



Reference: 024162

October 15, 2024

Dan Arreguin, General Manager  
Weott Community Services District  
PO Box 218  
Weott, CA 95571

**Subject: WCSD Wastewater Treatment Facility Emergency Repairs Scope of Work and Fee Estimate Proposal**

Dear Dan Arreguin:

This letter presents our scope and fee estimate for financial assistance application assistance, preliminary engineering, environmental documentation, permitting assistance, engineering design, bid assistance, and construction support services for emergency repairs to the wastewater treatment facility (WWTF) and access road in Weott, California.

## Project Understanding

It is our understanding that the Weott Community Services District (WCSD) is seeking assistance to complete repairs to the WCSD WWTF caused by storm events during calendar year 2022. Damage caused during these events include failure of one recirculating gravel filter bed and storm damage to the access road to the WWTF. We understand WCSD is seeking assistance with obtaining emergency grant funding from the U.S. Department of Agriculture (USDA) Rural Utility Service (RUS) through the "Calendar Year 2022 Disaster Water Grants Program" (USDA, 2023). Fees included in this proposal will be included in the grant funding application budget and may be reimbursable through the funding agreement once approved.

## Scope of Work

### Task 010—Financial Assistance Support

Under this task, SHN will assist WCSD with preparing grant funding application Standard Form 424-C "Budget Information—Construction Programs." Project Budget costs included in this form will be developed under "Task 020—Preliminary Engineering Report" below.

SHN will assist with project monitoring and reporting, including preparation of Standard Form 425 "Federal Financial Report" quarterly and at final project completion.



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SHN will assist with budget and schedule tracking on a monthly basis including preparation of invoices, brief progress updates, and preparation of Standard Form 270 "Request for Advance or Reimbursement."

SHN will also assist with general coordination with the funding agency, USDA, as needed.

### **Deliverables:**

- Standard Form 424–C, "Budget Information–Construction Programs"
- Standard Form 425 "Federal Financial Report" quarterly and at final project completion
- Invoices and brief progress updates monthly
- Standard Form 270 "Request for Advance or Reimbursement" monthly

### **Assumptions:**

- WCSD will be responsible for signing and submitting documents to USDA (as needed).

### **Exclusions:**

- Assistance with funding sources other than USDA "Calendar Year 2022 Disaster Water Grants Program"

## **Task 020—Simplified Engineering Report**

SHN will prepare a simplified engineering report in accordance with the "Calendar Year 2022 Disaster Water Grants Program" notice of funding opportunity (USDA, 2023). The simplified engineering report will include:

- **Scope of Work:** Describe work to be performed including type, amount, and a brief description and justification of engineering design parameters used.
- **Cost Estimate:** Provide an itemized estimate of the total project cost based on the stated period of construction. Include development and construction, land and rights, legal, engineering, equipment, contingencies, and other costs associated with the proposed project.
- **System Resiliency and Water Reuse:** System resiliency and water reuse options (if applicable).

### **Deliverables:**

- Draft engineering report
- Final engineering report

### **Assumptions:**

- The proposed project will only include in-kind repairs that will qualify the project for a simplified engineering report in accordance with the "Calendar Year 2022 Disaster Water Grants Program" notice of funding opportunity (USDA, 2023). If a full engineering report is necessary, an amendment to this agreement may be necessary.



## **Task 030—Technical Studies**

Permitting the road repairs is anticipated to require the following environmental studies:

- **Biological and Wetland Assessment:** SHN will conduct a biological assessment of sensitive resources that have the potential to occur within the identified study area. This includes literature review from several sources and two seasonally appropriate site visits to document the habitat and species present within the specified project area. Results and recommendations will be provided for use in project planning, impact assessment, and agency review during permitting and project approval.

SHN will conduct a wetland delineation of the specified study area for project planning purposes, impact assessment, and setback determination. The wetland delineation will be prepared according to the standard U.S. Army Corps of Engineers (USACE) three-parameter methods and will incorporate the State of California wetland definition, which took effect at the end of May 2020.

### **Deliverables:**

- Biological and wetland assessment report

### **Assumptions:**

- The study area for road repairs consists of the approximately 770-foot-long road segment between Lum Street and the WWTF and up to 100 feet wide centered on the road.

## **Task 040—California Environmental Quality Act**

The road repair project is anticipated to require the following California Environmental Quality Act (CEQA) compliance:

- **CEQA Notice of Exemption with Brief Supporting Letter:** SHN will prepare a CEQA notice of exemption (NOE) and brief supporting letter documenting the suitability of the exemption for the road repair project and documenting why the potential exceptions to the use of a categorical exemption do not apply (CEQA Guidelines 15300.2). SHN will assist WCSD with filing the NOE with the County Clerk-Recorder and the State Clearinghouse.

### **Deliverables:**

- CEQA notice of exemption
- Brief letter in support of CEQA notice of exemption

### **Assumptions:**

- Applicable CEQA exemption types include Class 1c (Existing Facilities), Class 2 (Replacement/Reconstruction), and Statutory Exemption 15269 (Emergency Projects).



## **Task 050—Permitting**

The road repair project is anticipated to require the following permitting due to anticipated work in jurisdictional waters:

- **USACE 404 Permit:** SHN will prepare and submit a permit application to the USACE for the road repairs. A nationwide permit is anticipated to be suitable.
- **RWQCB 401 Water Quality Certification:** SHN will prepare and submit a permit application to the North Coast Regional Water Quality Control Board (RWQCB) for the road repairs.
- **CDFW Lake and Streambed Alteration Agreement:** SHN will prepare and submit a notification to California Department of Fish & Wildlife (CDFW) for a Section 1600 Lake and Streambed Alteration Agreement for road repairs.

### **Deliverables:**

- Permit applications

### **Assumptions:**

- The road repair project will not have any permanent impact to jurisdictional waters.
- No revegetation plan or mitigation monitoring and reporting plan will be required because the road repairs will be conducted from the top of the road with minimal impacts and will not expand the pre-damage road footprint.
- WCSD will be responsible for payment of agency permitting/review fees. Estimated permitting fees are included in the fee summary section of this letter as part of the Task 050 costs and consist of \$10,000 to RWQCB and \$7,500 to CDFW (no fee for USACE).

## **Task 100—Land Survey**

SHN survey field crew will perform a field topographic survey 25 feet from centerline on both sides of the existing access road marked in red on Figure 1 below. The field survey will include all visible utilities, trees 6 inches in diameter and bigger, and culvert inverts. The CAD file will include Book 51 of Surveys, page 21 of Humboldt County Records to show road easement and property boundary.

The existing conditions from the field survey will be compiled in AutoCAD Civil 3D version 2022 at a scale of 1 inch=20 feet with a 1-foot contour interval.

The basis for the field survey will be State Plane Coordinate (SPC) Zone 1 horizontal and North American vertical datum, 1988 (NAVD88) vertical based on global positioning system (GPS) observation. The GPS data will be processed by Online Positioning Users Service (OPUS).



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**Figure 1. Approximate access road location.**

### Deliverables:

- AutoCAD Civil 3D file

### Assumptions:

- Fees are based on current (2024) prevailing wage rates.

## Task 110—Geotechnical Investigation and Report

SHN will conduct a field and laboratory investigation and prepare an engineering geologic report with recommendations for restoring the roadway to a safe and usable condition for equipment and vehicles.

Our field and laboratory investigation will include:

- mapping the slope stability and drainage conditions within the road corridor,
- a subsurface investigation using a hand-auger and/or a backhoe in the areas where repairs are required,
- collection of representative soil samples for laboratory testing, and
- laboratory testing of samples to characterize in-place soil conditions. Specific tests will depend on the materials encountered in the field and the proposed repair options.

SHN will perform engineering analyses of the field and laboratory results in order to develop conclusions and recommendations for restoration of the roadway. Our findings and recommendations will be provided in an engineering geologic report.



**Deliverables:**

- Engineering geologic report

**Assumptions:**

- SHN will be provided access to the areas requiring subsurface investigations.
- WCSD will provide equipment and an operator for subsurface exploration, if necessary.
- Any permitting and/or encroachment requirements for the subsurface investigation will be coordinated by WCSD.

## **Task 120—Design**

SHN will prepare engineering design plans and technical specifications for the proposed repairs including cleaning of gravel filter media and replacement of distribution and collection piping in each of two gravel filter beds, and stabilization and repair to access road storm damage.

Access road stabilization recommendations will be based on the evaluation of slope stability and drainage conditions identified during the geotechnical investigation phase. We anticipate this will consist of replacement of up to three culverts, slope stabilization at the culvert outlets, and minor re-grading in inboard ditches. SHN will hire Hilfiker Retaining Walls (Hilfiker) as a subconsultant for the design of the roadway slope stabilization component of this project.

SHN will prepare 65% complete plans and draft technical specifications for review and comment by WCSD and USDA. SHN will incorporate review comments into a 95% complete set of plans and technical specifications for review by WCSD and USDA. SHN will incorporate final comments into a final 100% signed and sealed bid-ready set of plans and technical specifications.

**Deliverables:**

- 65% complete engineering plans and draft technical specifications
- 95% complete engineering plans and draft technical specifications
- 100% signed and sealed bid-ready engineering plans and technical specifications

**Assumptions:**

- No major changes to the project scope or design will occur after the 65% design review.
- No improvements to any other part of the WWTP will be included in the design other than what is described above.
- Gravel filter media will be removed and washed onsite, and will be re-used after being washed.
- Liners below the gravel filter media beds will need to be replaced but the engineered fill below the liners will not require replacement.
- Culverts will be sized based on existing channel widths; drainage areas will not be mapped, and 100-year storm event flow rates will not be calculated.



## **Task 200—Bid Assistance**

SHN will prepare bid documents to solicit bids from qualified construction contractors using the Engineer's Joint Contract Document Committee (EJCDC) format incorporating USDA-specific requirements for the project. Draft bid documents will be submitted to WCSD and USDA for review and comment. Comments will be incorporated into final bid documents that will be used to solicit bids from construction contractors through an open public bid process.

SHN will host a pre-bid meeting to inform potential bidders of specific project requirements and to solicit questions from contractors. SHN will issue bid addenda as needed in response to contractor questions. SHN will review all bids submitted to WCSD, check each bid for responsiveness to the bid requirements, and make a recommendation for award of the contract to WCSD.

### **Deliverables:**

- Draft bid documents
- Final bid documents
- Pre-bid meeting agenda
- Bid addenda as needed
- Bid review and award recommendation

### **Assumptions:**

- WCSD is responsible for obtaining legal counsel to review the bid documents prior to the bid solicitation being advertised.
- The pre-bid meeting will be held in-person at the project site.

### **Exclusions:**

- More than one bid phase, and/or re-bid of the project

## **Task 210—Construction Support Services**

SHN will provide construction support services including the following:

- Construction Observation:
  - Daily field reports by SHN's field technician following site visits; we anticipate up to two site visits per week to verify contractor compliance with plans and specifications.
  - Photographic documentation of construction progress
  - Documentation of work that does not meet the intent of the engineering plans and technical specifications
  - Documentation of work completed by contractor for verifying quantities included in contractor progress payment requests



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- Special Inspections:
  - Gravel bed post-demolition inspection
  - Gravel bed underdrain installation inspection
  - Gravel bed distribution piping installation inspection
  - Gravel bed startup inspection
  - Roadway excavation inspection
  - Rough grading and subgrade preparation inspections
  - Slope stabilization installation inspections
  - Culvert placement inspections
  - Engineered fill placement and compaction testing inspections
  - Final grading inspection
  - Asphalt paving inspection
  - Substantial Completion inspection
- Final Completion inspection
- Construction Management:
  - Review contractor submittals.
  - Review contractor requests for information.
  - Review contractor change order requests.
  - Review contractor progress payment requests.
  - Preparation of a final punch-list at Substantial Completion.
  - Issuance of Notice of Substantial Completion.
  - Issuance of Acceptability of Work (Final Completion).
  - Preparation of as-built record drawings of completed work.
- Materials Laboratory Testing:
  - Washed and cleaned gravel filter media gradation
  - Engineered fill compaction curve test
  - Slope stabilization rock hardness test

**Deliverables:**

- Pre-construction meeting agenda
- Construction progress meeting agendas and notes
- Construction observation field reports
- Construction progress photographs
- Written responses to contractor submittals (as needed)
- Written responses to contractor requests for information (as needed)





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- Written recommendation for approval of contractor change order requests (as appropriate)
- Written recommendation for approval of contractor progress payment requests (as appropriate)
- Written Notice of Substantial Completion (as appropriate)
- Final punch-list (as appropriate)
- Written Notice of Acceptability of Work (as appropriate)
- As-built record drawings

**Assumptions:**

- Construction will occur over a period not to exceed 40 working days (approximately 2 months).
- The pre-construction meeting will be held in-person at the project site.
- Construction observation will be conducted by SHN’s qualified field technicians and will include approximately 8 hours per week including travel time and time onsite.

**Exclusions:**

- Private property owner access agreements (if necessary)
- County and Caltrans encroachment permits (if necessary)
- Warranty inspections
- Warranty claim support
- Insurance claim support
- Legal dispute support

## Schedule

A detailed preliminary project schedule is included as Attachment 1. Dates and durations of tasks are estimates and subject to change dependent on WCSD and agency responsiveness.

## Fee Estimate

Compensation for services described herein will be on a time and expenses basis. The table below provides an anticipated budget breakdown by task. SHN shall be free to adjust budgets between these tasks as needed, as long as the total fee is not exceeded. This total fee will not be exceeded without prior authorization.

Task 010	Financial Assistance Support .....	\$24,000
Task 020	Simplified Engineering Report .....	\$8,000
Task 030	Technical Studies.....	\$24,000
Task 040	CEQA .....	\$6,000
Task 050	Permitting.....	\$31,000*
Task 100	Land Survey .....	\$17,500



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Task 110	Geotechnical Investigation and Report .....	\$20,000
Task 120	Design.....	\$55,000
Task 200	Bid Assistance .....	\$17,000
Task 210	Construction Support Services .....	\$65,000
<b>Total Fee.....</b>		<b>\$267,500</b>

\*Anticipated agency permit fees not included in SHN fee; \$17,500 (to be paid by WCSD directly).

## References

USDA. (2023). "Notice of Funding Opportunity for Calendar Year 2022 Disaster Water Grants Program for Fiscal Year 2023; Water and Environmental Programs." Federal Register Volume 88, No. 119. U.S. Department of Agriculture:USDA.

Please call me at 707-441-8855 if you have any questions.

Sincerely,

**SHN**



Chuck Swanson  
Project Manager

CRS:ame

Appendix 1. SHN 2024 Fee Schedule



# 2024 Fee Schedule

1



## Consulting Engineers & Geologists, Inc.

### Fee Schedule January 1, 2024

When accurate definition of the proposed work is not possible, an hourly charge out rate for determining compensation shall be used. Hourly charge rates include payroll costs, overhead, and profit. Hourly services are billed portal to portal and are subject to a 2-hour minimum. Current rates are as follows:

Hourly Charge Rates		
Position <sup>1</sup>	Hourly Rates	
Principal	\$ 170.00	- \$ 220.00
Senior Engineer	\$ 170.00	- \$ 220.00
Senior Geotechnical Engineer	\$ 160.00	- \$ 210.00
Senior Engineering Geologist	\$ 160.00	- \$ 220.00
Senior Geologist	\$ 150.00	- \$ 210.00
Senior Planner	\$ 130.00	- \$ 190.00
Senior Environmental Scientist	\$ 150.00	- \$ 200.00
Senior Land Surveyor	\$ 130.00	- \$ 195.00
Project Manager	\$ 110.00	- \$ 180.00
Project Engineer	\$ 120.00	- \$ 170.00
Project Geologist	\$ 110.00	- \$ 170.00
Project Land Surveyor	\$ 100.00	- \$ 140.00
Associate Planner	\$ 90.00	- \$ 130.00
Associate Environmental Scientist	\$ 110.00	- \$ 150.00
Staff Engineer	\$ 90.00	- \$ 130.00
Staff Geologist	\$ 90.00	- \$ 130.00
Staff Planner	\$ 80.00	- \$ 120.00
Staff Environmental Scientist	\$ 100.00	- \$ 140.00
Staff Land Surveyor <sup>3</sup>	\$ 90.00	- \$ 250.00 <sup>3</sup>
Certified Industrial Hygienist	\$ 120.00	- \$ 170.00
GIS/UAV Specialist	\$ 80.00	- \$ 135.00
Construction Inspector <sup>3</sup>	\$ 90.00	- \$ 280.00 <sup>3</sup>
Lab/Field Technician <sup>3</sup>	\$ 90.00	- \$ 280.00 <sup>3</sup>
Survey Technician <sup>3</sup>	\$ 80.00	- \$ 280.00 <sup>3</sup>
Engineering Technician/Draftsperson	\$ 100.00	- \$ 150.00
Technical Writer	\$ 90.00	- \$ 110.00
Clerical	\$ 70.00	- \$ 90.00
Expert Witness <sup>2,4</sup>	\$ 175.00	- \$ 275.00

1 Incidental expenses, i.e., lodging, meals, airplane tickets, etc., are billed at cost plus 15%.

2 Minimum daily charge is four hours.

3 Rates depend on the specific personnel assigned and if **prevailing wage rates are required in the area of work.**

4 Rates for Expert Witness are charged for preparation and testimony for both deposition(s) and trial(s).

**Reimbursables**

**The following direct charges are charged in addition to the hourly charge rates set forth above.**

**Direct Charges:**

CADD plots (black & white)	\$ 0.40/sq. ft.
CADD plots (color)	\$ 0.90/sq. ft.
Copies	\$ 0.15/ea.
Equipment and other expenditures (required for projects)	Cost + 15%
Iron pipe, monuments, flagging, etc.	Cost + 15%
Mylars	\$ 15.00
Services of other consultants	Cost + 15%
Stakes, hubs, lath, etc.	Cost + 15%
Subsistence, air travel, etc.	Cost + 15%
Vehicles	\$ 50.00/day

**Field Testing and Equipment:**

Anchor bolt tension testing	\$100.00/day plus operator
CO <sub>2</sub> Meter	\$ 10.00/day
Concrete Compression Impact Hammer	\$ 50.00/day*
Core Drilling Machine	\$100.00/day & \$5.00/inch cored
Dissolved Oxygen Meter	\$ 58.00/day*
Expendable Supplies	\$ 40.00/day*
Fyrite Meter	\$ 33.00/day*
Generator	\$ 71.00/day*
Geophysical Equipment	By Quotation
Grundfos Controller & Pump	\$275.00/day
Hand Auger	\$ 44.00/day
Health & Safety Level D	\$ 35.00/day*
Health & Safety Level C	\$ 60.00/day*
High Pressure Controller	\$ 60.00/day*
Inclinometer	\$200.00/day*
LEL Meter	\$ 73.00/day*
Nuclear Density Testing	\$ 35.00/hour plus operator
Other equipment including drill rigs, backhoes, etc.	Cost + 15%
ORP Meter	\$ 15.00/day
OVA	\$145.00/day*
Peristaltic Pump	\$ 50.00/day*
pH/Conductivity Meter	\$ 71.00/day*
Pumps	\$ 40.00/day*
Quad (ATV)	\$150.00/day
Rebar Locating Device	\$100.00/day plus operator

\* 1/2 Day Minimum Charge.

**(1)** If concrete is sampled and delivered to SHN lab by outside contractor, add \$5.00/ea. for processing and curing per ASTM C-31.

**Reimbursables, Continued**

**Field Testing and Equipment, Continued:**

Roto-hammer	\$ 50.00/day*
Skidmore-Wilhelm Bolt Tension Calibration	\$150.00/day
Soil/Gas Purge Pumps	\$ 30.00/day*
Soil Gas Probes	\$200.00/day*
Torque Wrench (0 to 250 ft lbs)	\$ 50.00/day
Torque Wrench (250 to 1,000 ft lbs)	\$ 75.00/day
Turbidity Meter	\$ 29.00/day*
Ultrasonic Test Device	\$ 25.00/hour plus operator
Water Level Meter	\$ 60.00/day*
Water Level Indicator	\$ 44.00/day*
Well Point	\$ 50.00/day

**Survey Equipment:**

GPS Station	\$400.00/day*
Level	\$ 25.00/day*
Resource GPS	\$ 150.00/day*
Robotic Total Station	\$ 300.00/day
Total Station	\$ 7.50/hour
Total Station w/Data Collector	\$ 100.00/day
Toughbook	\$ 150.00/day*
Trimble GeoXT GPS Unit	\$ 150.00/day*

**Laboratory Tests:**

Asphalt Briquette Compaction	\$100.00/ea. <sup>(1)</sup>
Asphalt Bulk Specific Gravity	\$ 75.00/ea.
Asphalt Content Gauge Calibration	\$200.00/ea.
Cleanness Value (CT 227)	\$100.00/ea.
Compaction Curves (ASTM D 1557 or Caltrans CT216)	\$325.00/test
Compaction Curve Check Point	\$100.00/ea.
Concrete Compressive Strength (CT 521 or ASTM C39)	\$ 30.00/ea. <sup>(2)</sup>
Concrete Linear Shrinkage (3 Bars)	\$300.00
Concrete Moisture	\$ 50.00/test (floor test)
Consolidation Test	\$450.00/ea.
Direct Shear, per point: (ASTM D3080)	
Consolidated-Drained (CD)	\$200.00/point
Unconsolidated-Undrained (UU) (Modified ASTM)	\$150.00/point
Consolidated-Undrained (CU) (Modified ASTM)	\$175.00/point
Additional cycles (each)	\$ 75.00/ea.

\* 1/2 Day Minimum Charge.

(1) If asphalt is delivered to SHN lab unmixed, add \$75.00/ea. for processing and mixing per Caltrans CT304.

(2) If concrete is sampled and delivered to SHN lab by outside contractor, add \$5.00/ea. for processing and curing per ASTM C-31.

**Reimbursables, Continued****Laboratory Tests, Continued:**

Disposable Concrete Molds	\$ 7.00/ea.
Durability Index	\$ 100.00/ea.
Expansion Index	\$ 200.00/test
Fireproofing Density	\$ 100.00/ea.
Grout Compressive Strength	\$ 40.00/ea.
LA Rattler (abrasion resistance)	\$ 225.00/test
Liquid Limit	\$ 100.00/ea.
Masonry Block Compressive Strength	\$ 65.00/ea.
Masonry Block Linear Shrinkage	\$ 85.00/ea.
Masonry Block Prism Compressive Strength	\$ 125.00/ea.
Masonry Core Shear Test	\$ 50.00/core
Moisture Content	\$ 40.00/ea.
Moisture-Density Test	\$ 50.00/ea.
Particle Size Analysis (ASTM 422)	\$ 150.00/ea.
Percent Crushed Particles	\$ 200.00/ea.
Percent Organics	\$ 50.00/ea.
Plastic Limit	\$ 100.00/ea.
Plasticity Index	\$ 200.00/ea.
R-Value	\$ 350.00/ea.
Rice Specific Gravity of Asphalt (ASTM D2041)	\$ 150.00/ea.
Sand Equivalent	\$ 125.00/ea.
Sawing Rocks and Concrete Cores	\$ 30.00/unit
Sieve Analysis--Coarse	\$ 100.00/ea.
Sieve Analysis--Fine	\$ 100.00/ea.
Sieve Analysis--Passing 200	\$ 75.00/ea.
Specific Gravity, Coarse Aggregate	\$ 100.00/ea.
Stabilometer of Premixed AC	\$ 75.00/ea.
Sulfate Soundness	\$ 125.00/cycle
Swell Test	\$ 55.00/point
Triaxial Compression	
Unconsolidated Undrained (TXUU) (ASTM D2850)	\$ 115.00/point
Consolidated Undrained (TXCU) (ASTM D4767)	\$ 385.00/point
Consolidated Drained (TXCD) (ACOE)	\$ 500.00/point
Consolidated Undrained (TXCU-3 stage) (ASTM D4767)	\$1,000.00/test
Consolidated Drained (TXCD-3 stage) (ACOE)	\$1,100.00/test
Bulk Density Test	\$ 30.00/ea.
USDA Textural Suitability Test	\$ 80.00/ea.
Unconfined Compression	\$ 100.00/ea.
Unit Weight of Lightweight Concrete	\$ 50.00/unit

**Notes:**

All samples of soil or rock from physical testing are discarded 30 days after submission of final report unless prior arrangements are made. Samples of soil or rock submitted for testing for hazardous substances will be returned to the Client, who is responsible for proper disposal.

This fee schedule is subject to review and adjustment, as required.

Certain services may require prevailing wages or overtime at premium pay to SHN employees. In such circumstances, fees will be adjusted to reflect increased labor costs.