



Michigan Department of Natural Resources - Procurement Services
 P.O. Box 30028, Lansing, MI 48909
 OR
 525 W. Allegan, Lansing, MI 48933

NOTICE OF CONTRACT NO. 751B6600012
Between
THE STATE OF MICHIGAN
And

Required by authority of 1984 PA 431, as amended.

Name of Contractor Siebein Associates, Inc.	Primary Contact Gary Siebein
Address of Contractor 625 NW 60 th Suite C	Email gsiebein@siebeinacoustic.com
City, State, ZIP Gainesville, FL 32607	Telephone (352) 331-5111 Ext. 16
	Contractor #, Mail Code 6882/E00

STATE CONTACTS	AGENCY	NAME	TELEPHONE	EMAIL
Program Manager	Roscommon Customer Service Center	Lori Burford	989-275-5151 Ext. 2100	Burfordl@michigan.gov
Buyer	DNR Procurement Services	Lisa VanOstran	517-284-5975	vanostranl@michigan.gov

CONTRACT SUMMARY			
Description Sound assessment and analysis of potential shooting ranges in Michigan			
Initial Term Three years	Effective Date 03/01/2016	Initial Expiration Date 02/28/2019	Available Options 2 1-year options
Payment Terms Net 30 days	F.O.B N/A	Shipped N/A	Shipped From N/A
Alternate Payment Options <input type="checkbox"/> P-card <input type="checkbox"/> Direct Voucher (DV) <input type="checkbox"/> Other: _____		Available to MiDeal Participants <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Minimum Delivery Requirements N/A			
ESTIMATED CONTRACT VALUE AT TIME OF EXECUTION: \$350,000.00			



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THIS IS NOT AN ORDER: Orders for delivery will be issued directly by the Michigan Department of Natural Resources through the issuance of a Purchase Order Form.

All terms and conditions of the invitation to bid are made a part hereof.

FOR THE CONTRACTOR:

Siebein Associates, Inc.
 Firm Name

Gary W. Siebein
 Authorized Agent Signature

Gary W. Siebein
 Authorized Agent (Print or Type)

March 28, 2016

FOR THE STATE:

Laurie Gyorkos
 Signature

Laurie Gyorkos, Manager
 Name/Title

DNR Procurement
 Office

March 31, 2016

CONTRACT# 751B660012

Sound Assessment and Analysis of Potential Shooting Ranges in Michigan

EXHIBIT A STATEMENT OF WORK CONTRACT ACTIVITIES

1.0 Project Identification

1.01 Background/Project Description

The Michigan Department of Natural Resources (DNR) is seeking to grow shooting opportunities in the State by developing shooting opportunities on State lands while minimizing the impact shooting ranges have on neighboring properties. This is a Contract for sound measurement acoustical services and analysis to determine the best location to site the range(s) and improvements to the site to mitigate sound leaving.

The purpose of this Contract will be to better understand the level and intensity of sounds which emanate from proposed locations based upon both ambient sounds and a range of firearms. Locations will be determined by the DNR.

For the purpose of clarification throughout the Contract, a location is an area (perhaps a county) identified where options for a shooting range is being assessed. Sites are the actual sites (1-3) within the location where the testing will occur.

1.02 Contract Activities

1. Site Sound Assessment & Acoustical Services

The Contractor must perform a sound assessment and analysis at up to three site options per proposed range location as identified by the DNR to determine the recommended site location for a new shooting range/area and the best methods to reduce sound being emitted from shooting activities.

- a. Testing must be done to ASTM E1503-14 standards – Standard Test Method for Conduction Outdoor Sound Measurements Using a Digital Statistical Sound Analysis System.
- b. The DNR will issue a Purchase Order once a site has been identified.
- c. The dates of sound testing for each site will be mutually agreed upon by the DNR and the Contractor.
- d. The Contractor must measure sounds emanating when no firearm shooting is occurring (ambient) at the proposed locations at a minimum of 7 days in order to determine base sound levels and characteristics and when firearm shooting is occurring to determine sound levels from that activity.
- e. The following firearms may be used during the testing: Rifles, pistols, shotguns and semi-automatic.
- f. The proposed range will offer firearm activities associated from 25 yards, to 1,000 yards distances. The DNR will specify each range configuration as sites are identified.

- g. Conduct short term average sound level measurements of specific acoustic events that occur simultaneously at a minimum of four receiver locations approximately on the north, south, east and west axis and at ¼ mile, ½ mile, 1 mile and 2 mile distances (16 total receiver points), outside of the proposed shooting range sites or as recommended by the DNR.
- h. Testing may include the placement of sound equipment on private property. The DNR will coordinate permissions for access to property outside of state ownership.

The DNR will provide the following resources and information for each site/location which is being tested:

- a. Overview site maps consisting of DNR land ownership, road and trail information, recreational features such as campgrounds and boating access sites, municipal boundaries, wetlands and water features, land use and vegetation
- b. United States Geological Survey topographic maps
- c. Aerial photography
- d. Logistical planning and support for placement of receiver locations utilizing GPS coordinates
- e. Arranging and supplying shooters, fire arms and ammunition utilized during the test event
- f. Proposed range design criteria to be considered for each test including the number of firing stations, range distances, average number of shooters, use of berms and use of enclosed structures

2. Analysis

Data collected from each site should be analyzed, graphed and overlaid on site maps to identify sounds produced from shooting activities as compared to other non-shooting sounds and from the local environment. Additional evaluation shall consider specific conditions at the time of the sound measurement testing as outlined in ASTM E1503-14.

Variables to be considered in the analysis include:

- a. Comparisons of sound levels with criteria or local regulatory limits
- b. Comparisons of individual firearms measured during the test activities to the ambient sound levels (non-shooting or baseline sounds) to determine the magnitude of the gunfire sounds at the receiver locations
- c. Comparisons of multiple types of firearms and multiple shooters (typical day vs busy day) in simulated situations by combining the results of the testing period
- d. Evaluations of differences in sound levels relative to changes in the horizontal or vertical angle of gunfire
- e. Evaluations of the differences in sound levels relative to changes in the general orientation of the range and firing pattern
- f. Typical or average weather conditions, wind speed and direction and time of year that could impact test results
- g. Weather conditions and wind speed in simulated conditions of the other seasons outside of the testing period
- h. Review of other data, including but not limited to, data previously gathered for the DNR
- i. Construction of an acoustical model of the range and area topography for predicting sound in the community
- j. Validation of the model to create a predictive tool to assess the affect(s) of possible ranges (scenarios) and to make recommendations as it pertains to the construction and

modifications, including but not limited to: layout, shooting direction(s), berm heights, enclosures, use of acoustical construction materials, vegetation and other aspects to mitigate sound emanating from the range in order to minimize the affected outlying residential, recreational, business and school areas.

- k. Associated site maps that depict DNR land ownership, aerial photographs, adjacent land/property owners, roads and recreational features, showing the resulting effects of the shooting sounds with mitigation factors applied to range layouts with various shooting scenarios (mix of number of shooters and fire arm types). Graphed analysis depicting a scoring system that compares and evaluates multiple sites when looking to make a recommendation of a single site. The scoring system should be based upon the number of potential points of impact (adjacent land/property owners) at the various decibel ranges over various distances (1/4 mile, 1/2 mile, 1 mile and 2 miles) emanating from proposed range sites.

3. Report of Findings/Recommendations –

The final report must align with ASTM E1503-14 standards and include at a minimum the following items:

- a. Executive Summary
- b. Local environment and site specific information
- c. Problem statement and methodology used
- d. Staffing and qualifications
- e. Summary of findings
- f. Recommendation for the specific site best suited for range development
- g. Recommendations for shooting range configuration, construction or range modifications, including design and location information to allow decision making relative to incremental return on investment and overall practicality
- h. Cost-benefit justification (indicating where investments will produce the highest return)
- i. Conclusions and future actions
- j. Addendums – various relevant maps, charts and graphs from measurements and analysis

4. The DNR Project Manager may request the Contractor attend a public meeting to present their report and discuss the findings. The expectation is that project manager representing the Contractor would attend an evening meeting, up to 3 hours in length, where verbal and graphical information would be provided to the general public depicting the processes and recommendations outlined in the final report. Notification would be provided by the DNR at a minimum of 21 calendar days prior to the public meeting. The Contractor must submit a proposal which includes staff and travel costs (a form will be provided) for pre-approval at least 18 days prior to the meeting. The DNR Project Manager must review and approve in writing all costs associated with the meeting prior to the Contractor incurring any billable costs. The State will be basing the reimbursement costs on the State of Michigan's Standardized travel regulations which can be found for FY-16 at the following link. They are updated annually:

(http://michigan.gov/documents/dtmb/Travel_Rates_FY2016-FY2017_501356_7.pdf?20151201074211)

1.03 Out of Scope Activities

Services not included and considered out-of-scope under this Contract agreement shall include:

1. Providing firearms or handling or discharging firearms (as discharging of firearms will be performed by trained and qualified DNR staff during assessment).
2. Evaluating whether the range complies with any state, federal, or local law(s), regulation(s), ordinance(s), etc., or evaluating whether the range activities constitute a nuisance or interference with adjacent property uses, etc.

1.04 State Review, Acceptance and Testing Process and Criteria

The DNR Project Manager must receive and review the draft of the final report in the timeline as stated in section 4.01. The Project Manager must approve the drafts at 50% and 90% complete before Contractor may invoice per Exhibit C.

1.05 Final Acceptance

The DNR Project Manager will review the final report and upon review and acceptance the Contractor may submit the final invoice for payment.

2.0 Contractor Responsibilities

2.01 Transition - Reserved

2.02 Training - Reserved

2.03 Technical Support, Repairs and Maintenance - Reserved

3.0 Staffing

3.01 Contractor Representative - Reserved

3.02 Customer Service Toll-Free Number - Reserved

3.03 Technical Support, Repairs and Maintenance - Reserved

3.04 Project Manager/Key Personnel

The Contractor must appoint a Project Manager (Key Personnel) who will be directly responsible for the day-to-day operations of the Contract. The Project Manager must be specifically assigned to the State account, be knowledgeable on the contractual requirements, and respond to State inquiries within 24 hours.

The Contractor may not remove or assign a new Project Manager without the prior consent of the State. Prior consent is not required for reassignment for reasons beyond the Contractor's control, including illness, disability, death, leave of absence, personal emergency circumstances, resignation, or termination for cause. The State may request a résumé and conduct an interview before approving a change. The State may require a 30-calendar day training period for replacement personnel.

In the chart below the Contractor must provide the names and contact information for all Key Personnel assigned to this contract.

Key Personnel role/title	Name	Phone Number	Email Address
Project Manager	Gary Siebein	352-331-5111 x 16	gsiebein@siebeinacoustic.com
Principal in Charge	Gary Siebein	352-331-5111 x 16	gsiebein@siebeinacoustic.com
Computer Modeling/Consultant	Marylin Roa	352-331-5111 x 14	mroa@siebeinacoustic.com
Other staff to assist with project			
Consultant	Keely Siebein	352-331-5111 x 25	ksiebein@siebeinacoustic.com
Consultant	Jennifer Russell	352-331-5111 x 12	jrussell@siebeinacoustic.com
Technical Acoustic Specialist	Gary Siebein Jr.	352-331-5111 x 19	gary@siebeinacoustic.com
Junior Consultant	Bobby Smith	352-331-5111	rsmith@siebeinacoustic.com
Junior Consultant	Matthew Vetterick	352-331-5111	mvetterick@siebeinacoustic.com

The State has the right to recommend and approve in writing the initial assignment, as well as any proposed reassignment or replacement, of any Key Personnel. Before assigning an individual to any Key Personnel position, Contractor will notify the State of the proposed assignment, introduce the individual to the State's Project Manager, and provide the State with a resume and any other information about the individual reasonably requested by the State. The State reserves the right to interview the individual before granting written approval. In the event the State finds a proposed individual unacceptable, the State will provide a

written explanation including reasonable detail outlining the reasons for the rejection. The State may require a 30-calendar day training period for replacement personnel.

Contractor must not remove any Key Personnel from their assigned roles on this Contract without the prior written consent of the State. The Contractor's removal of Key Personnel without the prior written consent of the State is an unauthorized removal ("Unauthorized Removal"). An Unauthorized Removal does not include replacing Key Personnel for reasons beyond the reasonable control of Contractor, including illness, disability, leave of absence, personal emergency circumstances, resignation, or for cause termination of the Key Personnel's employment. Any Unauthorized Removal may be considered by the State to be a material breach of this Contract, in respect of which the State may elect to terminate this Contract for cause under Termination for Cause in the Standard Terms.

It is further acknowledged that an Unauthorized Removal will interfere with the timely and proper completion of this Contract, to the loss and damage of the State, and that it would be impracticable and extremely difficult to fix the actual damage sustained by the State as a result of any Unauthorized Removal. Therefore, Contractor and the State agree that in the case of any Unauthorized Removal in respect of which the State does not elect to exercise its rights under Termination for Cause, Contractor will issue to the State the corresponding credits set forth below (each, an "Unauthorized Removal Credit"):

The State is entitled to collect \$1,000 per individual per day, not to exceed \$25,000, for the removal of any Key Personnel without prior approval of the State.
 The State is entitled to collect \$1,000 per individual per day, not to exceed \$25,000, for an unapproved or untrained key personnel replacement.

3.05 Disclosure of Subcontractors

Subcontractor Information:

Name of Sub Contractor	Address	Telephone #	Type of Organization (sole proprietor, LLC, etc.)
Scherer Construction	2504 NW 71 Place, Gainesville, FL 32653	352-264-2268	Corporation

The Contractor must list the projects which the subcontractor has collaborated on and detail exactly what tasks/roles the subcontractor provided under the contract.

Project Name:	Campus USA Headquarters, Jonesville, Florida
Project Description:	Local bank headquarters building
Sub-contractor tasks:	Contractor for project
Date of Project:	2008-2009

The subcontractor will perform the following Contract Activities: serve as the estimator to determine pricing for the noise mitigation options for the sites.

Percent of work to be performed by the subcontractor: 7.8%

3.06 Security

The Contractor will be subject the following security procedures:

- Clearly identifying uniforms
- Name Badges

4.0 Project Management

4.01 Project Plan

DNR Timeline

Task	Due Date	Deliverable
Initial Project Phone Consultation	Within 7 calendar days of Purchase Order Issuance	
Conduct sound testing	Within 30 calendar days of Purchase Order Issuance	
Completion of 50% draft report	Within 30 calendar days of the completion of on-site testing	50% draft report
DNR Project Manager Review	Within 7-10 calendar days of receiving the report	Review, provide feedback on 50% draft
Completion of 90% draft report	Within 21 calendar days of receiving feedback on 50% draft	90% draft report
DNR Project Manager Review	Within 7-10 calendar days of receiving the report	Review, provide feedback on 90% draft
Complete final report	Within 14 calendar days of receiving feedback on 90% draft	Final report

4.02 Meetings

The Contractor must coordinate/attend the following meetings:

- a. Project initiation / kickoff for overall coordination (conference call)
- b. On-site testing
- c. Preliminary review of findings (conference call)
- d. Draft report reviews upon DNR receipt of 50 and 90% draft reports (conference call)
- e. Final report, findings and recommendations (conference call)
- f. Public meeting / presentation, as requested (on-site)

4.03 Reporting

The Contractor must submit, to the DNR Project Manager the following written reports:

Name of Report	Frequency of Report
Draft of final report	Within 30 calendar days of completing testing
Final report	Within 122 calendar days of purchase order award date

5.0 Pricing

5.01 Price Term

Pricing is firm for a 365 day period ("Pricing Period"). The first pricing period begins on the Effective Date. Adjustments may be requested, in writing, by either party and will take effect no earlier than the next Pricing Period.

Cost for the Contractor to attend public meetings must be preapproved by the DNR Project Manager.

5.02 Price Changes

Adjustments will be based on changes in actual Contractor costs. Any request must be supported by written evidence documenting the change in costs. The State may consider sources, such as the Consumer Price

Index; Producer Price Index; other pricing indices as needed; economic and industry data; manufacturer or supplier letters noting the increase in pricing; and any other data the State deems relevant.

Following the presentation of supporting documentation, both parties will have 30 days to review the information and prepare a written response. If the review reveals no need for modifications, pricing will remain unchanged unless mutually agreed to by the parties. If the review reveals that changes are needed, both parties will negotiate such changes, for no longer than 30 days, unless extended by mutual agreement.

The Contractor remains responsible for Contract Activities at the current price for all orders received before the mutual execution of a Change Notice indicating the start date of the new Pricing Period.

6.0 Ordering

6.01 Authorizing Document

The state shall authorize and commit to the contractor by issuance of the following: Purchase Order.

7.0 Invoice and Payment

7.01 Invoice Requirements

All invoices submitted to the State must include: (a) date; (b) purchase order; (c) description of the Contract Activities; (d) unit price; and (e) total price. The Contractor may bill upon acceptance of the Final Report.

7.02 Payment Methods

The State will process payment for services completed in the following manner:

- Payment against an existing Purchase Order



STATE OF MICHIGAN

STANDARD CONTRACT TERMS

This STANDARD CONTRACT (“**Contract**”) is agreed to between the State of Michigan (the “**State**”) and Siebein Associates, Inc. (“**Contractor**”). This Contract is effective on February 15, 2016 (“**Effective Date**”), and unless terminated, expires on February 14, 2019.

This Contract may be renewed for up to two (2) additional one (1) year period(s). Renewal must be by written agreement of the parties and will automatically extend the Term of this Contract.

The parties agree as follows:

- 1. Duties of Contractor.** Contractor must perform the services and provide the deliverables described in **Exhibit A – Statement of Work** (the “**Contract Activities**”). An obligation to provide delivery of any commodity is considered a service and is a Contract Activity.

Contractor must furnish all labor, equipment, materials, and supplies necessary for the performance of the Contract Activities, and meet operational standards, unless otherwise specified in Exhibit A.

Contractor must: (a) perform the Contract Activities in a timely, professional, safe, and workmanlike manner consistent with standards in the trade, profession, or industry; (b) meet or exceed the performance and operational standards, and specifications of the Contract; (c) provide all Contract Activities in good quality, with no material defects; (d) not interfere with the State’s operations; (e) obtain and maintain all necessary licenses, permits or other authorizations necessary for the performance of the Contract; (f) cooperate with the State, including the State’s quality assurance personnel, and any third party to achieve the objectives of the Contract; (g) return to the State any State-furnished equipment or other resources in the same condition as when provided when no longer required for the Contract; (h) not make any media releases without prior written authorization from the State; (i) assign to the State any claims resulting from state or federal antitrust violations to the extent that those violations concern materials or services supplied by third parties toward fulfillment of the Contract; (j) comply with all State physical and IT security policies and standards which will be made available upon request; and (k) provide the State priority in performance of the Contract except as mandated by federal disaster response requirements. Any breach under this paragraph is considered a material breach.

Contractor must also be clearly identifiable while on State property by wearing identification issued by the State, and clearly identify themselves whenever making contact with the State.

- 2. Notices.** All notices and other communications required or permitted under this Contract must be in writing and will be considered given and received: (a) when verified by written receipt if sent by courier; (b) when actually received if sent by mail without verification of receipt; or (c) when verified by automated receipt or electronic logs if sent by facsimile or email.

If to State: Lisa VanOstran, Buyer 525 W. Allegan St Lansing, MI 48933 vanostran@michigan.gov (517) 284-5975	If to Contractor: Gary W. Siebein Siebein Associates, Inc. 625 NW 60 th Street, Suite C Gainesville, FL 32607 gsiebein@siebeinacoustic.com 352-331-5111 x 16
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3. **Contract Administrator.** The Contract Administrator for each party is the only person authorized to modify any terms of this Contract, and approve and execute any change under this Contract (each a “**Contract Administrator**”):

State: Lisa VanOstran, Buyer 525 W. Allegan St Lansing, MI 48933 vanostran@michigan.gov (517) 284-5975	Contractor: Gary W. Siebein Siebein Associates, Inc. 625 NW 60 th Street, Suite C Gainesville, FL 32607 gsiebein@siebeinacoustic.com 352-331-5111 x 16
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4. **Program Manager.** The Program Manager for each party will monitor and coordinate the day-to-day activities of the Contract (each a “**Program Manager**”):

State: Lori Burford 8717 N. Roscommon Rd. Roscommon, MI 48653 burford@michigan.gov 989-275-5151 Ext. 2100	Contractor: Gary W. Siebein Siebein Associates, Inc. 625 NW 60 th Street, Suite C Gainesville, FL 32607 gsiebein@siebeinacoustic.com 352-331-5111 x 16
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5. **Performance Guarantee.** Contractor must at all times have financial resources sufficient, in the opinion of the State, to ensure performance of the Contract and must provide proof upon request. The State may require a performance bond (as specified in Exhibit A) if, in the opinion of the State, it will ensure performance of the Contract.

6. **Insurance Requirements.** Contractor must maintain the insurances identified below and is responsible for all deductibles. All required insurance must: (a) protect the State from claims that may arise out of, are alleged to arise out of, or result from Contractor's or a subcontractor's performance; (b) be primary and non-contributing to any comparable liability insurance (including self-insurance) carried by the State; and (c) be provided by a company with an A.M. Best rating of "A" or better, and a financial size of VII or better.

7.

Required Limits	Additional Requirements
Commercial General Liability Insurance	
<u>Minimal Limits:</u> \$2,000,000 Each Occurrence Limit \$2,000,000 Personal & Advertising Injury Limit \$2,000,000 General Aggregate Limit \$2,000,000 Products/Completed Operations <u>Deductible Maximum:</u> \$50,000 Each Occurrence	Contractor must have their policy endorsed to add “the State of Michigan, its departments, divisions, agencies, offices, commissions, officers, employees, and agents” as additional insureds using endorsement CG 20 10 11 85, or both CG 2010 07 04 and CG 2037 07 0.
Automobile Liability Insurance	
<u>Minimal Limits:</u> \$1,000,000 Per Occurrence	Contractor must have their policy: (1) endorsed to add “the State of Michigan, its departments, divisions, agencies, offices, commissions, officers, employees, and agents” as additional insureds; and (2) include Hired and Non-Owned Automobile coverage.
Workers' Compensation Insurance	
<u>Minimal Limits:</u>	Waiver of subrogation, except where waiver

Coverage according to applicable laws governing work activities.	is prohibited by law.
Employers Liability Insurance	
<u>Minimal Limits:</u> \$500,000 Each Accident \$500,000 Each Employee by Disease \$500,000 Aggregate Disease.	

Professional Liability (Errors and Omissions) Insurance	
<u>Minimal Limits:</u> \$2,000,000 Each Occurrence \$2,000,000 Annual Aggregate <u>Deductible Maximum:</u> \$50,000 Per Loss	

If any of the required policies provide **claims-made** coverage, the Contractor must: (a) provide coverage with a retroactive date before the effective date of the contract or the beginning of Contract Activities; (b) maintain coverage and provide evidence of coverage for at least three (3) years after completion of the Contract Activities; and (c) if coverage is canceled or not renewed, and not replaced with another claims-made policy form with a retroactive date prior to the contract effective date, Contractor must purchase extended reporting coverage for a minimum of three (3) years after completion of work.

Contractor must: (a) provide insurance certificates to the Contract Administrator, containing the agreement or purchase order number, at Contract formation and within 20 calendar days of the expiration date of the applicable policies; (b) require that subcontractors maintain the required insurances contained in this Section; (c) notify the Contract Administrator within 5 business days if any insurance is cancelled; and (d) waive all rights against the State for damages covered by insurance. Failure to maintain the required insurance does not limit this waiver.

This Section is not intended to and is not be construed in any manner as waiving, restricting or limiting the liability of either party for any obligations under this Contract (including any provisions hereof requiring Contractor to indemnify, defend and hold harmless the State).

8. Reserved.

9. Reserved.

10. Independent Contractor. Contractor is an independent contractor and assumes all rights, obligations and liabilities set forth in this Contract. Contractor, its employees, and agents will not be considered employees of the State. No partnership or joint venture relationship is created by virtue of this Contract. Contractor, and not the State, is responsible for the payment of wages, benefits and taxes of Contractor's employees and any subcontractors. Prior performance does not modify Contractor's status as an independent contractor. Contractor hereby acknowledges that the State is and will be the sole and exclusive owner of all right, title, and interest in the Contract Activities and all associated intellectual property rights, if any. Such Contract Activities are works made for hire as defined in Section 101 of the Copyright Act of 1976. To the extent any Contract Activities and related intellectual property do not qualify as works made for hire under the Copyright Act, Contractor will, and hereby does, immediately on its creation, assign, transfer and otherwise convey to the State, irrevocably and in perpetuity, throughout the universe, all right, title and interest in and to the Contract Activities, including all intellectual property rights therein.

11. Subcontracting. Contractor may not delegate any of its obligations under the Contract without the prior written approval of the State. Contractor must notify the State at least 90 calendar days before the proposed delegation, and provide the State any information it requests to determine whether the delegation is in its best interest. If approved, Contractor must: (a) be the sole point of contact regarding

all contractual matters, including payment and charges for all Contract Activities; (b) make all payments to the subcontractor; and (c) incorporate the terms and conditions contained in this Contract in any subcontract with a subcontractor. Contractor remains responsible for the completion of the Contract Activities, compliance with the terms of this Contract, and the acts and omissions of the subcontractor. The State, in its sole discretion, may require the replacement of any subcontractor.

12. **Staffing.** The State's Contract Administrator may require Contractor to remove or reassign personnel by providing a notice to Contractor.
13. **Background Checks.** Upon request, Contractor must perform background checks on all employees and subcontractors and its employees prior to their assignment. The scope is at the discretion of the State and documentation must be provided as requested. Contractor is responsible for all costs associated with the requested background checks. The State, in its sole discretion, may also perform background checks.
14. **Assignment.** Contractor may not assign this Contract to any other party without the prior approval of the State. Upon notice to Contractor, the State, in its sole discretion, may assign in whole or in part, its rights or responsibilities under this Contract to any other party. If the State determines that a novation of the Contract to a third party is necessary, Contractor will agree to the novation and provide all necessary documentation and signatures.
15. **Change of Control.** Contractor will notify, at least 90 calendar days before the effective date, the State of a change in Contractor's organizational structure or ownership. For purposes of this Contract, a change in control means any of the following: (a) a sale of more than 50% of Contractor's stock; (b) a sale of substantially all of Contractor's assets; (c) a change in a majority of Contractor's board members; (d) consummation of a merger or consolidation of Contractor with any other entity; (e) a change in ownership through a transaction or series of transactions; (f) or the board (or the stockholders) approves a plan of complete liquidation. A change of control does not include any consolidation or merger effected exclusively to change the domicile of Contractor, or any transaction or series of transactions principally for bona fide equity financing purposes.

In the event of a change of control, Contractor must require the successor to assume this Contract and all of its obligations under this Contract.

16. **Ordering.** Contractor is not authorized to begin performance until receipt of authorization as identified in Exhibit A.
17. **Acceptance.** Contract Activities are subject to inspection and testing by the State within 30 calendar days of the State's receipt of them ("**State Review Period**"), unless otherwise provided in Exhibit A. If the Contract Activities are not fully accepted by the State, the State will notify Contractor by the end of the State Review Period that either: (a) the Contract Activities are accepted, but noted deficiencies must be corrected; or (b) the Contract Activities are rejected. If the State finds material deficiencies, it may: (i) reject the Contract Activities without performing any further inspections; (ii) demand performance at no additional cost; or (iii) terminate this Contract in accordance with Section 24, Termination for Cause.

Within 10 business days from the date of Contractor's receipt of notification of acceptance with deficiencies or rejection of any Contract Activities, Contractor must cure, at no additional cost, the deficiency and deliver unequivocally acceptable Contract Activities to the State. If acceptance with deficiencies or rejection of the Contract Activities impacts the content or delivery of other non-completed Contract Activities, the parties' respective Program Managers must determine an agreed to number of days for re-submission that minimizes the overall impact to the Contract. However, nothing herein affects, alters, or relieves Contractor of its obligations to correct deficiencies in accordance with the time response standards set forth in this Contract.

If Contractor is unable or refuses to correct the deficiency within the time response standards set forth in this Contract, the State may cancel the order in whole or in part. The State, or a third party identified by the State, may perform the Contract Activities and recover the difference between the cost to cure and the Contract price plus an additional 10% administrative fee.

18. **Reserved.**

19. **Reserved.**

20. Reserved.

- 21. Terms of Payment.** Invoices must conform to the requirements communicated from time-to-time by the State. All undisputed amounts are payable within 45 days of the State's receipt. Contractor may only charge for Contract Activities performed as specified in Exhibit A. Invoices must include an itemized statement of all charges. The State is exempt from State sales tax for direct purchases and may be exempt from federal excise tax, if Services purchased under this Agreement are for the State's exclusive use. Notwithstanding the foregoing, all prices are inclusive of taxes, and Contractor is responsible for all sales, use and excise taxes, and any other similar taxes, duties and charges of any kind imposed by any federal, state, or local governmental entity on any amounts payable by the State under this Contract.

The State has the right to withhold payment of any disputed amounts until the parties agree as to the validity of the disputed amount. The State will notify Contractor of any dispute within a reasonable time. Payment by the State will not constitute a waiver of any rights as to Contractor's continuing obligations, including claims for deficiencies or substandard Contract Activities. Contractor's acceptance of final payment by the State constitutes a waiver of all claims by Contractor against the State for payment under this Contract, other than those claims previously filed in writing on a timely basis and still disputed.

The State will only disburse payments under this Contract through Electronic Funds Transfer (EFT). Contractor must register with the State at <http://www.michigan.gov/cpexpress> to receive electronic fund transfer payments. If Contractor does not register, the State is not liable for failure to provide payment. Without prejudice to any other right or remedy it may have, the State reserves the right to set off at any time any amount then due and owing to it by Contractor against any amount payable by the State to Contractor under this Contract.

22. Reserved.

- 23. Stop Work Order.** The State may suspend any or all activities under the Contract at any time. The State will provide Contractor a written stop work order detailing the suspension. Contractor must comply with the stop work order upon receipt. Within 90 calendar days, or any longer period agreed to by Contractor, the State will either: (a) issue a notice authorizing Contractor to resume work, or (b) terminate the Contract or purchase order. The State will not pay for Contract Activities; Contractor's lost profits, or any additional compensation during a stop work period.

- 24. Termination for Cause.** The State may terminate this Contract for cause, in whole or in part, if Contractor, as determined by the State: (a) endangers the value, integrity, or security of any location, data, or personnel; (b) becomes insolvent, petitions for bankruptcy court proceedings, or has an involuntary bankruptcy proceeding filed against it by any creditor; (c) engages in any conduct that may expose the State to liability; (d) breaches any of its material duties or obligations; or (e) fails to cure a breach within the time stated in a notice of breach. Any reference to specific breaches being material breaches within this Contract will not be construed to mean that other breaches are not material.

If the State terminates this Contract under this Section, the State will issue a termination notice specifying whether Contractor must: (a) cease performance immediately, or (b) continue to perform for a specified period. If it is later determined that Contractor was not in breach of the Contract, the termination will be deemed to have been a Termination for Convenience, effective as of the same date, and the rights and obligations of the parties will be limited to those provided in Section 24, Termination for Convenience.

The State will only pay for amounts due to Contractor for Contract Activities accepted by the State on or before the date of termination, subject to the State's right to set off any amounts owed by the Contractor for the State's reasonable costs in terminating this Contract. The Contractor must pay all reasonable costs incurred by the State in terminating this Contract for cause, including administrative costs, attorneys' fees, court costs, transition costs, and any costs the State incurs to procure the Contract Activities from other sources.

- 25. Termination for Convenience.** The State may immediately terminate this Contract in whole or in part without penalty and for any reason, including but not limited to, appropriation or budget shortfalls. The termination notice will specify whether Contractor must: (a) cease performance of the Contract Activities

immediately, or (b) continue to perform the Contract Activities in accordance with Section 26, Transition Responsibilities. If the State terminates this Contract for convenience, the State will pay all reasonable costs, as determined by the State, for State approved Transition Responsibilities.

- 26. Transition Responsibilities.** Upon termination or expiration of this Contract for any reason, Contractor must, for a period of time specified by the State (not to exceed 45 calendar days), provide all reasonable transition assistance requested by the State, to allow for the expired or terminated portion of the Contract Activities to continue without interruption or adverse effect, and to facilitate the orderly transfer of such Contract Activities to the State or its designees. Such transition assistance may include, but is not limited to: (a) continuing to perform the Contract Activities at the established Contract rates; (b) taking all reasonable and necessary measures to transition performance of the work, including all applicable Contract Activities, training, equipment, software, leases, reports and other documentation, to the State or the State's designee; (c) taking all necessary and appropriate steps, or such other action as the State may direct, to preserve, maintain, protect, or return to the State all materials, data, property, and confidential information provided directly or indirectly to Contractor by any entity, agent, vendor, or employee of the State; (d) transferring title in and delivering to the State, at the State's discretion, all completed or partially completed deliverables prepared under this Contract as of the Contract termination date; and (e) preparing an accurate accounting from which the State and Contractor may reconcile all outstanding accounts (collectively, "**Transition Responsibilities**"). This Contract will automatically be extended through the end of the transition period.
- 27. General Indemnification.** Contractor must reimburse for defense costs; indemnify and hold the State, its departments, divisions, agencies, offices, commissions, officers, and employees harmless, without limitation, from and against any and all actions, claims, losses, liabilities, damages, costs, attorney fees, and expenses (including those required to establish the right to indemnification), arising out of or relating to: (a) any breach by Contractor (or any of Contractor's employees, agents, subcontractors, or by anyone else for whose acts any of them may be liable) of any of the promises, agreements, representations, warranties, or insurance requirements contained in this Contract; (b) any infringement, misappropriation, or other violation of any intellectual property right or other right of any third party; (c) any bodily injury, death, or damage to real or tangible personal property occurring wholly or in part due to action or inaction by Contractor (or any of Contractor's employees, agents, subcontractors, or by anyone else for whose acts any of them may be liable); and (d) any negligent acts or omissions of Contractor (or any of Contractor's employees, agents, subcontractors, or by anyone else for whose acts any of them may be liable). The State is entitled to direct and control its defense and any settlement of any action or claim, the reasonable costs for which shall be borne by the Contractor.
- The State will notify Contractor in writing if indemnification is sought; however, failure to do so will not relieve Contractor, except to the extent that Contractor is materially prejudiced. Contractor must, to the satisfaction of the State, demonstrate its financial ability to carry out these obligations.
- 28. Infringement Remedies.** If, in either party's opinion, any piece of equipment, software, commodity, or service supplied by Contractor or its subcontractors, or its operation, use or reproduction, is likely to become the subject of a copyright, patent, trademark, or trade secret infringement claim, Contractor must, at its expense: (a) procure for the State the right to continue using the equipment, software, commodity, or service, or if this option is not reasonably available to Contractor, (b) replace or modify the same so that it becomes non-infringing; or (c) accept its return by the State with appropriate credits to the State against Contractor's charges and reimburse the State for any losses or costs incurred as a consequence of the State ceasing its use and returning it.
- 29. Limitation of Liability.** The State is not liable for consequential, incidental, indirect, or special damages, regardless of the nature of the action.
- 30. Disclosure of Litigation, or Other Proceeding.** Contractor must notify the State within 14 calendar days of receiving notice of any litigation, investigation, arbitration, or other proceeding (collectively, "**Proceeding**") involving Contractor, a subcontractor, or an officer or director of Contractor or subcontractor, that arises during the term of the Contract, including: (a) a criminal Proceeding; (b) a parole or probation Proceeding; (c) a Proceeding under the Sarbanes-Oxley Act; (d) a civil Proceeding involving: (1) a claim that might reasonably be expected to adversely affect Contractor's viability or financial stability; or (2) a governmental or public entity's claim or written allegation of fraud; or (e) a Proceeding involving any license that Contractor is required to possess in order to perform under this Contract.

31. **State Data.** All data and information provided to Contractor by or on behalf of the State, and all data and information derived therefrom, is the exclusive property of the State ("**State Data**"); this definition is to be construed as broadly as possible. Upon request, Contractor must provide to the State, or a third party designated by the State, all State Data within 10 calendar days of the request and in the format requested by the State. Contractor will assume all costs incurred in compiling and supplying State Data. No State Data may be used for any marketing purposes.
32. **Non-Disclosure of Confidential Information.** The parties acknowledge that each party may be exposed to or acquire communication or data of the other party that is confidential, privileged communication not intended to be disclosed to third parties. The provisions of this Section survive the termination of this Contract.
- a. **Meaning of Confidential Information.** For the purposes of this Contract, the term "**Confidential Information**" means all information and documentation of a party that: (a) has been marked "confidential" or with words of similar meaning, at the time of disclosure by such party; (b) if disclosed orally or not marked "confidential" or with words of similar meaning, was subsequently summarized in writing by the disclosing party and marked "confidential" or with words of similar meaning; and, (c) should reasonably be recognized as confidential information of the disclosing party. The term "Confidential Information" does not include any information or documentation that was: (a) subject to disclosure under the Michigan Freedom of Information Act (FOIA); (b) already in the possession of the receiving party without an obligation of confidentiality; (c) developed independently by the receiving party, as demonstrated by the receiving party, without violating the disclosing party's proprietary rights; (d) obtained from a source other than the disclosing party without an obligation of confidentiality; or, (e) publicly available when received, or thereafter became publicly available (other than through any unauthorized disclosure by, through, or on behalf of, the receiving party). For purposes of this Contract, in all cases and for all matters, State Data is deemed to be Confidential Information.
 - b. **Obligation of Confidentiality.** The parties agree to hold all Confidential Information in strict confidence and not to copy, reproduce, sell, transfer, or otherwise dispose of, give or disclose such Confidential Information to third parties other than employees, agents, or subcontractors of a party who have a need to know in connection with this Contract or to use such Confidential Information for any purposes whatsoever other than the performance of this Contract. The parties agree to advise and require their respective employees, agents, and subcontractors of their obligations to keep all Confidential Information confidential. Disclosure to a subcontractor is permissible where: (a) use of a subcontractor is authorized under this Contract; (b) the disclosure is necessary or otherwise naturally occurs in connection with work that is within the subcontractor's responsibilities; and (c) Contractor obligates the subcontractor in a written contract to maintain the State's Confidential Information in confidence. At the State's request, any employee of Contractor or any subcontractor may be required to execute a separate agreement to be bound by the provisions of this Section.
 - c. **Cooperation to Prevent Disclosure of Confidential Information.** Each party must use its best efforts to assist the other party in identifying and preventing any unauthorized use or disclosure of any Confidential Information. Without limiting the foregoing, each party must advise the other party immediately in the event either party learns or has reason to believe that any person who has had access to Confidential Information has violated or intends to violate the terms of this Contract and each party will cooperate with the other party in seeking injunctive or other equitable relief against any such person.
 - d. **Remedies for Breach of Obligation of Confidentiality.** Each party acknowledges that breach of its obligation of confidentiality may give rise to irreparable injury to the other party, which damage may be inadequately compensable in the form of monetary damages. Accordingly, a party may seek and obtain injunctive relief against the breach or threatened breach of the foregoing undertakings, in addition to any other legal remedies which may be available, to include, in the case of the State, at the sole election of the State, the immediate termination, without liability to the State, of this Contract or any Statement of Work corresponding to the breach or threatened breach.

- e. Surrender of Confidential Information upon Termination. Upon termination of this Contract or a Statement of Work, in whole or in part, each party must, within 5 calendar days from the date of termination, return to the other party any and all Confidential Information received from the other party, or created or received by a party on behalf of the other party, which are in such party's possession, custody, or control; provided, however, that Contractor must return State Data to the State following the timeframe and procedure described further in this Contract. Should Contractor or the State determine that the return of any Confidential Information is not feasible; such party must destroy the Confidential Information and must certify the same in writing within 5 calendar days from the date of termination to the other party.

33. **Reserved.**

34. **Reserved.**

35. **Reserved.**

36. **Records Maintenance, Inspection, Examination, and Audit.** The State or its designee may audit Contractor to verify compliance with this Contract. Contractor must retain, and provide to the State or its designee and the auditor general upon request, all financial and accounting records related to the Contract through the term of the Contract and for 4 years after the latter of termination, expiration, or final payment under this Contract or any extension ("**Audit Period**"). If an audit, litigation, or other action involving the records is initiated before the end of the Audit Period, Contractor must retain the records until all issues are resolved.

Within 10 calendar days of providing notice, the State and its authorized representatives or designees have the right to enter and inspect Contractor's premises or any other places where Contract Activities are being performed, and examine, copy, and audit all records related to this Contract. Contractor must cooperate and provide reasonable assistance. If any financial errors are revealed, the amount in error must be reflected as a credit or debit on subsequent invoices until the amount is paid or refunded. Any remaining balance at the end of the Contract must be paid or refunded within 45 calendar days.

This Section applies to Contractor, any parent, affiliate, or subsidiary organization of Contractor, and any subcontractor that performs Contract Activities in connection with this Contract.

37. **Warranties and Representations.** Contractor represents and warrants: (a) Contractor is the owner or licensee of any Contract Activities that it licenses, sells, or develops and Contractor has the rights necessary to convey title, ownership rights, or licensed use; (b) all Contract Activities are delivered free from any security interest, lien, or encumbrance and will continue in that respect; (c) the Contract Activities will not infringe the patent, trademark, copyright, trade secret, or other proprietary rights of any third party; (d) Contractor must assign or otherwise transfer to the State or its designee any manufacturer's warranty for the Contract Activities; (e) the Contract Activities are merchantable and fit for the specific purposes identified in the Contract; (f) the Contract signatory has the authority to enter into this Contract; (g) all information furnished by Contractor in connection with the Contract fairly and accurately represents Contractor's business, properties, finances, and operations as of the dates covered by the information, and Contractor will inform the State of any material adverse changes; and (h) all information furnished and representations made in connection with the award of this Contract is true, accurate, and complete, and contains no false statements or omits any fact that would make the information misleading. A breach of this Section is considered a material breach of this Contract, which entitles the State to terminate this Contract under Section 24, Termination for Cause.

38. **Conflicts and Ethics.** Contractor will uphold high ethical standards and is prohibited from: (a) holding or acquiring an interest that would conflict with this Contract; (b) doing anything that creates an appearance of impropriety with respect to the award or performance of the Contract; (c) attempting to influence or appearing to influence any State employee by the direct or indirect offer of anything of value; or (d) paying or agreeing to pay any person, other than employees and consultants working for Contractor, any consideration contingent upon the award of the Contract. Contractor must immediately notify the State of any violation or potential violation of these standards. This Section applies to Contractor, any parent, affiliate, or subsidiary organization of Contractor, and any subcontractor that performs Contract Activities in connection with this Contract.

39. **Compliance with Laws.** Contractor must comply with all federal, state and local laws, rules and regulations.
40. **Reserved.**
41. **Reserved.**
42. **Nondiscrimination.** Under the Elliott-Larsen Civil Rights Act, 1976 PA 453, MCL 37.2101, *et seq.*, and the Persons with Disabilities Civil Rights Act, 1976 PA 220, MCL 37.1101, *et seq.*, Contractor and its subcontractors agree not to discriminate against an employee or applicant for employment with respect to hire, tenure, terms, conditions, or privileges of employment, or a matter directly or indirectly related to employment, because of race, color, religion, national origin, age, sex, height, weight, marital status, or mental or physical disability. Breach of this covenant is a material breach of this Contract.
43. **Unfair Labor Practice.** Under MCL 423.324, the State may void any Contract with a Contractor or subcontractor who appears on the Unfair Labor Practice register compiled under MCL 423.322.
44. **Governing Law.** This Contract is governed, construed, and enforced in accordance with Michigan law, excluding choice-of-law principles, and all claims relating to or arising out of this Contract are governed by Michigan law, excluding choice-of-law principles. Any dispute arising from this Contract must be resolved in Michigan Court of Claims. Contractor consents to venue in Ingham County, and waives any objections, such as lack of personal jurisdiction or *forum non conveniens*. Contractor must appoint agents in Michigan to receive service of process.
45. **Non-Exclusivity.** Nothing contained in this Contract is intended nor will be construed as creating any requirements contract with Contractor. This Contract does not restrict the State or its agencies from acquiring similar, equal, or like Contract Activities from other sources.
46. **Force Majeure.** Neither party will be in breach of this Contract because of any failure arising from any disaster or acts of god that are beyond their control and without their fault or negligence. Each party will use commercially reasonable efforts to resume performance. Contractor will not be relieved of a breach or delay caused by its subcontractors. If immediate performance is necessary to ensure public health and safety, the State may immediately contract with a third party.
47. **Dispute Resolution.** The parties will endeavor to resolve any Contract dispute in accordance with this provision. The dispute will be referred to the parties' respective Contract Administrators or Program Managers. Such referral must include a description of the issues and all supporting documentation. The parties must submit the dispute to a senior executive if unable to resolve the dispute within 15 business days. The parties will continue performing while a dispute is being resolved, unless the dispute precludes performance. A dispute involving payment does not preclude performance.
- Litigation to resolve the dispute will not be instituted until after the dispute has been elevated to the parties' senior executive and either concludes that resolution is unlikely, or fails to respond within 15 business days. The parties are not prohibited from instituting formal proceedings: (a) to avoid the expiration of statute of limitations period; (b) to preserve a superior position with respect to creditors; or (c) where a party makes a determination that a temporary restraining order or other injunctive relief is the only adequate remedy. This Section does not limit the State's right to terminate the Contract.
48. **Media Releases.** News releases (including promotional literature and commercial advertisements) pertaining to the Contract or project to which it relates must not be made without prior written State approval, and then only in accordance with the explicit written instructions of the State.
49. **Website Incorporation.** The State is not bound by any content on Contractor's website unless expressly incorporated directly into this Contract.
50. **Order of Precedence.** In the event of a conflict between the terms and conditions of the Contract, the exhibits, a purchase order, or an amendment, the order of precedence is: (a) the purchase order; (b) the amendment; (c) Exhibit A; (d) any other exhibits; and (e) the Contract.
51. **Severability.** If any part of this Contract is held invalid or unenforceable, by any court of competent jurisdiction, that part will be deemed deleted from this Contract and the severed part will be replaced by

agreed upon language that achieves the same or similar objectives. The remaining Contract will continue in full force and effect.

52. **Waiver.** Failure to enforce any provision of this Contract will not constitute a waiver.
53. **Survival.** The provisions of this Contract that impose continuing obligations, including warranties and representations, termination, transition, insurance coverage, indemnification, and confidentiality, will survive the expiration or termination of this Contract.
54. **Entire Contract and Modification.** This Contract is the entire agreement and replaces all previous agreements between the parties for the Contract Activities. This Contract may not be amended except by signed agreement between the parties (a "**Contract Change Notice**").

CONTRACT# 751B6600012

Sound Assessment and Analysis of Potential Shooting Ranges in Michigan

EXHIBIT C PRICING

Each testing location will be a lump sum cost to be priced based on the region the location falls within and the number of sites tested at the location. The information provided below will support the lump sum amount.

	Cost for Testing of 1 site	Cost for Testing of 2 sites	Cost for Testing of 3 sites
Region 1	\$50,557	\$56,859	\$63,011
Region 2	\$50,622	\$56,869	\$62,926
Region 3	\$49,997	\$56,299	\$62,451
Region 4	\$49,797	\$56,099	\$62,251

The data below is provided as support for these lump sum figures.

3
Sound Assessment of Potential Shooting Range Sites **BASE PROPOSAL - REGION 1 - 3 SITES**
 Region 1, Michigan

PERSON HOUR AND COST ESTIMATE

TASK	Senior		Associate		Consultant		SUBTOTALS		Michigan Trip
	Principal	Principal	Principal	Principal	Consultant	Consultant	Consultant	Consultant	
TASK 1 Site visit, measurements and initial meeting									
Travel		4				9		9	\$ 740 Airfare
Site visit and project meeting		8				8		8	\$ 600 Hotel
									\$ 120 Rental car & gas
									\$ 220 Meals
									\$ 100 Printing
Prepare for trip		2				9		9	\$ 750 Shipping and excess baggage
Contract and Draft study plan		4				2		4	\$ 15 Airport parking
Measurements		2				2		2	\$ 20 Mileage
									\$ 7,694 Travel for 3 people
		24				24		24	

Person hours Totals 44 0 52 54
 Hourly rate \$ 250 \$ 175 \$ 80 \$ 85
Estimated cost \$ 11,000 \$ 0 \$ 4,160 \$ 3,510 \$ 18,670
Reimbursables \$ 7,694

PERSON HOUR AND COST ESTIMATE

TASK	Senior		Associate		Consultant		SUBTOTALS		Michigan Trip
	Principal	Principal	Principal	Principal	Consultant	Consultant	Consultant	Consultant	
TASK 2 Site visit, measurements and pick up meters									
Travel								9	\$ 740 Airfare
Site visit and project meeting								12	\$ 150 Hotel
Travel								9	\$ 120 Rental car & gas
Prepare for trip		1						1	\$ 88 Meals
									\$ 500 Extra shipping
									\$ 15 Airport parking
									\$ 20 Mileage
									\$ 1,633 Travel for 1 person

Person hours Totals 1 0 0 31
 Hourly rate \$ 250 \$ 175 \$ 80 \$ 65
Estimated cost \$ 250 \$ 0 \$ 0 \$ 2,015 \$ 2,265
Reimbursables \$ 1,633

3 Data analysis, computer model & report

TASK	Senior		Associate		Consultant		SUBTOTALS		Reimbursables
	Principal	Principal	Principal	Principal	Consultant	Consultant	Consultant	Consultant	
Download and print data		2						2	Airfare
Data analysis		2						2	Hotel
Computer modeling		2						2	Rental car & gas
Noise mitigation design and optimization		2						2	Meals
Design recs and coordination		2						2	\$ 500 Printing
Report		2						2	\$ 5,000 Cost consultant
Review meetings with client		2						2	Airport parking
Revisions		2						2	Mileage
Report		2						2	\$ 5,300 Costs for Printing and Cost Consultant

Person hours Totals 16 30 169 72
 Hourly rate \$ 250 \$ 175 \$ 80 \$ 65
Estimated cost \$ 4,000 \$ 5,250 \$ 13,520 \$ 4,680 \$ 27,450
Reimbursables \$ 5,300

Sieben Associates, Inc.

TOTAL FEES + REIMBURSABLES

\$ 63,011

Sound Assessment of Potential Shooting Range Sites

Region 1, Michigan

REGION 1 - 2 SITES

PERSON HOUR AND COST ESTIMATE

	Senior		Associate		Consultant		SUBTOTALS	
	Principal	Principal	Principal	Principal	Consultant	Consultant	Consultant	Consultant
TASK 1 Site visit, measurements and initial meeting								
Travel			4		9		9	9
Site visit and project meeting			8		8		8	8
Travel			2		9		9	9
Prepare for trip			4		2		4	4
Contract and Draft study plan			2					
Measurements			16		16		16	16
Person Hours Totals			36		0		44	46
Hourly rate			\$ 250		\$ 175		\$ 80	\$ 65
Estimated cost			\$ 9,000		\$ 0		\$ 3,520	\$ 2,990
								\$ 15,510
								\$ 7,052 Reimbursables
								\$ 22,562

Michigan trip

- \$ 740 Airfare
- \$ 450 Hotel
- \$ 700 Rental car & gas
- \$ 176 Meals
- \$ 750 Shipping and excess baggage
- \$ 15 Airport parking
- \$ 20 Mileage

\$ 7,052 Travel for 3 people

PERSON HOUR AND COST ESTIMATE

	Senior		Associate		Consultant		SUBTOTALS	
	Principal	Principal	Principal	Principal	Consultant	Consultant	Consultant	Consultant
TASK 2 Site visit, measurements and pick up meters								
Travel							9	9
Site visit and project meeting							12	12
Travel							9	9
Prepare for trip			1				1	1
Person Hours Totals			1		0		0	31
Hourly rate			\$ 250		\$ 175		\$ 80	\$ 65
Estimated cost			\$ 250		\$ 0		\$ 0	\$ 2,015
								\$ 2,265
								\$ 1,613
								\$ 3,878

Michigan trip

- \$ 740 Airfare
- \$ 150 Hotel
- \$ 100 Rental car & gas
- \$ 88 Meals
- \$ 500 Printing
- \$ 500 Extra shipping
- \$ 15 Airport parking
- \$ 20 Mileage

\$ 1,613 Travel for 1 person

PERSON HOUR AND COST ESTIMATE

	Senior		Associate		Consultant		SUBTOTALS	
	Principal	Principal	Principal	Principal	Consultant	Consultant	Consultant	Consultant
TASK 3 Data analysis, computer model & report								
Download and print data			2		2		28	28
Data analysis			2		4		95	24
Computer modeling			2		4		22	
Noise mitigation design and optimization			2		4		10	
Design fees and coordination			2		4		14	28
Report			2		4		4	
Review meetings with client			2		3		3	10
Revisions			2		3		3	
Report			2		3		3	
Person Hours Totals			16		30		148	62
Hourly rate			\$ 250		\$ 175		\$ 80	\$ 65
Estimated cost			\$ 4,000		\$ 5,250		\$ 11,840	\$ 4,030
								\$ 25,120

Reimbursables

- Airfare
- Hotel
- Rental car & gas
- Meals
- \$ 500 Printing
- \$ 5,000 Cost consultant
- Airport parking
- Mileage

\$ 5,500 Costs for Printing and Cost Consultant

Person hours Totals
Hourly rate
Estimated cost

16	\$ 250	30	\$ 175	123	\$ 80	54	\$ 65	\$ 22,600
\$ 4,000		\$ 5,250		\$ 9,840		\$ 3,510		\$ 5,300
								<u>\$ 27,900</u>

TOTAL FEES + REIMBURSABLES

\$ 50,557

Siebelin Associates, Inc.

Sound Assessment of Potential Shooting Range Sites BASE PROPOSAL - REGION 2 - 3 SITES
Region 2, Michigan

PERSON HOUR AND COST ESTIMATE

TASK 1 Site visit, measurements and initial meeting	Senior		Associate		Michigan trip
	Principal	Principal	Principal	Consultant	
Travel					\$ 600 Airfare
Site visit and project meeting	4		9	9	\$ 500 Hotel
			8	8	\$ 120 Rental car & gas
					\$ 220 Meals
Travel					\$ 100 Printing
Prepare for trip	2		9	9	\$ 750 Shipping and excess baggage
Contract and Draft study plan	4		2	4	\$ 15 Airport parking
Measurements	2				\$ 20 Mileage
	24		24	24	\$ 7,574 Travel for 3 people

Person hours Totals 44 0 52 54
 Hourly rate \$ 250 \$ 175 \$ 80 \$ 65
 Estimated cost \$ 11,000 \$ 0 \$ 4,160 \$ 3,510 **\$ 18,670**
 Reimbursables \$ 7,574

PERSON HOUR AND COST ESTIMATE

TASK 2 Site visit, measurements and pick up meters	Senior		Associate		Michigan trip
	Principal	Principal	Principal	Consultant	
Travel					\$ 600 Airfare
Site visit and project meeting					\$ 125 Hotel
Travel					\$ 120 Rental car & gas
Prepare for trip	1				\$ 88 Meals
					Printing
					\$ 500 Extra shipping
					\$ 15 Airport parking
					\$ 20 Mileage
					\$ 1,668 Travel for 1 Person

Person hours Totals 1 0 0 0
 Hourly rate \$ 250 \$ 175 \$ 80 \$ 65
 Estimated cost \$ 250 \$ 0 \$ 0 \$ 2,016 **\$ 2,265**
 Reimbursables \$ 1,668

PERSON HOUR AND COST ESTIMATE

TASK 3 Data analysis, computer model & report	Senior		Associate		Reimbursables
	Principal	Principal	Principal	Consultant	
Download and print data			2		Airfare
Data analysis	2		4	4	Hotel
Computer modeling	2		4	4	Rental car & gas
Noise mitigation design and optimization	2		4	4	Meals
Design recs and coordination	2		4	4	\$ 300 Printing
Report	2		4	4	\$ 5,000 Cost consultant
Review meetings with client	2		4	4	Airport parking
Revisions	2		3	3	Mileage
Report	2		3	3	\$ 5,300 Costs for Printing and Cost Consultant

Person hours Totals 16 30 169 72
 Hourly rate \$ 250 \$ 175 \$ 80 \$ 65
 Estimated cost \$ 4,000 \$ 5,250 \$ 13,520 \$ 4,680 **\$ 27,450**
 Reimbursables \$ 5,300
\$ 32,750

TOTAL FEES + REIMBURSABLES

\$ 62,926

Sound Assessment of Potential Shooting Range Sites REGION 2 - 2 SITES

Region 2, Michigan

PERSON HOUR AND COST ESTIMATE

Senior Associate
Principal Principal Consultant Consultant

TASK 1 Site visit, measurements and initial meeting

Travel
Site visit and project meeting

Travel
Prepare for trip
Contract and Draft study plan
Measurements

Person hours Totals
Hourly rate
Estimated cost

PERSON HOUR AND COST ESTIMATE

Senior Associate
Principal Principal Consultant Consultant

TASK 2 Site visit, measurements and pick up meters

Travel
Site visit and project meeting
Travel
Prepare for trip

Person hours Totals
Hourly rate
Estimated cost

TASK 3 Data analysis, computer model & report

Download and print data
Data analysis
Computer modeling
Noise mitigation design and optimization
Design recs and coordination
Report

Review meetings with client
Revisions
Report

Person hours Totals
Hourly rate
Estimated cost

Michigan trip

- \$ 600 Airfare
- \$ 375 Hotel
- \$ 100 Rental car & gas
- \$ 176 Meals
- \$ 100 Printing
- \$ 750 Shipping and excess baggage
- \$ 15 Airport parking
- \$ 20 Mileage
- \$ 7,007 Travel for 3 people**

\$ 15,510
\$ 7,007 Reimbursables
\$ 22,517

Michigan trip

- \$ 800 Airfare
- \$ 125 Hotel
- \$ 120 Rental car & gas
- \$ 88 Meals
- Printing
- \$ 500 Extra shipping
- \$ 15 Airport parking
- \$ 20 Mileage
- \$ 1,568 Travel for 1 person**

\$ 2,265
\$ 1,968
\$ 3,933

Reimbursables

- Airfare
- Hotel
- Rental car & gas
- Meals
- \$ 300 Printing
- \$ 5,000 Cost consultant
- Airport parking
- Mileage
- \$ 5,300 Costs for Printing and Cost Consultant**

Senior Associate
Principal Principal Consultant Consultant

16 30 148 62
\$ 250 \$ 175 \$ 80 \$ 65
\$ 4,000 \$ 5,250 \$ 11,840 \$ 4,030 \$ 25,120

TOTAL FEES + REIMBURSABLES

\$ 5,300
\$ 30,420
\$ 56,869

Sound Assessment of Potential Shooting Range Sites **REGION 2 - 1 SITE**
Region 2, Michigan

PERSON HOUR AND COST ESTIMATE

TASK	Senior		Associate		Consultant		SUBTOTALS	Michigan Trip
	Principal	Principal	Principal	Principal	Consultant	Consultant		
TASK 1 Site visit, measurements and initial meeting								
Travel	4				9		9	\$ 800 Airfare
Site visit and project meeting		8			8		8	\$ 250 Hotel
								\$ 90 Rental car & gas
								\$ 132 Meals
Travel	2				9		9	\$ 100 Printing
Prepare for trip	4				2		4	\$ 750 Shipping and excess baggage
Consult and Draft study plan	2							\$ 15 Airport parking
Measurements		8			8		8	\$ 20 Mileage
								\$ 6,470 Travel for 3 people

PERSON HOURS TOTALS

Hourly rate 28 0 36 38

Estimated cost \$ 250 \$ 175 \$ 80 \$ 55

\$ 7,000 \$ 0 \$ 2,880 \$ 2,470 \$ 12,350

\$ 6,470 Reimbursables

PERSON HOUR AND COST ESTIMATE

TASK	Senior		Associate		Consultant		SUBTOTALS	Michigan Trip
	Principal	Principal	Principal	Principal	Consultant	Consultant		
TASK 2 Site visit, measurements and pick up markers								
Travel								\$ 800 Airfare
Site visit and project meeting								\$ 125 Hotel
Travel								\$ 90 Rental car & gas
Prepare for trip	1						1	\$ 88 Meals
								\$ 500 Printing
								\$ 500 Extra shipping
								\$ 15 Airport parking
								\$ 20 Mileage
								\$ 1,838 Travel for 1 person

PERSON HOURS TOTALS

Hourly rate 1 0 0 31

Estimated cost \$ 250 \$ 175 \$ 80 \$ 65

\$ 250 \$ 0 \$ 0 \$ 2,015 \$ 2,265

\$ 1,838

\$ 3,903

TASK 3 Data analysis, computer model & report

TASK	Senior		Associate		Consultant		SUBTOTALS	Reimbursables
	Principal	Principal	Principal	Principal	Consultant	Consultant		
Download and print data	2				2		20	Airfare
Data analysis	2				4		18	Hotel
Computer modeling	2				4		80	Rental car & gas
Noise mitigation design and optimization	2				4		16	Meals
Design revs and coordination	2				4		6	Cost consultant
Report	2				4		14	Airport parking
Review meetings with client	2				4		4	Mileage
Revisions	2				3		3	
Report	2				3		3	
								\$ 5,300 Costs for Printing and Cost Consultant

Person hours Totals	16	30	123	54
Hourly rate	\$ 250	\$ 175	\$ 80	\$ 65
Estimated cost	\$ 4,000	\$ 5,250	\$ 9,840	\$ 3,510
				\$ 22,600
				<u>\$ 5,300</u>
				\$ 27,900
TOTAL FEES + REIMBURSABLES				\$ 50,622

Sound Assessment of Potential Shooting R-base Proposal - Region 3 - 3 Sites
Region 3, Michigan

PERSON HOUR AND COST ESTIMATE	Senior		Associate		Consultant		SUBTOTALS	Michigan trip
	Principal	Principal	Principal	Principal	Consultant	Consultant		
TASK 1 Site visit, measurements and initial meeting								
Travel	4	8	9	9	9	9		\$ 600 Airfare
Site visit and project meeting	8	8	8	8	8	8		\$ 600 Hotel
								\$ 120 Rental car & gas
								\$ 220 Meals
Travel	2	2	9	9	9	9		\$ 100 Printing
Prepare for trip	4	4	2	4	4	4		\$ 750 Shipping and excess baggage
Contract and Draft study plan	2	2						\$ 15 Airport parking
Measurements	24	24	24	24	24	24		\$ 20 Mileage
								<u>\$ 7,274</u> Travel for 3 people
Person hours Totals	44	0	52	54	54	54		
Hourly rate	\$ 250	\$ 175	\$ 80	\$ 65	\$ 80	\$ 65		
Estimated cost	\$ 11,000	\$ 0	\$ 4,160	\$ 3,510	\$ 4,320	\$ 3,510		
								<u>\$ 18,670</u>
								\$ 7,274 Reimbursables
								<u>\$ 25,944</u>

PERSON HOUR AND COST ESTIMATE	Senior		Associate		Consultant		SUBTOTALS	Michigan trip
	Principal	Principal	Principal	Principal	Consultant	Consultant		
TASK 2 Site visit, measurements and pick up motors								
Travel								\$ 600 Airfare
Site visit and project meeting								\$ 150 Hotel
Travel								\$ 120 Rental car & gas
Prepare for trip	1							\$ 88 Meals
								Printing
								\$ 500 Extra shipping
								\$ 15 Airport parking
								\$ 20 Mileage
								<u>\$ 1,493</u> Travel for 1 person
Person hours Totals	1	0	0	31	0	31		
Hourly rate	\$ 250	\$ 175	\$ 80	\$ 65	\$ 80	\$ 65		
Estimated cost	\$ 250	\$ 0	\$ 0	\$ 2,015	\$ 0	\$ 2,015		
								<u>\$ 1,493</u>

PERSON HOUR AND COST ESTIMATE	Senior		Associate		Consultant		SUBTOTALS	Reimbursables
	Principal	Principal	Principal	Principal	Consultant	Consultant		
TASK 3 Data analysis, computer model & report								
Download and print data	2	2	2	2	2	2		Airfare
Data analysis	2	4	4	4	4	4		Hotel
Computer modeling	2	4	4	4	4	4		Rental car & gas
Noise mitigation design and optimization	2	4	4	4	4	4		Meals
Design recs and coordination	2	4	4	4	4	4		\$ 300 Printing
Report	2	4	4	4	4	4		\$ 5,000 Cost consultant
Review meetings with client	2	4	4	4	4	4		Airport parking
Revisions	2	3	3	3	3	3		Mileage
Report	2	3	3	3	3	3		<u>\$ 5,300</u> Costs for Printing and Cost Consultant
Person hours Totals	16	30	169	72	169	72		
Hourly rate	\$ 250	\$ 175	\$ 80	\$ 65	\$ 80	\$ 65		
Estimated cost	\$ 4,000	\$ 5,250	\$ 13,520	\$ 4,680	\$ 13,520	\$ 4,680		
								<u>\$ 27,460</u>
								<u>\$ 5,300</u>
								<u>\$ 32,750</u>

TOTAL FEES + REIMBURSABLES

\$ 62,451

Sound Assessment of Potential Shooting RZ REGION 3 - 2 SITES

Region 3, Michigan

PERSON HOUR AND COST ESTIMATE

Senior Associate
Principal Principal

CONSULTANT SUBTOTALS

TASK 1 Site visit, measurements and initial meeting	Senior	Associate	Principal	Principal	Consultant	Consultant	Consultant	Consultant	Consultant	Michigan tip
Travel	4	4								\$ 600 Airfare
Site visit and project meeting	8	8								\$ 450 Hotel
										\$ 100 Rental car & gas
										\$ 176 Meals
										\$ 100 Printing
										\$ 750 Shipping and excess baggage
										\$ 15 Airport parking
										\$ 20 Mileage
										\$ 6,632 Travel for 3 people

Person hours Totals	36	0	0	44	46					
Hourly rate	\$ 250	\$ 175	\$ 0	\$ 80	\$ 65					
Estimated cost	\$ 9,000	\$ 0	\$ 0	\$ 3,520	\$ 2,990					
										\$ 15,510
										\$ 6,632 Reimbursables
										\$ 22,142

PERSON HOUR AND COST ESTIMATE

Senior Associate
Principal Principal

CONSULTANT SUBTOTALS

TASK 2 Site visit, measurements and pick up meters	Senior	Associate	Principal	Principal	Consultant	Consultant	Consultant	Consultant	Consultant	Michigan tip
Travel										\$ 600 Airfare
Site visit and project meeting										\$ 150 Hotel
Travel										\$ 100 Rental car & gas
Prepare for trip	1									\$ 88 Meals
										\$ 500 Extra shipping
										\$ 15 Airport parking
										\$ 20 Mileage
										\$ 1,473 Travel for 1 person

Person hours Totals	1	0	0	0	31					
Hourly rate	\$ 250	\$ 175	\$ 0	\$ 80	\$ 65					
Estimated cost	\$ 250	\$ 0	\$ 0	\$ 2,015	\$ 2,015					
										\$ 2,265
										\$ 1,473
										\$ 3,738

TASK 3 Data analysis, computer model & report

Senior Associate
Principal Principal

CONSULTANT SUBTOTALS

Download and print data	Senior	Associate	Principal	Principal	Consultant	Consultant	Consultant	Consultant	Consultant	Reimbursables
Data analysis	2	4	4		28					Airfare
Computer modeling	2	4	4		95					Hotel
Noise mitigation design and optimization	2	4	4		22					Rental car & gas
Design refs and coordination	2	4	4		10					Meals
Report	2	4	4		14					\$ 300 Printing
										\$ 5,000 Cost consultant
										Airport parking
										Mileage
										\$ 5,300 Costs for Printing and Cost Consultant

Person hours Totals	16	30	30	148	62					
Hourly rate	\$ 250	\$ 175	\$ 175	\$ 80	\$ 65					
Estimated cost	\$ 4,000	\$ 5,250	\$ 5,250	\$ 11,840	\$ 4,030					
										\$ 25,120

\$ 5,300
 \$ 30,420
TOTAL FEES + REIMBURSABLES \$ 56,299

Sound Assessment of Potential Shooting Range REGION 3 - 1 SITE
 Region 3, Michigan

PERSON HOUR AND COST ESTIMATE	Senior	Associate				Michigan trip
	Principal	Principal	Consultant	Consultant	Consultant	
TASK 1 Site visit, measurements and initial meeting						
Travel	4	8	9	9	9	\$ 600 Airfare
Site visit and project meeting	8	8	8	8	8	\$ 300 Hotel
						\$ 90 Rental car & gas
						\$ 132 Meals
Travel	2	4	9	9	9	\$ 100 Printing
Prep for trip	4	2	2	4	4	\$ 750 Shipping and excess baggage
Consult and Draft study plan	2	2	2	2	2	\$ 15 Airport parking
Measurements	8	8	8	8	8	\$ 20 Mileage
Person hours Totals						\$ 5,020 Travel for 3 people
Hourly rate	\$ 250	\$ 175	\$ 80	\$ 80	\$ 65	
Estimated cost	\$ 7,000	\$ 0	\$ 2,880	\$ 2,470	\$ 12,350	
PERSON HOUR AND COST ESTIMATE						\$ 6,020 Reimbursables
TASK 2 Site visit, measurements and pick up meters						\$ 18,370
Travel	1	1	1	1	1	\$ 600 Airfare
Site visit and project meeting						\$ 150 Hotel
Travel						\$ 90 Rental car & gas
Prepate for trip						\$ 88 Meals
						Printing
						\$ 500 Extra shipping
						\$ 15 Airport parking
						\$ 20 Mileage
						\$ 1,463 Travel for 1 person

PERSON HOUR AND COST ESTIMATE	Senior	Associate				Reimbursables
	Principal	Principal	Consultant	Consultant	Consultant	
TASK 3 Data analysis, computer model & report						
Download and print data	2	4	4	80	20	\$ 300 Printing
Data analysis	2	4	4	16	18	\$ 5,000 Cost consultant
Computer modeling	2	4	4	6	6	Airport parking
Noise mitigation design and optimization	2	4	4	14	28	Mileage
Design revs and coordination	2	4	4	4	4	\$ 5,300 Costs for Printing and Cost Consultant
Report	2	2	3	3	8	
Review meetings with client	2	2	3	3	3	
Revisions	2	2	3	3	3	
Report	2	2	3	3	3	
Person hours Totals						\$ 31,728
Hourly rate	\$ 250	\$ 175	\$ 80	\$ 80	\$ 65	
Estimated cost	\$ 250	\$ 0	\$ 0	\$ 2,015	\$ 2,285	
						\$ 1,463

Person Hourly rate Estimated cost	16 \$ 250 \$ 4,000	30 \$ 175 \$ 5,250	123 \$ 80 \$ 9,840	54 \$ 65 \$ 3,510	
					\$ 22,600
					<u>\$ 5,300</u>
					\$ 27,900
TOTAL FEES + REIMBURSABLES					\$ 49,997

Sound Assessment of Potential Shooting | BASE PROPOSAL - REGION 4 - 3 SITES
Region 4, Michigan

PERSON HOUR AND COST ESTIMATE

TASK 1 Site visit, measurements and initial meeting	Senior		Associate		Consultant		Consultant		Michigan tip
	Principal	Principal	Principal	Principal	Consultant	Consultant	Consultant	Consultant	
Travel	4				9				\$ 550 Airfare
Site visit and project meeting	8				8				\$ 600 Hotel
									\$ 120 Rental car & gas
									\$ 220 Meals
Travel	2				9				\$ 100 Printing
Prepare for trip	4				2				\$ 750 Shipping and excess baggage
Contract and Draft study plan	2				4				\$ 15 Airport parking
Measurements					24				\$ 20 Mileage
									<u>\$ 7,124 Travel for 3 people</u>

Person hours Totals	44	0	0	52	54				
Hourly rate	\$ 250	\$ 175	\$ 80	\$ 80	\$ 65				
Estimated cost	\$ 11,000	\$ 0	\$ 4,160	\$ 3,510	\$ 3,510				
									<u>\$ 18,670</u>
									\$ 7,124 Reimbursables
									<u>\$ 25,794</u>

PERSON HOUR AND COST ESTIMATE

TASK 2 Site visit, measurements and pick up meters	Senior		Associate		Consultant		Consultant		Michigan tip
	Principal	Principal	Principal	Principal	Consultant	Consultant	Consultant	Consultant	
Travel					9				\$ 550 Airfare
Site visit and project meeting					12				\$ 150 Hotel
Travel					9				\$ 120 Rental car & gas
Prepare for trip	1				1				\$ 88 Meals
									Printing
									\$ 500 Extra shipping
									\$ 15 Airport parking
									\$ 20 Mileage
									<u>\$ 1,443 Travel for 1 person</u>

Person hours Totals	1	0	0	0	31				
Hourly rate	\$ 250	\$ 175	\$ 80	\$ 80	\$ 65				
Estimated cost	\$ 250	\$ 0	\$ 0	\$ 2,015	\$ 2,015				
									<u>\$ 1,443</u>
									\$ 3,708 Reimbursables

3 Data analysis, computer model & report	Senior		Associate		Consultant		Consultant		Airfare
	Principal	Principal	Principal	Principal	Consultant	Consultant	Consultant	Consultant	
Download and print data	2				32				Hotel
Data analysis	2				4				Rental car & gas
Computer modeling	2				110				Meals
Noise mitigation design and optimization	2				24				\$ 300 Printing
Design recs and coordination	2				12				\$ 5,000 Cost consultant
Report	2				16				Airport parking
									<u>\$ 5,300 Costs for Printing and Cost Consultant</u>
Review meetings with client	2				4				
Revisions	2				3				
Report	2				3				

Person hours Totals	16	30	169	72					
Hourly rate	\$ 250	\$ 175	\$ 80	\$ 65					
Estimated cost	\$ 4,000	\$ 5,250	\$ 13,520	\$ 4,680					
									<u>\$ 27,450</u>
									\$ 5,300
									<u>\$ 32,750</u>

TOTAL FEES + REIMBURSABLES

\$ 62,261

Sound Assessment of Potential Shooting | REGION 4 - 2 SITES
Region 4, Michigan

PERSON HOUR AND COST ESTIMATE

	Senior		Associate		Consultant		Consultant		SUBTOTALS
	Principal	Principal	Principal	Principal	Consultant	Consultant	Consultant	Consultant	
TASK 1 Site visit, measurements and initial meeting									
Travel		4					9	9	
Site visit and project meeting		8					8	8	
Travel		2					9	9	
Prepare for trip		4					2	4	
Contract and Draft study plan		2					16	16	
Measurements									
Person hours Totals		36	0		44		46	46	
Hourly rate		\$ 250	\$ 175		\$ 80		\$ 65	\$ 65	
Estimated cost		\$ 9,000	\$ 0		\$ 3,520		\$ 2,990	\$ 2,990	
									\$ 15,510
									\$ 6,482 Reimbursables
									\$ 21,992

PERSON HOUR AND COST ESTIMATE

	Senior		Associate		Consultant		Consultant		SUBTOTALS
	Principal	Principal	Principal	Principal	Consultant	Consultant	Consultant	Consultant	
TASK 2 Site visit, measurements and pick up meters									
Travel							9	9	
Site visit and project meeting							12	12	
Travel							9	9	
Prepare for trip		1					1	1	
Person hours Totals		1	0		0		31	31	
Hourly rate		\$ 250	\$ 175		\$ 80		\$ 65	\$ 65	
Estimated cost		\$ 250	\$ 0		\$ 0		\$ 2,015	\$ 2,265	
									\$ 1,423
									\$ 3,688

PERSON HOUR AND COST ESTIMATE

	Senior		Associate		Consultant		Consultant		SUBTOTALS
	Principal	Principal	Principal	Principal	Consultant	Consultant	Consultant	Consultant	
TASK 3 Data analysis, computer model & report									
Download and print data		2					28	28	
Data analysis		2			4		95	24	
Computer modeling		2			4		22		
Noise mitigation design and optimization		2			4		10		
Design recs and coordination		2			4		14	28	
Report									
Review meetings with client		2			4		4		
Revisions		2			3		3	10	
Report		2			3				
Person hours Totals		16	30		148		62	62	
Hourly rate		\$ 250	\$ 175		\$ 80		\$ 65	\$ 65	
Estimated cost		\$ 4,000	\$ 5,250		\$ 11,840		\$ 4,030	\$ 25,120	

	Senior	Associate	Consultant	Consultant	Reimbursables
Airfare					\$ 550
Hotel					\$ 150
Rental car & gas					\$ 100
Meals					\$ 88
Printing					\$ 500
Cost consultant					\$ 5,000
Airport parking					\$ 15
Mileage					\$ 20
Travel for 1 person					\$ 1,423
Travel for 3 people					\$ 6,482

	Senior	Associate	Consultant	Consultant	Reimbursables
Airfare					\$ 550
Hotel					\$ 150
Rental car & gas					\$ 100
Meals					\$ 88
Printing					\$ 500
Cost consultant					\$ 5,000
Airport parking					\$ 15
Mileage					\$ 20
Travel for 1 person					\$ 1,423
Travel for 3 people					\$ 6,482

\$ 5,300
 \$ 30,420
\$ 56,099

Sound Assessment of Potential Shooting | REGION 4 - 1 SITE

Region 4, Michigan

PERSON HOUR AND COST ESTIMATE

	Senior	Associate	Principal	Consultant	Consultant	SubTOTALS	
TASK 1 Site visit, measurements and initial meeting							Michigan trip
Travel	4			9	9		\$ 50 Airfare
Site visit and project meeting	8			8	8		\$ 300 Hotel
							\$ 90 Rental car & gas
							\$ 132 Meals
Travel	2			9	9		\$ 100 Printing
Prepare for trip	4			2	4		\$ 750 Shipping and excess baggage
Consult and Draft study plan	2						\$ 15 Airport parking
Measurements				8	8		\$ 20 Mileage
							\$ 5,870 Travel for 3 people

Person hours Totals 28 0 0 36 38
 Hourly rate \$ 250 \$ 175 \$ 80 \$ 2,880 \$ 65
 Estimated cost \$ 7,000 \$ 0 \$ 2,880 \$ 2,470
\$ 12,350
 Reimbursables \$ 5,870

PERSON HOUR AND COST ESTIMATE

	Senior	Associate	Principal	Consultant	Consultant	SubTOTALS	
TASK 2 Site visit, measurements and pick up maters							Michigan trip
Travel							\$ 550 Airfare
Site visit and project meeting							\$ 150 Hotel
Travel							\$ 90 Rental car & gas
Prepare for trip	1						\$ 88 Meals
							Printing
							\$ 500 Extra shipping
							\$ 15 Airport parking
							\$ 20 Mileage
							\$ 1,413 Travel for 1 person

Person hours Totals 1 0 0 0 31
 Hourly rate \$ 250 \$ 175 \$ 80 \$ 80 \$ 65
 Estimated cost \$ 250 \$ 0 \$ 80 \$ 2,015
\$ 2,265
 Reimbursables \$ 1,413

TASK 3 Data analysis, computer model & report

	Senior	Associate	Principal	Consultant	Consultant	SubTOTALS	
Download and print data	2					20	
Data analysis	2			4	80	18	\$ 300 Printing
Computer modeling	2			4	16		\$ 5,000 Cost consultant
Noise mitigation design and optimization	2			4	6		Airport parking
Design revs and coordination	2			4	14	28	Mileage
Report							
Review meetings with client	2			4	4	8	
Revisions	2			3	3		
Report							

Reimbursables Airfare
 Hotel
 Rental car & gas
 Meals
 \$ 300 Printing
 \$ 5,000 Cost consultant
 Airport parking
 Mileage
\$ 5,300 Costs for Printing and Cost Consultant

Person hours Totals	16	30	123	54	
Hourly rate	\$ 250	\$ 175	\$ 80	\$ 65	\$ 22,600
Estimated cost	\$ 4,000	\$ 5,250	\$ 9,840	\$ 3,510	\$ 5,300
					<u>\$ 27,900</u>
TOTAL FEES + REIMBURSABLES					\$ 49,797

Appendix 1

Michigan Department of Natural Resources Region Map

