Project: SLUSD HS Irrigation Well
Project No.:
Program ID No.:

AGREEMENT FOR

PROFESSIONAL SERVICES

FOR

SAN LEANDRO UNIFIED SCHOOL DISTRICT

This "AGREEMENT" made and entered into this 20th day of June, 2012 by and between San Leandro Unified School District, a political subdivision of the State of California, herein called "District" acting through its Board of Education, herein called "Board" and

Schaaf & Wheeler
1171 Homestead Road
Suite 255
Santa Clara, CA 95050-5485

Principal in Charge	*Mr. Peder Jorgensen, P.E.*
Telephone No.	*408-2464848*
Fax No.	*408-246-5624*
E-mail address	*pjorgensen@swsv.com*
Taxpayer Id No.	*77-0061375*

herein called "Consultant",

WHEREAS, District proposes to undertake **new construction project, specifically the new San Leandro High School Landscape Irrigation Well,** and

WHEREAS, Consultant represents that it possesses the requisite skill, experience, and resources to provide the services required by District, and

NOW, THEREFORE, District retains Consultant to perform, and Consultant agrees and undertakes to provide to District, under the terms and conditions of this Agreement, **Well Engineering and Design Services.**

ARTICLE 1: SERVICES CONSULTANT AGREES TO PERFORM

Consultant agrees to perform the services described in Exhibit A, Project Description and Schedule, which is hereby incorporated by reference (hereinafter Project).

Exhibit A – Project Services

Engineering services to be provided in this scope include:

- Well design and specifications,
- Well pump selection,
- Well head and discharge piping design and construction drawings,
- Coordination with landscape architect and project construction manager,
- Documents for the proper destruction of the existing well, and
- Electrical design and construction drawings associated with the well equipment.

It is assumed that the well pump would need to operate similar to the Burrell Sports field in which the well would provide both water for irrigation and for artifical turf cooling. These two operations are exclusive with the turf cooling manually controlled and the irrigation automatically controlled. Preliminary irrigation demand is estimated to be 208 gpm at 120 psi. Turf cooling needs pressures of 130 psi, this value will be confirmed with the landscape designer during the design process. Electrical service to the well would be a feed from the electrical service to the school or site and would not be a separate service from PG&E. The site electrical designer would be responsible for the power feed design to the well site.

Detailed Scope

Task 1 – Well Drilling

- Review previous well logs and geological information
- Establish likely well construction profile
- Prepare well drilling and construction specifications

Task 2 –Equipment Selection & Coordination

- Coordinate with the landscape designer to verify design flows, pressures, control signals and points of connection.
- Coordinate with the Hydrogeologist to establish well operating parameters and confirm capacity established by landscape designer can be met.
- Based on well and irrigation criteria, calculate pump conditions and select well pump and pump bowl setting.
- Coordinate with site designer and landscape architect

Task 3 – Construction Documents

- Prepare well site drawing and details
- Prepare pump, piping and surge tank details
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- Prepare drawing notes for equipment and materials
- Revise drawings based on comments from owner and other design team members

Task 4 – Construction Support

- Site visits during well drilling and development
- Review test hole well log data and recommend final well construction details
- Observe test pumping and make recommendations of well yield and performance
- Response to contractor questions
- Review contractor submittals of proposed materials and equipment
- Review construction progress at specific milestones as requested by the owner or client

Work to be preformed by others and not included in Schaaf & Wheeler's scope of services are as follows;

- Establishing irrigation parameters
- Well permits
- Survey control
- Base maps
- Electrical service feed to well
- Landscape screening or fencing of well site
- Construction inspection

Exhibit B – Calculation of Charges (See attached Schaaf Wheeler Fee Estimate dated 5/10/12)

Compensation for the above engineering services shall be based on Schaaf & Wheelers Standard Charge Rate Schedule and the hours billed to the project. A fee of $38,010 is estimate for the above scope. This fee shall not be exceeded without prior written approval.

San Leandro High School
Irrigation Well
Consulting Services Fee

Schaaf Wheeler
San Leandro High Well
Design
FEE ESTIMATE

NO.	TASK ITEMS DESCRIPTION	PROJ MAN $ 205.00	SR ENG $ 195.00	ASSOC ENG $ 160.00	ASST ENG $ 140.00	Designer $ 125.00	SUBTOTAL M.H.'S	IN-HOUSE LABOR COSTS $	FEHR ELECT SUB	GEO-CONSULT. SUB	MATERIALS & SERVICES COSTS $	@ 1.10 SUBTOTAL M&S'S	TOTAL COSTS $
1	**Well Drilliing**												
	Review Well Logs & Geo Info						0	$0				$ -	$0
	Establish Well Profile						0	$0		$3,500		$ 3,850.00	$3,850
	Prepare Welll Drilling Specs						0	$0		$1,000		$ 1,100.00	$1,100
2	**Equipment Selection**												
	Coordination w/ Landscape Des	1		2			3	$525				$ -	$525
	Coordination w/ Hydrogeologist	1		1			2	$365				$ -	$365
	Select Pump	1		2			3	$525				$ -	$525
	Cooridation w/ Electrical Engin	1		2			3	$525				$ -	$525
	Coordination w/ Site & Land	1		4			5	$845				$ -	$845
3	**Construction Documents**												
	Prepare Site Drawings	2		12		4	18	$2,830		$1,100		$ 1,210.00	$4,040
	Prepare Pum & Piping Details	2		8		4	14	$2,190				$ -	$2,190
	Prepare Electrical Plan	1					1	$205	$4,800			$ 5,280.00	$5,485
	Prepare notes for Equip & Mat.	1		3			4	$685				$ -	$685
	Revise Drawings	2		4		2	8	$1,300				$ -	$1,300
4	**Construction Support**												
	Site Visit During Drilling						0	$0		$5,100		$ 5,610.00	$5,610
	Review Test Hole Data & Make Rec						0	$0				$ -	$0
	Observe Test Pumping						0	$0		$5,000		$ 5,500.00	$5,500
	Respond to Contractor Questions	1		4			5	$845	$2,000			$ 2,200.00	$3,045
	Review Submittals	2		4			6	$1,050				$ -	$1,050
	Review Site Progress	2		6			8	$1,370				$ -	$1,370
	TOTAL	**18**	**0**	**52**	**0**	**10**	**80**	**$13,260**	**$6,800.00**	**$15,700.00**	**$0.00**	**$24,750.00**	**$38,010**