INVITATION TO BID

TO PROVIDE MATERIALS AND EQUIPMENT TO CONSTRUCT A STRUCTURAL STEEL OBSERVATION TOWER AT ELLERSLIE PARK

ADDENDUM #2

Question #1: Verify the quantity of concrete.
Answer #1: **Use 85 cubic yards.**

Question #2: What is the cut-off date for questions?
Answer #2: **May 30, 2023 at 5:00 p.m.**

Question #3: Does the contractor obtain permits?
Answer #3: **Yes, the contractor is to apply for and obtain all necessary permits for this project and all county permit fees will be waived.**

Question #4: What is the project start date and duration?
Answer #4: **The start date is anticipated to be during September after a Notice to Proceed is given and have a duration as specified by the selected contractor.**

Question #5: Is this a lump sum bid?
Answer #5: **Yes, the bid form is a lump sum bid based on estimated quantities. However, some quantities will be over and some under. The contractor will be paid based on actual quantities used at the stated unit price.**

Question #6: What are the work hours for this project?
Answer #6: **Work can take place during normal work hours (8 a.m. to 5 p.m. Monday through Friday) or can take place on weekends if necessary. Ellerslie Park is open daily from dawn to dusk and will remain open during construction.**

Question #7: Is the construction site accessible?
Answer #7: **Yes, the construction site is adjacent to an internal gravel park road and is easily accessible.**

Question #8: Is there overhead wires nearby?
Answer #8: **No, overhead wires have been relocated closer to SR 85.**

Question #9: Is there temporary power nearby?
Answer #9: **There are two permanent power options that Georgia Power has already installed (200 amps each). One option is about 300 feet north of the construction site and the other one is about 250 feet west of the construction site near the exit gate**.

Question #10: Is temporary fencing required around the construction site?
Answer #10: **Yes, temporary six foot tall chain link fencing is required for safety concerns.**

Question #11: Will the Sheriff's Office patrol the park for security concerns.
Answer #11: **Yes, the Sheriff's Office patrols the park periodically and the entrance and exit gates are closed from dusk to dawn.**

Question #12: On sheets 7 and 10, are the purlins 6 x 4 or 8 x 4?
Answer #12: **The rings are HSS 6" by 4" x 3/8" and the horizontal supports are HSS 8" x 4" x 3/8".**

Question #13: On sheet 6, is the 20 gauge roof material overkill or can different gauge of materials be used?
Answer #13: **The roof material is revised to 22 gauge.**

Question #14: How thick is the main base plate?
Answer #14: **The main base plate is 1 inch thick as shown on Detail-11 and Detail-12 as shown on Sheet 10 of 10.**

Question #15: Confirm the stair treads depth and materials.
Answer #15: **See revised spiral stair drawings for clarity**.

Question #16: Confirm the degrees on the landing on the top level.
Answer #16: **See revised spiral stair drawings for clarity.**

Question #17: Is the mesh enclosure part of the spiral stair build or will this be installed by others? Is so, what are the exact mesh specifications?
Answer #17: **The mesh will be installed by the selected general contractor. See revised spiral stair drawings for clarity.**

Question #18: Even though the stairs are galvanized, is aluminum an option?
Answer #18: **The material for the spiral stairs is revised to be aluminum instead of galvanized steel.**

Question #19: Confirm the walking clearance at the upper level with the seating area in place.
Answer #19: **The revised drawings will show the walking clearance at the upper level with the seating area.**

Question #20: Are rest landings required?
Answer #20: **Yes, the revised drawings will clarify.**

Question #21: The Specs call out a "Bilco JD Vault Door." Is a vault door required and if so, where does it go?
Answer #21: **There are no "Bilco JD Vault Doors." The only doors are the fence gates as shown on the drawings.**

Question #22: Could more detail be given on the Galvanized Steel Bench?
Answer #22: **Yes, the revised drawings will clarify**.

Question #23: The Specs show Epoxy Floor Sealer and TNEMEC series 61 Concrete coating. Please provide locations for these products if required?
Answer #23: **The epoxy sealer is applicable at the concrete base pad.**

Question #24: Is the Engineer of Record, Sastry and Associates, open to be contracted back by the GC to produce the piece parts Drawings (Shop Drawings) and BOM for fabrication?

Answer #24: **Yes, after a general contractor has been selected, they can contract with the engineer for them to provide shop drawings, etc.**

Question #25: Is the Engineer requiring fracture critical fabrication?

Answer #25: **No.**

Question #26: Does the engineer have an approx. weight of the structure?

Answer #26: **Approximately 97,000 pounds.**

Question #27: Drawing E1.00, Electrical Key Notes note 2 states to install 3#10 AWG cables from the existing panel to the tower to feed the new lighting circuit. Based on the site visit and the park manager, the existing panel location is about 390' from the tower. Should we install #4 AWG to reduce the voltage drop down to less than 5%.

Answer #27: **THE ELECTRICAL CONTRACTOR SHALL PROVIDE #12 AWG FOR ALL BRANCH CIRCUITS THAT FEED LOAD ON THE TOWER.**

Question #28: Considering the distance between the existing panel and the tower, should we install a 100amp panel on the new tower and feed it from the existing panel so future electrical capability is closer?

Answer #28: **THE ELECTRICAL CONTRACTOR SHALL PROVIDE (1) NEW PANEL WITH A 60A MCB. THE FEEDER SIZE FOR THE NEW PANEL IS LISTED BELOW WITH VOLTAGE DROP USED TO DETERMINE CONDUCTOR SIZES. THE SERVICE AIC IS ESTIMATED AT 69K.**

SCHEDULE OF FEEDERS & SERVICES

FEEDER / SERVICE DESCRIPTION				NUMBER OF RUNS	CONDUCTOR SIZE			CONDUIT DIAMETER (IN)	VOLTAGE DROP %	CALC. FAULT VALUE
DESIGNATION	EQUIPMENT SERVED	CONDUCTOR AMPACITY (AMPS)	COPPER OR ALUMINUM		PHASE CONDUCTOR	NEUTRAL CONDUCTOR	EQUIPMENT GROUND			
S 0 00	NEW	100	AL	1 set	3 # 1	1 # 1	1 # 8	1 1/2	4.90%	1,411

Question #29: There are no convenience outlets shown on the drawings. Should we add a GFCI receptacle at the base of the tower?

Answer #29: **THE ELECTRICAL DRAWING(S) WILL BE UPDATED TO INCLUDE (2) PEDESTAL MOUNTED, GFCI, WEATHERPROOF RECEPTACLES.**

Question #30: Drawing E1.00, Electrical Key Notes note 4 states to provide a keylock box to contain all lighting control system switches. Is this keylock box to contain all the light switches, time clock and lighting contactor so everything is under lock and key?

Answer #30: **PLEASE COORDINATE WITH OWNER FOR THE FINAL DECISION. THE ELECTRICAL ENGINEER OF RECORD RECOMMENDS PLACING THE CONTACTOR AND CONTROL DEVICES IN KEY LOCK BOX TO MINIMIZE EXPOSURE AND VANDALISIM.**

Question #31: Drawing E1.00, Detail 2 shows (3) light switches to control each level of lights. Please verify the “B” fixtures and ground level “A” fixtures are not on a switch.

Answer #31: **FIXTURES "A" AND "B" SHALL BE ON SEPARATE CONTROL SWITCHES.**

Question #32: Drawing E1.00, Detail 2 shows a photocell, timeclock and mechanically held contactor. Please clarify the order of operations. Does the photocell to turn ON the lighting contactor and the timeclock to turn OFF the lighting contactor?

Answer #32: **THE DESIGN INTENT IS TO HAVE THE TIMECLOCK CONTROL THE ENTIRE SYSTEM. THE PHOTOCELL WILL BE A SLAVE TO THE TIMECLOCK AND SHALL ON CONTROL THE LIGHTS WHEN THE TIME CLOCK CLOSES IT'S RELAY AND ALLOW POWER TO FLOW TOWARDS THE PHOTOCELL. SO, THE TIMECLOCK SHOULD BE ON THE HEAD END, AND THE PHOTOCELL SHOULD BE ON THE TAIL END.**

Question #33: Drawing E1.00, Detail 2 shows (3) light switches to control each level. Please clarify the order of operations. Are the light switches to turn OFF the lights after the photocell has energized the lighting contactor and before the timeclock has deenergized the lighting contactor?

Answer #33: **THE LIGHT SWITCHES SHALL ACT AS THE POWER OVERIDE CONTROL DEVICES. WHENEVER THE LIGHT SWITCHES ARE TURNED OFF, THE LIGHTING SYSTEM WHICH THAT SWITCH CONTROLS SHALL BE DISARMED.**

Question #34: Drawing E1.00, Detail 1 shows the photocell on top of the tower. For maintenance reasons, can we relocate the photocell to the keylock box on the ground level to eliminate the need of an aerial boom lift when the photocell needs to be replaced?

Answer #34: **YES. RELOCATE THE PHOTOCELL IN THE MOST CONVENIENT AREA. COORDINATE LOCATION WITH OWNER PRIOR TO ROUGH-IN.**

Question #35: Drawing sheet 2 of 10, Elevation detail shows a lightning arrestor on top of the tower. Do we need to include lightning protection with aerial terminals, downlead conductors and ground rods?

Answer #35: **Yes.**

Question #36: The tower is 72’ tall. Do we need to install an airway obstruction beacon light on the top?

Answer #36: **YES. THE BEACON LIGHT SHALL COME EQUIPPED WITH EMERGENCY BATTERY THAT HAS 90 MIN LIFE. THE LIGHT SHALL BE CONTROLLED BY TIME CLOCK ONLY. THE TIME CLOCK SHALL BE PROGRAMED TO TURN LIGHT ON FROM DAWN TO DUSK.**

Question #37: Safety fence described as galvanized steel safety mesh. This means we must utilize some McNichols products including U-Edging Channels. Could this be just chain link fence?

Answer #37: **No chain link fence for this item. Use a galvanized steel safety mesh as shown.**

END OF ADDENDUM #2

HARRIS COUNTY BOARD OF COMMISSIONERS

INVITATION TO BID

TO PROVIDE MATERIALS AND EQUIPMENT TO CONSTRUCT A STRUCTURAL STEEL OBSERVATION TOWER AT ELLERSLIE PARK

BID FORM

Updated on June 12, 2023

Item #	Spec. No.	Description	Units	Quantity	Unit Price	Total Price
1	005-0002	Installation of Lighting Facilities	LS	LS	$	$
2	210-0100	Grading Complete	LS	Lump	$	$
3	500-3101	Class A Concrete	CY	85	$	$
4	501-3000	Structural Steel	LB	85,000	$	$
5	511-1000	Bar Reinforce Steel	LB	8,250	$	$
6	515-2105	42 inch Metal Safety Rail	LF	130	$	$
7	515-2135	54 inch Metal Safety Rail	LF	140	$	$
8	643-1462	Chain Link Fence, PVC, 10Ft, 9GA	LF	116	$	$
9	643-4000	Woven Wire Fence	LF	140	$	$
10	643-8030	Gate, Chain Link PVC Coat	EA	4	$	$
11	850-9999	Aluminum Spiral Stairs	LB	5,050	$	$
12	205-0210	Rock Excavation (if needed) (quantity approved by engineer)	CY		$	
Total Bid						$

Bid Amount (written as a figure and words)

$_____

_____dollars and_____cents

Time in days to complete: _____days.

Company Name: _____

Company Mailing Address: _____

City/State/Zip: _____

Contact Name/Title: _____

Authorized Signature: _____

Office Telephone Number: _____

Cellphone Number: _____

E-mail Address: _____

Date: _____

Acknowledgement of Addendum: _____

(This form must be completed and returned with a 5% bid bond along with documents specified in the ITB. Do not use substitute form)

INVITATION TO BID

TO PROVIDE MATERIALS AND EQUIPMENT TO CONSTRUCT A STRUCTURAL STEEL OBSERVATION TOWER AT ELLERSLIE PARK

Plan Holders

Name	Company	Email Address
Steven McManus	Pro Weld Fabrications	Smcmanus408@gmail.com
Jonathan Cash	Lewallen Construction	jonathan@lewallenconstruction.com
Paul Cook	Carlisle Company	Paulc@cc.thecarlisleco.com
Patrick Spinks	River City Contracting	pspinks@rivercitycontracting.com
Leon Moody	Principle Contracting	lmoody@principleco.com
Jose Villegas	Sol Construction	jvillegas@Solconstructionllc.com
Samir Patel	F.S. Scarbrough	spatel@fsscarbrough.com
Daniel Buehler	Astra Group	dbuehler@astragroupinc.com
Chelsea Whalen	Quatrefoil Communications	Office@quatrefoilcommunications.com
Mary Miller		bids@pwxpress.com
Matt Anzelc	Anzelc Welding & Fabrication	matt@anzelcwelding.com
Ray Cline	Cline Service Corp	clineserv@aol.com
Robert Dishman	Fi-Con Construction & Fabrication	Robert Dishman robert@ficonusa.com
Tammy Childs	Batson-Cook	Tammy Childs tchilds@batson-cook.com
	MVA Power	mhadid@mvapower.com; Charly-Marc Hadid chadid@mvapower.com
Caroline Bellino	Westbrook Towers	Carolina Bellino carolina@westbrooktowers.com

Updated on June 12, 2023