

460 Center Street #6873 Moraga, Ca 94570 Ph:510-235-4144 info@geotechlocating.com

QUOTATION FOR

GEO-ENGINEERING SOLUTIONS, INC.
ERIC SWENSON
2570 SAN RAMON VALLEY BLVD, SUITE A102
SAN RAMON, CA 94583

QUOTATION

Date	Quotation
9/4/2020	6409

Description	RATE
PROJECT: San Leandro High School Utility Locating Project in San Leandro, CA. SURVEY BOUNDARY: Locate underground utilities inside the project area as defined by information received on 09/04/2020 via e mail. The attached Google image delineates the proposed survey boundary. INTENTION: We will attempt to locate underground utilities in the survey area, but for technical reasons we cannot guarantee to do so. NOTICE USA: Contractors must call Underground Service Alert (811) 48 hours prior to any underground work. MAKE AVAILABLE: • Any existing utility drawings for the survey area. • Access to areas that require admission for the purpose of tracking and identifying the utilities such as locked utility panels and rooms. • Surface free of interference, such as large metallic objects, cars, debris, excessive vegetation etc. METHOD: Location of utilities will be by electromagnetic field induction. The following is a partial list of equipment typically used to locate detectable utilities: • Radio Detection 7000 transmitter w/ matched receiver • Ground Penetrating Radar (GPR) unit • Fisher TW-6 M-scope - shallow focus metal detector • 512 Hz Sonde. We will visually inspect the surrounding area for evidence of subsurface utilities or other buried features as well as review available subsurface utility drawings. Each identified utility will be investigated using active electromagnetic utility-locating instruments and its surface trace demarcated on the ground using color-coded spray paint. The performance capability of GPR is dependent on the soil electrical conductivity at the site. If the soil conductivity is high,attenuation of the radar signal in the soil can severely restrict the maximum penetration depth of the radar signal. Under favorable conditions depth of penetration can be greater than 10 feet, however, average depths of GPR penetration in the Northwest tend to range between 3-5 feet. Soils high in clay content and moisture will have higher signal attenuation. GPR surveys should be performed in the dry season if at all possible, especially at California sites. Soil moisture, especially in high-clay soils, only increases the radar attenuation rates, further limiting the radar performance. INCLUDES: • Metallic utilities i.e. telephone (except fiber optic), electric, gas and water. • Non-metallic utilities with tracer wire visible. • Sewer and Drain lines with minimum 4" access will be located by inserting a transmitter.	

SIGNATURE:

Total



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EXCLUDES: • Non conductive force main lines without tracer wire visible in the project area • Fiber optic lines without tracer wire visible in the project area. • Sanitary or storm drain lines without access in the project area. • Transite or plastic water lines without tracer wire visible near the project area. • Locating inside the buildings not included. RESULT PRESENTATION: Utilities will be marked with spray paint using the American Public Works Association color code. • Electric ---------- Red • Telephone/Comm ------- Orange • Storm/Sanitary ---------- Green • Water/Air ---------- Blue • Gas/Steam/Oil ----------Yellow • Unknown pipes ---------- Pink	
PRICE: Work as outlined above includes equipment , travel costs and personnel and is offered for the sum of:	24,950.00
ACAD PRESENTATION: Utility marks will be collected with total station and plotted onto a drawing, by layers, in the ACAD format. Unless two site control points and their coordinate values are provided, the utilities will be plotted on an arbitrary coordinates system referencing a minimum of two prominent building corners or other features. This will enable insertion into other drawings by the client.	4,950.00

SIGNATURE:

Total $29,900.00


Bancroft Ave
Valita Dr
Thomas Ave
Cleveland St
San Rafael St
Fulton Ave
Evergreen Ave
School St
NO LOCATING
INSIDE THE TENNIS
AND POOL FENCE
368 ft
Google Earth