 – Incidental Construction, Subsection 2301.9, Detectable Warnings

5. **Q:** How many bollards are called out on the plans?
   A: There are 10 bollards in total.

6. **Q:** Is there an alternate approach from what is referenced in the geotechnical report?
   A: Will be answered as part of Addendum #3.

7. **Q:** Are there specifications for the pvc liner?
   A: Yes, there are specifications in the geotechnical report.

8. **Q:** Can we use PEB's in lieu of PGA's for the irrigation system?
   A: Will be answered as part of Addendum #3.

9. **Q:** Who will be doing the onsite inspections and testing?
   A: Will be answered as part of Addendum #3.

10. **Q:** Will permits be required?
    A: Yes, permits will be required. Fees will be waived.

11. **Q:** Will weather days be taken into consideration as it relates to the substantial completion date?
    A: Language relating to weather days are included in the front end specifications.

12. **Q:** Who will be responsible for paying the utility tap fee?
    A: Will be answered as part of Addendum #3.

13. Legend on Sheet G002, #14 lake fountain should reference detail D on sheet L501 and #23 drinking fountain should reference detail G on sheet L502.

14. **Q:** Will there be thickened concrete edge at expansion joints?
    A: Yes, only per details and sections. Typical expansion joints would not have thickened edges

15. **Q:** Is it anticipated for there to excavation of bedrock?
    A: Will be answered as part of Addendum #3.

16. Future artwork locations are to have empty conduit only for future lights. No additional work is required at these areas.

17. Only expansion joints should be caulked all others per detail.

18. **Q:** What is the salvaged light referenced on sheet L505 detail A?
    A: The existing lights in the parking lot are to be removed and reused per electrical plans.

19. **Q:** What is the material for the interpretive signage?
    A: Detail E on Sheet L502 provides design intent. The graphic itself would be provided by Owner.

20. **Q:** Is the centerline of the walk intended to be a tooled joint?
    A: Reference detail B on sheet L500 for concrete joints.

21. **Q:** Would cultivars of trees and shrubs be acceptable?
    A: Bidders to bid per plant schedule. Cultivars would be reviewed during construction and the submittal process.

22. Standard sidewalks to be 4” depth, per detail A on sheet L500. Heavy duty concrete to be 6” per detail D on sheet L500.

DOCUMENT E

ELECTRICAL QUESTIONS AND ANSWERS

JOPLIN PUBLIC PARK

ELECTRICAL QUESTIONS

QUESTIONS / ANSWERS

Received: 8/6

1. **Q:** Sheet E600 panel PP, ckt 1 and 3 (2-pole breaker) is feeding type A light fixtures which is a 277 volt light fixture through a single pole lighting contactor. Is the breaker correct or are the light and contactor correct?
   A: Fixture type A are 277 V, single phase. Single pole breaker (PP-1) will be used in panel PP. Lighting contactor shall be single pole.

2. **Q:** Sheet E600 panel PP, ckt 2 and 4 (2-pole breaker) is feeding type A light fixtures which is a 277 volt light fixture through a single pole lighting contactor. Is the breaker correct or are the light and contactor correct?
   A: Fixture type A are 277 V, single phase. Single pole breaker (PP-2) will be used in panel PP. Lighting contactor shall be single pole.

3. **Q:** Sheet E600 panel PP, ckt 5 and 7 (2-pole breaker) is feeding type A light fixtures which is a 277 volt light fixture through a single pole lighting contactor. Is the breaker correct or are the light and contactor correct?
   A: Fixture type A are 277 V, single phase. Single pole breaker (PP-3) will be used in panel PP. Lighting contactor shall be single pole.

4. **Q:** Type B fixtures which are 480v according to the fixture schedule are being fed through a single pole contactor in the lighting contactor panel. The lighting contactor panel schedule also show the type B poles are fed from PP ckt 4, which is the 2 pole breaker that is feeding some of the type A light poles.
   A: Fixture type B are 480 V, single phase. 2 pole breaker (PP-4,6) will be used in panel PP. Lighting contactor shall be double pole.

5. **Q:** The type E's and the type F's are being fed from panel PP circuit 18 and 20 (2-pole) and circuit 22 and 24 (2-pole) also. Lighting schedule shows those two types of lights to be 277volt.
   A: Fixture types E and are 277 V, single phase. Single pole breakers (PP-18 and PP-20) will be used in panel PP. Lighting contactor shall be single pole.

6. **Q:** I would like to get more direction for the event panel box to ensure we can get the customer exactky what they need. Could I get a manufacture and model number? I would also like to know what size of opening for cords that will be plugged in and whether or not doors are to be lockable?
   A: The doors will be lockable. Since nothing is leaving the event panel, the only opening that would be needed is the incoming power conduit (2") for the panel itself. The event panel detail on sheet E500, there are diagrammatical configurations shown for design intent.

DOCUMENT F

SPECIFICATIONS FOR RESTROOM FACILITY

SECTION 130000
PREFABRICATED RESTROOM BUILDING

A. General, Specifications and Clarification of Prefabricated Building and Site Installation

1. This portion of the bid specifications does not follow the CSI standard format as the prefabricated structure in this bid is an ***offsite constructed "product"*** and not "typical" general construction.
2. The ***installation of the product on site is general construction***, which must be coordinated between the general contractor and the subcontractor. Specifications for the building foundation/pad shall be provided herein by the specified design/build subcontractor. Due to the responsibility of the specified building subcontractor for architecture, engineering and a five-year warranty, the site pad/foundation must meet the subcontractor's design so the pad and building can be considered from a single source for warranty purposes. The prefabricated restroom subcontractor must accept the pad and compactions tests before they take responsibility for the entire system under their warranty.

B. Architectural Design/Engineering and Insurance Responsibility

1. While the City has provided bid specifications and a design for the building, the building design/build subcontractor remains legally responsible for architecture, engineering, and all applicable building, safety, health, fire, and accessibility code compliance. Since they hold professional design responsibility to the owner, the building subcontractor must furnish certification that they provide product liability insurance in the amounts required by the general specifications ***to cover property damage and personal injury***. Final drawings shall be stamped by a licensed Missouri engineer and Public Service Commission, State of Missouri, suitable for local permitting.

C. Errors and Omissions Insurance

1. The building design/build subcontractor must also provide an additional Professional Architectural and Engineering Errors and Omissions insurance, in the minimum amount of $2,000,000, ***to cover claims against the owner or the general contractor for State and Federal ADA handicapped accessibility and other design/engineering code issues***. This Errors and Omission Policy must remain in effect for 5 years from the completion and owner acceptance of the project. Products liability insurance (since it does not cover professional design responsibility only) will be insufficient for this bid and will be cause for rejection of the bidder.

D. Insurance for the Building offsite, while in transit, and/or on site until turn over and final owner acceptance

1. The subcontractor may request invoicing for a percentage of building completion in-plant, monthly. Under UCC law, this means that the subcontractor is turning over responsibility for the portion invoiced to the owner yet the building will not be on the owner's property and may not be covered by the owners insurance. Therefore, the building subcontractor must provide a separate insurance policy insuring the owner and general contractor as additionally insured for liability, damage and/or vandalism to the building while in the manufacturing facility, while in transit, and/or while in storage at a certified bonded storage facility or at the final project site for up to $200,000 for each prefabricated building module, until the building is final accepted by owner.

E. General Contractor Coordination with Design/Build Subcontractor

1. The specified prefabricated public restroom building requires coordination between the General Contractor (who prepares the site pad and delivery access for the prefabricated storage building) and the prefabricated restroom building subcontractor (who completes the architectural design, engineering, off-site building construction, delivery and installation on site.) The specified prefabricated restroom building specifications include unique components/systems which are custom to the restroom building subcontractor. Since the prefabricated restroom subcontractor is responsible for design, additional insurance requirements for errors and omissions is required.

F. General Contractor, General Scope of Work

1. The general contractor for this project is responsible for the site survey and staking the building location, finished slab survey elevations and marking on site, construction and compaction of the required building pad; access to the site for a large crane and tractor trailers delivering the prefabricated building; providing water, sewer, and power at a point of connection (POC) within 6 feet of the building and at the depth required by the building subcontractor and local code; and the installation of any sidewalks outside the building footprint.

2. The general contractor is responsible for verification to the building subcontractor design/build firm that there are no unanticipated site delivery issues such as overhead wires, trees, tree roots, or existing grade changes and that prevent a clear path of travel between a roadway and the final site exists for a tractor trailer and crane to expedite delivery. The design/build subcontractor requires that the general contractor certify that the required delivery crane must be able to set the building module/modules within 35' distance from the center of the building to the center of the crane hoist.

G. Prefabricated Restroom Building, General Scope of Work:

1. The prefabricated restroom building subcontractor will provide to the general contractor final building design architectural drawings and engineering calculations under the responsibility of a licensed structural engineer, in compliance with all local, state and federal codes. The prefabricated restroom

subcontractor shall construct the building offsite as a permanently relocatable building, transport it to the final required destination, and install the building turn-key, (to 6' from the building footprint) on a general contractor prepared sub grade, per the drawings included in this bid.

H. Licensing:

The prefabricated restroom subcontractor must comply with all the Public Service Commission, State of Missouri requirements as follows:

1. The building *manufacturer* must be licensed by the Public Service Commission, State of Missouri, to verify experience.
2. Submit a copy of the all the current licenses for verification with bid.

I. Bid Standard for the Prefabricated Restroom Building

1. The City understands that there are several firms who design and build various types of public restroom buildings in varying quality and architectural styles, using similar or different construction methods and materials. For the purpose of this bid, the owner has selected:

   Public Restroom Company, 2587 Business Parkway, Minden, Nevada, 89423 and specifies herein that this firm is the standard for architectural design (safety, green design, code compliance, and site specific compatibility.) or approved equal. Public Restroom Company is the standard of building performance and quality for the 50-year building design-life with low maintenance based upon the longevity of the materials selected. Other firms quoting "or equal" whose criteria and standards do not comply will be rejected. Phone: 888-888-2060 extension 102, Fax: 888-888-1448, Website: www.publicrestroomcompany.com

2. Pre-cast concrete structures are not acceptable

J. "Or Equal Restroom Design/Build Subcontractors"

1. The City of Joplin may also allow other firms to become qualified to bid but any firms so authorized to bid must comply with the bid specifications and plans, or be subject to post bid rejection.
2. In order to provide full and open competition, other firms may request approval as "or equal." **The following items must be provided to the City in accordance with substitution requirements outlined in the project specifications.** Failure to supply these items will result in bid rejection.

   a) Or Equal applicant shall provide with their bid submission, scaled floor plans and elevations, to show general architectural design criteria is met.
   b) Or Equal applicant shall provide with their bid submission, a written list of each and every deviation from the published bid specifications/plans. Lack of specificity to each deviation from the bid specifications will be cause for rejection.
   c) Or Equal applicant shall provide their bid submission, manufacturer's

certification of test compliance from a national independent testing laboratory (within the past year) to support the claim for absorption resistance of the slab type that will be used in their proposed restroom. The written report must state the concrete compressive strength (minimum of 7,000 PSI) and absorption resistance (not greater than 3%) per ASTM standard #C39 and #C642, respectively.

d) Or Equal applicant must provide a list of every building they designed and built over the last 3 years utilizing the same building materials/systems design criteria as published in this bid. Provide date of building bid, date of completion, and most knowledgeable owner contact.
e) Or equal applicant shall provide certification of the special insurance required in this bid.
f) Or Equal applicant shall be responsible for and bear all cost for architecture, plan checks, design and structural engineering and all fees in obtaining approvals and permits from applicable agencies.

3. The City or their consultant will be solely responsible for the decision to accept or reject the "or equal" submission.

K. Certificate of Off-site Inspection and Construction Compliance, Provision for Maintenance Manuals, and Warranty

1. The off-site restroom construction requires that a licensed third party inspection firm provide the owner and the local building official with certification and compliance for the building with the approved plans and specifications. A certificate of compliance shall be issued by this inspector to the local building official to provide certification that the building meets and or exceeds the approve plans and applicable codes.

2. At the project conclusion, the building subcontractor shall furnish two sets of complete maintenance manuals including a troubleshooting guide, location of manufacturers of key components for replacement parts together with final as-built plans, and a **five (5) year warranty** to the owner or general contractor.

L. Site Scope of Work by General Contractor

The general contractor shall prepare the restroom building pad to receive the prefabricated building in accordance with the bid documents.

1. The General Contractor shall provide 10' offset stakes and locate the front corners of the building, any existing utilities and inverts within the area of construction.
2. The building pad shall be excavated to 14" deep from the final building concrete slab elevation in accordance with the bid documents.
3. The building pad shall meet a 90% compaction in lifts using class 2 base for the first four inches and coarse sand for the last two inches of the pad, leaving the finished sub grade pad elevation at finished floor, minus 8".
4. The General Contractor shall provide water point of service at 30" below finished

building slab; sewer at 24” below the finished building slab; and electrical at 36” below the finished building slab or other per bid plans.

5. General Contractor shall coordinate with restroom subcontractor to provide full site delivery access for a 70’ tractor-trailer and hydro crane to the final building site.
6. If the final site access is over existing sidewalks, utilities, or landscaping, the General Contractor shall be responsible for plating and or tree trimming, utility line removal, or other to protect any existing conditions.
7. The hydro crane must be able to locate no greater than 35’ from the center point of the building to the center point of the crane.
8. The utilities shall be furnished per bid site plans at specified points of connection (POC) nominally 6’ from the building line.
9. General contractor shall furnish and install final grading, landscaping and sidewalks.

M. Connection to Utilities

1. The restroom subcontractor will furnish Electrical, Water, and Sewer at the proper POINT OF CONNECTION AND AT THE PROPER ELEVATION BELOW GRADE, for this project. Restroom subcontractor shall provide final hook up of the water from building to POC; sewer hookup to POC; and electrical sleeve from building panel to POC only. Final utility connections shall be by General Contractor or others. General contractor shall flush the water lines thoroughly before making final water connection to the building.

N. Concrete Slab, Required Independent Testing Laboratory Certification:

1. The prefabricated building slab special concrete technology claims to be water and urine resistant for life due to special additive technology. The building subcontractor must furnish a test certification of compliance from a national independent testing laboratory to support the claim for absorption resistance. The written report must state the concrete compressive strength (minimum of 7,000 PSI) and absorption resistance (not greater than 3%) per ASTM standard #C642 and #C39 respectively. Since this non-absorbency capability is so significant, the design/build subcontractor must provide a general certification of compliance with the above standards.

O. Prefabricated Restroom Building:

1. The City has evaluated several prefabricated restroom building subcontractors. This bid requires such a building be used in lieu of site built traditional construction because of the unique built-in advantages guaranteed by the design/build firm. This technology includes many new innovations such as non-absorbent concrete; anti-microbial components to reduce health risks; built in vandal resistance design; lowered maintenance and long term warranties that reduce owner risk for failure. The specifications below are written around this new technology.

P. Mat Engineered Concrete Building Slab/Foundation:

1. The mat engineered 8” thick slab/foundation shall be engineered and constructed to withstand the transportation weight of the building without cracking and to resist absorption from any liquids deposited on the surface. The concrete slab shall be constructed inside a steel angle curb, reinforced with dual mats (tension and compression,) and poured with a custom concrete formula with special admixtures to create a finished slab that is water proof for life.
2. Perimeter Steel Curb: 5/16” 50,000 kip steel 6” X 6” welded continuous angle.
3. Rebar Steel Mat: Two layers of 40,000 tensile steel rebar in varying sizes per engineers requirements, including a perimeter structural continuous grade beam design inside the exterior steel angle and at any other location deemed by the engineer of record as required for the use intended. In coastal locations or when required for corrosion resistance rebar shall be epoxy coated or fiberglass to resist permanent corrosion. Rebar mats shall be wire tied to code with a minimum of three turns of the wire and overlaps shall be minimum of 15 diameters for any connection.
4. All slab openings shall be surrounded with two layers of steel collars as required by the engineer of record to stop corner cracking and to reinforce the openings for lifting.
5. 1” thick by 3” minimum length threaded nuts shall be welded to the steel perimeter frame with continuous ¼” fillet welds. Nuts shall be welded to common steel plates per the engineer of records design and attached to the interior steel rebar structural mats.
6. The engineer of record shall provide lifting locations with sufficient reinforcement to allow the safe lifting of the entire designed weight of the structure with dual 1” steel bolts and washers at each lifting location. The number of lifting locations with each location fitted with removable ¾” 8” X 8” 50,000 tensile strength steel angles shall be determined by the engineer of record.
7. The slab shall be poured over a 1” thick steel plate table. The concrete mix design shall not exceed a 3” slump and shall be stinger vibrated for maximum consolidation. All floors shall slope to any floor drains within each room and if no floor drain is present the floor should not slope. The surface shall be a very light broom that should meet a coefficient of friction on the surface of .06. Birdbaths shall be cause for rejection.
8. The steel perimeter angle will remain below the concrete surface by nominal two inches to prevent corrosion. After the site concrete sidewalks are poured, the joint shall be full flow sealed with self-leveling grey urethane caulk to prevent penetration of water into the joint.
9. The building shall be designed for future relocation and shall provide protection for the lifting openings in the mat slab so that the threaded openings will be available for future use if needed.
10. The building system shall be designed for placement on a general contractor site prepared class 2 building pad/and or footings as required by code, per the bid drawings, suitable for 1500 pounds soil bearing capacity minimum. Any soils survey (if necessary) shall be by owner or engineer of record.

Q. Permits and Fees

1. All required local building permits and fees shall be by General Contractor.

R. Exterior & Interior Masonry Block Walls

2. The exterior walls shall be 8” thickness per State of Missouri codes or engineered for 150 MPH wind and applicable seismic. The interior walls shall be 4” block to nominally 7’-4” above finished floor and framed with applicable required finishes above for pony and gable walls. A structural steel tubular .188 wall cap beam shall be welded to 5/16” 40,000 kip steel plate embeds, at intervals per the engineer of record, within the masonry wall.
3. The 8” mat engineered concrete slab shall be cured a minimum of 7 days. Holes for vertical dowels shall be drilled into the mat engineered slab avoiding any grade beams or other structural reinforcement. Once the holes are drilled, blow out the remaining material and using two part structural epoxy, wet set the #3 or #4 vertical rebar (as specified on the engineering calculations into holes drilled to the depth per the engineer of record requirements. Each rebar shall be held vertical to allow equal epoxy support to each dowel during the drying period. Engineering calculations require that rebar shall be installed in each concrete block center void or every block hole. The engineered uplift on each rebar shall be sufficient to restrain any load imposed on the masonry block wall for vertical rebar pull out from the concrete mat engineered slab.
4. The block walls shall be nominal 8” x 16” CMU. The building corners shall have special corner return block that matches the exterior finish and creates a uniform appearance. All 8” CMU shall be custom fabricated with an enlarged interior hole for placement of the grout and vertical rebar.

S. Roof System

1. The roof shall be exposed fiber reinforced cement ceiling panels over Structural Insulated Panels (SIPs) consisting of OSB laminated with structural adhesives to an insect resistant EPS insulation core.
2. The exterior finish shall be 26 gauge standing seam metal panels over a 30 pound building paper, over the structural insulated panels. Building roof rake and fascia shall be wrapped with 14 gauge formed metal to match roof. Roof color shall be determined by owner and selected from the color chart by restroom supplier.
3. Roof shall be designed per plans to reduce vandals climbing on roof and to obtain proper ventilation size openings for the gables to provide fan-free ventilation.

4. E**xterior Wall Finish, Masonry and Gable**

1. The building exterior finish shall be split-face 8” x 16” CMU to wall height per the exterior elevations in the bid plans. The block shall be coated with 2-4 mil layers of special 7-day curing block fillers and painted with two additional layers of industrial high solids, gloss enamel to a 4 mil thickness. Color to be selected by Owner. The gable ends above the cap beam shall be surfaced with ¾” plywood

and covered with a vapor barrier, then surfaced with stucco pattern, fiber-cement siding, painted with industrial enamel, color to be selected by Owner.

2. **Interior Wall Finish:**
   1. Interior precision CMU block masonry walls shall be smoothed to a pebble grain finish with 2-4 mil layers of industrial grade block filler and painted with two additional 4 mil layers of industrial high solids (white) industrial grade enamel. Shower rooms shall have a 2-part industrial grade epoxy wall coating, color to be white. Pony and gable walls, shall be wood-framed, sheared, and surfaced with fiber cement board, wood grain-pattern and painted white with industrial high solids enamel. Interior of utility chase shall be the natural block finish (grey).

3. **Natural Ventilation System**
   1. Shall be woven ¼" X 1.5" X 1.5", 304T,stainless steel woven crimp-stop wire mesh set into stainless steel welded frames and fastened to the steel frame with vandal-resistant screws. Pre-shipment building protection includes plywood shipping panels fastened to the stainless steel ventilation screens.

4. **Doors and Gates**
   1. All entry doors shall be 7'-0" high, custom fabricated, 14 gauge steel, reinforced with concealed 14 gauge steel ribs welded at 6" intervals on each face, reinforced with a welded plate for door closer mounting. Doors shall be hung on a single continuous, 1 million cycle, aluminum gear hinge with stainless steel vandal resistant screws at nominal 4" on center. The doors shall weigh nominally 176 lbs each for a 36" X 84" door. Custom fabricated 14 gauge steel door jambs with 4" steel heads shall be welded to the steel cap beam and be solid filled with 3000 psi masonry grout mix. Stainless steel vandal resistant fasteners shall be used on all hardware. Doors shall be primed and painted with 2 coats of semi-gloss, industrial enamel, color to be selected by Owner.
   2. All entry doors shall have a 1/8" thick plate stainless steel "Z-shaped" anti-microbial pull handles with integral latch guard and Schlage B-600 series commercial series dead bolts.
   3. The door closer (restroom entry doors only) shall be "LCN" heavy duty #4210 Series, fastened to a structural reinforced door plate per door manufacturer design. Stainless steel vandal resistant fasteners shall be used on all hardware.

5. **Specialties**
   1. All specialty washroom equipment shall be commercial grade stainless steel fastened securely to walls with vandal resistant stainless steel screws to avoid removal by vandals as follows:
   2. Toilet paper holder shall be a Royce Rolls TP-2, covered, two-roll, 18 gauge stainless steel with lock. Toilet paper holders shall be attached to block walls with 4 epoxy bedded vandal resistant stainless steel fasteners.
   3. Stainless steel grab bars to code shall be 1 ¼" minimum exposed fastener vandal resistant design and installed at each accessible water closet.

4. Cast Aluminum T-24 compliant door signs shall be recessed into block surface flush with masonry exterior. Signs shall have raised pointed Braille tips and shall be blind secured with epoxy adhesive and stainless steel fasteners.
5. Hand dryers shall be Dyson Airblade V, nickel finish, mounted adjacent to lavatories.

6. **Plumbing**:
   1. Building shall be fully compliant with all current codes:
      a) All applicable State of Missouri Building Codes. Latest edition applicable.
   2. GENERAL: All components and fabrications shall be designed to reduce life cycle maintenance, be compatible with current maintenance spare parts, and shall be listed in a spare parts/maintenance manual (two copies) delivered in utility chase of building.
   3. WATER PIPING: shall be type L copper soldered per code above grade and type K with silver solder below grade. All water piping shall be designed and constructed with high and low point drain fittings. All piping shall be mounted on Uni-strut wall brackets with neoprene isolators, to code.
   4. WATER PRESSURE GAUGE/VALVE COMBO: shall be three commercial grade industrial water pressure gauges, isolation ball valves, 150 PSI pressure regulator with wye strainer, 10 micron water filter with clear canister and check valve.
   5. PLUMBING FAUCETS, ISOLATION VALVES AND ACTUATORS: All fixtures except those with flush valves shall be isolated with ball valves for each fixture, concealed antimicrobial impregnated flush handle valves, and metered push-button lavatory faucets.
   6. DWV PIPING: DWV piping shall be concealed behind the wall. DWV piping shall be PVC DWV, solvent welded, for all concealed piping. A cast iron no hub DWV vent pipe with a cast iron roof mounted vandal cap vent shall be required, through the roof.
   7. REMOVABLE PIPE TRAPS: all floor drain, sink drain, and waste traps shall be removable for maintenance. Floor drains shall be trapped behind the wall in the utility chase using a combination waste and vent system. Floor drains shall be increased two pipe sizes over standard to allow code use. Trap primers for restroom floor drains shall not be used as maintenance is hose-down. All surface mounted utility chase piping shall be mounted on Uni-strut with plastic isolators, to code. Sink drain traps shall be concealed behind the utility chase walls where maintenance staff can access all plumbing.
   8. PLUMBING FIXTURES: Plumbing fixtures shall be 14 gauge stainless steel manufactured by Acorn. Toilets shall be wall hung, rear discharge, with concealed anti-microbial, lever-type, flush valves. Toilet seats shall be black solid core plastic, non-flammable construction with continuous stainless steel concealed self-checking hinges. Lavatories shall have concealed remote traps behind the mechanical wall. Schedule of fixtures:
      a. Water Closets: Acorn Penal-Ware, 1675-W-1-HET-FVBO-9-ADA-PFS
      b. Water Closet Flush Valve: Zurn Z6143AV-WS1-BG-7L

c. Urinal: Acorn Penal Ware: Acorn 1709HEU-1-0.5 GPF-FVBO
d. Urinal Flush Valve: Zurn Z6195AV-WS1-BG-7L
e. Lavatories: Acorn Penal-ware 1652LRB-1-DMS-03-M-H1

9. FLOOR GRATES: Removable 350 lbs per square foot, pultruded fiberglass, non-skid floor grates shall be installed over every opening in the utility chase for OSHA compliance.
10. HOSE BIB: There shall be one Woodford 24B hose bib provided in the utility chase.
11. HOSE REEL: One commercial grade hose reel with capacity for 65' X 3/4" commercial heavy duty hose and nozzle shall be hung in mechanical room for cleaning of restrooms. One 3/4" X 65' commercial hose shall be furnished.

7. **Electrical:**
   1. GENERAL: Electrical system and components shall be commercial grade or better and piping conduits shall be installed on commercial Uni-strut wall hangers. Interior electrical lighting fixtures in public areas shall provide lifetime manufacturer's warranty.
   2. PANEL/WIRING: One 100 amp panel, Square "D" QO series, shall be mounted in the utility chase in the restroom building. All breakers shall be snap-in type, minimum 10,000 A.I.C. RMS (Sym) at 120/240 vac. Wiring shall be stranded copper wire #12 min in EMT piping with screw fittings.
   3. PIPING: All piping in the utility chase shall be surface mounted to the masonry block walls with minimum of 2" fastener penetration. EMT conduit shall be compression type. Main panel shall maintain a 30" X 36" safety code required clear space, floor to 6' above finished floor.
   4. EXTERIOR LIGHTING: Luminaire YWP1212, 28 watt LED, vandal resistant, high-impact polycarbonate lens fixtures shall be installed per plans. (one in front and rear of each building).
   5. INTERIOR LIGHTING: Luminaire SWP610, 15 watt LED vandal resistant high-impact polycarbonate lens fixtures shall be installed in the restrooms per plans (2 in each restroom). The utility chase shall have one (1), 4' single-tube LED fixture, suitable for wet locations, with a single switch at door entry.
   6. LIGHTING CONTROL: All interior restroom lighting shall be controlled by a time clock mounted in the utility chase and 2 bypass switches (one for interior lighting and one for exterior lighting), so maintenance staff can check operation during daylight hours. A single photo cell, roof mounted, and shall control all exterior lighting.
   7. ELECTRICAL OUTLETS: One (1) commercial spec grade duplex outlet shall be provided in the utility chase adjacent to the panel.
   8. HAND DRYER: Shall be Dyson Airblade V, nickel finish, mounted adjacent to lavatories.
   9. WATER HEATER (Restroom Lavatories): Shall be a Stiebel DHC-E-12 tankless located in the utility chase.

8. **Shipping Protection**
   The building, while traveling over roads to the destination may encounter inclement weather or road grime that could require substantial cleaning when it arrives on site. The building shall be shrink-wrapped before transportation and sufficiently strong to arrive at the owner site intact for exterior finish protection. Materials removed on site shall be disposed of and recycled by restroom building install staff.

9. Certifications
   Building shall be certified in compliance with the plan approval by the Public Service Commission, State of Missouri and shall be delivered with an applied insignia in compliance with all State regulations. The local building authority shall provide site inspections for the underground mechanical piping and final connections, footings (if required), and access issues outside the restroom footprint. Restroom building subcontractor shall also furnish 5-year warranty, certifications for the concrete slab specification compliance, and maintenance manuals for the building and components.

END OF SECTION