

John R. Byerly

I N C O R P O R A T E D

June 23, 2020

Alvord Unified School District
9 KPC Parkway
Corona, California 92879

File No.: S-13635/C-1012
I.D. No.: 062026

- Attention: Kevin Emenaker, Executive Director of Facilities Planning
- Project: Collett Elementary School, Modernization, 10850 Collett Avenue, Riverside, California
- Subject: Proposal for Percolation Testing for Storm Water Disposal and Recommendations for Parking Lot Pavement
- References:
- (a) Geotechnical Investigation, Additions and New Construction, Collett Elementary School, 10850 Collett Avenue, Riverside, California, John R. Byerly, Inc., File No. S-11710, Rpt. No. 8124, November 9, 2005
 - (b) Design Handbook for Low Impact Development, Best Management Practices, Riverside County Flood Control and Water Conservation District, Revised September 2011
 - (c) Soils Investigation, Collett Elementary School, Modernization, 10850 Collett Avenue, Riverside, California, John R. Byerly, Inc., File No. S-13635, Rpt. No. 3112, July 22, 2015
 - (d) e-mail re: Request for Proposal, Infiltration Study for Collett Elementary School, Paul Peck, Epic Engineers, W.O. 27.44, June 11, 2020 with attached Infiltration Exhibit

Ladies and Gentlemen:

We were pleased to be contacted regarding percolation testing services for storm water disposal at the subject site. To assist in the preparation of this proposal, we performed a site reconnaissance on June 12, 2020, we reviewed the referenced geotechnical investigation report (Reference a), the referenced soils investigation report (Reference c), and the referenced infiltration exhibit. We understand that further development of the elementary school site will include the construction of an infiltration system for storm water disposal. The referenced infiltration exhibit identifies two locations in which percolation testing for a storm disposal system will be needed. We have been informed by the project civil engineer, Epic Engineers, that the

bottom of the infiltration system will be about 2 feet and 7 feet below the presently existing ground surface. Needed at this time is an evaluation of the percolation characteristics of the soils underlying the proposed infiltration system. We also understand that the parking lot pavement along Collett Street will be replaced, and that recommendations for asphalt concrete pavement structural section are desired.

The City of Riverside implements the Riverside County Flood Control and Water Conservation District's Design Handbook for Low Impact Development, Best Management Practices to evaluate the percolation characteristics of soils below infiltration systems. We have communicated with Chris Scully, Senior Engineer with the City of Riverside – Public Works Department and were informed that he supports our intention to investigate the percolation characteristics of the soils underlying the proposed infiltration system area by a total of four percolation tests, two tests in each infiltration system area, using the falling-head test method. Percolation testing would be performed using the borehole-type method and following test procedures required by Reference (b). We propose to drill four test borings with a truck-mounted flight-auger to depths of 2 feet and 7 feet in the locations designated for the infiltration system. We note that some of our earlier test borings performed in References (a) and (c) provide adequate coverage regarding ground water or impermeable soil strata. Therefore, no additional subsurface exploration is needed relative to infiltration considerations. We would evaluate the exploration data from these test borings previously excavated in close proximity to assist in the interpretation of our percolation test results. Our percolation test results would be presented in a separate engineering report.

Testing of the on-site soil for relevant subgrade properties was performed during the soils investigation described in Reference (a). We would review the test results and provide recommendations for the thickness of asphalt concrete and aggregate base for the replacement parking lot pavement.

Our fees are predicated on time consumption computed at the rates shown on the enclosed Schedule of Fees. Our fees accommodate prevailing wage rates required by the State of California. An itemization of the anticipated fees is presented below.

FIELD EXPLORATION/PERCOLATION TESTING

Service	Quantity	Unit Rate/Hr.	Total
Regular drill rig (on-site)	4 hours	432.00	1,728.00
Regular drill rig (mob/demob)	1 day	420.00	420.00
Field engineer (log test borings)	4 hours	120.00	480.00
Field engineer (percolation test set-up/presoak)	2 hours	120.00	240.00
Field engineer (percolation testing)	8 hours	120.00	960.00
Proposal time/exploration stakeout	6 hours	85.00	510.00
			Total: \$4,338.00

ENGINEERING

Service	Quantity	Unit Rate/Hr.	Total
Drafting	1 hour	85.00	85.00
Staff engineer	6 hours	120.00	720.00
Project engineer	2 hours	150.00	300.00
Principal engineer	1 hour	190.00	190.00
			Total: \$1,295.00

Grand Total: \$5,633.00

The estimated fee presented above assumes that the field portion of the percolation testing would be performed on a weekday. We would consider \$5,633 a maximum figure for the percolation testing not to be exceeded without the client's express permission. This cost estimate is valid for 90 days subsequent to the date of this proposal.

Prior to conducting the field investigation, a meeting would be coordinated with Underground Service Alert and a representative of the District to locate underground utility lines that may be in the vicinity of our exploratory borings. We cannot proceed with our field exploration until a

representative of the District has verified that our boring locations are clear of buried utilities. Our firm would not be responsible for damage to underground utilities not identified by Underground Service Alert or the representative of the District. The fee estimate presented above does not include time for our firm to locate existing utilities. The cost estimate includes a trip to the site to mark our exploration locations and to coordinate the exploration locations with a representative of the District, another trip to the site to perform the actual exploration operations and perform the percolation testing.

Enclosed you will find two copies of our standard Agreement. If the scope of services and fee estimate are satisfactory, please sign one copy of the Agreement and return that copy to this office. If preferable, you may forward your purchase order or consultant retention agreement for our signature.

We appreciate the opportunity to provide you with this proposal. Should there be questions, please feel free to contact this office.

Respectfully submitted,

JOHN R. BYERLY, INC.



John R. Byerly, P.E.
President
R.E. No. GE179, Exp. 6/30/21

JRB:MLL:jet

Enclosures: Schedule of Fees
Agreement

AGREEMENT

John R. Byerly, Inc., hereinafter referred to as "Geotechnical Engineer" and Alvord Unified School District, hereinafter referred to as "District."

District agrees to retain the services of the Geotechnical Engineer in connection with the property described in the attached proposal letter and Geotechnical Engineer agrees to the retention of its services by District upon the following terms and conditions:

1. Geotechnical Engineer will render such services as are described in the proposal letter attached with this agreement and such additional work as may be described in addendum proposal letters by the Geotechnical Engineer.
2. District agrees to pay the Geotechnical Engineer for said services on a time consumption basis as shown on the attached Schedule of Fees.

TERMINATION

In the event that District requests termination of the work prior to completion, Geotechnical Engineer reserves the right to complete such analysis and records as are necessary to place files in order, to dispose of samples, put equipment in order, and where considered necessary to protect his professional reputation, to complete a report of the work performed to date. Therefore, in addition to those charges incurred up to the date of termination, a termination charge to cover the cost of the additional necessary work performed after the request to terminate has been received shall be made, not to exceed 30% of all charges incurred to date of the stoppage of the work.

TERMS OF PAYMENT

Geotechnical Engineer, after the end of each calendar month, or at completion of any phase of the work, shall submit to District, in duplicate, an itemized bill for services rendered and costs incurred. Said bill shall be due and payable when rendered. District agrees to pay court and reasonable attorney's fees should suit be commenced in court to collect any portion of the account.

SCOPE OF SERVICES TO BE PERFORMED

1. Scheduling

Work will be scheduled as soon as practicable and such scheduling will be contingent upon unavoidable delays in performance beyond the Geotechnical Engineer's reasonable control, or delays caused by failure of District or District's agents to furnish information or to approve or disapprove Geotechnical Engineer's work properly, or due to late or slow, or faulty performance by District, contractors, or governmental agencies, the performance of whose work is precedent to or concurrent with the performance with the Geotechnical Engineer's

work. The Geotechnical Engineer shall not be responsible for damage due to the aforementioned delays. In the event of occurrence of such delays, an unreasonable delay resulting from such cause, District shall have the right to declare this contract terminated, thereby discharging both parties herein, as to any remaining obligations hereunder. In the event District exercises its rights pursuant to this paragraph, District shall notify the Geotechnical Engineer in writing of such act and agree to pay the Geotechnical Engineer, pursuant to the fee schedule, for all work and services actually performed by the Geotechnical Engineer, in accordance with the Termination Clause.

2. Subcontracting

Normal subcontracting may be for drilling or other excavation equipment, but may also include the following: computer services; furnishing and driving test piling; special testing, e.g. agronomical, corrosion, x-ray; geological or other consulting services; and aerial surveys.

GENERAL TERMS

1. Project Understanding

District shall make available all information to the Geotechnical Engineer regarding existing and proposed conditions of the site. The information shall consist of, but not limited to, plot plan, locations of structures, building plans, grading plans, topographic data, previous soil data including borings, field or laboratory testing and written reports. Any changes in plans or additional information that might become available affecting the Geotechnical Engineer and noted by the District or its agents shall be submitted to the Geotechnical Engineer as they become available. It will be the responsibility of the District to notify the Geotechnical Engineer of any changes in the concept of the project. Where drawings, data, and other information are provided to the Geotechnical Engineer, he will rely upon such information to the extent intended by the District. District agrees to indemnify and hold harmless the Geotechnical Engineer from injury or death of persons or damage to property as a result of such reliance.

2. Safety

District agrees to provide a safe place for the Geotechnical Engineer's employees to perform their duties in furnishing the services provided for under this contract.

3. Claims

In the event the District makes a claim against the Geotechnical Engineer or at law or otherwise for any alleged error or omissions or other acts arising out of performance of the professional services, and the District fails to prove such claims, the District shall pay all costs and attorney's fees incurred by the Geotechnical Engineer in defending itself against the claim. In the event District proves an error or omission or other wrongdoing arising out of the performance of the Geotechnical Engineer's professional services, the Geotechnical Engineer shall pay all costs and attorney's fees incurred by District regarding such claim.

4. Access to Site

District agrees to give or obtain permission and any permits necessary to allow the Geotechnical Engineer access to the site for all necessary equipment and personnel, at no charge to the Geotechnical Engineer.

5. Waiver of Contract Provisions

None of the provision of this contract shall be considered waived by the Geotechnical Engineer unless such waiver is given in writing by the Geotechnical Engineer. No such waiver shall be a waiver of any part of future defaults, breach or modifications of any of the terms, provisions, conditions or covenants of this contract unless expressly set forth in such waiver. Any failure of the Geotechnical Engineer at any time to enforce or require the strict keeping and performance of any of the terms or conditions of this contract shall not constitute a waiver of such terms or conditions and shall not affect or impair such items or conditions in any way or the right of the Geotechnical Engineer at any time to avail itself of such remedies as it may have for any breach or breaches of such terms or conditions.

6. Conflicts

Conflicts between specifications, drawings, data, codes, laws, ordinances, regulations, bylaws, and the like, applicable to the work must be resolved to the satisfaction of the Geotechnical Engineer. District shall, in writing, notify the Geotechnical Engineer or his field superintendent of any conflict. The Geotechnical Engineer shall not work on the affected item or items until the conflict has been resolved.

7. Warranty

The District recognizes the inherent risk connected with construction. In performing their professional services, the Geotechnical Engineer will use the degree of care and skill ordinarily exercised under similar circumstances, by reputable members of their profession practicing in the same or similar localities.

8. Ownership of Documents

All reports, field exploration logs, field data, field notes, laboratory test data, calculations, estimates, and other documents prepared by the Geotechnical Engineer, as instruments of service, shall remain the property of the Geotechnical Engineer.

9. Liens

Geotechnical Engineer shall at all times indemnify and save District harmless against all liability for claims and liens for labor performed or materials used or to be furnished to be used on the job in connection with Geotechnical Engineer's performance of this contract, including any costs and expenses for attorney's fees and all incidental or consequential damages resulting to District from such claims or liens. Further, in case suit on such claim is brought, Geotechnical Engineer shall defend said suit at its own cost and expense, and will pay and satisfy any such lien or judgment as may be established by the decision of the court in said suit. Geotechnical Engineer agrees within ten days after written demand to cause the effect of any suit or lien to be removed from the premises, and in the event

Geotechnical Engineer shall fail to do so, District is authorized to use whatever means in its discretion it may deem appropriate to cause said lien or suit to be removed or dismissed and the cost thereof, together with reasonable attorney's fees, shall be immediately due and payable to District by Geotechnical Engineer. It is understood and agreed that the full and faithful performance of this agreement on the part of Geotechnical Engineer (including the payment of any obligations due from Geotechnical Engineer to District, and any amounts due to labor or material men furnishing labor or materials for said work) is a condition precedent to Geotechnical Engineer's right to receive payment for the work performed, and any monies paid by District to Geotechnical Engineer under the terms of this agreement shall be impressed with the trust in favor of those furnishing labor and/or material to Geotechnical Engineer on the work herein described.

10. Assignment of Contract

Geotechnical Engineer shall not, without notifying District, assign, transfer, nor sublet any portion or part of the work required by this agreement nor assign any payments hereunder to others. District may assign or transfer the whole or part of this agreement, and its rights hereunder, to any corporation, individual, or partnership. Geotechnical Engineer shall be responsible to District for the performance of engineers, subcontractors, and consultants who render services on District projects.

This contract contains all of the agreements of the parties and there are no other agreements, oral or written, between the District and the Geotechnical Engineer.

I have read and understand the above and hereby authorize the Geotechnical Engineer to proceed with the work in terms of this contract. I further acknowledge by my signature that I have power to act for District and to authorize this work.

ALVORD UNIFIED SCHOOL DISTRICT

Date: _____

By: _____
Authorized Signature

Date: _____

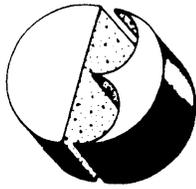
By: _____
Authorized Signature

JOHN R. BYERLY, INC.

Date: June 23, 2020

By: 

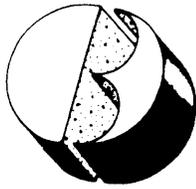
John R. Byerly, President



John R. Byerly
I N C O R P O R A T E D

SCHEDULE OF FEES

MAY 28, 2020



John R. Byerly

I N C O R P O R A T E D

TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE NO.</u>
Schedule of Fees for Geotechnical Services	1
Professional Personnel	1
Field Personnel	1
Geotechnical Laboratory Testing	1
Special Inspection Services	3
Inspection Fees	3
Materials Testing Services	3
Aggregate Test	3
Asphalt Paving Materials	4
Concrete	5
Fireproofing Tests	5
Concrete Masonry Unit (CMU) and Brick	6
Reinforcing and Structural Steel	6
Roof Tile	7
Testing Machine – 400,000 lb. Universal	7
Miscellaneous	7
Conditions and Working Hours	8
Reports	9

SCHEDULE OF FEES FOR GEOTECHNICAL SERVICES

PROFESSIONAL PERSONNEL

		<u>Regular Rate</u>	<u>Prevailing Wage Rate</u>
Principal Engineer	Per Hr.	\$ 190.00	
Project Engineer	Per Hr.	150.00	
Project Geologist	Per Hr.	150.00	
Staff Engineer	Per Hr.	125.00	
Staff Geologist	Per Hr.	125.00	
Expert Witness Preparation	Per Hr.	190.00	
Expert Witness Testimony (at trial or deposition)	Per Hr.	300.00	

FIELD PERSONNEL

Field Technician (including density testing)	Per Hr.	85.00	113.00
Supervising Field Technician	Per Hr.	125.00	
Staff Engineer	Per Hr.	125.00	
Field Exploration Equipment		Local Prevailing Rate + 20%	
Subsistence		Quotation	

GEOTECHNICAL LABORATORY TESTING

Laboratory Technician	Per Hr.	\$ 75.00
Supervising Laboratory Technician	Per Hr.	95.00
Atterberg Limits		
Liquid Limit	Each	80.00
Plastic Limit	Each	90.00
Shrinkage Limit	Each	100.00
Plasticity Index	Each	170.00
California Bearing Ratio - CBR		
(at specified moisture content - does not include optimum		
moisture content and maximum dry density determination)		
	Each	450.00

<u>Geotechnical Laboratory Testing (continued)</u>		Regular Rate	Prevailing Wage Rate
Consolidation Testing (without time rate).....	Each	\$ 200.00	
Add one time rate	Each	90.00	
Corrosion Tests			
pH.....	Each	45.00	
Minimum Resistivity.....	Each	45.00	
Sulfate	Each	45.00	
Chloride	Each	45.00	
Redox Potential	Each	45.00	
Sulfide	Each	45.00	
Corrosion Series.....	Each	250.00	
Direct Shear Tests (3-point)	Each	250.00	
Direct Shear Tests - Residual (per point).....	Point	140.00	
Expansion Index.....	Each	150.00	
Expansion Study (3 points remolded) (maximum density not included)	Each	340.00	
Grain Size Analysis (Gradation)			
Sieve Analysis (including wash passing No. 200 sieve)	Each	130.00	
Sieve Analysis Plus Hydrometer	Each	250.00	
% Passing No. 200 Sieve.....	Each	60.00	
Optimum Moisture and Maximum Dry Density			
Lab Max – (4-inch mold)	Each	180.00	
Lab Max – (6-inch mold)	Each	200.00	
Lab Max – California 216 Method	Each	200.00	
Organic Content	Each	60.00	
Moisture Content.....	Each	30.00	
Moisture/Density Determination – Tube Sample	Each	45.00	
“R” Value			
Untreated Material.....	Each	285.00	
Lime or Cement Treated Material	Each	300.00	
Sand Equivalent (average of 4).....	Each	120.00	

SPECIAL INSPECTION SERVICES**INSPECTION FEES**

		Regular Rate	Prevailing Wage Rate
Aggregate, Plant Sampling	Hour	\$ 85.00	\$ 113.00
Asphalt, Paving	Hour	85.00	113.00
Asphalt, Batch Plant	Hour	85.00	113.00
Commercial Building Inspection (Wood Framing, ICC)	Hour	85.00	113.00
Concrete, Batch Plant	Hour	85.00	
Concrete, Placing	Hour	85.00	113.00
Concrete, Placing Pre-Stress	Hour	85.00	113.00
Concrete, Pre and Post-Tensioning	Hour	85.00	113.00
Drilled Piers or Piles	Hour	85.00	113.00
Driven Piles	Hour	85.00	113.00
Field Welding, Structural Steel (AWS-CWI, AWS-ACWI and ICC)	Hour	85.00	113.00
Fireproofing Inspection	Hour	85.00	113.00
Ground Rod	Hour	95.00	125.00
Gunite, Placing	Hour	85.00	113.00
Hi-Tensile Bolting	Hour	85.00	113.00
Magnetic Particle Testing	Hour	115.00	135.00
Masonry Placing Inspection	Hour	85.00	113.00
Pachometer Meter Reinforcing Steel Locator	Hour	95.00	125.00
Pull Tests of Anchor Bolts/Dowels	Hour	85.00	113.00
Reinforcing Steel, Placing	Hour	85.00	113.00
Schmidt Concrete Hammer	Hour	95.00	120.00
Shop Welding Fabrication (AWS-CWI, AWS-ACWI and ICC)	Hour	90.00	
Skidmore Testing	Hour	140.00	175.00
Special Inspector	Hour	85.00	113.00
Tag, Identify, and Sample Rebar or Structural Steel	Hour	85.00	113.00
Torque Testing of High Strength Bolts	Hour	90.00	113.00
Ultrasonic Testing	Hour	115.00	135.00
Witness Installation of High Strength Bolts	Hour	85.00	113.00

MATERIALS TESTING SERVICES**AGGREGATE TEST**

Absorption	Each	\$ 40.00
Clay Lumps and Friable Particles	Each	75.00
Cleanness Value (Fine or Coarse)	Each	125.00
Decantation (No. 200)	Each	35.00
Deleterious Substances Determination	Each	115.00
Durability Test (Fine or Coarse) *	Each	165.00
Fineness Modulus (Including Sieve Analysis)	Each	130.00
Flat and Elongated Pieces (Per Size Fraction)	Each	105.00
Fractured Faces (Per Size Fraction)	Each	105.00
Light Weight Particles	Each	135.00

Aggregate Test (continued)

		Regular Rate	Prevailing Wage Rate
Los Angeles Rattler	Each	\$ 230.00	
Moisture	Each	30.00	
Organic Impurities	Each	55.00	
Percent Clay in Sands by Hydrometer	Each	180.00	
Percent Passing No. 200 Sieve	Each	50.00	
Percent Shale	Each	95.00	
Permeability of Granular Soil (ASTM D 2434)	Each	225.00	
Potential Reactivity (Chemical Method)	Each	Quotation	
Sand Equivalent	Each	120.00	
Sieve Analysis (Fine or Coarse - Processed)	Each	80.00	
Sieve Analysis (Pit Run)	Each	130.00	
Soft Particles	Each	95.00	
Soundness of Sodium Sulfate (Fine or Coarse)	Each	325.00	
Specific Gravity (Fine or Coarse)	Each	75.00	
Voids	Each	65.00	
Weight Per Cubic Foot	Each	75.00	
Deposit Evaluation	Each	Quotation	

* Lightweight aggregate also requires Specific Gravity and Absorption Testing

ASPHALT PAVING MATERIALS

Asphalt Paving Inspection	Hour	\$ 85.00	\$ 113.00
Plant Control during Operations	Hour	85.00	
Coring with Diamond Bit (Includes Bit Charge) (Contractor to provide access)	Hour	140.00	160.00
Density of Cores	Each	45.00	
Film Stripping	Each	80.00	
Los Angeles Rattler	Each	230.00	
Laboratory Standard Density (Marshall)	Each	200.00	
Laboratory Standard Density (Hveem)	Each	200.00	
Moisture Vapor Susceptibility		Quotation	
Mix Design	Each	135.00	
Mix Design Studies (Marshall or Hveem)	Each	450.00	
Pavement Evaluation		Quotation	
Plant Sample - % Asphalt, Ignition Oven	Each	145.00	
Plant Sample - % Asphalt and Gradation, Ignition Oven	Each	230.00	
Ignition Oven Aggregate Correction	Each	180.00	
Sand Equivalent	Each	120.00	
Sieve Analysis	Each	80.00	
Soundness Test (Sodium Sulfate) (Fine or Coarse)	Each	325.00	
Stability Test - "S" Value (Hveem Method)	Each	250.00	
Stability Test (Marshall Method - Set of 3)	Each	250.00	
Theoretical Maximum Specific Gravity (Rice)	Each	150.00	
Thickness of Pavement	Each	15.00	

CONCRETE

		Regular Rate	Prevailing Wage Rate
Absorption – Concrete Pipe or Tile (ASTM C497)	Each	\$ 30.00	
Batch Plant Inspection.....	Hour	85.00	
Concrete Placing Inspection	Hour	85.00	113.00
Coring (Includes Bit Charge).....	Hour	140.00	160.00
Coring Assistant (Required for Work from Ladder or Scaffolding).....	Hour	85.00	113.00
Field Technician	Hour	85.00	113.00
Molding Cylinders and Beams	Hour	85.00	113.00
Pachometer Reinforcing Steel Locator	Hour	95.00	130.00
Pick up Cylinders.....	Hour	80.00	
Pre-Stress and Post-Tensioning Inspection.....	Hour	85.00	113.00
Schmidt (Rebound) Hammer	Hour	90.00	113.00
Compression Test – 6"x12" and 4"x8" Cylinders	Each	27.50	
Hold Cylinders (Not Tested).....	Each	15.00	
Compression Test – Concrete or Shotcrete Cores 8" Maximum Diameter	Each	30.00	
Compression Test – Shotcrete - 6"x12" and 4"x8" Cylinders.....	Each	40.00	
Compression Test – Gypsum Cylinders.....	Each	30.00	
Gypsum Cylinders – Dried to Constant Weight	Each	22.00	
Mix Designs			
First Design (Exclusive of Aggregate Tests).....	Each	120.00	
Additional Design (Same Report).....	Each	90.00	
Review of Mix Design.....	Each	120.00	
Modulus of Elasticity – 6"x12" Cylinders	Each	125.00	
Modulus of Rupture (Flexure) – 6"x6" Beams	Each	80.00	
Moisture Vapor Kit.....	Each	25.00	
Saw-Cutting Samples for Testing (If Required)	Each	10.00	
Shrinkage Test (Set of 3)	Each	450.00	
Slump Cone (Refundable upon Return of Cone)	Deposit	50.00	
Splitting Tensile Test.....	Each	50.00	
Trial Batch in Laboratory (Including Air Content, Unit Weight Water Demand, Slump and Strength Determinations (1 at 7 days and 2 at 28 days).....	Each	450.00	
Unit Weight of Cylinders.....	Each	25.00	

* No charge if cylinder returned to us for testing

FIREPROOFING TESTS

Compression	Each	\$ 45.00	
Cohesion/Adhesion	Each	45.00	
Density	Each	40.00	
Dry Film Fireproofing Testing.....	Hour	120.00	\$ 140.00
Fireproofing Inspection.....	Hour	85.00	113.00

CONCRETE MASONRY UNIT (CMU) AND BRICK

		Regular Rate	Prevailing Wage Rate
Coring (Includes Bit Charge)	Hour	\$ 140.00	\$ 160.00
Coring Assistant (Required for Work from Ladder or Scaffolding)	Hour	85.00	113.00
In-Place Shear Testing	Hour	85.00	113.00
Masonry Placing Inspection	Hour	85.00	113.00
Molding Grout and Mortar	Hour	85.00	113.00
Pickup Grout and Mortar Samples	Hour	80.00	
Sample Masonry Units	Hour	80.00	
CMU, Compression	Each	45.00	
CMU, 24-Hour Absorption	Each	40.00	
CMU, Moisture Content	Each	40.00	
CMU, Density (Unit Weight)	Each	30.00	
CMU, Lineal Shrinkage (Rapid Method)	Each	90.00	
CMU, Dimensions	Each	20.00	
CMU, C140 Complete Testing	Each	650.00	
Brick, Compression	Each	35.00	
Brick, 24-Hour Absorption	Each	40.00	
Brick, 5-Hour Absorption	Each	40.00	
Brick, Modulus of Rupture	Each	35.00	
Grouted Masonry Prism Compression	Each	175.00	
Hydraulic Conductivity (Permeability) (ASTM D 5084)	Each	350.00	
Mortar and Grout Specimens, Compression	Each	30.00	
Masonry Cores, Compression 8" Maximum Diameter	Each	50.00	
Masonry Cores, Shear 8" Maximum Diameter	Each	70.00	
Tensile Test – CMA Method	Each	160.00	
Saw-Cutting Samples for Testing (If Required)	Each	10.00	
Unit Weight of Units	Each	25.00	
Mortar Cement Permeable Voids (ASTM C642)	Each	75.00	

REINFORCING AND STRUCTURAL STEEL

Anchor Bolts		Quotation	
Bolt – Hardness Only	Each	\$ 40.00	
Bolt – Wedge Tensile (Up to 100,000 lbf)	Each	100.00	
Hi-Strength Bolting	Hour	85.00	\$ 113.00
Field Welding Inspection (AWS-CWI, (AWS-ACWI), and ICC)	Hour	85.00	113.00
Magnetic Particle Testing	Hour	115.00	135.00
Nut – Hardness (Proof Load Under 100,000 lbf)	Each	45.00	
Nut – Hardness (Proof Load Between 100,000 – 150,000 lbf)	Each	55.00	
Shop Welding (AWS-CWI, AWS-ACWI, and ICC)	Hour	85.00	113.00
Skidmore Testing	Hour	140.00	160.00
Tag, Identify, and Sample Reinforcing Steel	Hour	85.00	
Tag and Identify Structural Steel	Hour	85.00	113.00

Reinforcing and Structural Steel (continued)

		Regular Rate	Prevailing Wage Rate
Tension and Elongation (Reinforcing Steel)			
No. 11 or Smaller	Each	60.00	
No. 14	Each	120.00	
No. 18 (Proof Test)	Each	120.00	
Ultrasonic Testing	Hour	\$ 115.00	\$ 135.00
Washer - Hardness	Each	35.00	
Welder's Qualification Test – AWS and ASME Procedures		Quotation	
Bend Test (Reinforcing Steel)	Each	60.00	
Welded Wire Mesh Bend Test	Each	60.00	
Welded Wire Mesh Shear Test	Each	60.00	
Tension (Structural Steel)	Each	60.00	
Bend Test (Structural Steel)	Each	60.00	
Torque Testing of High Strength Bolts	Hour	85.00	113.00
Witness Installation of High Strength Bolts	Hour	85.00	113.00
Machining Coupons for Test (Tensile or Bend)		Quotation	

ROOF TILE

Sample Roof Tile	Hour	\$ 85.00	
Strength	Each	50.00	
Absorption	Each	50.00	
Permeability	Each	70.00	

TESTING MACHINE - 400,000 LB. UNIVERSAL

Machine with Operator	Hour	\$ 275.00	
Additional Technician	Hour	75.00	

MISCELLANEOUS

Expert Witness Testimony	Hour	\$ 300.00	
Expert Witness Preparation	Hour	190.00	
Modular Construction, Inspection and Certification	Hour	85.00	\$ 113.00
Roof Tests and Inspection	Hour	85.00	113.00
Structural Failure Investigation		Quotation	
Verification of Fabricator's Quality Control Capabilities		Quotation	
Welder Qualification Test		Quotation	
Glue Laminated Structural Lumber	Local Prevailing Rate + 20%		

**ALL REPORTS ARE REVIEWED BY REGISTERED CIVIL ENGINEERS APPROVED BY
THE STATE OF CALIFORNIA, DIVISION OF STATE ARCHITECTURE**

CONDITIONS AND WORKING HOURS

<u>Minimum Charges</u>	There will be no minimum charges for inspection services. Other than late cancellation fees, client will be charged only for time spent on-site plus applicable travel time
<u>Travel Time</u>	Travel time from Bloomington to site of work and return will be charged at applicable hourly rate.
<u>Clerical Time</u>	Clerical time for report preparation is included in the hourly and unit rates for inspectors and testing. There will be no additional charge for clerical preparation of reports.
<u>Regular Time</u>	First 8 hours, Monday through Friday between 6 a.m. and 5 p.m.
<u>Time and One-Half</u>	First 12 hours on Saturday Monday through Friday after first 8 hours through 12 hours of shift or for hours worked between 5 p.m. and 6 a.m.
<u>Double Time</u>	All day Sunday and after first 12 hours Monday through Saturday. Holidays: New Year's, Memorial, Independence, Labor, Veterans, Thanksgiving, Day after Thanksgiving, Christmas Day.
<u>Prevailing Wage Projects</u>	Separate rates are provided for those projects where SB 1999 prevailing wage requirements are applicable. Our prevailing wage rates will increase in consistence with predetermined increases mandated by the California Department of Industrial Relations.
<u>Parking</u>	When not furnished for Inspector, parking will be charged as paid by the Inspector.
<u>Agency Approval of Special Inspectors</u>	Agency (e.g. Building and Safety Department) fees for approval or registration of special inspectors for a specific job will be charged to the client with no mark-up. Inspector's time to submit qualifications for agency approval will be charged at straight time rate.
<u>Subsistence</u>	On remote jobs, subsistence, when not furnished for Inspector, will be charged by Quotation.
<u>Completion</u>	Inspector will remain on job until discharged by competent authority.
<u>Cancellation</u>	No charge if made before 4:00 p.m. of the preceding day. If cancellation is received after 4:00 p.m. of the previous day, a late cancellation fee equivalent to 2 hours of requested inspection service may be charged.
<u>Terms of Payment</u>	Fees charged are for professional and technical services and are due on presentation. If not paid within 30 days from date of invoice, they are considered past due and a finance charge of 1-1/2% per month will be added to the unpaid balance (APR 18%). Any invoice under \$100.00 will be C.O.D. All invoice errors or necessary corrections shall be brought to the attention of the company within fifteen (15) days of receipt of invoice; thereafter customer acknowledges invoices are correct and valid. John R. Byerly, Inc. reserves the right to terminate its services to a customer without notice if all invoices are not current. Upon such termination of services, the entire amount accrued for all services performed shall immediately become due and payable. Customer waives any and all claims against John R. Byerly, Inc., its subsidiaries, affiliates, servants and agents, for termination of work on account of these terms.

Terms of Payment
Continued

Should it be necessary to refer a past-due account to an attorney, to file suit for collection, or to file suit to collect mechanics lien, customer agrees to pay all reasonable expenses and costs incurred thereby, including reasonable attorney fees and costs. Jurisdiction and venue shall be in San Bernardino County, State of California.

Limitation of Liability

It is agreed that Client will limit any and all liability, claims for damages, costs of defense, or expenses to be levied against the Geotechnical Engineer on account of any design defects, errors or omissions of professional negligence to a sum not to exceed \$75,000.00 or the amount of their fee, whichever is greater. Client agrees to notify any contractors or subcontractors who may perform work in connection with any design, reports or studies prepared by Geotechnical Engineer of such limitation of liability for design, defects, errors, omissions or professional negligence and requires as a condition precedent to their performing the work a like limitation of liability on their part as against the Geotechnical Engineer. In the event Client fails to obtain a like limitation of liability provision as to design defects, errors, omissions or professional negligence, any liability of the Client and the Geotechnical Engineer to such contracts or subcontracts arising out of an alleged defect, error or omission or professional negligence shall be allocated between the Client and the Geotechnical Engineer in such a manner that the aggregate liability for damages for such design defects to all parties, including the Client, shall not exceed \$75,000.00 or the amount of the Geotechnical Engineer's fee, whichever is greater.

REPORTS

Minimum charge for all special testing.	\$ 100.00
Minimum charge for all special research	25.00
Added charge for reproduction and mailing services for the report covering the research15 per sheet
Blueprints or other outside services	Cost + 20%

Principal engineer time will be charged for preparation of each report.