Draft

Munici	pality		LOC	(P)	nois Department Transportation	C	Name Reynolds, Smith, and Hills, Inc.
Towns	hip		A L	(A) 0	i iiaiispoi tatioii	N S U	Address 525 Dunham Road, Suite 20
County Lake Trans	Cour	nty – Division of ation	AGEN		ninary Engineering vices Agreement For	T A N	St. Charles
Section	1		C Y	Non-M	otor Fuel Tax Funds	Т	State IL
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				Sec	tion Description		
Name	<u>V</u>	Vadsworth Road @ Lewis A	venu	e Intersection	n Improvements		
Route) 	Length		Mi.	4400.00 FT	-	(Structure No)
Term	ini .	Approximately 1100' along	all q	uadrants of th	ne subject intersection		
Desci		n: tudies for intersection improv	/eme	ents.			
				Agre	ement Provisions		
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	 j. Prepare the necessary environmental documents in accordance with the procedures adopted by the DEPARTMENT's Bureau of Local Roads & Streets.
	k. 🗵 Prepare the Project Development Report when required by the DEPARTMENT.
	l. 🔀 Services as included and/or defined in the attached Scope of Services.
2.	That all reports, plans, plats and special provisions to be furnished by the ENGINEER pursuant to the AGREEMENT, will be in accordance with current standard specifications and policies of the LA of the DEPARTMENT. It is being understood that all such reports, plats, plans and drafts shall, before being finally accepted, be subject to approval by the LA and the DEPARTMENT.
3.	To attend conferences at any reasonable time when requested to do so by representatives of the LA or the Department.
4.	In the event ENGINEER'S plans or surveys are found to be in error during construction of the SECTION and revisions of the plans or survey corrections are necessary, the ENGINEER agrees that the ENGINEER will perform such work without expense to the LA, even though final payment has been received by the ENGINEER. The ENGINEER shall give immediate attention to these changes so there will be a minimum delay to the CONTRACTOR.
5.	That basic survey notes and sketches, charts, computations and other data prepared or obtained by the ENGINEER pursuant to this AGREEMENT will be made available, upon request, to the LA or the DEPARTMENT without cost and without restriction or limitations as to their use.
6.	That all plans and other documents furnished by the ENGINEER pursuant to this AGREEMENT will be endorsed by the ENGINEER and will show the ENGINEER's professional seal where such is required by law.
Th	e LA Agrees,
1.	To pay the ENGINEER as compensation for all services rendered in accordance with this AGREEMENT according to the following method indicated by a check mark:
	a. A sum of money equal to percent of the awarded contract cost of the proposed improvement as approved by the DEPARTMENT.
	b. A sum of money equal to the percent of the awarded contract cost for the proposed improvement as approved by the DEPARTMENT based on the following schedule:
	Schedule for Percentages Based on Awarded Contract Cost

Awarded Cost Percentage Fees \$50,000 (see note) Under % %

Not necessarily a percentage. Could use per diem, cost-plus or lump sum.

2. To pay for all services rendered in accordance with this AGREEMENT at the actual cost of performing such work plus 14 percent to cover profit, overhead and readiness to serve - "actual cost" being defined as material cost plus payrolls, insurance, social security and retirement deductions. Traveling and other out-of-pocket expenses will be reimbursed to the ENGINEER at the ENGINEER's actual cost. Subject to the approval of the LA, the ENGINEER may sublet all or part of the services provided in section 1 of the ENGINEER AGREES. If the ENGINEER sublets all or part of this work, the LA will pay the cost to the ENGINEER plus an additional service charge of up to five (5) percent.

"Cost to Engineer" to be verified by furnishing the LA and the DEPARTMENT copies of invoices from the party doing the work. The classifications of the employees used in the work should be consistent with the employee classifications for the services performed. If the personnel of the firm, including the Principal Engineer, perform routine services that should normally be performed by lesser-salaried personnel, the wage rate billed for such services shall be commensurate with the work performed.

The Total Not-to-Exceed Contract Amount shall be \$361,957.36

- 3. That payments due the ENGINEER for services rendered in accordance with this AGREEMENT will be made as soon as practicable after the services have been performed in accordance with the following schedule:
 - a. Upon completion of detailed plans, special provisions, proposals and estimate of cost being the work required by section 1 of the ENGINEER AGREES - to the satisfaction of the LA and their approval by the DEPARTMENT, 90 percent of the total fee due under this AGREEMENT based on the approved estimate of cost.
 - b. Upon award of the contract for the improvement by the LA and its approval by the DEPARTMENT, 100 percent of the total fee due under the AGREEMENT based on the awarded contract cost, less any amounts paid under "a" above.

By Mutual agreement, partial payments, not to exceed 90 percent of the amount earned, may be made from time to time as the work progresses.

- 4. That, should the improvement be abandoned at any time after the ENGINEER has performed any part of the services provided for in sections 1 and 3 of the ENGINEER AGREES and prior to the completion of such services, the LA shall reimburse the ENGINEER for the ENGINEER's actual costs plus 14 percent incurred up to the time the ENGINEER is notified in writing of such abandonment -"actual cost" being defined as in paragraph 2 of the LA AGREES.
- 5. That, should the LA require changes in any of the detailed plans, specifications or estimates except for those required pursuant to paragraph 4 of the ENGINEER AGREES, after they have been approved by the DEPARTMENT, the LA will pay the ENGINEER for such changes on the basis of actual cost plus 14 percent to cover profit, overhead and readiness to serve -"actual cost" being defined as in paragraph 2 of the LA AGREES. It is understood that "changes" as used in this paragraph shall in no way relieve the ENGINEER of the ENGINEER's responsibility to prepare a complete and adequate set of plans and specifications.

It is Mutually Agreed,

- 1. That any difference between the ENGINEER and the LA concerning their interpretation of the provisions of this Agreement shall be referred to a committee of disinterested parties consisting of one member appointed by the ENGINEER, one member appointed by the LA and a third member appointed by the two other members for disposition and that the committee's decision shall be final.
- 2. This AGREEMENT may be terminated by the LA upon giving notice in writing to the ENGINEER at the ENGINEER's last known post office address. Upon such termination, the ENGINEER shall cause to be delivered to the LA all surveys, permits, agreements, preliminary bridge design & hydraulic report, drawings, specifications, partial and completed estimates and data, if any from traffic studies and soil survey and subsurface investigations with the understanding that all such material becomes the property of the LA. The ENGINEER shall be paid for any services completed and any services partially completed in accordance with section 4 of the LA AGREES.
- 3. That if the contract for construction has not been awarded one year after the acceptance of the plans by the LA and their approval by the DEPARTMENT, the LA will pay the ENGINEER the balance of the engineering fee due to make 100 percent of the total fees due under this AGREEMENT, based on the estimate of cost as prepared by the ENGINEER and approved by the LA and the DEPARTMENT.
- 4. That the ENGINEER warrants that the ENGINEER has not employed or retained any company or person, other than a bona fide employee working solely for the ENGINEER, to solicit or secure this contract, and that the ENGINEER's has not paid or agreed to pay any company or person, other than a bona fide employee working solely for the ENGINEER, any fee, commission, percentage, brokerage fee, gifts or any other consideration, contingent upon or resulting from the award or making of this contract. For Breach or violation of this warranty the LA shall have the right to annul this contract without liability.

Executed by the LA: County of Lake of the (Municipality/Township/County) State of Illinois, acting by and through its ATTEST: Ву County Board Lake County Clerk Ву Chairman of the County Board (Seal) Title RECOMMENDED FOR EXECUTION Paula J. Trigg, P.E. Director of Transportation/County Engineer Lake County Reynolds, Smith and Hills, Inc. Executed by the ENGINEER: Engineering Firm 525 Dunham Road, Suite 20 Street Address ATTEST: St. Charles, Illinois 60174 City, State

IN WITNESS WHEREOF, the parties have caused the AGREEMENT to be executed in triplicate counterparts, each of which

shall be considered as an original by their duly authorized officers.



PHASE I ENGINEERING SERVICES

Wadsworth Road @ Lewis Avenue Phase 1

Prepared for

LAKE COUNTY DIVISION OF TRANSPORTATION

Scope of Services Anticipated Project Schedule

October 25, 2013

SCOPE OF ENGINEERING SERVICES WADSWORTH ROAD AT LEWIS AVENUE LAKE COUNTY DIVISION OF TRANSPORTATION

Project Overview

Wadsworth Road at Lewis Avenue is a signal controlled intersection located in the City of Waukegan and the Village of Beach Park. Wadsworth Road is generally a two-lane undivided arterial street; whereas Lewis Avenue is a four-lane arterial street. There are left turn lanes at each leg of the intersection; no right turn lanes exist at the intersection. The project area is generally an urban environment, with a mixture of residential, commercial, and aviation land uses. The southwest quadrant houses the Waukegan Regional Airport and impacts to the FAA controlled ROW on the southwest and northwest quadrant will need to be closely analyzed and coordinated. The northeast and southeast quadrants consist of a gas station and strip mall respectively. There is a school and an associated school zone immediately east of the intersection.

There are no sidewalks or pedestrian facilities present at the intersection. Street lighting is provided in the form of a single light located atop an existing signal pole. Parkways are variously composed of dirt, grass, or gravel; there are no dedicated parking locations along the route. There is an existing storm sewer system and culvert crossings at and adjacent to the intersection. Trees and landscaping are sporadic, there are numerous utilities including utility poles near the roadway. The posted speed limit is 45 mph with the exception of the east leg which is posted at 35 mph.

The intent of the project is to investigate and address the capacity of the intersection to accommodate future traffic demands while ensuring a safe and efficient traffic flow. This will likely entail widening of the roadway, addition of channelization at the intersection, pedestrian facilities, signal modernization, and other elements that may be identified through the planning and public involvement process. A list of tasks anticipated to be accomplished during the project is as follows:

Task 1 - Collection, Compilation, Review and Evaluation of Data Base

Upon receipt of the notice to proceed, RS&H will attend a Project Initiation Meeting with the Lake County Division of Transportation. A project schedule will be developed and agreed upon by both parties. Next, RS&H will obtain, compile and review readily available pertinent information related to the existing facility. The type of information necessary will include but not be limited to:

- a. Utility companies and available mapping
- b. Zoning maps
- c. Land use
- d. Social and economic data
- e. Community Services

School districts
School bus routes
Police & Fire Districts
Water/sewer service areas
Hospitals

- f. Bicycle & pedestrian facilities
- g. Crash Data from Lake County, and local agencies
- h. Traffic Counts from Lake County
- i. Soils and groundwater data
- j. Lake County GIS data
- k. Right of Way information

Local agencies and institutions will be contacted for input, including the City of Waukegan, the Village of Beach Park, as well as the Waukegan Port District. Additional data will be collected from the County and local agencies including existing and ongoing adjacent projects. In addition staff will visit the site as necessary to:

- a. Identify issues
- b. Take photographs of the project route; prepare a photo log
- c. Observe, verify and document existing conditions such as apparent drainage patterns and traffic operations, both qualitatively and quantitatively

Task 2 - Project Coordination & Meetings

Prepare exhibits for and attend coordination meetings with the Lake County Division of Transportation as well as local agencies and stakeholders. Project coordination meetings with the Lake County Division of Transportation will take place as needed. RS&H will also conduct coordination meetings with sub-consultants, local agencies, and stakeholders as appropriate.

Task 3 - Surveys

In concert with the Lake County Division of Transportation, the RS&H team will conduct research of the public record and obtain Plats of Subdivision or Plats of Highway defining the R.O.W. or prescriptive easement for the subject roadway and intersecting roadways. Research the public record to obtain record surveys and perform a field reconnaissance to recover monumentation purportedly found or set defining the R.O.W. or roadway easement. Extend a level circuit from the vertical datum (NAVD 88) established for the Project. Gather records from the highway authority on stationing established for previous roadway improvements in the area and compute horizontal ties and a station equation for the Project. Establish base lines from a "best fit" of the R.O.W. monumentation recovered as a basis of horizontal alignment and control.

The survey limits for each leg of the intersection will generally extend 2000' from the centerline of the intersection. Survey information will be gathered to 25-35' beyond in existing ROW in each direction.

Based on the survey limits described above, field survey work to obtain topographic and planimetric data will be in accordance with IDOT requirements and the content requirements outlined below in Items a. through i.

- a. The location, elevation, and material composition of street pavements, sidewalk pavements, driveway pavements, curb and gutter sections, and other land surfaces. Roadway cross-sections will be obtained at a 100 foot interval.
- b. The location, elevation, and material composition of storm sewer conveyance, sanitary sewer collection, and water distribution systems as measured at structures visible and retrievable from the ground surface (underground exploration is not within the scope of these services).

- c. The location, elevation, and material composition (if applicable) of ditches and culverts with shapes and sizes, direction of flow, elevation of inverts or flow lines and other physical properties of those drainage structures visible and retrievable from the ground surface which information will be supplemented by public records and plans (underground exploration is not within the scope of these services).
- d. The location and elevation at the base of utility poles, street lights, ground boxes, pedestals, and transformers with notation as to the identity of the utility company and other planimetric features when visible and retrievable from the ground surface (underground exploration is not within the scope of these services).
- e. The location, elevation at base and diameter of individual or isolated trees 4 inches or greater in diameter as measured 3 feet above the base. For tree lines or groupings in more heavily wooded areas, only the tree line perimeter will be located.
- f. The location (by station), extent, physical description and color of existing pavement striping, pavement markings, roadway signage (with specific type and legend).
- g. In accordance with IDOT survey requirements, collect detailed sketches, photographs, topographic and planimetric data for waterway structures along the survey route.
- h. Upon request, locate up to 15 borings and pavement cores performed by the Geotechnical Engineer as well as Wetland delineations provided by the Environmental Engineer.
- i. Land Acquisitions survey including:
 - The establishment of approximately 2 section corners with monument records.

The establishment of all property and land lines including private ownership lines, section lines, Right of Way lines and Easement lines not previously established during the phase I survey for the area were the 6 proposed parcels are going to take place.

The creation of approximately 3 Plats of Highway containing approximately 6 parcels to be acquired.

The creation of approximately 6 legal descriptions including 6 parcels to be acquired. Stake and tie all centerline alignments and proposed Right of Way corners.

In accordance with IDOT data format and deliverable standards, compile said topographic and planimetric field survey work along with any information gathered and prepare Composite Topographic and Planimetric Survey Base Sheets as well as digital terrain models in digitized and layered electronic format at an estimated scale of 1 inch = 20 feet with contours interpolated on a one-foot interval, and depicting the R.O.W. limits, as defined by the record plats of dedication and survey documentation. Provide hard copies and digital copies of survey products to the Lake County Division of Transportation in accordance with deliverable requirements.

Task 4 - Environmental Data, Coordination, Inventory and Analysis

The project is generally located in an urban area mixed with commercial, residential, aviation, and retail developments. The potential does exist for involvement with special waste, biological resources, cultural resources, wetlands, and storm water impacts. There are no known 4(f) or section 106 areas located with the project limits.

Work tasks will include:

- a. Developing a project location map.
- b. Providing the appropriate NWI maps.
- c. Preliminary Environmental Site Assessment (PESA) The environmental consulting staff will conduct field reconnaissance for the study area, noting any land uses with potential

- environmental concerns such as soil contamination, wetland disturbance, and other environmental impacts that could result from the planned improvements. Research of appropriate databases such as IDNR will be consulted and requests filed online. A Preliminary Environmental Site Assessment (PESA) will be prepared based on field and online research, Freedom of Information Act (FOIA) requests, compliance and historical database findings.
- d. Preliminary Site Investigation The environmental consulting staff will conduct soil sampling in the proposed right-of way expansion and interpret sampling results for the affected properties. A Preliminary Site Investigation (PSI) will be prepared based on sampling and laboratory findings, including recommendations for remedial action, as warranted. The site testing and sampling will be in compliance with Lake County DOT's "LAKE COUNTY DOT CCDD and UNCONTAMINATED OPERATIONS PRE-OUALIFICAITON FORM" guidelines.
- e. Prepare Environmental Survey Request (ESR) The environmental consultant will prepare the Environmental Survey Request (ESR) on the IDOT online database. All documents and exhibits as provided by the Prime and acquired through research and site reconnaissance will be included.
- f. Prepare Categorical Exclusion II Study The environmental consultant will prepare the NEPA study as a Categorical Exclusion II (CEII). The environmental consultant will provide all necessary data, mapping, and photos for public meetings if necessary.
- g. Wetlands Impact Evaluation There are known wetlands within the project area. Following Lake County protocols, the environmental consultant will examine the affected wetlands to determine potential impacts of the project. All necessary forms, exhibits, and maps will be attached with the final document. Mitigation and avoidance will be included in the report.
- h. Prepare cultural resources section of the Project Report.
- i. Identify and analyze land use patterns, future land use, and existing & proposed developments within the study limits.
- j. Assess existing community features and social/economic factors & conditions to establish a baseline condition. Assess social and economic impacts based on the data collected.
- k. Coordination with regulatory agencies.

The project at inception is anticipated to be processed as a Group II Categorical Exclusion. Information resulting from the ESR process will be coordinated with Federal, State and local officials; responding to coordination comments; including identifying impacts and solutions/mitigation of impacts; preparing any required special reports such as 4(f); and preparing the environmental section of the project report documents.

Task 5 - Location Drainage Study and Hydraulic Analysis

Location Drainage Study

Perform a location drainage study of the project location in accordance with the latest IDOT Drainage Manual and the Lake County Stormwater Management Ordinance.

Work elements associated with the Drainage Study are as follows.

a. Detail the existing drainage system including a general location drainage map, identify drainage problems, and identify major drainage features and outfalls.

- b. Detail proposed drainage system including identifying the design criteria, sensitive outlet evaluation, stormwater detention analysis, R.O.W. analysis, drainage alternatives, and preparing the proposed drainage plans.
- c. Local & Other Agency Coordination.
- d. IDNR-OWR Permit.
- e. SWPPP
- f. NPDES Stormwater Permit
- g. Lake County Watershed Development Permit
- h. Erosion and sediment control, BMP white paper.
- i. Narrative.
- j. Study Assembly.
- k. Field Reviews.

Task 6 - Geotechnical Investigations and Study

In accordance with the IDOT Geotechnical Manual, the following geotechnical services are anticipated:

- a. Perform Borings and pavement cores along the project corridors. Additional borings will be taken at the intersections along the project corridor. Typical boring depth will be 10 feet
- b. Laboratory testing including: moisture content, Atterberg limits, grain size analyses, dry density, unconfined compressive strength, standard Proctor, Illinois Bearing Ratio, and organic content.
- c. Provide a Roadway Geotechnical Engineering Report (RGR) in accordance with Chapter 5 of the IDOT Geotechnical Manual.
- d. Temporary Traffic Control and coordination.

Task 7 - Alternate Geometric Studies

The intersection will be studied for the purpose of creating a preferred cross section and alignment. Plan studies will include horizontal and vertical alignment and geometrics. The following items are anticipated to be a part of this task:

- a. Plotting the existing topography and cross sections and creating base sheets for use in Proposed Plan & Profile Exhibits.
- b. Up to three improvement alternatives, plus the "no-build" alternative, will be considered.
- c. Alternatives will be sufficiently developed to enable determination of the general level of impacts on such factors as construction limits, right of way acquisition, construction cost, environmental issues, public safety and convenience, bicycle/pedestrian accommodations, and other factors that may be identified by the coordination process.
- d. Geometric alternatives will include horizontal alignments, profiles, number of through lanes and auxiliary lanes, and R.O.W. needs.
- e. Verify and provide pavement design recommendations.
- f. A written evaluation of each alternative considered will be included in the Project Report, along with exhibits such as profile studies, typical sections, and sample cross sections as necessary to illustrate the characteristics and impacts of each design alternative.
- g. A matrix will be created to compare the alternatives.
- h. A preliminary R.O.W. estimate of costs will be developed for the preferred alternative.

Throughout this process, the proposed geometrics will be coordinated with the Lake County Division of Transportation at periodic meetings. The alternatives will be refined and revised as necessary based on input from these meetings, as well as input from ongoing public/stakeholder involvement.

Task 8 - Crash Analysis (to be included in Project Report)

A crash analysis and study will be performed at the intersection to address any issues related to capacity as well as operational and safety deficiencies.

The following work items are included in this task:

- a. Collect data for the most recent five calendar years available from Lake County and local agencies and communities. As the project proceeds additional data for one subsequent year will be added to the study.
- b. Crash and skid reduction analysis in accordance with Section 11-2.02(f) of the Bureau of Design and Environment (BDE) Manual will be performed. The study will include the following crash analyses to assist in demonstrating the need for the improvement:

Spot Map – includes the comparison of calculated project crash rates with the statewide average crash rates.

High-Crash/Crash Pattern Analyses – Identify high-accident locations, rates and all crash patterns.

Wet-Pavement Crashes - Identify and analyze any wet pavement crash clusters.

Time Period – Review of the traffic crash data for the last five years and analyze most recent three of years data for the crash report.

c. Prepare a crash report including discussions on segment accident rates and types, intersection accident rates and types, wet pavement accident rates, and recommended countermeasures.

Task 9 - Traffic Analysis & Intersection Design Studies (to be included in Project Report)

Prepare a traffic analysis and intersection design studies utilizing the existing traffic data as well as the proposed design year projections. The analysis will include developing a traffic model using current traffic data and conduct Level of Service (LOS) analysis using HCM2010 (or most current) methodology for the AM and PM peak periods. Current traffic data will be projected for the 2040 design year. 2040 forecasted traffic will be analyzed for LOS and determination of congestion areas. The traffic analysis results will be utilized to design roadway segments and intersections.

The following items are anticipated to be included in this task item.

- a. Review and analyze the existing traffic data and traffic counts.
- b. Conduct Peak hour manual counts at the existing intersection. The peak hour manual counts will be performed within the following times: Tuesday thru Thursday 6am to 9am and 3:30pm to 6:30pm. The data collection will include three vehicle classifications (cars, SU, MU) and will be stored in Petra format at 15 minute intervals. This data will be analyzed to determine peak hours for each intersection

- c. Determine the current year Average Annual Daily Traffic (AADT), AM and PM peak Design Hour Volumes (DHV), and truck percentages for all roadway segments and intersection turn movements within the project limits.
- d. Perform a traffic model for current year. Determine LOS, queue, and delay for the existing geometry.
- e. Project Traffic for the design year with consideration of social, economic, and development trends. This work will also be coordinated with CMAP including requesting CMAP 2040 traffic projections.
- f. Create a traffic model for design year (2040). The design year model will be developed using the same format as for the current year, with the appropriate growth rates applied to the origin-destination and traffic flow information. The design year traffic analysis will be used for the design of proposed roadway geometry.
- g. Apply the proposed design year traffic model to the various alternatives. Determine back of queue, delay and LOS.
- h. Create exhibits from the analysis results to be included in the project report. The reports and exhibits will be based upon the IDOT report formats with the appropriate turn movement diagrams.
- i. Upon completion of the above items, an Intersection Design Study (IDS) will be prepared based on the preferred alternative configuration. IDS will conform to the requirements of the BDE Manual, and will utilize the IDOT District 1 standard base sheets. Capacity analyses will be shown on the drawings in IDOT format.

Task 10 - Traffic Maintenance Analysis (to be included in Project Report)

RS&H will provide a traffic management plan for the safe and efficient movement of traffic through the intersection construction corridor.

The traffic Management Plan which will include the following:

- a. Make recommendations for cost-effective ways in which to improve LOS during construction conditions and determine LOS under recommended conditions.
- b. Development of preliminary recommendations for maintaining traffic. These will include at a minimum:

Develop any required detour routes to account for emergency response vehicles, construction vehicle routes, school bus routes and any local requirements as presented by Lake County Division of Transportation and local agencies.

Establishment of time constraints for the different maintenance of traffic sequencing. Establishment of temporary traffic signals, signs, pavement marking and channelizing devices.

Determination of altered speed limits for maintenance of traffic concerns.

Special considerations for local and special events.

Detail all these considerations on preliminary MOT drawings, showing traffic diagrams, typical sections, and detour routes.

- c. Conduct meetings with Lake County Division of Transportation, local agencies and businesses to outline the proposed MOT Plan. Decisions from these meetings will be incorporated into the final MOT plan.
- d. Provide discussion of traffic control plan to safely guide traffic and pedestrians through the work zone with the use of traffic control devices and project coordination.
- e. Prepare a transportation operations plan to mitigate work zone impacts through the use of improved transportation operations and management of the transportation system.
- f. Narrative of public information plan.

- g. Analysis of construction phasing and scheduling alternatives.
- h. Documentation of coordination with local officials and businesses.
- i. Planning for emergency response and school bus routes.
- j. Maintenance of Traffic Typical Sections

All work efforts will be coordinated through Lake County's Project Manager, the City of Waukegan, the Village of Beach Park, and other stakeholders.

Task 11 - Aviation Services

Coordination with the FAA and Waukegan Port District will be provided with the intent of determining the impacts of the roadway improvements to the existing aviation facilities. Impacts will be studied, remediation identified, and recommendations provided so as to aid in the determination of the appropriate roadway alternative. The following items are anticipated to be a part of this task:

- a. Collect existing airport plans/as built information.
- b. Determine impacts on the airport facility based upon the project alternatives
- c. Study alternatives/impacts and provide recommendations for design.
- b. Calculate the anticipated construction cost with respect to aviation facility impacts.
- c. Provide coordination narrative for inclusion in the project report.

Task 12 - Opinion of Probable Project Cost

- a. Provide a Preliminary Opinion of Probable Construction Cost based upon recent bid tabulation data.
- b. Include Design, Construction, and Value Engineering as well as ROW Costs.

Task 13 - Public Involvement

The project team will work in concert with the Lake County Division of Transportation to disseminate information and gather feedback from residents, public institutions, commercial development, and other interested stakeholders. The work efforts will be accomplished through preparing exhibits and informational handouts and conducting public meetings and hearings.

We envision the work activities to include:

- a. Developing a project problem statement.
- b. Prepare Public meeting visual display exhibits, mosaics and handouts.
- c. Develop a Purpose and Need Statement.
- d. Prepare meeting materials.
- e. Attend preparation and rehearsal meetings with Lake County Division of Transportation.
- f. Attend three public input meetings. The public input meeting will be held with the following intentions: 1) Intro to project and solicit comments and input, 2) present alternatives, 3) Public Hearing (present preferred alternative).
- g. Coordinate and prepare outreach materials and respond to comments.
- h. Compile meeting and hearing minutes and responses for inclusion in Project Report.

The project team will attend one public meeting and one public hearing. In addition, small group meetings and workshops will be held with stakeholders in order to identify any issues and possible solutions, if needed.

Task 14 - Project Report

A Preliminary Project Report will be prepared and submitted to the Lake County Division of Transportation for review. The project is anticipated to qualify for a Categorical Exclusion, Group II. The report will document all existing conditions, project need, traffic and crash data, alternative analyses, public involvement, environmental issues, drainage studies, crash analysis, traffic management plan, cost estimates and recommendations for proposed improvements. The report will follow the format and content guidelines specified in Chapter 12 of the IDOT BDE Manual, as applicable. Ten (10) copies of the report, including all appendices, will be provided.

A coordination/review meeting will be held with the Lake County Division of Transportation and the Project Report and exhibits will be revised and updated to include public hearing information including disposition of comments, and the recommended alternative may be revised on the basis of public comment as well as Lake County Division of Transportation review. The revised recommendations will be presented in a Final Project Report and submitted to the Lake County Division of Transportation for review. Upon approval, ten (10) printed copies and five (5) electronic copies on CD will be provided. Final electronic copies will include all deliverables (eg. Survey information, Calculations, Report, BCR, etc.)

Task 15 - Quality Assurance/Quality Control

RS&H will submit a project specific QA/QC plan for approval by the Lake County Division of Transportation. The Plan will define the procedures used to control and insure the quality of the design process from data collection through the submittal of the final PDR. The QA/QC Plan will address the following:

- a. Management responsibility.
- b. Design standards and documents.
- c. QA/QC check sheets.
- d. Document control.
- e. QA Process control.
- f. Quality records and audit procedures.
- g. Training.

The project team will follow the procedures outlined in the approved QA/QC Plan. Internal peer reviews will be conducted at reasonable intervals and documented. All major submittals will follow internal technical reviews, and the project manager will review progress with respect to budget and schedule at least monthly to ensure that the project remains on track.

<u>Task 16 – Administration</u>

The RS&H team will undertake all other administrative duties necessary to support the successful completion of the project. This work will include:

- a. General Project Management duties including Project Officer oversight.
- b. Writing and filing project correspondence including phone memos, meeting minutes, etc.
- c. Managing sub-consultants.
- d. Monitoring project schedule and budget, and preparing monthly invoices and progress reports for submission to the Lake County Division of Transportation Project Manager.

ASSUMPTIONS

- a. Lake County will supply traffic counts and crash data sufficient for use with this project, RS&H will augment the traffic counts as stipulated above.
- b. Copies of available existing plans surveys or plats will be made available to the consultant.
- c. The project is anticipated to be processed as a Categorical Exclusion II.

EXCLUSIONS

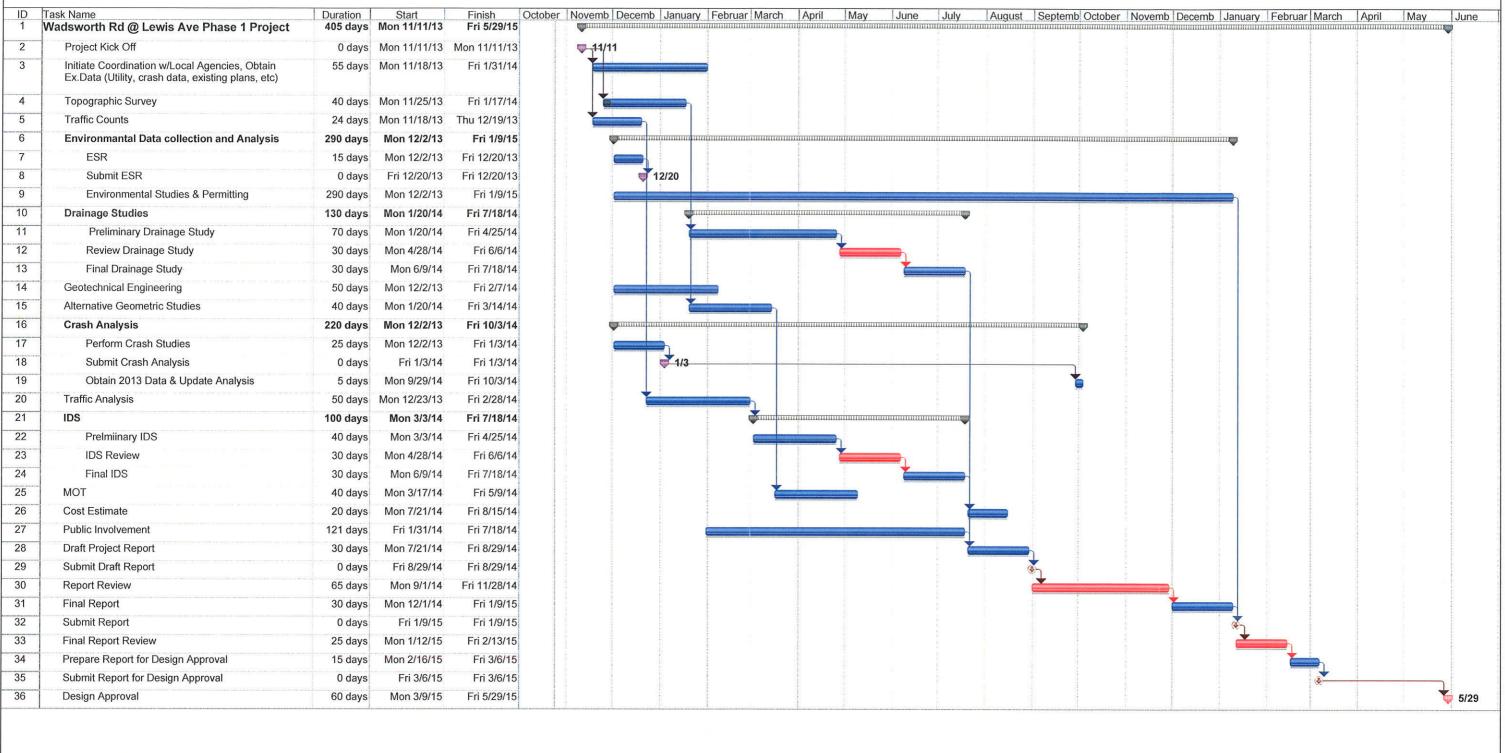
- a. Right of Way appraisals and negotiations are not included.
- b. The preparation of Construction Plans, Specifications, and Final estimates are not included.
- c. Lighting and Traffic signal design are not included in this scope.
- d. Construction or bidding phase services are not included in this scope.
- e. Watermain or sanitary sewer design.
- f. Utility relocation detailed design.
- g. Structural design.
- h. Permit fees or any proposed electrical service fees.

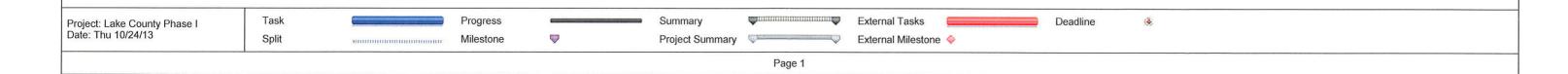
ANTICIPATED PROJECT SCHEDULE

Based upon our understanding of the project, a schedule has been developed with sets for realistic dates of completion of the various project phases through design approval; and has been attached herein. The schedule notes an assumed start date and assumes a normal project progression and timely reviews as shown.

Wadsworth Road @ Lewis Avenue Phase 1

SCHEDULE







PHASE I ENGINEERING SERVICES

Wadsworth Road @ Lewis Avenue Phase 1

Prepared for

LAKE COUNTY DIVISION OF TRANSPORTATION

Scope, Workhour, and Direct Cost Worksheets

WORKHOURS AND DIRECT COSTS WADSWORTH ROAD AT LEWIS AVENUE LAKE COUNTY DIVISION OF TRANSPORTATION

1. <u>Data Collection & Review</u>	
 a. Data Collection – Local Agencies b. Obtain existing Traffic & Crash Data c. Determine Bus Routes & Emergency Services Routes d. Existing Utilities – Correspondence & Compilation of Mapping information e. Field Trips to Area - 4 trips (2 staff, 6 hours each) f. Photo Log g. Review & Analyze Data 	16 4 4 16 36 4
WORKHOURS	92
Mileage to Site 3 trips@130miles/round trip - 390 miles @\$0.565/mile	\$220.35
ESTIMATED DIRECT COSTS	\$220.35
2. Project Coordination & Meetings	
 a. Meetings with Lake County – Up to 3 Meetings (2 staff, 6 hours each) b. Local Agency/FAA Coordination – Up to 2 Meetings (2 staff, 6 hours each c. Monthly Project Coordination – Internal & Sub-consultants as Needed d. Stakeholder Meetings – Up to 2 Meetings (2 staff, 6 hours each + 4 prep. time) 	36 24 24 12
TOTAL WORKHOURS	96
Mileage to Lake County DOT 7 trips@90miles/round trip - 630 miles @\$0.565/mile	\$355.95
ESTIMATED DIRECT COSTS	\$355.95
3. Surveys (Environmental Design International, Inc.)	
 a. Locate Right-of-Way (R.O.W.) Monuments b. Research Property Ownership along the Project Corridor c. Establish Horizontal and Vertical Control -Traverse (Includes Ties to State Plane Coordinates) d. Level Circuit, Establish Project Bench Marks's e. Alignment (Tie Centerline of Existing R.O.W. to Aerial Traverse) f. Topographic Survey, include 2500' from intersection g. Cross-sections h. Utility Locations (Inverts on All Drainage, Cross Culverts, Drive and Street Culvert Structures) i. Trees 4" and Greater i. Enlland on Survey on Needed 	
j. Follow-up Survey as Needed	

- k. Base Mapping, Plotting of Existing Topography Including all Utilities and Drainage Elements
- I. R.O.W. Plats and Legals (up to 3 Plats for up to 6 Parcels)
- m. Creation of The creation of approximately 6 legal descriptions including 6 parcels to be acquired.
- n. The Establishment and Monument of approximately 2 section corners
- o. Survey Points Shall Use IDOT Line and Point Codes
- p. Boring Location
- q. Wetland Delineation Survey
- r. Coordination

WORKHOURS	8
WORKHOURS - SUBCONSULTANT (Services by others)	601
ESTIMATED DIRECT COSTS – SUBCONSULTANT (Services by others)	\$51,647.44

8

8

4. <u>Environmental Data Collection, Coordination, Inventory & Analysis (Kowalenko Consulting Group, Inc.)</u>

- a. Developing a project location map.
- b. Providing the appropriate NWI maps.
- c. Preliminary Environmental Assessment (PESA) The environmental consulting staff will conduct field reconnaissance for the study area, noting any land uses with potential environmental concerns such as soil contamination, wetland disturbance, and other environmental impacts that could result from the planned improvements. Research of appropriate databases such as IDNR will be consulted and requests filed online. A Preliminary Environmental Site Assessment (PESA) will be prepared based on field and online research, Freedom of Information Act (FOIA) requests, compliance and historical database findings.
- d. Preliminary Site Investigation The environmental consulting staff will conduct soil sampling in the proposed right-of way expansion and interpret sampling results for the affected properties A Preliminary Site Investigation (PSI) will be prepared based on sampling and laboratory findings, including recommendations for remedial action, as warranted. The site testing and sampling will be in compliance with Lake County DOT's "LAKE COUNTY DOT CCDD and UNCONTAMINATED OPERATIONS PRE-QUALIFICAITON FORM" guidelines.
- e. Prepare Environmental Survey Request (ESR) The environmental consultant will prepare the Environmental Survey Request (ESR) on the IDOT online database. All documents and exhibits as provided by the Prime and acquired through research and site reconnaissance will be included.
- f. Prepare Categorical Exclusion II Study The environmental consultant will prepare the NEPA study as a Categorical Exclusion II (CEII). The environmental consultant will provide all necessary data, mapping, and photos for public meetings if necessary.
- g. Wetlands Impact Evaluation There are known wetlands within the project area Following Lake County protocols, the environmental consultant will examine the affected wetlands to determine potential impacts of the project. All necessary forms, exhibits, and maps will be attached with the final document. Mitigation and avoidance will be included in the report.
- h. Prepare cultural resources section of the Project Report.
- i. Identify and analyze land use patterns, future land use, and existing & proposed developments within the study limits.
- j. Assess existing community features and social/economic factors & conditions to establish a baseline condition. Assess social and economic impacts based on the data collected.
- k. Coordination with regulatory agencies.
- a. Coordination

WORKHOURS	8
WORKHOURS SUBCONSULTANT (Services by others)	195
ESTIMATED DIRECT COSTS – SUBCONSULTANT (Services by others)	\$35,604.93
5. Location Drainage Study & Permitting	
a. Existing Drainage System	
General Location Drainage Map	16
Existing Drainage Plan	24
3. Identified Drainage Problems	8
b. Proposed Drainage System	
1. Design Criteria	12
2. Outlet Evaluation	18
3. Stormwater Detention Analysis	48
4. Right-of-Way Analysis	12
5. Proposed Drainage Plan	80
c. Local & Other Agency Coordination, Field Visits – Included as a Part of Task 2	
d. IDNR-OWR Permit	24
e. SWPPP	12
f. NPDES Stormwater Permit	16
g. Lake County Watershed Development Permit	16
h. Erosion and Sediment Control Data Table	12
i. BMP White Paper	12
j. Narrative	24
k. Study Assembly/print/bind/deliver (5 preliminary/5 final)	12
TOTAL WORKHOURS	346
Printing – 10 sets @ 50 pages/set = 500 pages @ \$.015/sheet	\$75.00
ESTIMATED DIRECT COSTS	\$75.00
6. Geotechnical Investigations & Study (Testing Service Corporation, Inc.)	
a. Perform Borings and Pavement Cores based (up to 5 borings,6 cores)	
b. Structural Borings at Anticipated Traffic Control Structures (up to 2, if needed)	
c. Perform Laboratory Testing per the IDOT Geotechnical Manual	
d. Prepare Report including Subgrade and Undercut Recommendations as well as	
Sub drain Locations per Chapter 5 of the IDOT Geotechnical Manual	
e. Review of Report; Incorporate into Documents and Design	8
WORKHOURS	8
WORKHOURS – SUBCONSULTANT (Services by others – hours not included in	
direct costs)	22
ESTIMATED DIRECT COSTS – SUBCONSULTANT (Services by others)	\$14,666.74
7. Alternate Geometric Studies	
a. Plan and Profile Sheets (8 sheets @ 20 scale, 24 hours per sheet)	192
b. Profile & Cross-section Studies (Includes Test Cross-sections in Critical Areas	
& Final Cross-sections at Every 50' Plus Driveways for the Preferred	
Alternative)	100

c. Pavement Design	16
d. Typical Sections and Details (4 sheets @ 16 hours/sheet)	64
e. Determine and Plot Proposed ROW and Easement Requirements	24
f. Develop Preliminary ROW Cost Estimate	16
TOTAL WORKHOURS	412
8. Crash Analysis (To be Included in Project Report)	
a. Review Accident Data and Tabulate (For 4 years of data)	8
b. Analysis of Data (First 3 years)	24
c. Prepare Accident Exhibits/Narrative	32
d. Recommend Countermeasure if Necessary	8
e. Update Analysis for an Additional Year (Prior to Completion of Final Repor	t) 8
TOTAL WORKHOURS	80
9. Traffic Analysis & Intersection Design Studies (To be Included in Project Report)	
a. Review and Analyze existing Traffic Data and Traffic Counts	8
b. Conduct 4 peak hour (2 AM and 2 PM) Turn Movement Traffic Counts, Pro	cess
Traffic Data.	28
c. Determination of Directional Distribution of Traffic Volumes and DHV.	10
d. Develop Proposed Traffic Projections	8
e. Conduct Traffic Analysis on Existing and Projected Traffic, Determine LOS	
Proposed Alternatives	40
f. Prepare Intersection Design Studies (1 locations)	80
TOTAL WORKHOURS	174
Mileage to Site 4 trips@130miles/round trip - 520 miles @\$0.565/mile	\$293.80
10. Traffic Maintenance Analysis (To be Included in Project Report)	
a. Determination of Traffic Maintenance Needs	12
b. Prepare Exhibits	80
c. Narrative for Inclusion into PDR	16
TOTAL WORKHOURS	108
11. Aviation Services	
a. Data Collection – FAA and Airport	16
b. Determine Impacts	24
c. Study Alternatives & Provide Recommendations	40
d. Determine Associated Construction Cost	8
e. Narrative for Inclusion into PDR	16
TOTAL WORKHOURS	104

12. Opinion of Probable Project Cost	
a. Provide a Preliminary Opinion of Probable Construction Cost Based Upon	22
Preliminary Calculated Quantities and Recent Bid Tabulation Data	32 4
b. Include Design, Construction, and Value Engineering as well as ROW Costs	4
TOTAL WORKHOURS	36
13. Public Involvement	
 a. Meeting Preparation – Public Notice, Site Preparation (1 meetings) b. Prepare Public Meeting Visual Display Exhibits, Mosaics, and Handouts (AV presentation not included) Exhibits will include up to 3 display boards, 	24
handouts, and printed questionnaires	68
c. Attend up to 3 Public Meetings	48
d. Coordination and Compilation of Meeting Information	8
TOTAL WORKHOURS	148
Mileage to Lake County DOT 3 trips@90miles/round trip - 270 miles @\$0.565/mile	\$152.55
Printing exhibits—3 - 24 x 36" panel-boards @ \$20.00/board	\$60.00
Printing color handouts – 50 handouts @ \$0.90/color sheet	\$45.00
ESTIMATED DIRECT COSTS	\$257.55
14. Project Design Report	
a. Preliminary Report	
1. Prepare Outline of Report	4
2. Compile Exhibits, Maps, typical sections, Charts, etc.	40
3. Analyze Alternatives	16
4. Bicycle Checklist and Text	8
5. Author Report, Proof and Edit	80
6. Print, Bind, and Deliver (10 copies)	16
b. Final Report	
Incorporate Public Meeting and Agency Coordination Information	24
2. Disposition of Public Comments	12
3. Revision Based upon Preliminary Comments	40
4. Print, Bind, and Deliver Sealed Final PDR (10 copies, 5 CD)	16
TOTAL WORKHOURS	256
Printing -20 sets @ 200 pages/set = 2000 pages @ \$.015/sheet	\$300.00
ESTIMATED DIRECT COSTS	\$300.00
15. Quality Assurance/Quality Control	
TOTAL WORKHOURS	56

TOTAL WORKHOURS 38

ASSUMPTIONS

1. Lake County will supply traffic counts and crash data, RS&H will augment traffic counts as stipulated above.

- 2. Copies of available existing plans surveys or plats will be made available to the consultant.
- 3. The project is anticipated to be processed as a Categorical Exclusion II.

EXCLUSIONS

- 1. Right of Way appraisals and negotiations are not included.
- 2. The preparation of Construction Plans, Specifications, and Final estimates are not included.
- 3. Lighting and Traffic signal design are not included in this scope.
- 4. Construction or bidding phase services are not included in this scope.
- 5. Watermain or sanitary sewer design.
- 6. Utility relocation detailed design.
- 7. Structural design.
- 8. Permit fees or any proposed electrical service fees.



PHASE I ENGINEERING SERVICES

Wadsworth Road @ Lewis Avenue Phase 1

Prepared for

LAKE COUNTY DIVISION OF TRANSPORTATION

CECS - RS&H

PAYROLL ESCALATION TABLE FIXED RAISES

	178.83% 3.00%					
DATE 10/23/13 PTB NO. NA	OVERHEAD RATE COMPLEXITY FACTOR % OF RAISE		4/2/2015 - 5/1/2015	l ²	5.89%	2.34%
	18 MONTHS 11/1/2013 4/1/2014	ESCALATION PER YEAR	4/2/2014 - 4/1/2015	12	68.67%	project would be:
Reynolds, Smith, and Hills, Inc. Prime	CONTRACT TERM START DATE RAISE DATE		11/1/2013 - 4/1/2014	ro 10 82	= 27.78%	Ĕ
FIRM NAME PRIME/SUPPLEMENT						

PAYROLL RATES

FIRM NAME PRIME/SUPPLEMENT PSB NO.

Reynolds, Smith, and Hi DATE	10/23/13
Prime	
NA	

ESCALATION FACTOR

2.34%

CLASSIFICATION	CURRENT RATE	CALCULATED RATE
Principal	\$88.15	\$70.00
Engineer IV	\$66.60	\$68.16
ngineer III	\$47.46	\$48.57
Ingineer II	\$36.80	\$37.66
Engineer I	\$27.97	\$28.62
Planner V	\$74.56	\$60.00
Planner IV	\$58.84	\$60.00
Planner III	\$42.02	\$43.00
Planner II	\$32.96	\$33.73
Planner I	\$28.25	\$28.91
echnician IV	\$37.53	\$38.41
echnician III	\$29.45	\$30.14
echnician II	\$26.50	\$27.12
Environmental Specialist	\$39.46	\$40.38
Administrative Assistant	\$21.15	\$21.64

Subconsultants

FIRM NAME PRIME/SUPPLEMENT PSB NO.

Reynolds, Smith, and Hills, Inc.
Prime
NA

DATE

10/23/13

NAME	Direct Labor Total	Contribution to Prime Consultant
Environmental Design International	18,825.72	2,259.09
Testing Service Corporation	774.32	92.92
Kowalenko Consulting	9,706.72	1,164.81
-		0.00
		0.00
		0.00
		0.00
		0.00
Total	29,306.76	3,516.81

COST ESTIMATE OF CONSULTANT SERVICES COST PLUS FIXED FEE

OVERHEAD RATE COMPLEXITY FACTOR Reynolds, Smith, and Hills, Inc.
NA
Prime

FIRM PSB PRIME/SUPPLEMENT

DATE

DF-824-039 REV 12/04 **10/23/13**

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HEM	MANHOURS	PAYROLL	٥ŏ	DIRECT	FIXED	Direct	≽B	DBE	TOTAL	GRAND
			FRINGE BENF	cosTs	ш	Costs	OTHERS	TOTAL		TOTAL
	(A)	(B)	(၁)	(0)	(E)	(F)	(0)	(H)	(B-G)	
Data Collection & Review	35	3,897.00	6,969.01	220.35	1,441.89				12,528.26	3.46%
Coordination & Meetings	96	4,572.32	8,176.68	355.95	1,691.76				14,796.70	4.09%
Survey	8	388.56			143.77		51,647.44		52,874.62	14.61%
Environmental	8	388.56			143.77		35,604.93		36,832.11	10.18%
Drainage	346	14,457.77	25		5,349.37	75.00			45,736.96	12.64%
Geotechnical	8	388.56	694.86		143.77		14.666.75		15,893.93	4.39%
Geometric Studies	412	15,263.19	27		5,647.38				48,205.73	13.32%
Crash Analysis	08	2,907.47	5,199.43		1,075.77	:			9,182.67	2.54%
Traffic Analysis/IDS	174	6,369.03	11,389.73	293.80	2,356.54				20,409.10	5.64%
MOT	108	3,673.21			1,359.09				11,601.10	3.21%
Aviation Services	104	5,023.90			1,858.84				15,866.97	4.38%
Estimating	38	1,530.33			566.22				4,833.23	1.34%
Public Involvement	148	6,485.40	11,597.84	152.55	2,399.60	105.00			20,740.38	5.73%
PDR	256	9,733.89	17,407.12		3,601.54	300.00			31,042.55	8.58%
QAQC	99	3,864.72	6,911.28		1,429.95				12,205.94	3.37%
Administration	38	1,801.69			666.63				5,690.28	1.57%
Subconsultant DI					3.516.81				3,516.81	0.97%
O WHOT	4070	00 745 50	00 200 8 8 8	20,000	00 000 00	400.00	0,000,00	000	20 720 720	400 000

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AVERAGE HOURLY PROJECT RATES

FIRM Reynolds, Smith, and Hills, Inc. PSB NA PRIME/SUPPLEMENT Prime

DATE 10/23/13

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PAYROLL	AVG	TOTAL PROJECT RATES			Data Coll	a Collection & Review	eview C	oordinat	Coordination & Meetings Survey	etinasis	urvev		۲	Environmenta	rental	ľ	Drainage		
	HOURLY	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Watd	Hours	%	Watd
CLASSIFICATION	RATES		Part.	Avg		Part.						نہ			Part.	Avg		Part	Avg
Principal	70.00	78	3.96%	2.77	œ	8.70%	60.9	8	8.33%	5.83									
Engineer IV	68.16	70	3.55%	2.42													24	6.94%	4.73
Engineer III	48.57	558	28.32%	13.76	32	34.78%	16.89	64 6	66.67%	32.38	8	100.00%	48.57	8	100.00%	48.57	112	32.37%	15.72
Engineer II	37.66	672	34.11%	12.85		17.39%	6.55	24 2	25.00%	9.42							140	40.46%	15.24
Engineer I	28.62	176	8.93%	2.56	16	17.39%	4.98												
Planner V	60.00	0																	
Planner IV	60.00	20	1.02%	0.61	4	4.35%	2.61												
Planner III	43.00	0																	
Planner II	33.73	0									L								
Planner I	28.91	0																	
Technician IV	38.41	0											_						
Technician III	30.14	388	19.70%	5.94	16	17.39%	5.24										70	20.23%	6.10
Technician II	27.12	0																	
Environmental Speci		0																	
Administrative Assist	21.64	8	0.41%	60.0															
		0																	
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TOTALS		1970	100%	\$40.99	92	100.00%	\$42.36	96	100%	\$47.63		100%	\$48.57	∞	100%	\$48.57	346	100%	\$41.79

PREPARED BY THE AGREEMENTS UNIT

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AVERAGE HOURLY PROJECT RATES

FIRM Reynolds, Smith, and Hills, Inc. PSB NA PRIME/SUPPLEMENT Prime

10/23/13 DATE SHEET

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	Wgtd	Avg		10.49	11.21	17.38			9.23																\$48.31
ervices	%	Part.		15.38%	23.08%	46.15%			15.38%																100%
Aviation Services	Hours			16	24	48			16		ļ		ļ												104
	Wgtd	Avg			3.60	12.55								17.86				******							\$34.01
	%	Part.			7.41%	33.33%								59.26%											100%
MOT	Hours				8	36								64								 			108
Ī	Wgtd	Avg			8.93	17.32	7.24							3.12											\$36.60
Traffic Analysis/IDS	%	Part.			18.39%	45.98%	25.29%							10.34%											100%
raffic An	Hours				32	80	44							18											174
İ	Wgtd	Avg			4.86	22.60	2.86							6.03											\$36.34
ilysis	%	Part.			10.00%	%00.09	10.00%							20.00%											100%
Crash Analysis	Hours				8	48	8							16											80
ľ	Wgtd	Avg			11.32	13.89	3.06							8.78											\$37.05
Studies	%	Part.			23.30%	36.89%	10.68%							29.13%							 				100%
Geometric Studies	Hours				98	152	44							120						_	 				412
	Wgtd	Avg			48.57								-												\$48.57
ical	%	Part.			100.00%																				100%
Geotechnical	Hours				8																	 	 		8
AVG	HOURLY	RATES	70.00	68.16	48.57	37.66	28.62	00.09	00.09	43.00	33.73	28.91	38.41	30.14	27.12	40.38	21.64								
PAYROLL		CLASSIFICATION	Principal	Engineer IV	Engineer III	Engineer II	Engineer I	Planner V	Planner IV	Planner III	Planner II	Planner I	Technician IV	Technician III	Technician II	Environmental Speci	Administrative Assist								TOTALS

10/23/13

DATE

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AVERAGE HOURLY PROJECT RATES

FIRM Reynolds, Smith, and Hills, Inc. PSB NA NA PRIME/SUPPLEMENT Prime

***************************************		Wgtd																						 3
က		%	Part.																					 ,
P		Hours																						,
က		Wgtd	Avg	14.74		28.12												4.56	 					. !
	ration	%	Part.	21.05%		57.89%								į				21.05%						
SHEET	Administration	Hours		æ		22												8						
0,		Wgtd	Avg	32.50	36.51																			
		%	Part.	46.43%	53.57%																			
	QAQC	Hours		76	33																			1
	Ī	Wgtd	Avg	1.09		15.18	9.42	7.16							5.18									
		%	Part.	1.56%		31.25%	25.00%	25.00%							17.19%									
	PDR	Hours		4		80	64	64							44									
	ľ	Wgtd	Avg	11.35		13.13	11.20								8.15									
	Public Involvement	%	Part.	16.22%		27.03%	29.73%								27.03%									,
	ublic Inv	Hours		24		40	44								40									•
		Wgtd	Avg			21.59	20.92																	
	_	%	Part.			44.44%	25.56%																	
	Estimating	Hours				16	20	-																
	AVG		RATES	70.00	68.16	48.57	37.66	28.62	60.00	60.00	43.00	33.73	28.91	38.41	30.14	27.12	40.38	21.64						
	PAYROLL		CLASSIFICATION	Principal	Engineer IV	Engineer III	Engineer II	Engineer I	Planner V	Planner IV	Planner III	Planner II	Planner I	Technician IV	Technician III	Technician II	Environmental Speci	Administrative Assist						



PHASE I ENGINEERING SERVICES

Wadsworth Road @ Lewis Avenue Phase 1

Prepared for

LAKE COUNTY DIVISION OF TRANSPORTATION

CECS - Subconsultant

Survey – Environmental Design International, Inc.

PAYROLL ESCALATION TABLE FIXED RAISES

;	130.39% 0 3.00%				
DATE 10/14/13 PTB NO. NA	OVERHEAD RATE COMPLEXITY FACTOR % OF RAISE				1.67%
	18 MONTHS 11/1/1/2013 7/1/2014	ESCALATION PER YEAR	7/2/2014 - 5/1/2015	10	57.22% oject would be:
Environmental Design International, inc. Prime	CONTRACT TERM START DATE RAISE DATE	_	11/1/2013 - 7/1/2014	89 %	= 44.44% = 1.0167 The total escalation for this project
FIRM NAME PRIME/SUPPLEMENT					

PAYROLL RATES

FIRM NAME PRIME/SUPPLEMENT PSB NO.

Environmental Design Ir DATE	10/14/13
Prime	
NA	

ESCALATION FACTOR

1.67%

CLASSIFICATION	CURRENT RATE	CALCULATED RATE
Survey Manager	\$48.08	\$48.88
PLS	\$38.25	\$38.89
Crew Chief	\$30.00	\$30.50
Instrument Person	\$22.00	\$22.37
CADD Technician	\$34.15	\$34.72
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00

Subconsultants

inc.

0.00

FIRM NAME	Environmental Design International,
PRIME/SUPPLEMENT	Prime
PSB NO.	NA

Total

DATE 10/14/13

NAME	Direct Labor Total	Contribution to Prime Consultant
		0.00
		0.00
		0.00
		0.00
		0.00
		0.00
		0.00
		0.00

0.00

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COST ESTIMATE OF CONSULTANT SERVICES COST PLUS FIXED FEE

Environmental Design International, inc.

NA

Prime

CC FIRM PSB PRIME/SUPPLEMENT

OVERHEAD RATE COMPLEXITY FACTOR

DF-824-039 REV 12/04 **10/14/13**

DATE

1,3099

DBE				OVERHEAD	IN-HOUSE		Outside	SERVICES			% OF
DROP	ITEM	MANHOURS	PAYROLL	≪	DIRECT	FIXED	Direct	À	DBE	TOTAL	GRAND
BOX				FRINGE BENF	COSTS	FEE	Costs	OTHERS	TOTAL		TOTAL
		(A)	(B)	(0)	(Q)	(E)	(E)	(0)	(H)	(B-G)	
DBE	Locate ROW Monuments		1,885.98	2,470.44	135.00	697.81			5,189.23	5,189.23	10.05%
DBE	Research ROW	38	1,537.69	2,014.22		568.94			4,120.85	4,120.85	7.98%
DBE	Establish Control	76	2,107.63		225.00	779.82			5,873.24	5,873.24	11.37%
DBE	Topographic Survey	265	7,962.74	ζ	495.00	2,946.21			21,834.34	21,834.34	42.28%
DBE	Legal Descriptions	14	564.41			208.83			1,512.57	1,512.57	2.93%
DBE	R.O.W Plats	92	2,862.04	3		1,058.95			7,669.98	7,669.98	14.85%
DBE	Boring Locations	8	211.47		45.00	78.24			611.71	611.71	1.18%
DBE	Wetland Delineation	20	561.81	735.91		207.87			1,595.59	1,595.59	3.09%
380	R.O.W. Staking	40	1,131.96	1,482.75	206.40	418.82			3,239.93	3,239.93	6.27%
						0				00	70000
	Subconsultant DL					0.00			1	00.00	0.00 /8
	TOTALS	601	18,825.72	24,659.81	1,196.40	6,965.52	00.00	00.0	51,647.44	51,647.44	100.00%

DBE

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DBE 100.00%

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\$40.32

100%

7

\$30.05

100%

265

\$27.73

101%

9/

\$40.47

100%

38

100.00% \$29.47

9

\$31.27

100%

602

TOTALS

AVERAGE HOURLY PROJECT RATES

FIRM Environmental Design International, inc.
PSB NA
PRIME/SUPPLEMENT Prime

DATE 10/14/13

	<u> </u>	Wgtd	Avg	6.98	33.33																								\exists	
so l	Legal Descriptions	%	Part.	14.29%	85.71%																									
AO I	Legai Des	Hours		2	12 8																									
-		Vgtd	Avg	0.92	2.93	9.67	7.09	9.43																						
•	Topographic Survey	%	Part.	1.89%	7.55%	31.70%	31.70%	27.17%																						
SHEET	Topograp	Hours	*********	5	20	84	84	72																	-					
Ø	ľ	Wgtd	Avg	0.64	2.05	14.45	10.59																							
	Control	%	Part.	1.32%	5.26%	47.37%	47.37%																							
	Establish Control	Hours		· •	4	36	36																							
		Wgtd	Avg	7.72	32.75	_,,,_												-												
	ROW	%	Part.	15.79%	84.21%																									
	Research ROW	Hours		9	32																									
		Wgtd	Avg	1.53	4.86	11.44	8.39	3.25																						
	Μ̈́	%	Part.	3.13%	12.50%	37.50%	37.50%	9.38%																						
	Locate ROW	Hours		2	8	24		9																						
		Wgtd	Avg	1.62	7.62	8.71	6.39	6.92																						
		<u>"</u>	Part	3.32%	19.60%	28.57%	28.57%	19.93%																						
	TES				1	2	2	1																						
	JECT RAT	Hours		20	118	172	172	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL PROJECT RATES	_																												
		HOURLY	RATES	48.88	38.89	30.50	22.37	34.72																						
: 												:	<u> </u>					_	_			_			<u> </u>					
	PAYROLL		CLASSIFICATION	Survey Manager	PLS	Crew Chief	Instrument Person	CADD Technician																						

PREPARED BY THE AGREEMENTS UNIT

AVERAGE HOURLY PROJECT RATES

FIRM Environmental Design International, inc. PSB NA NA PRIME/SUPPLEMENT Prime

10/14/13 DATE

ιΩ P. 2 SHEET

PAYROLL	AVG	R.O.W PI	ats		Boring Locations	cations		Wetland D	Wetland Delineation		R.O.W. Staking	taking							
	HOURLY Hours	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd
CLASSIFICATION	RATES		Part.	Avg		Part.			Part.			Part.	Avg		Part.	Avg		Part.	Avg
Survey Manager	48.88	4	5.26%	2.57															
PLS	38.89	40	52.63%	20.47							2	2.00%	1.94						
Crew Chief	30.50				4	20.00%	15.25	8	40.00%	12.20	16	40.00%	12.20						
Instrument Person	22.37				4	20.00%	11.18	8	40.00%	8.95	16	40.00%	8.95						
CADD Technician	34.72	32	42.11%	14.62				4	20.00%	6.94	9	15.00%	5.21						
TOTALS		76	100%	\$37.66	8	100%	\$26.43	20	100%	\$28.09	40	100%	\$28.30	0	%0	\$0.00	0	%0	\$0.00



PTB/Item No:



Firm Name: Environmental Design International, inc

REQUIRED - DIRECT COSTS WILL ONLY BE ACCEPTED FOR INCLUSION IN CONTRACT WHEN DOCUMENTED ON THIS FORM.

(Indicate only rate and quantities for this specific project.)

Lodging (Overnight)	ltem	Allowable	Contract (1) Rate	Quantity (n/a for work orders)	Total
Lodging (Extended) Air Fare Coach Rate (with two weeks' notice) Air Fare Coach Rate (with two weeks' notice) Air Fare Coach Rate (with two weeks' notice) As Approved Vehicles: Mileage Daily Rate (owned or leased) S42/diay S45.00 24.00 S1,08	Per Diem	Up to State Rate Maximum			\$0.00
Air Fare Coach Rate (with two weeks' notice) Vehicles: Mileage Up to State Rate Maximum Satisface (Premium Portion) Covertime Covertime (Premium Portion) Covertime Cove	Lodging (Overnight)	Up to State Rate Maximum			\$0.00
Vehicles: Milleage Up to State Rate Maximum \$ 45.00 \$ 1.08 Daily Rate (owned or leased) \$45/day \$45.00 24.00 \$1.08 Overtime (Pemium Portion) \$ 5 Toils Actual Cost \$ 5 Photo Processing Actual Cost \$ 5 Cell Phones – (traffic systems, survey, phase III Actual Cost \$ 5 Cell Phones – (traffic systems, survey, phase III Actual Cost \$ 5 Cell Phones – (traffic systems, survey, phase III only) Actual Cost \$ 5 Cell Phones – (traffic systems, survey, phase III only) Actual Cost \$ 5 Cell Phones – (traffic systems, survey, phase III only) Actual Cost \$ 5 Overnight DeliveryProstage/Courier Service Actual Cost \$ 5 Cayles of Deliverables/Mylars (uniside) Actual Cost \$ 5 Copies of Deliverables/Mylars (uniside) Actual Cost \$ 5 Capies of Deliverables/Mylars (uniside) Actual Cost \$ 5 Capies of Deliverables/Mylars (uniside) Actual Cost \$ 5 Capies of Deliverables/Mylars (uniside) Actual Cost \$ 5 </td <td>Lodging (Extended)</td> <td>Actual Cost (based on IDOT's and firm's policy)</td> <td></td> <td></td> <td>\$0.00</td>	Lodging (Extended)	Actual Cost (based on IDOT's and firm's policy)			\$0.00
Mileage	Air Fare Coach Rate (with two weeks' notice)	As Approved			\$0.00
Daily Rate (owned or leased) \$45/day \$45.00 \$1,00 \$1,00	Vehicles:				
Overtime					\$0.00
Tolls Actual Cost Spide Photo Processing S			\$45.00	24.00	\$1,080.00
Digital Photo Processing Actual Cost \$ Photo Processing Actual Cost \$ STO/month/phone (maximum) — Phase III (max. only) of three without IDOT approval) of three without IDOT approval) \$ Telephone Usage (traffic systems, survey, phase III only) Actual Cost \$ STO/month/phone (maximum) — Phase III (max. only) of three without IDOT approval) \$ Telephone Usage (traffic system monitoring) Actual Cost \$ STO/month/phone (maximum) — Phase III (max. only) of three without IDOT approval) \$ Store Interval					\$0.00
Photo Processing Actual Cost \$ Cell Phones - (traffic systems, survey, phase III \$70/month/phone (maximum) - Phase III (max. orly) of three without IDOT approval) Telephone Usage (traffic system monitoring) Actual Cost \$ 2-Way Radio (survey or phase III only) Actual Cost \$ 2-Way Radio (survey or phase III only) Actual Cost \$ 2-Way Radio (survey or phase III only) Actual Cost \$ 2-Way Radio (survey or phase III only) Actual Cost \$ 3-Way Radio (survey or phase III only) Actual Cost \$ 3-Way Radio (survey or phase III only) Actual Cost \$ 3-Way Radio (survey or phase III only) Actual Cost \$ 3-Way Radio (survey or phase III only) Actual Cost \$ 3-Way Radio (survey or phase III only) Actual Cost \$ 3-Way Radio (survey or phase III only) Actual Cost \$ 3-Way Radio (survey or phase III only) Actual Cost \$ 3-Way Radio (survey or phase III only) Actual Cost \$ 3-Way Radio (survey or phase III only) Actual Cost \$ 3-Way Radio (survey or phase III only) Actual Cost \$ 3-Way Radio (survey or phase III only) Actual Cost \$ 3-Way Radio (survey or phase III only) Actual Cost (max. \$15.00/hour) Actual Cost (max. \$15.00/hour) Actual Cost (max. \$15.00/hour) Actual Cost (max. \$15.00/hour) Actual Cost (max. \$15.00/hour) Actual Cost (max. \$15.00/hour) Actual Cost (max. \$15.00/hour) Actual Cost (max. \$15.00/hour) Actual Cost (max. \$15.00/hour) Actual Cost (max. \$15.00/hour) Actual Cost (max. \$15.00/hour) Actual Cost (max. \$15.00/hour) Actual Cost (max. \$15.00/hour) Actual Cost (max. \$15.00/hour) Actual Cost (max. \$15.00/hour) Actual Cost (max. \$15.00/hour) Actual Cost (max. \$15.00/hour) Actual Cost (max. \$15.00/hour) Actual Cost (max. \$15.00/hour) Actual Cost (max. \$15.00/hour) Actual Cost (max. \$15.00/hour) Actual Cost (max. \$15.00/hour) Actual Cost (max. \$15.00/hour) Actual Cost (max. \$15.00/hour) Actual Cost (max. \$15.00/hour) Actual Cost (max. \$15.00/hour) Actual Cost (max. \$15.00/hour) Actual Cost (max. \$15.00/hour) Actual Cost (max. \$15.00/hour) Actual Cost (max. \$15.00/hour) Actual Cost (max. \$15.00/hour) A					\$0.00
Cell Phones — (traffic systems, survey, phase III only) Stolmonth/phone (maximum) — Phase III (max. of three without IDOT approval) Z-Way Radio (survey or phase III only) Actual Cost Actual Cost Septing to Peliverables/Mylars (in-house) Copies of Deliverables/Mylars (outside) Specific Insurance (required for project) Actual Cost CADD Actual Cost Actual Cost Specific Insurance (required for project) Actual Cost Actual Cost CADD Actual Cost Actual Cost Shortine Mylars (outside) Specific Insurance (required for project) Actual Cost CADD Actual Cost Actual Cost Actual Cost Sepcific Insurance (permanent) Actual Cost Actual Cost Web Site Actual Cost Actual Cost Septine Insurance (premanent) Actual Cost Actual Cost Septine Insurance (premanent) Actual Cost Actual Cost Septine Insurance (premanent) Actual Cost (requires 2-3 quotes) Actual Cost (requires 2-3 quotes) Actual Cost (premanent) A					\$0.00
ority) of three without IDOT approval) Actual Cost Security of the provided in the provided	~	<u> </u>			\$0.00
Telephone Usage (traffic system monitoring) 2-Way Radio (survey or phase III only) Actual Cost Overnight Delivery/Postage/Courier Service Actual Cost Copies of Deliverables/Mylars (in-house) Actual Cost Specific Insurance (required for project) Actual Cost CADD Actual Cost (max. \$15.00/hour) Monuments (permanent) Actual Cost Sepecific Insurance (required for project) Actual Cost Actual Cost Actual Cost Monuments (permanent) Actual Cost Actual Cost Actual Cost Actual Cost Sepecific Insurance (required for project) Actual Cost Actual Cost Actual Cost Sepecific Insurance (required for project) Actual Cost Actual Cost Sepecific Insurance (required for project) Actual Cost Actual Cost Sepecific Insurance (required for project) Actual Cost Actual Cost Sepecific Insurance (required for project) Actual Cost (requires 2-3 quotes) Actual Cost (requ					\$0.00
2-Way Radio (survey or phase III only) Actual Cost Svernight Delivery/Postage/Courier Service Actual Cost Copies of Deliverables/Mylars (in-house) Actual Cost Copies of Deliverables/Mylars (outside) Actual Cost Specific Insurance (required for project) Actual Cost Actual Cost Actual Cost Actual Cost Actual Cost Monuments (permanent) Actual Cost (requires 2-3 quotes) Actual Cost (r					\$0.00
Overnight Delivery/Postage/Courier Service Actual Cost \$ Copies of Deliverables/Mylars (in-house) Actual Cost \$ Specific Insurance (required for project) Actual Cost (max. \$15.00/hour) \$ Monuments (permanent) Actual Cost \$ Advertisements Actual Cost \$ Saver Site Actual Cost \$ Saver Site Actual Cost \$ Seatily Rental for Public Meetings & Seatily Rental Footony Rental for Public Meetings & Seatily Rental Footony Rental F	, , , , , , , , , , , , , , , , , , , ,				\$0.00
Copies of Deliverables/Mylars (in-house) Actual Cost Specific Insurance (required for project) Actual Cost Actual Cost Specific Insurance (required for project) Actual Cost Actual Cost Actual Cost Monuments (permanent) Actual Cost Actual Cost Advertisements Actual Cost Actual Cost Actual Cost Actual Cost Actual Cost Specific Insurance (required for project) Actual Cost Actual Cost Actual Cost Actual Cost Specific Insurance (required for project) Actual Cost Actual Cost Actual Cost Specific Insurance (requires actual Cost (requires 2-3 quotes) Actual Cos					\$0.00
Copies of Deliverables/Mylars (outside) Actual Cost Specific Insurance (required for project) Actual Cost Actual Cost Actual Cost Monuments (permanent) Actual Cost Actual Cost Actual Cost Actual Cost Monuments (permanent) Actual Cost Actual Cost Actual Cost Web Site Actual Cost Facility Rental for Public Meetings & Actual Cost (requires 2-3 quotes) Facility Facility Rental for Public Meetings & Actual Cost (requires 2-3 quotes) Facility Facility Rental for Public Meetings & Actual Cost (requires 2-3 quotes) Facility Facility Rental for Public Meetings & Actual Cost (requires 2-3 quotes) Facility Facility Rental for Public Meetings & Actual Cost (requires 2-3 quotes) Facility Facility Rental for Public Meetings & Actual Cost (requires 2-3 quotes) Facility Facility Rental for Public Meetings & Actual Cost (requires 2-3 quotes) Facility Facility Rental for Public Meetings & Actual Cost (requires 2-3 quotes) Facility Rental for Public Meetings & Actual Cost (requires 2-3 quotes) Facility Rental for Public Meetings & Actual Cost (requires 2-3 quotes) Facility Rental for Public Meetings & Actual Cost (requires 2-3 quotes) Factual Cost (requires 2-3 quotes) Facility Rental for Public Meeti		<u> </u>			\$0.00
Specific Insurance (required for project) Actual Cost Actual Cost (max. \$15.00/hour) Monuments (permanent) Actual Cost Advertisements Actual Cost Web Site Actual Cost Sactual Cost Web Site Actual Cost Actual Cost Sactual Cost Actual Cost Sactual Cost S					\$0.00
Actual Cost (max. \$15.00/hour) Monuments (permanent) Actual Cost Advertisements Actual Cost Web Site Actual Cost Exhibits/Renderings & AV Actual Cost Actual Cost Actual Cost Actual Cost Actual Cost Strinscriptions (specific to project) Actual Cost Actual Cost Recording Fees Actual Cost Courthouse Fees Actual Cost Actual Cost Stom Samples Actual Cost Storm Sewer Cleaning and Televising Actual Cost (requires 2-3 quotes) Actual Cost (requires 2-3 quotes) Actual Cost (requires 2-3 quotes) Shift Differential Actual Cost (requires 2-3 quotes) Shift Differential Actual Cost (requires 2-3 quotes) Scanner Rental Include 2-3 vendor quotes and explanation for necessity. Tie Caps Actual Cost \$116.40 1.00					\$0.00
Monuments (permanent) Actual Cost Advertisements Actual Cost Actual Cost Web Site Actual Cost Facility Rental for Public Meetings & Exhibits/Renderings & ACtual Cost Facility Rental for Public Meetings & ACTUAL Cost Storm Sever Cleaning & ACTUAL Cost ACTUAL Cost Storm of Soil Samples ACTUAL Cost ACTUAL Cost Storm Sewer Cleaning and Televising ACTUAL Cost (requires 2-3 quotes) Traffic Control and Protection ACTUAL Cost (requires 2-3 quotes) ACTUAL COST (requires 2-3 quotes) Stift Differential ACTUAL COST (requires 2-3 quotes) ACTUAL COST (requires 2	· · · · · · · · · · · · · · · · · · ·				\$0.00
Advertisements Actual Cost Web Site Actual Cost Facility Rental for Public Meetings & Exhibits/Renderings & AV Actual Cost Transcriptions (specific to project) Actual Cost Recording Fees Actual Cost Courthouse Fees Actual Cost Testing of Soil Samples Actual Cost Lab Services Actual Cost Storm Sewer Cleaning and Televising Actual Cost (requires 2-3 quotes) Actual Cost (requires 2-3 quotes) Actual Cost (requires 2-3 quotes) Shift Differential Actual Cost (requires 2-3 quotes) Actual Cost (requires 2-3 quotes) Shift Differential Actual Cost (requires 2-3 quotes) Actual Cost (requires 2-3 quotes) Scanner Rental Include 2-3 vendor quotes and explanation for necessity. Tie Caps Actual Cost Storm Sewer Cleaning and Televising Actual Cost (requires 2-3 quotes) Scanner Rental Include 2-3 vendor quotes and explanation for necessity.					
Web Site					\$0.00 \$0.00
Facility Rental for Public Meetings & Exhibits/Renderings & AV Actual Cost \$ Exhibits/Renderings & AV Actual Cost \$ Recording Fees Actual Cost \$ Courthouse Fees Actual Cost \$ Testing of Soil Samples Actual Cost \$ Lab Services Actual Cost \$ Storm Sewer Cleaning and Televising Actual Cost (requires 2-3 quotes) \$ Traffic Control and Protection Actual Cost (requires 2-3 quotes) \$ Actual Cost (requires 2-3 quotes) \$ Utility Exploratory Trenching Actual Cost (requires 2-3 quotes) \$ Shift Differential Actual Cost (requires 2-3 quotes) \$ Actual Cost (requires 2-3 quotes) \$ Shift Differential Actual Cost (based on IDOT's and firm's policy) \$ Actual Cost (requires 2-3 quotes) \$ Scanner Rental Include 2-3 vendor quotes and explanation for necessity. \$ Actual Cost \$ \$ 116.40 1.00					\$0.00
Transcriptions (specific to project) Recording Fees Actual Cost Courthouse Fees Actual Cost Testing of Soil Samples Actual Cost Lab Services Actual Cost Storm Sewer Cleaning and Televising Actual Cost (requires 2-3 quotes) Aerial Photography and Mapping Actual Cost (requires 2-3 quotes) Actual Cost (requires 2-3 quotes) Actual Cost (requires 2-3 quotes) Shift Differential Actual Cost (requires 2-3 quotes) Shift Differential Actual Cost (requires 2-3 quotes) Actual Cost (requires 2-3 quotes) Shift Differential Actual Cost (based on IDOT's and firm's policy) Actual Cost (requires 2-3 quotes) Scanner Rental Include 2-3 vendor quotes and explanation for necessity. Tie Caps Actual Cost \$ \$116.40	Facility Rental for Public Meetings &				\$0.00
Recording Fees Actual Cost \$ Courthouse Fees Actual Cost \$ Testing of Soil Samples Actual Cost \$ Lab Services Actual Cost \$ Storm Sewer Cleaning and Televising Actual Cost (requires 2-3 quotes) \$ Traffic Control and Protection Actual Cost (requires 2-3 quotes) \$ Aerial Photography and Mapping Actual Cost (requires 2-3 quotes) \$ Utility Exploratory Trenching Actual Cost (requires 2-3 quotes) \$ Shift Differential Actual Cost (based on firm's policy) \$ PROJECT Site Travel Actual Cost (requires 2-3 quotes) \$ Actual Cost (requires 2-3 quotes) \$ Scanner Rental Include 2-3 vendor quotes and explanation for necessity. \$ Tie Caps Actual Cost \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$					\$0.00
Courthouse Fees Actual Cost \$ Testing of Soil Samples Actual Cost \$ Lab Services Actual Cost \$ Storm Sewer Cleaning and Televising Actual Cost (requires 2-3 quotes) \$ Traffic Control and Protection Actual Cost (requires 2-3 quotes) \$ Aerial Photography and Mapping Actual Cost (requires 2-3 quotes) \$ Utility Exploratory Trenching Actual Cost (requires 2-3 quotes) \$ Shift Differential Actual Cost (based on firm's policy) \$ PROJECT Site Travel Actual Cost (requires 2-3 quotes) \$ Actual Cost (requires 2-3 quotes) \$ Scanner Rental Include 2-3 vendor quotes and explanation for necessity. \$ Tie Caps Actual Cost \$116.40 1.00					\$0.00
Testing of Soil Samples Actual Cost Storm Sewer Cleaning and Televising Actual Cost (requires 2-3 quotes) Traffic Control and Protection Actual Cost (requires 2-3 quotes) Aerial Photography and Mapping Actual Cost (requires 2-3 quotes) Utility Exploratory Trenching Actual Cost (requires 2-3 quotes) Shift Differential Actual Cost (based on firm's policy) PROJECT Site Travel Actual Cost (requires 2-3 quotes) Actual Cost (requires 2-3 quotes) Scanner Rental Include 2-3 vendor quotes and explanation for necessity. Tie Caps Actual Cost Actual Cost Stanta C	•				\$0.00
Lab Services Actual Cost Storm Sewer Cleaning and Televising Actual Cost (requires 2-3 quotes) Traffic Control and Protection Actual Cost (requires 2-3 quotes) Aerial Photography and Mapping Actual Cost (requires 2-3 quotes) Utility Exploratory Trenching Actual Cost (requires 2-3 quotes) Shift Differential Actual Cost (based on firm's policy) PROJECT Site Travel Actual Cost (based on IDOT's and firm's policy) Actual Cost (requires 2-3 quotes) Actual Cost (requires 2-3 quotes) Scanner Rental Include 2-3 vendor quotes and explanation for necessity. Tie Caps Actual Cost \$ \$116.40 \$ 1.00				-	\$0.00
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Tie Caps Actual Cost \$116.40 1.00	Scanner Rental	Include 2-3 vendor quotes and explanation for			\$0.00
11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Tie Caps		\$116.40	1.00	\$116.40

¹⁾ Used to determine upper limit of compensation for direct cost. Unless maximum is specified under allowable, bill at actual cost.



PHASE I ENGINEERING SERVICES

Wadsworth Road @ Lewis Avenue Phase 1

Prepared for

LAKE COUNTY DIVISION OF TRANSPORTATION

CECS – Subconsultant

Geotechnical – Testing Service Corporation, Inc.

PAYROLL ESCALATION TABLE FIXED RAISES

	182.99%				
DATE 10/14/13 PTB NO. NA	OVERHEAD RATE COMPLEXITY FACTOR % OF RAISE				0.00%
	18 MONTHS 11/1/2013 6/30/2014	ESCALATION PER YEAR	7/1/2014 - 4/30/2015	10	
Testing Service Corporation Prime	CONTRACT TERM START DATE RAISE DATE	ES	11/1/2013 - 6/30/2014	8 2 7.	= 44.44% 55.56% = 1.0000 The total escalation for this project would be:
FIRM NAME PRIME/SUPPLEMENT					

PAYROLL RATES

FIRM NAME PRIME/SUPPLEMENT PSB NO.

Testing Service Corpora DATE	10/14/13
Prime	****
NA	

ESCALATION FACTOR

0.00%

CLASSIFICATION	CURRENT RATE	CALCULATED RATE
Layout Crew Chief	\$39.88	\$39.88
Professional Engineer	\$33.44	\$33.44
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
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		\$0.00

Subconsultants

PRIME/SUPPLEMENT PSB NO.	Prime NA	orporation	DATE	10/14/13
NAME	Direct Labor Total	Contribution to Prime Consultant		
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		0.00)	
		0.00)	
		0.00)	
		0.00)	
		0.00)	
		0.00)	
		0.00)	

0.00

0.00

Total

COST ESTIMATE OF CONSULTANT SERVICES

PRIME/SUPPLEMENT FIRM

Testing Service Corporation

NA Prime

OVERHEAD RATE COMPLEXITY FACTOR

1.8299

DF-824-039 10/14/3

DATE

DBE				OVERHEAD	SUOH-NI		Outside	SERVICES			% OF
ROP	ITEM	MANHOURS	PAYROLL	ø	DIRECT	FIXED	Direct	ВҰ	DBE	TOTAL	GRAND
BOX				FRINGE BENF	COSTS	FEE	Costs	OTHERS	TOTAL		TOTAL
		(A)	(B)	(၁)	(<u>a</u>)	(E)	(F)	(0)	(H)	(B-G)	
	Staking & Utility Clearaance	9	239.28	437.86		88.53				765.67	5.22%
	Preparation Permit Application	-	33.44	61.19		12.37				107.00	0.73%
	Soils Borings - Portal to Portal		00.0	00.00	4,280.00	0.00				4,280.00	29.18%
	Traffic Control - Drilling		00.00	00'0		00.0	1,805.00			1,805.00	12.31%
	Traffic Control Coring		00.0	00.00		00.0	1,805.00			1,805.00	12.31%
•	Laboratory Testing - Boring		00.00	00.0	1,063.00	00.0				1,063.00	7.25%
	Laboratory Testing - Coring		00.0	00.00	162.00	00.0				162.00	1.10%
	Engineering & reporting	15	501.60	917.88		185.59				1,605.07	10.94%
	Bit Wear/ Backfill Holes		00.00	00.0	424.00	00.00				424.00	2.89%
	Permit Cost		0.00	00.0		00.0	750.00			750.00	5.11%
	Coring - Portal to portal		00.00	00.0	1,900.00	00.0				1,900.00	12.95%
						1					
	C transfer or or or					000				000	%UU U
	Subconsultant DL					0.00					0.00.0
	TOTALS	22	774.32	1,416.93	7,829.00	286.50	4,360.00	0.00	0.00	14,666.75	100.00%

PREPARED BY THE AGREEMENTS UNIT

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SHEET

PREPARED BY THE AGREEMENTS UNIT

DATE 10/14/13 AVERAGE HOURLY PROJECT RATES Testing Service Corporation
NA
Prime FIRM PSB PRIME/SUPPLEMENT

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AVG		RATES	39.88	33.44																										
PAYROLL		CLASSIFICATION	Layout Crew Chief	Professional Engineer																										TOTALS

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PREPARED BY THE AGREEMENTS UNIT

Printed 10/14/2013 1:09 PM

AVERAGE HOURLY PROJECT RATES

10/14/13 7 DATE SHEET FIRM Testing Service Corporation PSB NA NA PRIME/SUPPLEMENT Prime

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Coring - Portal to portal	%	Part.																		%0
Coring - P	Hours																			0
		Avg			••••															\$0.00
st	%	Part.																		%0
Permit Cost	Hours								-	*******	********									0
		Avg																		\$0.00
Bit Wear/ Backfill Holes	%	Part.														-				%0
Bit Wear/	Hours																			0
Г	gtd	Avg		33.44																\$33.44
Engineering & reporting	%	Part.		100.00%																100%
Engineeri	Hours			15																15
		Avg																		\$0.00
Laboratory Testing - Coring	%	Part.																		%0
Laborato	Hours																			0
Boring	Wgtd	Avg																		00.0\$
Laboratory Testing - Boring	%	Part.																		%0
Laborato	Hours																			0
AVG		RATES	39.88	33.44																
PAYROLL		CLASSIFICATION	Layout Crew Chief	Professional Engined																TOTALS

COST ESTIMATE

Wadsworth Road at Lewis Avenue Intersection Improvements 13-00055-06-WR Lake County, IL TSC P.N. 51,766

····	ITEM	UNITS	QTY	RATE		COST
STAK	ING AND UTILITY CLEARANCE					
1.1	Layout Person to Mark Boring Locations, Obtain Surface Elevations and/or Arrange for Clearance of Underground Utilities	Lump Sum	1.0	765.67	\$	765.67
1.2	Permits, Bonds and Other Direct Charges (Estimated)	Cost	1	750.00	\$	750.00
1.3	Preparation of Lake County Permit Application	Lump Sum	1	107.00	\$	107.00
DRILI	ING AND SAMPLING					
	DRILL RIG WITH 2-MAN CREW (Portal to Portal)				·	
2.1	Regular Time (Up to 8.0 Hours per Day)	Hour	8.0	340.00	\$	2,720.00
2.2	Overtime (Over 8.0 Hours or Saturday)	Hour	4.0	390.00	\$	1,560.00
Includ	IN PAVEMENT CORES es coring with 4 inch diameter barrel, retrieving all pavement ma samples of base course/subbase materials and split-spoons of	iterials to m upper subgi	aximum dep rade.	th of 20 inche	es, ti	aking
3.1	Core Van and One-Man Crew (Regular Time Portal to Portal)	Hour	8.0	150.00	\$	1,200.00
3.2	Core Van and One-Man Crew (Overtime)	Hour	4.0	175.00	\$	700.00
3.3	Bit Wear - Per Inch of Asphalt Payement	Inch	60.0	2.50	\$	150.00
3.4	Bit Wear - Per Inch of PCC Pavement	Inch	36.0	4.00	\$	144,00
3.5	Patch Holes with Cold Patch Asphalt or Non-Shrink Grout	Each	13	10.00	\$	130.00
3,6	Materials Technician to Measure and Describe Core Sample in Laboratory	Each	6	15.00	\$	90.00
TRAF	FIC CONTROL					
4.1	Single Flagman, Regular Time (Portal to Portal)	Hour	0.0	105.00	\$	0.00
4.2	Single Flagman, Overtime	Hour	0.0	135.00	\$	0.00
4.3	2-Man Flagging Crew, Regular Time (Portal to Portal)	Hour	16.0	210.00	\$	3,360.00
4.4	2-Man Flagging Crew, Overlime	Hour	0.0	270.00	\$	0.00
4.5	TSC Pickup and Arrowboard	Day	2	125.00	\$	250.00

	ITEM	UNITS	QTY	RATE		COST
LABO	RATORY TESTING					
5.1	Visual Classification and Water Content/Dry Unit Weight Determination of Core Subgrade Sample (CORES ONLY)	Each	6	12.00	\$	72.00
LABO	RATORY TESTING				,	
5.1	Examine Samples to Describe by Textural System and Classify Using the Unified Soil Classification System	Each	44	4:00	\$	176.00
5.2	Water Content Determination (Includes Pocket Penetrometer Reading on Cohesive Samples)	Each	40	7.00	\$	280.00
5.3	Unconfined Compressive Strength of Cohesive Soils (or Torvane Shear Strength Measurement)	Each	7	14.00	\$	98.00
5.4	Dry Unit Weight Determination	Each	7	7.00	\$	49.00
5.5	Atterberg Limit Determinations	Each	2	100.00	\$	200.00
5.6	Sieve Analysis with #200 Wash	Each	0	90.00	\$	0.00
5.7	Sieve Analysis with Hydrometer	Each	2	130.00	\$	260.00
5.8	Consolidation Test	Each	0	600,00	\$	0,00
5.9	Modified Proctor Test	Each	0	190.00	\$	0.00
5.10	Loss-On-Ignition (Organic Content)	Each	0	45.00	\$	0.00
ENGIN	EERING SERVICES					
6.1	Prepare Geotechnical Report with Boring Logs and Location Plan	Lump Sum	1	1,605.07	\$	1,605.07
6.2	Geotechnical Engineer to Perform Special Calculations or Run Slope Stability Analyses	Hour	0.0	120.00	\$	0.00
6.3	Senior Engineer to Consult or Attend Project Meetings	Hour	0.0	160.00	\$	0.00
			ESTIMAT	ED TOTAL:	\$	14,666.74
		REC	OMMENDE	D BUDGET:	\$	14,666.75



PHASE I ENGINEERING SERVICES

Wadsworth Road @ Lewis Avenue Phase 1

Prepared for

LAKE COUNTY DIVISION OF TRANSPORTATION

CECS – Subconsultants

Environmental – Kowalenko Consulting Group, Inc.

PAYROLL ESCALATION TABLE FIXED RAISES

	115.00% 0 3.00%				
DATE 10/23/13 PTB NO. NA	OVERHEAD RATE COMPLEXITY FACTOR % OF RAISE				2.00%
	12 MONTHS 11/1/2013 3/1/2014	ESCALATION PER YEAR	3/2/2014 - 11/1/2014	8 12	68.67% bject would be:
Kowalenko Consulting Group, Inc.	CONTRACT TERM START DATE RAISE DATE	ш	3/1/2013 - 3/1/2014	4 12	= 33.33% = 1.0200 The total escalation for this project
FIRM NAME PRIME/SUPPLEMENT					

PAYROLL RATES

FIRM NAME PRIME/SUPPLEMENT PSB NO.

Kowalenko Consulting Group, Inc.	DATE	10/23/13
NA		

ESCALATION FACTOR

4.29%

CLASSIFICATION	CURRENT RATE	CALCULATED RATE	
Project Director	\$67.0	0 \$69.88	2 categories up to 70
Project Manager	\$65.4	4 \$68.25	2 categories up to 70
Assistant Project Manager	\$59.3	\$60.00	60 max
Environmental Scientist/Engineer III	\$58.2	\$60.00	60 max
Environmental Scientist/Engineer II	\$46.0	1 \$47.98	
Environmental Land Use/Transportation Planner III	\$54.	9 \$56.52	
Environmental Land Use/Transportation Planner I	\$35.7	9 \$37.33	
Field Technician I	\$32.7	2 \$34.12	
Systems/GIS Analyst	\$47.0	\$49.06	
Systems/GIS Manager	\$51.	3 \$53.32	
Project Support Staff	\$32.7	2 \$34.12	

COST ESTIMATE OF CONSULTANT SERVICES COST PLUS FIXED FEE

Kowalenko Consulting Group, Inc. ¥ FIRM PSB PRIME/SUPPLEMENT

OVERHEAD RATE COMPLEXITY FACTOR

1.15

DF-824-039 **10P25/13**2/04

DATE

Temporal Paymout Paymo	DBE				OVERHEAD	IN-HOUSE		Outside	SERVICES			% OF
Continue	DROP	ITEM	MANHOURS	PAYROLL	۰ĕ	DIRECT	FIXED	Direct	BY	DBE	TOTAL	GRAND
and Impact Evaluation 18 853.10 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.07 981.0	BOX				FRINGE BENF	COSTS	픮	Costs	OTHERS	TOTAL		TOTAL
and Impact Evaluation 32 1,628.78 1,873.09 PSI)* PSI)* \$3 2,663.78 1,873.09 PSI)* \$4 5 2,963.79 3,408.36 \$4 5,632.89 1,797.90 \$4 5,632.89 1,797.90 \$4 5,632.89 1,797.90 \$4 5,632.89 1,797.90 \$4 5,632.89 1,797.90 \$4 5,632.89 1,797.90 \$4 5,632.89 1,797.99 \$4 5,632.89 1,797.99 \$4 5,632.89 1,797.99 \$4 5,632.89 1,797.99 \$4 5,632.89 1,797.99 \$4 5,632.89 1,797.99 \$4 5,632.89 1,797.99 \$4 5,632.89 1,797.99 \$4 5,632.89 1,797.99 \$4 5,632.89 1,797.99 \$4 5,708.72 1,1,162.73 339.00 \$4 5,708.72 1,1,162.73 339.00			(A)	(B)	(c)	(Q)	(E)	Ð	(0)	(H)	(B-G)	
and Impact Evaluation 32 1,628,78 1,873,09 PSI)* 53 2,697,66 3,102,31 56 2,963,79 1,797,90 50 6875 each 5 6 2,963,79 3,408,36 5 cach 5 each 6 each 6 each 6 cach 6 cach 7 cach 6 cach 7 cach 7 cach 8 cach 8 cach 8 cach 9 cach 1		Envir. Survey Request		853.10	981.07		315.65			2,149.82	2,149.82	6.04%
FSI)* 53 2,697.66 3,102.31		Wetland Delineation/Wetland Impact Evaluation	32	1,628.78	1,873.09		602.65			4,104,51	4,104.51	11.53%
36 1,563.39 1,797.90 56 2,963.79 3,408.36 1 7.00.875 each 1.5.@450 each 2.2.@450 each 2.2.@450 each 3.2.@450 each 3.3.0.0 50 miles @\$0.56.5/mile		Prelim Site Investigation (PSI)*	53	2,697.66	3,102.31		998.13	150.00	3,600,00	6,798.10	10,548.10	29.63%
5. @\$75 each 1. 2 @450 each 2. 2 @450 each 2. 2 @450 each 3. 408.36 2. 963.79 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.36 3. 408.3		PESA (non-State Routes)	36	1,563.39	1,797.90		578.46	325.00		3,939.75	4,264.75	11.98%
poles @\$75 each mples @\$125 each 10.00 each tants - 2 @450 each 150 each 15		CE II Report Preparation	99	2,963.79	3,408.36		1,096.60			7,468.75	7,468.75	20.98%
pples @\$75 each mples @ \$125 each 10.00 each tants - 2 @450 each 160 each \$30 each \$30 each \$30 each \$30 each To rate & \$0.56.5/mile & \$0.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$39.00 & \$3												
mples @\$75 each mples @\$125 each 10.00 each tanis - 2 @450 each 180 each \$30 each s\$ x 50 miles @\$0.56.5/mile 0 0.00 339.00 0s x 50 miles @\$0.56.5/mile 10 0 0.00 339.00		* shoratory Apalysis									c	%000
### State each @10,00 each Utlants - 2 @450 each @ 530 each @ 530 each ### State		VOCs - 15 soil samples @\$75 each						1,125,00			1.125.00	3,16%
@ 10.00 each Utants - 2 @ 450 each @ 150 each @ 530 each trips x 50 miles @ 50.56.5/mile		SVOCs - 15 soil samples @ \$125 each						1,875.00			1.875.00	5.27%
Utants - 2 @450 each		pH - 3 samples @10.00 each						30.00			30.00	0.08%
### 195 9.706.72 11.162.73 339.00		LUST Priority Pollutants - 2 @450 each						900.00			900.00	2.53%
### TOTALS 195 9,706,72 11,162,73 339,00		TAL Metals - 15 @160 each						2,400.00			2,400.00	
trips x 50 miles @\$0.56.5/mile		SPLP Lead - 10 @ \$30 each						300.00			300.00	0.84%
trips x 50 miles @\$0.56.5/mile 0.00 0.00 339.00 10.00 0.00 339.00 10.00 0.00 339.00		Disposables						100.00			100.00	0.28%
- TOTALS 195 9,706,72 11,162,73 339,00		Transportation: 12 trips x 50 miles @\$0.56.5/mile		00.00	0.00	339.00					339.00	0.95%
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195 9,706.72 11,162.73 339.00		Subconsultant DL					0.00		1		0.00	%00.0
		TOTALS	195	9,706.72	11,162.73	339.00	3,591.49	7,205.00	3,600.00	24,460.93	35,604.93	100.00%

PREPARED BY THE AGREEMENTS UNIT

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AVERAGE HOURLY PROJECT RATES Kowalenko Consulting Group, Inc. FIRM PSB PRIME/SUPPLEMENT

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PAYROLL	AVG	TOTAL PROJECT RATES	JECT RATI	S	Envir.	Envir. Survey Request	dnest	Deline. Impac	Delineation/Wetland Impact Evaluation	land	Pr. Investi	Prelim Site Investigation (PSI)	Si Si	PESA	PESA (non-State Routes)	(sanos	CE II R	CE II Report Preparation	aration
-	HOURLY	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgfd	Hours	%	Wqtd	Hours	%	Watd
CLASSIFICATION	RATES		Part.	Āvg		Part.			Part.	Avg	·····	Part	Avg		Part	Avg		Part	Avg
Project Director	88.69	7	3.59%	2.51							,	1.89%	1.32	N	3.77%	2.64	4	7.55%	5.27
Project Manager	68.25	30	15.38%	10.50	4	22.22%	15.17	4	12.50%	8.53	ω	15.09%	10.30	ဖ	16.67%	11.37	8	14.29%	9,75
Assistant Project Manager	00.09	0																	
Environmental Scientist/Engineer III	00.09	44	22.56%	13.54							16	30.19%	18.11	4	11.11%	6.67	24	42.86%	25.71
Environmental Scientist/Engineer II	47.98	12	6.15%	2.95							12 2	22.54%	10.86						
Environmental Land Use/Transportation Planner III	56.52	28	14.36%	8.12	4	22.22%	12.56	24	75.00%	42.39									
Environmental Land Use/Transportation Planner!	37.33	4	2.05%	7.70	4	22.22%	8.29												
Field Technician I	34.12	0																	
Systems/GIS Analyst	49.06	0											 						
Systems/GIS Manager	53.32	0					ļ				_								
Project Support Staff	34.12	70	35.90%	12.25	9	33.33%	11.37	4	12.50%	4.27	16	30.19%	10.30	24	66.67%	22.75	20	35,71%	12,19
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TOTALS		195	100%	\$50.63	φ.	100.00%	\$47,39	%	100%	\$55.18	53	100%	\$50.90	36	98%	\$43,43	56	100%	\$52.92

Lake County - Wadsworth at Lewis intersection Direct Costs and Services by Others

Lab Anaysis - Soils in proposed ROW	Number of samples	Unit cost		Cost
VOCs	15	75	⋄	1,125.00
SVOCs	15	125	↔	1,875.00
TAL Metals	15	160	❖	2,400.00
Ha	3	10	Ś	30.00
LUST Priority Pollufants	2	450	❖	900.00
SPLP Lead	10	30	↔	300.00
Total Lab Analysis Costs			\$	6,630.00
Drilling subcontractor	Days	Daily Rate		Cost
Truck-mounted GeoProbe	2	\$ 1,800.00	⋄	3,600.00
Equipment Rental (PID)	2	\$ 75.00	\$	150.00
Disposables	2	\$ 50.00	ş	100.00
Total Field Expenses			49	3,850.00
PESA research: EDR environmental database for project area			\$	325.00
Total Outside Expenses	es er en de en		Ŷ	\$ 10,805.00
In-House Direct Costs: 12 trips x 50 miles @\$0.565/mile			Ŷ	339.00
Total Project Expenses			Ś	\$ 11,144.00