



**Proposal for Discussion with the Implementing Committee Regarding the
Upgrade and Use of Freeman Aquatic Building
For EAHCP Implementation of Applied Research**

Texas State University (TxState) submits the following proposal for the use of the Freeman Aquatic Building and looks forward to discussing the particulars of the proposal at the April 18, 2013 Implementing Committee meeting.

We have attached a detailed cost budget for necessary renovations to the Freeman Aquatic Building (FAB) that are estimated to be \$327,588.37. The estimate includes turnkey renovations of the small concrete troughs, larger raceways, two ponds, and a wet lab (see illustrative examples attached) with enhancements to accommodate HCP applied research. Rates for O&M costs (e.g., utilities) will be included in the contract with EAA and paid annually by EAA.

If the Implementing Committee accepts this submission, TxState will enter into a five-year agreement with the Edwards Aquifer Authority (EAA) for use of the facility and will include a renewal option for an additional five years. HCP applied research will be given priority for using the renovated facility at FAB.

Annually, the Implementing Committee will issue a work plan for the applied research for the upcoming year. TxState will be invited to bid, along with other interested parties, on RFP's issued by EAA for the research work identified in the work plan. Successful bidders will be required to have a TxState Biology Faculty member as a Co-PI on the research team with a role commensurate with the faculty member's qualifications and experience.

An operating agreement specifying the terms of the facility use (e.g., scheduling access) will be included in the contract between EAA and TxState and passed through in the contract with the person receiving the applied research award.

HCP-based applied research conducted by TxState will not be charged F&A (overhead) nor will F&A costs be charged for FAB faculty, students, or O&M by a contractor for HCP-based applied research.

Texas State University

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Facilities

*Office of Facilities Planning, Design & Construction
Special Projects Group*

April 10, 2013

Follow up on the HCP for the Freeman Aquatic Building Project Cost Report**HCP for Freeman Aquatic Building:**

This Budget Cost Estimate is based on utilizing and renovating the two big outdoor ponds (concrete lined), two large outdoor raceways, 10 outdoor troughs and indoor wet lab to support HCP applied research needs.

Troughs: The caged space adjacent to the ponds / raceways will be cleaned up and new valves with flow meters will be added to each trough. The lighting in this space will be replaced with new workshop lighting. A new electrical panel will be installed in place of the existing panel and new wall outlets will be installed along the back wall to support the troughs and flow meters. Additionally, 10 living streams (each 7' in length; completely outfitted with supporting equipment/aquariums) will be added to this area.

Wet Lab: The estimate also allows for renovations of part of the wet lab (room #110 in the Freeman Aquatic Building). The wet lab will include the addition of 8 living streams (2 each 10' in length and 6 each 7' in length; all completely outfitted with supporting equipment/aquariums) including: PVC piping, hose bibs, drain lines, power, outlets in weather proof boxes and GFCI quad outlets overhead. Also included will be the cleaning up the existing floor drains to insure flow from the living streams.

Ponds: As a part of this effort electrical service will be provided to the pond area to include: power cables over the ponds supported by a support structure to string aircraft cable across the ponds in six runs; weather proof duplex GFCI outlets at 6 foot intervals for a total of 60 drops; adding a new 200 amp electrical service in weather rated panel mounted to the concrete retaining wall facing the ponds; and running conductors to the new 200 amp service panel. Upgrades to the ponds also includes replacing seven smaller pumps in the ponds; correcting drainage leading away from the ponds to insure the ponds will not flood during high rains; and removing existing chain link fencing from around the pond areas noted on site.

Well and Pumps: The scope and cost estimate also includes: replacing two sump pumps at the well head and replacing the pump screens.

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****** Exterior Ponds / Raceways Work:**

Site Clearing for drainage	\$5,000
Road Base ¾ inch for drainage trough	\$5,800
Slab for drainage trough	\$5,000
Demo of existing fencing	\$2,500
Misc. Concrete sidewalks & curbs around ponds	\$3,500
Pumps install in ponds 1 hp. each circulating pumps in ponds	\$8,500
Stainless Steel Well Screen 10 inch diam.	\$500
Pumps installed in well up to 100 feet 5 hp.	\$8,500
Electrical 200 amp service	\$4,000
GFCI Outlets 60 each 110	\$4,000
Weather Proof duplex receptacle cover 2 gang 60 each	\$1,800
Support cabling for the electrical cable across ponds 1000 LF 1/2inch	\$9,000
Cable to run across ponds for outlets 600 LF MC Cable #10 4 wires	\$1,000
Water Line feed to the ponds and the building from the well	\$5,000
Mech. equipment for supports, tie offs, etc.	\$5,000
Valve boxes at ponds (2 each, 3 foot x 3 foot x 2 foot deep)	\$2,500

Misc. Wet Lab Renovations & Equipment for room #110:

Install six large (10 ft long) Living Streams in the space where the fathead minnow colony used to be. Provide temperature control and the option to recirculate / flow through / or a combination of both.	\$80,000
Install 48each 10-gallon aquaria in these tanks.	\$5,000
Provide power to each of the tanks with weather proof GFCI outlets on cords to pull down from the overhead power line within the room.	\$2,500
Clear existing floor drains of calcium buildup	
Install 6 each fiberglass tanks (10 foot long x 2 foot wide x 1 foot deep) with stands	
Filters for Acid Removal	
Filters for Sediment Removal	
Water pumps 10 each, for water circulation in the tanks	
Install 6 each large aquarium pumps	
PVC conduit, schedule 40, ½ inch diam.	
Plumbing (add 1 ¾ to 2 inch spring water line above tanks with six large hose bibs)	
Electrical (add THHN 600 volt #12 stranded copper wire)	
Duplex receptacles, ground fault interrupting 20 amps, six circuits, installed above tanks	\$18,360
Signage	\$1,000

Outside Caged Area Adjacent to the ponds / raceways:

Install ten each new valves in existing concrete raceways and include new flow meters at each new valve.	\$26,000
Completely drain and clean each existing concrete raceway and insure they	

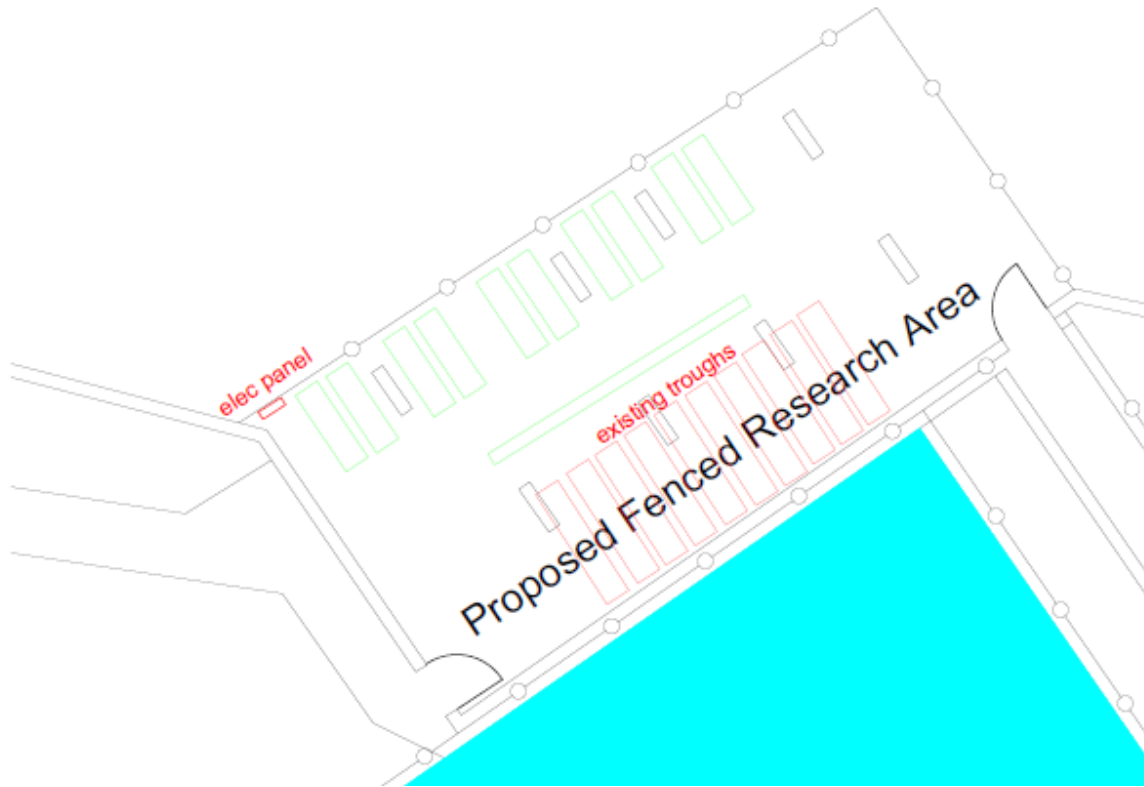
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are working properly.		\$6,000
Install 8 each new workshop light fixtures, spaced equally around the caged area.		\$5,000
Install 1 each new 400 amp electrical panel for the caged area.		\$5,000
Install 10 each new GFCI duplex wall outlets on the trough side of the caged area to help support the trough work. Each new wall outlet to be weather proof with covers.		\$3,000
	Sub Total	\$223,460
	Bonding at 3%	\$6,703.80
Archeological Assessments Expenses – IDT’s		\$6,000
	SubTotal:	\$236,163.80
Administrative Expenses: @ 15%		\$35,424.57
Project cont. amount		\$16,000
Design fee		\$40,000
Grand Total for Project:		<u>\$327,588.37</u>

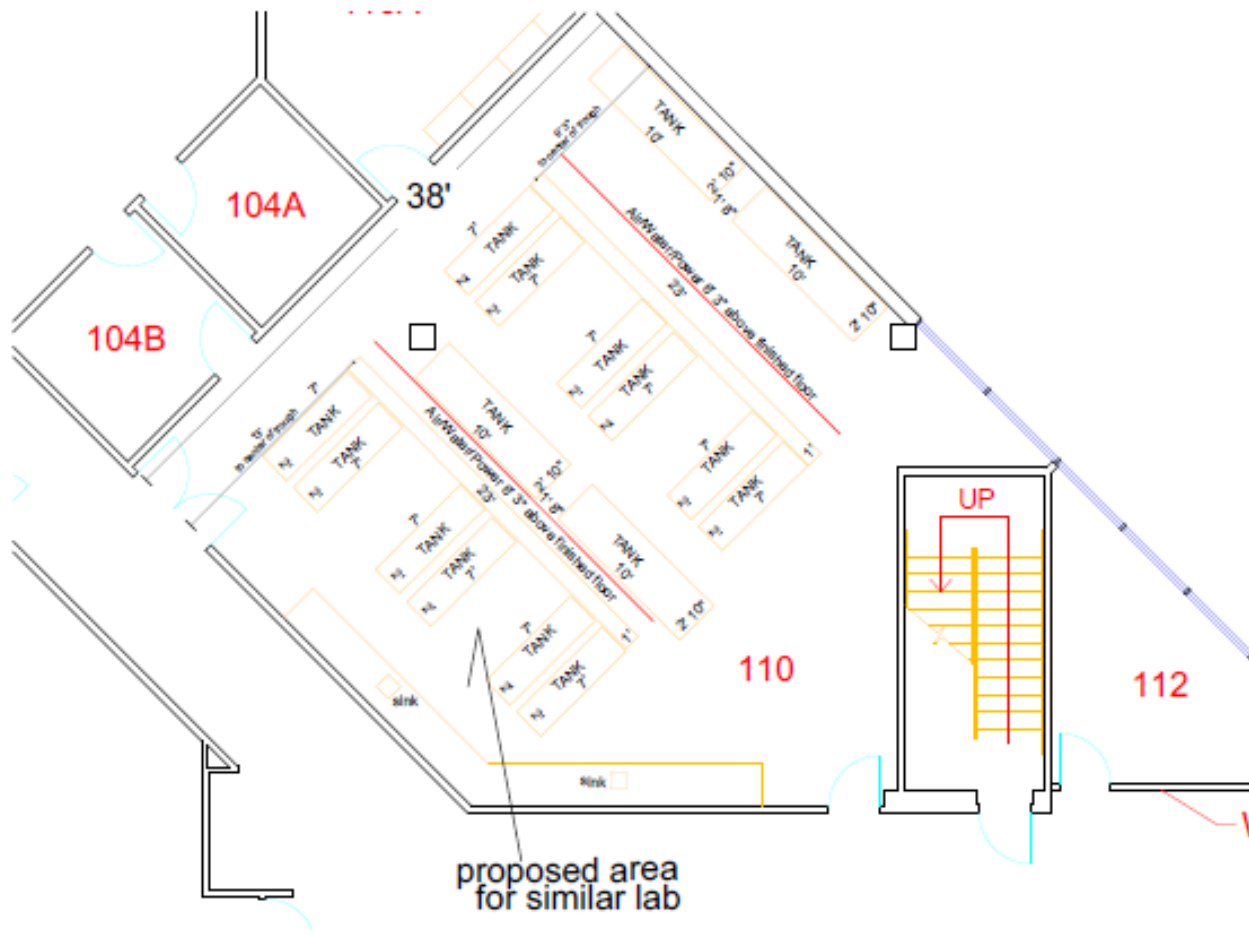
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