

**K  
&  
D**

**ENGINEERING, Inc.**

**PROPOSAL**

**FOR**

**ENGINEERING SERVICES FOR  
SCOPING, DESIGN AND  
INSTALLATION OF THE 58<sup>TH</sup> STREET  
RELIEF SANITARY SEWER AND  
BYPASS MANHOLE PROJECT P21046**

**to the**

**CITY OF SPRINGFIELD**

February 27, 2011

Jayne McMahan, Management Analyst  
City of Springfield Finance Department  
225 Fifth Street  
Springfield, OR 97477

**RE: ENGINEERING SERVICES FOR SCOPING, DESIGN AND INSTALLATION OF THE  
58TH STREET RELIEF SANITARY SEWER AND BYPASS MANHOLE PROJECT P21046**

Dear Ms. McMahan:

K&D Engineering, Inc. is pleased to present this Proposal for Engineering and Bidding Services

K&D Engineering is prepared to dedicate the necessary qualified staff to successfully complete your project. You will realize these benefits from the expertise of our team:

- Creative cost-effective solutions that anticipate potential problems.
- Competent coordination with permitting agencies.
- On-time delivery of your project.
- Complete and accurate plans and specifications that minimize construction "surprises".

**K&D Engineering, Inc. accepts all the terms and conditions contained in the Request for Proposal and will complete all aspects of the work as outlined in the RFP according to the time schedule included in Section II of the RFP. This proposal shall be considered valid for a minimum of 60 days after the submission deadline.**

If you have questions regarding this proposal, please contact us at (541) 928-2583.

Sincerely,



Daniel Watson, P.E., President  
K&D Engineering, Inc.



Grant Beem, P.E. Sr. Engineer  
K&D Engineering, Inc.

P.O. Box 725  
276 NW Hickory Street  
Albany, OR 97321

Federal Tax ID: 93-0873452  
State Tax ID: 0345046-5

(541) 928-2583  
(541) 967-3458 fax  
dwatson@kdeng.com



**ATTACHMENT 2**

**Authorization to Legally Bind Proposer**

**The person executing this Proposal and the instruments referred to herein on behalf of the Proposer have the legal power, right, and actual authority to submit this Proposal, and to bind the Proposer to the terms and conditions of this Proposal.**

*Daniel Watson* 2/28/11  
(Signature of person authorized to bind Proposer) Dated

Daniel Watson  
Print Name of Person Signing as authorized to bind Proposer

<u>K &amp; D Engineering, Inc.</u>	<u>(541) 928-2583</u>
<b>Firm Name</b>	<b>Phone</b>
<u>276 NW Hickory St.</u>	
<u>PO Box 725</u>	<u>(541) 967-3458</u>
<b>Address</b>	<b>Fax</b>
<u>Albany, OR 97321</u>	<u>dwatson@kdeng.com</u>
<b>City, State, Zip</b>	<b>email address</b>

## **PROJECT EXPERIENCE**

K & D Engineering, Inc., is a consulting, civil engineering, surveying, construction management, and land planning firm that performs work in the areas of municipal and private engineering, property boundary surveying, construction management/contract administration and inspection, and land planning. The firm was established in 1972 and during our years of service, the company has maintained its principal office in Albany, Oregon.

K & D Engineering, Inc., provides street, sanitary, water, storm water, and structural engineering services for a host of clients who are involved in development and improvement of property and existing facilities. These services have been provided in a wide range of professional capacities from providing specific personnel for a scheduled contract time; performing engineering and surveying services only; providing a complete array of project planning, surveying, design, and construction management; to the cooperative blending of our staff with the client's staff to jointly complete a project.

Our current staff includes thirteen persons of the following professional backgrounds and areas of special expertise: three licensed civil engineers, one EIT, four licensed land surveyors, a licensed water rights examiner, design and drafting engineering technicians, two survey field crews, construction inspectors and administrative support personnel. All of our staff have a deep commitment to our clients and the success of their projects.

The professional staff has extensive education, technical training, and numerous years of experience in planning, surveying, designing, and constructing public works and private projects throughout Oregon. K & D Engineering, Inc.'s, professional employees hold engineering and/or surveying registrations in three states. All drafting design work is performed on computers utilizing the most current releases of AutoCad software, except for those rare instances where old fashioned hand drafting may be required.

K & D Engineering, Inc. maintains a serious commitment to adherence to equal employment opportunity to all qualified persons without regard to race, creed, color, gender, religion, age, political affiliation, or physical handicap.

K & D Engineering has designed and managed the construction activities on hundreds of projects throughout the central Willamette Valley since the firm first opened its doors in 1972. The following projects are intended to represent the type of work that qualifies K & D Engineering for the scope of work proposed. Each project has a point of contact associated with it.

### **ATI WAH CHANG INTGRATED WETLANDS EFFLUENT PIPE**

K & D Engineering was retained as the Engineering and Surveying consultant by ATI Wah Chang to conduct preliminary research, topo survey, design, and construction survey for the construction of the 16" diameter pressure effluent line from the Wah Chang plant to the connection with the Talking Water Gardens project. The total length of the pipeline was approximately 10,000 feet. The pipe line will ultimately supply cool effluent to combine with effluent from the City of Albany wastewater treatment plant prior to entering the Talking Water Garden for further treatment.

Project design required extensive preliminary survey work, coordination with the ATI Wah Chang and the City, difficult pipeline alignment through the Wah Chang Plant and an approximately 1,200 foot long HDD creek crossing. A three million gallon holding/mixing pond was designed in the pipe system.

**K & D Key Staff:**

Grant Beem – Project Engineer, Jason Cota – Project Surveyor

Reference: Mike Smee, Plant Engineer, ATI Wah Chang 541-971-7927

**MENNONITE VILLAGE EAST EXPANSION**

K & D Engineering was retained as the Engineering, Surveying, and Construction Management consultant by the Mennonite Village of Albany to conduct preliminary research, design, survey and manage the construction of a 33 duplex unit expansion. In addition to design of streets and utilities within the development, an offsite public sewer lift station and approximately 2,200 feet of 10 “ public sewer main were designed and constructed to serve the project and future City of Albany expansion. The sewer alignment was entirely within easements along Oak Creek at a depth of approximately 17’.

Project design required extensive preliminary survey work, coordination with the City, franchise utilities, and ODOT. K & D Engineering, Inc. also managed the construction and provided construction staking. The primary challenges of this project were coordinating traffic control during construction and working with ODOT.

Services Included:

- Coordination with the City.
- Design of lane configurations to maximize efficiency and public safety.
- Survey and deed research.
- Preparation of legal descriptions and maps.
- Preparation of easements using the City’s format.
- Prepare Bid Documents.
- Provided construction staking.
- Scheduled the Pre-Construction Conference with the City and the Contractor.
- Construction staking and layout.
- Monitored grades and alignments throughout project construction.
- Provided full-time daily inspections.
- Recorded As-built conditions.
- Recommended contract payment based on a review of monthly Contractor pay requests.
- Coordinated and monitored testing.
- Prepared final Punch list to be corrected by the contractor.
- Recommended project acceptance to the City.

**K & D Key Staff:**

Dan Watson – Project Engineer, Grant Beem – Inspection, Construction Manager

Reference: Dave Detweiler, Facilities Director, Mennonite Village, 541-223-1265  
Peter Harr, City of Albany, 541-917-7543

K & D Engineering has a diverse range of capabilities in the civil engineering field to serve both public and private development. Our typical yearly project list will contain approximately 180 to 200 separate projects ranging from simple property corner locates to design and construction administration for \$1,000,000 plus street and site projects. The bulk of our yearly billings are from services provided to produce drawings and documents necessary for the construction of public infrastructure, typically including, street, sanitary sewer, water, and storm drainage. Approximately 25% of these yearly billings result from work contracted directly with public agencies.

In the course of providing services for this diverse list of projects we are accustomed to frequent interactions with regulatory/reviewing agencies including ODOT Access Management, ODOT Rail, Oregon DEQ Water Quality, Oregon DSL, Oregon DEQ Sanitary Sewer, Oregon Health Department Drinking Water Division, , and FEMA, in addition to local municipal/county planning and public works departments. We also work frequently with independent wetland consultants and Division of State Lands and Corps of Engineers processing removal/fill permits for work in or disturbing wetlands. When necessary, K & D Engineering has also successfully teamed with specialty sub-consultants including geotechnical, traffic, and environmental for specific project needs.

Following is a comprehensive list of services that can be provided by K & D Engineering.

#### AVAILABLE SERVICES

##### **CIVIL ENGINEERING**

1. Street and Highway Design
2. Storm Water Collection, Detention Systems, and Water Quality Design
3. Wastewater Collection Systems
4. Subdivisions
5. Surveying and Mapping
6. Site Planning
7. Water Pumping Plants
8. Water Reservoirs
9. Water Distribution Systems
10. Wastewater Collection Systems
11. Wastewater Pumping Stations
12. Wastewater Force Mains

##### **CONSTRUCTION MANAGEMENT/CONTRACT ADMINISTRATION**

1. Contract/Construction Document Preparation
2. Resident Engineering
3. Project Inspection
4. Shop Drawing Review
5. Record Drawing Preparation
6. System Testing
7. Project Certification
8. Contractor Payment Request

## **LAND PLANNING**

1. Land Partitioning
2. Subdivisions
3. Conditional Use Permits and Zone Changes
4. Site Development Master Planning

## **LAND SURVEYING**

1. Boundary
2. Topographical
3. Lot and Subdivision
4. Control Monumentation
5. Right of Way Determination
6. Easement Preparation
7. Construction Staking

## **STRUCTURAL ENGINEERING**

1. Bridge Design
2. Culvert Design
3. Building Analysis
4. Retaining Structures

## **PROJECT TEAM KEY PERSONNEL**

### **K & D Engineering, Inc**

#### ***Daniel Watson, P. E., President, Principal Engineer***

Licensed Civil Engineer, Oregon, California  
28 years experience

Mr. Watson is the President of the firm and will be the primary contact and provide oversight on the project. Mr. Watson has more than over 28 years experience as a licensed civil engineer. His experience spans all aspects of Civil Engineering with particular emphasis in street/road design. Additionally, his extensive Construction Engineering experience will be a tremendous benefit to the outcome of projects. Mr. Watson will oversee the entire project as the Project Manager and provide structural design as required.

#### **Grant Beem, P.E., Senior Engineer**

Licensed Civil Engineer, Oregon  
15 years experience

Mr. Beem has over fifteen years of experience with the firm performing design and Construction Engineering duties. He is a thorough designer and superb at project inspection and on-site engineering. His forethought and thoroughness in construction has repeatedly proven to be a valuable asset. Mr. Beem will be the design engineer for the project and will be lead construction engineer.

#### **Joe Jason Cota , PLS, Survey Manager**

Licensed Land Surveyor, Oregon  
16 years experience

Mr. Cota has sixteen years experience in the firm, surveying in Linn, Lane, Lincoln and Benton County. He is exceptionally adept and skillful in performing all types of field surveys. Mr. Cota also is superb in resolving design issues in the field. He will oversee all survey field work and provide post construction survey and easement exhibits.

#### **Nolan Nelson, P.E.**

7 years experience

Nolan is available for project support, engineering calculations and will provide field inspections. Nolan will provide hydraulic calculations for the project.

#### **Justin Miller**

11 years experience

Mr. Miller has been with the firm performing drafting and engineering technician tasks for eight years. Justin has an extensive construction background which complements his CADD drafting abilities. Justin will perform drafting and design technician duties. Additional CADD Techs on staff will be available to assist Mr. Miller.



**Colter Hessel, PLS**

17 years experience

Mr. Hessel has over seventeen years experience surveying in the mid valley. He will serve as crew chief/survey crew member for any field survey activities.

**Jamey Montoya, PLS**

13 years experience

Mr. Montoya has over thirteen years experience surveying in the mid valley. He will serve as crew chief/survey crew member for field survey activities.

**PBS ENGINEERING + ENVIRONMENTAL**

PBS Engineering + Environmental will be providing the geotechnical investigations for the project. PBS' Geotechnical Engineering Group offers several of the most experienced geotechnical experts in the Northwest, who have worked on hundreds of significant projects throughout Washington and Oregon.

PBS has the capacity to thoroughly evaluate large, complex properties, as well as small sites. Our experience in providing geotechnical engineering services has been refined by years of working closely with our clients on their sites located throughout the Northwest.

**Rick Thrall, PE, GE, Principal Geotechnical Engineer**

Mr. Thrall will be responsible for quality assurance and quality control for the project. Mr. Thrall has over 25 years of experience involving soil mechanics, utility design, static and dynamic seismic loading analysis, subsurface analysis in support of various municipal, infrastructures, industrial, and commercial projects. He has provided project management on the geotechnical work for several similar projects including the Franklin Boulevard Interceptor in Springfield, Oregon, the West Side Interceptor sewer line in Lebanon, Oregon (3,650 feet), and the Fanno Pump Station and Pressure Line in Portland, Oregon (16,500 feet). He has completed projects in nearly every western county in Oregon, Washington, and northern California for a variety of public agency and private sector clients. Mr. Thrall is a Licensed Professional Engineer in the States of Oregon and Washington; and is a Registered Geotechnical Engineer in Oregon.

**Peter Hughes, RG, Project Geologist**

Mr. Hughes has over 5 years' experience in the field of geology and performs subsurface explorations for the geotechnical engineering department at PBS. Mr. Hughes has been involved in geotechnical engineering explorations, subsurface explorations, geological map investigations, and writing geological reports. He performs site reconnaissance, sampling, and logging of subsurface soil borings, rock cores, and test pits, and is experienced in performing infiltration testing. Mr. Hughes' construction observation experience includes installation and testing of micropile, soil nail, and tieback designs. He supervises utility and structural backfill, grading, and excavations as well as drilled shaft inspections and pile driving. His skills have been applied to numerous utility, roadway, and public works projects across Oregon.

## **Right of Way Associates, Inc.**

ROWA will provide easement acquisition services for the project ROWA has one office in Beaverton Oregon and is a full service right-of-way and property acquisition and relocation firm serving the public agencies in Oregon and Washington. Services are provided to the standards of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, as amended (Uniform Act or URA). In Oregon, services are also provided to the standards of ORS Chapter 35; and ODOT R/W Manual and Consultant Guide when applicable. Services include:

- Planning, budgeting and strategy for R/W acquisition and relocation services
- Preliminary services and property owner contacts to acquire Rights of Entry for engineering design studies
- R/W Programming Estimates and Alignment Studies
- Coordination of title and escrow services and lien clearance activities
- Coordination of real property appraisal, appraisal review and valuation services
- Negotiations for the acquisition of rights in real property
- Personal property relocation services for commercial and residential owners and tenants

The firm has provided services to acquire entire properties for college expansion projects, libraries, fire stations, water reservoirs, and other public uses. ROWA also has extensive experience acquiring portions of property and strips for streets, highways, bridges, public and private utility pipelines, bike and pedestrian trails as well as a variety of permanent and temporary easements for related construction activities.

### **R. David Feinauer**

Mr. Feinauer has provided appraisal, negotiation, acquisition and relocation services as an employee of a public agency and as a consultant for over 40 years. He is the principal of ROWA which has been in business for 20 years. He is familiar with the processes and requirements of the Uniform Act the ORS regulations that guide public acquisition in the State of Oregon. David has acquired a large number of sites for water reservoirs, wastewater treatment plants, pump stations and associated pipelines. He will be the right-of-way manager in addition to working as a negotiation agent to acquire property rights.

**EDUCATION**

Bachelor of Science, Civil Engineering 1983, University of California, Davis, California

**PROFESSIONAL DATA**

Registered Professional Civil Engineer (No. 17,612) Oregon, 1995  
Registered Professional Civil Engineer (No. 41,231) California, 1986

**EXPERIENCE****PRINCIPAL ENGINEER**

*K & D Engineering, Inc.*

October 1994 to Present

Project Manager and Engineer for many subdivision projects in the Mid Willamette Valley. Project Engineer for Linn Benton Community College, Lebanon Site (One Stop Facility). Project Engineer Mad Creek Bridge for the North Santiam Watershed Council and Linn County. Project Engineer for Santiam Road re-construction, Albany (\$1.3 Million). Project Engineer for Accu-Fab Systems, Inc. Plant Construction (\$2.7 Million), site development (\$700,000) and Public Improvements (\$500,000). Project Engineer on the \$1.6 million Old Salem Road widening project. Hydrologic, hydraulic and structural calculations on reinforced concrete box culverts for road and highway stream crossings. Performed structural calculations and design on commercial/industrial buildings.

**BRANCH MANAGER & SENIOR CIVIL ENGINEER**

*Penfield & Smith*

October 1988 to October 1994

Managed a Branch office and Staff which varied between 4 and 7, responsible for marketing, budgeting, supervision, project management, project design and quality control for public and privately funded projects.

Major projects included feasibility and preliminary design for a \$10 million water diversion, high-pressure water supply pipeline and pumping facilities project, subdivisions, bridges and site designs for industrial, commercial and school installations.

**PROJECT ENGINEER/SENIOR CONSTRUCTION ENGINEER**

*County of Santa Barbara Roads Division*

March 1983 to October 1988

Performed design of road and bridge projects. Acted as Resident Engineer on road and bridge projects up to \$4m in value. Managed 25 person Contract Administration, Survey and Materials Testing Laboratory Office. Performed medium and short range planning and design for major landfill.

**AFFILIATIONS**

Chamber of Commerce  
Willamette Valley Home Builders Assoc., Board of Directors  
Rotary International  
Albany Boys and Girls Club, Director

**EDUCATION**

Bachelor of Science, *Cum Laude*, Civil Engineering, 1995, Oregon State University, Corvallis, Oregon.

**PROFESSIONAL DATA**

Professional Engineer (No. 53046PE) Oregon

**EXPERIENCE**

**Civil Engineer** January 1996 to Present  
*K & D Engineering, Inc.*

Project Engineer for residential subdivision projects in many areas of the Mid Willamette Valley including Elk Meadows (Oakridge, 200 Lots, 6 Phases); Morningstar (Millersburg, 71 Lots, 3 Phases); West Eugene Village (Eugene, 178 Lots, 3 Phases). Project Engineer for North Albany Road Roundabout Wah Chang Integrated wetlands Effluent Pipeline.

Engineering street, hydraulic, and hydrology design and research; survey crew member for topographic, boundary, and construction surveys. Inspection and Contract Administration for street, water, sewer and site development projects both public and private in Albany, Corvallis, Millersburg, Eugene and Tangent.

Project Manager for Geary/14<sup>th</sup> /Clay Restoration survey and drafting services. Design Engineer, Construction Engineer and Inspector for North Albany Road Hwy 20 to W&P RR and 53<sup>rd</sup> Ave Waterline. Construction Engineer and Inspector for Santiam Road and Clay/14<sup>th</sup> Traffic Signal.

**Engineering Trainee** June 1994 to September 1994  
*Oregon Department of Transportation*

Survey crew member for construction and location surveys. Paving inspector for state highway resurfacing.

**EDUCATION**

Associate Degree, Civil/Structural Engineering, 1994, Chemeketa Community College, Salem, Oregon.

**PROFESSIONAL DATA**

Registered Professional Land Surveyor (No. 58561) Oregon.

**EXPERIENCE**

**Survey Manager**  
*K & D Engineering, Inc.*

August 2002 to Present

Responsible for boundary resolutions, coordinate survey field crews, and preparing record of surveys and plats. Other duties include preparing legal descriptions, and general project management.

**Survey Crew Chief**  
*K & D Engineering, Inc.*

November 1994 to July 2002

Survey Crew Chief for topographic, boundary, and construction surveys. Process field data for design; perform preliminary boundary determination and calculations.

**Survey Chainman**  
*South Santiam Surveying*

June 1994 to September 1994

Survey crew member for boundary surveys.

**AFFILIATION**

Professional Land Surveyors of Oregon

**EDUCATION**

Associate of Applied Science Degree, Drafting Technology, 1998, Blue Mountain Community College, Pendleton, Oregon.

**PROFESSIONAL DATA**

Registered Professional Land Surveyor (No. 78508) Oregon.  
Registered Professional Land Surveyor (No. 42678) Washington.

**EXPERIENCE**

**Survey Project Manager** January 2008 to Present  
*K & D Engineering, Inc.*

- Develop proposals for clients with job costs
- Research existing surveys, deeds, and title reports
- Process field information by adjusting traverses, calculating boundaries, and drafting
- Write legal descriptions
- Prepare surveys and applications for submittal
- Coordinate with contractors during construction
- Calculate grades and points for construction staking and cut sheets
- Coordinate with clients throughout project to achieve their goals
- Develop company standards

**Survey Department Manager** September 1998 to December 2007  
*PacWest Engineering*

- Assigned, scheduled and supervised field crews
- Researched existing surveys, deeds, and title reports
- Processed field information by adjusting traverses, calculating boundaries, and drafting
- Interviewed and trained field and office personnel
- Coordinated with clients throughout project to achieve their goals
- Developed company standards

**AFFILIATION**

Professional Land Surveyors of Oregon

**EDUCATION**

Associate of Science/Engineering Emphasis Coursework; 1987-2003  
Linn-Benton Community College

Pre-Engineering Coursework 1995  
Oregon State University; Corvallis, Oregon

**PROFESSIONAL DATA**

Registered Professional Land Surveyor (No. 54868) in Oregon.

**EXPERIENCE**

**Survey Crew Chief** April 2005 to Present  
*K & D Engineering, Inc.*

Survey Crew Chief for topographic, boundary, and construction surveys. Survey research, locate and evaluate property corners, boundary resolution, process field data, generate staking coordinates.

**Survey Crew Chief** March 2004 – March 2005  
*Multi/Tech Engineering*

Survey Crew Chief for topographic, boundary, and construction surveys.

**Survey Crew Chief** December 2003 to February 2004  
*Pacwest Engineering*

Survey Crew Chief for topographic, boundary, and construction surveys.

**Senior Surveyor** April 1993 – September 2003  
*Peterson & Associates*

Survey Crew Chief for topographic, boundary, and construction surveys. Survey research, locate and evaluate property corners, boundary resolution, process field data, draft plats

**AFFILIATION**

Professional Land Surveyors of Oregon

**EDUCATION**

ITT Technical Institute, Portland, OR  
Graduate - Associate of Applied Science  
CAD Technology

**EXPERIENCE**

**ENGINEERING DESIGN TECHNICIAN**

*K&D Engineering, Inc.*

October 2001 to Present

CADD/Softdesk Design Software Drafting; Surveys; A.L.T.A. maps, water rights maps, boundary and topographic, record of surveys, preliminary and final site plans, earthwork calculations, street, sewer, water and storm system plan development.

Field work includes: survey calculations, boundary and topographic surveys, foundation locates, construction staking, grade checks.

**CAD DETAILER**

*Encompass Mechanical*

April 2000 to October 2001

Produced shop drawings for the construction of heating and cooling systems.

**CONCRETE FINISHER**

*Ron Miller General Contractor*

June 1996 to April 2000

Completed construction tasks including concrete flatwork, foundations, installation of roof drain piping & coordinated with clients and contractors to complete jobs.



**EDUCATION**

Bachelor of Science, *Magna Cum Laude*, Civil Engineering, 2004, Oregon Institute of Technology, Klamath Falls, Oregon.

**PROFESSIONAL DATA**

Professional Engineer (No. 82577PE) Oregon

**EXPERIENCE**

**Civil Engineer**  
*K & D Engineering, Inc.*

July 2004 to Present

Engineering street, hydraulic, and hydrology design and research; survey crew member for topographic, boundary, and construction surveys. Inspection and Contract Administration for street, water, sewer, erosion and sediment control, and site development projects both public and private in Albany, Millersburg, Salem, and Eugene.

## **SECTION V – STAFF HOURS AND COST**

K & D Engineering proposes to provide the necessary services to complete the design of the project as described in this proposal at hourly rates shown in the rate schedule not to exceed \$277,006.40.

**PROJECT FEE HOURLY BREAKDOWN**

TASK	HOURS									TOTAL HOURS	LABOR COST	
	SR.		PROJ. MGR	JR CIVIL ENG	CADD SURV	CLER. WORD PROC.	2 MAN SURV	CIVIL				TECH/DRFT
	PRIN ENG P.E.	CIVIL ENG P.E.						CIVIL	ENG			
			P.L.S.	ENG	ENG							
<b>Preliminary Design</b>											0.0	0.00
kick off mtg	6	6									12.0	1,356.00
geotech recon		4									4.0	432.00
gis base map		12			40						52.0	4,336.00
prelim field survey		8								32	40.0	4,864.00
route and profile	4	16			56						76.0	6,456.00
engineering flow analysis		16		40							56.0	4,528.00
geotech subsurface		6			12						18.0	1,560.00
route eval and cost est	8	40		16							64.0	6,384.00
staff mtg	6	6										1,356.00
community mtg	6	6									12.0	1,356.00
route report	12	20							16		48.0	4,280.00
report presentation	6										6.0	708.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
<b>TOTALS</b>	48.0	140.0	0.0	56.0	0.0	108.0	0.0	0.0	16.0	32.0	388.0	

<b>HOURLY BILLING RATES</b>			\$/hr	<b>SUBTOTAL LABOR COST</b>		<b>\$37,616.00</b>
Principal Engineer, P.E.	118.00		<b>EXPENSES</b>	<b>Markup</b>	<b>COST</b>	
Senior Civil Engineer, P.E.	108.00		geotech 125 hrs	10%	31,384.00	34,522.40
Sr. Project Manager, P.L.S., C.W.R.E	108.00		ROWA 20 hrs	10%	2,000.00	2,200.00
Civil Engineer, P.E.	82.00		Prints & Reproduction			50.00
Jr. Civil Engineer, EIT	70.00					
Engineering Design Technician	76.00					
Cadd Draftsman	57.00					0.00
Land Surveyor	91.00					
Clerical/Word Processor	44.00					
3 Man Survey Crew	165.00					
2 Man Survey Crew	125.00					<b>\$74,388.40</b>

**PROJECT FEE HOURLY BREAKDOWN**

TASK	SR.		HOURS									TOTAL HOURS	LABOR COST
	PRIN	CIVIL	PROJ.	JR	ENG.	CADD	SURV	CLER.	2 MAN				
	ENG	ENG	MGR	CIVIL	CIVIL	TECH/	DRFT	PARTY	WORD	SURV			
	P.E.	P.E.	P.L.S.	ENG	ENG	DRFT	CHIEF	PROC.	CREW				
Field Data Collection												0.0	0.00
property research	2		8									10.0	1,080.00
locate coordination			4									4.0	432.00
datum coord			5									5.0	540.00
set control			4							16		20.0	2,432.00
field topo	8		6								80	94.0	11,512.00
mon search			8								40	48.0	5,864.00
ROW determination			16									16.0	1,728.00
base Map	8		6			80						94.0	7,592.00
												0.0	0.00
												0.0	0.00
												0.0	0.00
												0.0	0.00
												0.0	0.00
												0.0	0.00
												0.0	0.00
												0.0	0.00
												0.0	0.00
												0.0	0.00
												0.0	0.00
												0.0	0.00
												0.0	0.00
												0.0	0.00
												0.0	0.00
												0.0	0.00
												0.0	0.00
												0.0	0.00
												0.0	0.00
												0.0	0.00
												0.0	0.00
<b>TOTALS</b>	0.0	18.0	57.0	0.0	0.0	80.0	0.0	0.0	0.0	0.0	136.0	291.0	

HOURLY BILLING RATES				\$/hr	EXPENSES		Markup	COST	SUBTOTAL LABOR COST
Principal Engineer, P.E.				118.00					\$31,180.00
Senior Civil Engineer, P.E.				108.00			10%		
Sr. Project Manager, P.L.S., C.W.R.E				108.00			10%		
Civil Engineer, P.E.				82.00					
Jr. Civil Engineer, EIT				70.00	Prints & Reproduction			100.00	
Engineering Design Technician				76.00					
Cadd Draftsman				57.00				0.00	
Land Surveyor				91.00					
Clerical/Word Processor				44.00					
3 Man Survey Crew				165.00					
2 Man Survey Crew				125.00					<b>\$31,280.00</b>

**PROJECT FEE HOURLY BREAKDOWN**

TASK	HOURS										TOTAL HOURS	LABOR COST	
	SR.					HOURS							
	PRIN	CIVIL	PROJ.	JR		ENG.	CADD	SURV	CLER.	2 MAN			
	ENG	ENG	MGR	CIVIL	CIVIL	TECH/	DRFT	PARTY	WORD	SURV			
P.E.	P.E.	P.L.S.	ENG	ENG	DRFT	CHIEF	PROC.	CREW					
<b>Final Design</b>											0.0	0.00	
sheet set up		2				10							
plan and profile	4	32				160					196.0	16,088.00	
30% estimate	1	16				4					21.0	2,150.00	
30% staff meeting	6	6									12.0	1,356.00	
public meeting	6	6									12.0	1,356.00	
easement permit coord	4	16									20.0	2,200.00	
60% plan and profile	2	12				80					94.0	7,612.00	
notes and details		24				24					48.0	4,416.00	
60% estimate	1	8				4					13.0	1,286.00	
60% staff meeting	6	6									12.0	1,356.00	
public meeting	6	6									12.0	1,356.00	
easement coord	12	16									28.0	3,144.00	
90% plan and profile	6	32				40					78.0	7,204.00	
notes and details	6	16				40					62.0	5,476.00	
Erosion & Traffic plan	2	28		8		32							
90% estimate	1	6				4					11.0	1,070.00	
90% staff meeting	6	6									12.0	1,356.00	
Redline revisions		4				32					36.0	2,864.00	
100% estimate	2	8				4					14.0	1,404.00	
											0.0	0.00	
											0.0	0.00	
											0.0	0.00	
											0.0	0.00	
											0.0	0.00	
											0.0	0.00	
											0.0	0.00	
											0.0	0.00	
											0.0	0.00	
											0.0	0.00	
<b>TOTALS</b>	71.0	250.0	0.0	8.0	0.0	434.0	0.0	0.0	0.0	0.0	681.0		

HOURLY BILLING RATES	\$/hr	EXPENSES		Markup	COST	SUBTOTAL LABOR COST	\$61,694.00
Principal Engineer, P.E.	118.00						
Senior Civil Engineer, P.E.	108.00			10%			
Sr. Project Manager, P.L.S., C.W.R.E	108.00			10%			
Civil Engineer, P.E.	82.00						
Jr. Civil Engineer, EIT	70.00	Prints & Reproduction				100.00	
Engineering Design Technician	76.00						
Cadd Draftsman	57.00					0.00	
Land Surveyor	91.00						
Clerical/Word Processor	44.00						
3 Man Survey Crew	165.00						
2 Man Survey Crew	125.00						
							<b>\$61,794.00</b>

**PROJECT FEE HOURLY BREAKDOWN**

TASK	HOURS										TOTAL HOURS	LABOR COST
	SR.		PROJ. MGR	JR CIVIL	CIVIL	ENG. TECH/ DRFT	CADD	SURV PARTY	CLER. WORD PROC.	2 MAN SURV CREW		
	PRIN ENG P.E.	CIVIL ENG P.E.										
<b>Easement Acquisition</b>											0.0	0.00
ROW meetings & coord owner contact	2	8	12								12.0	1,296.00
Title coord		16	6								22.0	2,376.00
prepare legal descrip		1	24								25.0	2,700.00
prepare exhibits		1	9			12					22.0	1,992.00
appraisal	1	2									3.0	334.00
compensation offers	4	12									16.0	1,768.00
acquisition negotiation		12									12.0	1,296.00
record easements		1	4								5.0	540.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
<b>TOTALS</b>	7.0	65.0	55.0	0.0	0.0	12.0	0.0	0.0	0.0	0.0	117.0	

<b>HOURLY BILLING RATES</b>		<b>\$/hr</b>	<b>SUBTOTAL LABOR COST</b>		<b>\$12,302.00</b>
Principal Engineer, P.E.	118.00		<b>EXPENSES</b>	<b>Markup</b>	<b>COST</b>
Senior Civil Engineer, P.E.	108.00		ROWA	10%	36,020.00
Sr. Project Manager, P.L.S., C.W.R.E	108.00			10%	39,620.00
Civil Engineer, P.E.	82.00		Prints & Reproduction		100.00
Jr. Civil Engineer, EIT	70.00				0.00
Engineering Design Technician	76.00				
Cadd Draftsman	57.00				
Land Surveyor	91.00				
Clerical/Word Processor	44.00				
3 Man Survey Crew	165.00				
2 Man Survey Crew	125.00				<b>\$52,022.00</b>

PROJECT FEE HOURLY BREAKDOWN

TASK	HOURS										TOTAL HOURS	LABOR COST
	SR.		PROJ. MGR	JR		ENG. DRFT	CADD	SURV PARTY	CLER. WORD PROC.	2 MAN SURV CREW		
	PRIN ENG P.E.	CIVIL ENG P.E.		CIVIL ENG	CIVIL ENG							
Permit Application											0.0	0.00
meetings & coord	2	12										
Odot	2	12		8		10					32.0	2,852.00
Lane Co		10		8		10					28.0	2,400.00
utility coord		6		8							14.0	1,208.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
											0.0	0.00
<b>TOTALS</b>	4.0	40.0	0.0	24.0	0.0	20.0	0.0	0.0	0.0	0.0	74.0	

<b>HOURLY BILLING RATES</b>		<b>\$/hr</b>	<b>SUBTOTAL LABOR COST</b>		<b>\$6,460.00</b>	
Principal Engineer, P.E.		118.00	<b>EXPENSES</b>	<b>Markup</b>	<b>COST</b>	
Senior Civil Engineer, P.E.		108.00				
Sr. Project Manager, P.L.S., C.W.R.E		108.00		10%		
Civil Engineer, P.E.		82.00		10%		
Jr. Civil Engineer, EIT		70.00	Prints & Reproduction			
Engineering Design Technician		76.00				
Cadd Draftsman		57.00				
Land Surveyor		91.00				
Clerical/Word Processor		44.00				
3 Man Survey Crew		165.00				
2 Man Survey Crew		125.00				
						0.00
						<b>\$6,460.00</b>





**PROJECT FEE HOURLY BREAKDOWN**

TASK	HOURS									TOTAL HOURS	LABOR COST	
	SR.		PROJ. MGR	JR CIVIL	ENG. CIVIL	CADD DRFT	SURV PARTY CHIEF	CLER. WORD PROC.	2 MAN SURV CREW			
	PRIN ENG P.E.	CIVIL ENG P.E.										
<b>Contract admin</b>										0.0	0.00	
pre construct mtg	4	4		4								
pre work film				8						8.0	560.00	
<b>daily inspection (49 days)</b>	8	180		98						286.0	27,244.00	
coord testing		6								6.0	648.00	
weekly const mtg		14		14						28.0	2,492.00	
prepare pay estimates	2	9								11.0	1,208.00	
measure quants				12								
change orders		4								4.0	432.00	
coord with owners/utlis		8								8.0	864.00	
										0.0	0.00	
										0.0	0.00	
										0.0	0.00	
										0.0	0.00	
<b>Construction Survey</b>										0.0	0.00	
Set points						8				8.0	608.00	
field staking			5					8	40			
As -Built		8	2			8			12	30.0	3,188.00	
										0.0	0.00	
										0.0	0.00	
<b>Post Construction</b>										0.0	0.00	
Certifications	2	4								6.0	668.00	
submit reports/testing				4						4.0	280.00	
submit mylars		2				8				10.0	824.00	
submit electronic dwgs						4				4.0	304.00	
										0.0	0.00	
										0.0	0.00	
										0.0	0.00	
										0.0	0.00	
<b>TOTALS</b>	16.0	239.0	7.0	140.0	0.0	28.0	0.0	8.0	0.0	52.0	413.0	

<b>HOURLY BILLING RATES</b>		<b>\$/hr</b>	<b>SUBTOTAL LABOR COST</b>		<b>\$39,320.00</b>
Principal Engineer, P.E.	118.00		<b>EXPENSES</b>	<b>Markup</b>	<b>COST</b>
Senior Civil Engineer, P.E.	108.00			10%	
Sr. Project Manager, P.L.S., C.W.R.E	108.00			10%	
Civil Engineer, P.E.	82.00				
Jr. Civil Engineer, EIT	70.00		<b>Prints &amp; Reproduction</b>		<b>350.00</b>
Engineering Design Technician	76.00				
Cadd Draftsman	57.00				<b>0.00</b>
Land Surveyor	91.00				
Clerical/Word Processor	44.00				
3 Man Survey Crew	165.00				
2 Man Survey Crew	125.00				<b>\$39,670.00</b>

# HOURLY RATE SCHEDULE

Hourly Billing Rates  
Effective July 1, 2010

## ENGINEERING SERVICES

PRINCIPAL ENGINEER, P.E. ....	\$ 118.00/Hr
SR. CIVIL ENGINEER, P.E.....	108.00
CHIEF SURVEYOR\PROJECT MGR., P.L.S., C.W.R.E .....	108.00
CIVIL ENGINEER, .....	82.00
SURVEYOR, L.S.....	91.00
JUNIOR CIVIL ENGINEER, .....	70.00
ENGINEERING DESIGN TECHNICIAN.....	76.00
CADD DRAFTSMAN.....	57.00
CLERICAL .....	44.00

## SURVEY SERVICES

SURVEY PARTY CHIEF .....	73.00
SURVEY TECHNICIAN .....	55.00
2-MAN SURVEY CREW.....	125.00
3-MAN SURVEY CREW.....	165.00

## OFFICE AND FIELD SUPPLIES

5/8" IRON RODS W/PLASTIC CAPS.....	\$ 3.50/Ea.
2"x2" WHITE PROPERTY STAKES .....	2.50/Ea.
CONSTRUCTION STAKES - HUBS, LATH, P.K.'S.....	1.00/Ea.
COLOR PLOTS .....	6.00/Ea.
XEROX PRINT (24x36) (22x34).....	3.00/Ea.
XEROX PRINT (18x24).....	2.00/Ea.
MYLAR PRINTS(24x36).....	12.00/Ea.
MYLAR PRINTS(18x24).....	6.00/Ea.

1. Outside Direct Expenses will be billed at cost, plus 10% for overhead.
2. K & D Engineering, Inc. does not charge a mileage fee for the operation of company owned vehicles.
3. Commercial travel, lodging and meal expenses will be billed at cost, plus 10%.

## **PROJECT APPROACH**

### ***UNDERSTANDING***

The City of Springfield is proposing to construct a relief sanitary sewer line and bypass manhole to relieve potential surcharge deficiencies identified in the Wastewater Master Plan that could occur during wet weather events. This project is identified in the Wastewater Master Plan and begins at manhole 10035662 in the intersection of Thurston Rd and 58<sup>th</sup> Street and ends at manhole 100353671 in Main Street west of the intersection with HWY 126. The Master Plan indicates the relief pipe will be a 15" diameter gravity line.

The city has identified objectives for the design of the project in the RFP and additionally has expressed concerns about traffic control and impact in addition to the challenge of locating the proposed pipe due to the amount of existing utilities within the likely route. Although not discussed as an alternative in the RFP, a pump station and pressure pipe may be worth exploring as an additional alternative that would minimize pipe depths and facilitate borings that may be necessary.

### ***Preliminary Design***

We will begin the design effort by meeting with the City to take input, review initial concepts and information that will help define two routes that will be analyzed to determine the most economical and constructible route while minimizing traffic disruption. Following the preliminary development of the routes a geologic site reconnaissance and literature review will be completed for the area near the site to discover any additional information which would influence the choice of the alternate route.

K & D will prepare base mapping to be used for route evaluation using City GIS data to create the base. The City provided data will be supplemented with pertinent data gather by preliminary field survey and walk to create drawings and profiles to verify the validity of the proposed routes and of required easements. Contact will be made with the private owners where the routes need easements. Engineering analysis shall be performed at this time, to determine flow and flow control weir elevation requirements.

After preliminary route drawings have been prepared subsurface geotechnical exploration will be performed for each of the routes with boring at approximately 500' spacing. Samples will be collected and analyzed for moisture content, sieve analysis and liquefaction if necessary. A report will be prepared containing boring logs, laboratory test results, groundwater conditions, geologic map and cross section, construction and design recommendations,

Each of the alternate routes will be evaluated for permitting and easement needs and a cost estimates will be prepared for each that account for the findings from preliminary design. Following preparation of the cost estimates K & D will meet with the City to review results and identify the best route based on costs, risks, and impacts. This would also be an appropriate time for a public information meeting.

Following concurrence with staff on the predesign findings and conclusion a sewer route selection report will be prepared which will include investigations and findings and justification for the selection made. The report shall be submitted to staff and upon approval five final copies shall be prepared. K & D will assist staff with presentation to City Council as well as prepare drawings and presentation material.

### ***Field Data Collection***

K & D will begin field data collection upon approval of the recommended route. Prior to starting in the field the surveyor will meet with staff to verify datum and control requirements. We will also initiate research for existing property and right of way surveys and coordinate utility locates.

Topographic surveys shall be completed to locate all utilities and trees and features within 15' of right of way or proposed easement. Cross sections shall be performed at approximately 50' intervals. Property monuments will be tied along the route to calculate right of way and property boundary locations. As built drawings shall be reviewed to verify completeness of the work.

Base map shall be prepared including all the features identified in the RRP. Electronic copies as well as stamped original copies plotted at 1"=20 feet will be provided to the City.

### **Final Design/Easement Acquisition/Permits**

Following the base map development, drawings will be started that incorporate the preferred sewer alignment and plan and profile construction drawings will be completed. At the 30% mark, a cost estimate will be prepared. The estimate and 30% plans will be submitted to the City for review. Following the Staff review a project meeting will be held. At this point meetings will be coordinated with public and outside agencies to gain input regarding design and permitting requirements. The results of the meetings with public and outside agencies will be reviewed with Staff and incorporated into the design plans. All input will then be evaluated and tailored for implementation on this project.

While the design drawings are continuing K & D will initiate permit processes and also Right of Way Associates will begin working with affected property owners and the City. To facilitate discussions with property owners a sewer alignment will be staked. ROWA will also order title reports and establish appraisals to establish the values of needed easements. Results of easement discussion and appraisal will be evaluated with the City as early as possible to facilitate any desired design changes. Construction traffic planning and access will need to be considered in the design and bid documents

The 60% submittal shall include an updated cost estimate. The 60% plans will include revisions from prior input and preliminary details for the bypass manhole. A Staff meeting will be held following the 60% review. We suggest asking the franchise utilities to attend this meeting to discuss the project and begin coordination with any required relocations or potential utility work. A public information meeting will also be held following the 60% review.

K & D will coordinate with City Staff and ROWA regarding preparation of easement documents. Permitting will also be submitted as plan information is completed.

Following the 60% review and subsequent public input any modifications will be made to the drawings as well as adding final details, notes, erosion plans, traffic control plans and specifications in accordance with Springfield Design Standards.

The 90% construction drawings will include all plan and profile, notes, details, erosion plans, and traffic plans for final review. An updated cost estimate shall also be submitted at the 90% submittal. A project meeting will follow to discuss any redline comments and preferences for bid documents.

Following a final City review of the drawings and possible Council comments, any requested changes will be made. Final quantities will be completed and a project construction estimate will be submitted along with the 100% drawings.

### **Bid Phase**

Bid documents will be prepared in the City's bid format in accordance with the City and State laws, codes and design standards. We propose to prepare and supply the City with 20 plan sets and bid documents for distribution to Contractors and bid centers and a master copy of the bid documents as well as reproducible construction drawings. Electronic PDF format plans and bid document will also be prepared. K & D will attend a pre-bid meeting and assist the City in responding to inquiries by Contractors and preparing any addenda as required and assist the City in reviewing and evaluating bids received for the project. Additional plan sets or bid documents will be supplied at the cost shown in the fee proposal.

### **Construction Administration and Post Construction**

K & D Engineering will provide full construction administration and construction survey services as included in the RFP. Coordination with property owners, utilities and other affected parties both prior to construction and during construction will be essential to successful completion.

#### **Construction Engineering Support**

- Contact affected parties.
- Contacting businesses to gather information to limit impacts on local business.
- Coordination with the City.
- Coordination with franchise utilities with regard to utility location, design, and scheduling.
- Film a pre-construction video of the work area.
- Attend the Pre-Construction Meeting with the City, Contractor, utilities and public agencies as required for the project.
- Provide daily inspections and coordinate testing.
- Maintain daily and week inspection reports and logs.
- Provide review and engineering oversight for field modifications or substitutions.
- Recommend contract payment based on a review of monthly Contractor pay requests.
- Verify installed quantities.
- Coordinate and monitor testing.
- Monitor grades and alignments throughout project construction.
- Maintained coordination with affected residents and businesses.
- Prepared final Punch list to be corrected by the contractor.
- Recommended project acceptance to the City.
- Provide post construction certification and project documentation.

#### **Construction Surveys**

- Set clearing/Demolition limits stakes.
- Set construction stakes for sewer.
- Perform as-built surveys.
- Prepare record drawings of the project and submit mylars to the City.

## **PUBLIC AGENCY PROJECT EXPERIENCE**

### **North Albany Road (Hwy 20 to the Railroad Tracks)**

K & D Engineering was retained as the Engineering, Surveying, and Construction Management consultant by the City of Albany to conduct preliminary research, design, survey and manage the reconstruction of North Albany Road, a \$1.1 million project.

Project design required extensive preliminary survey work, coordination with the City, franchise utilities, and ODOT. K & D Engineering, Inc. also managed the construction and provided construction staking. The primary challenges of this project were coordinating traffic control during construction and working with ODOT.

#### Services Included:

- Contacting residents regarding parking and sewer connection issues.
- Contacting businesses to gather information to limit impacts on local business.
- Coordination with the City.
- Coordination with franchise utilities with regard to utility location, design, and scheduling.
- Application to ODOT Rail Crossing Safety for crossing alterations.
- Coordinate signal design with our sub.
- Design of lane configurations to maximize efficiency and public safety.
- Coordination with local business owners to design parking-area-access alterations.
- Survey and deed research.
- Preparation of legal descriptions and maps.
- Negotiations with property owners for right-of-way acquisition.
- Preparation of dedication deeds and easements using the City's format.
- Prepare Bid Documents.
- Provided construction staking.
- Scheduled the Pre-Construction Conference with the City and the Contractor.
- Conducted weekly meetings with a City Representative and the Contractor.
- Provided full-time daily inspections.
- Recorded As-built conditions.
- Recommended contract payment based on a review of monthly Contractor pay requests.
- Coordinated and monitored testing.
- Maintained coordination with affected residents and businesses.
- Prepared final Punch list to be corrected by the contractor.
- Recommended project acceptance to the City.

#### Contact:

Jeff Woodward, P.E.  
City of Albany, Public Works Engineering  
541-917-7642

## **North Albany Road LID (Gibson Hill/North Albany Road Roundabout and Connections)**

This project involved reconstruction of a new roundabout at the intersect of Gibson Hill Road and North Albany Road, extending North Albany road to the north and re-constructing portions of the existing roadway to accommodate sight lines into the new roundabout.

A roundabout was selected for this intersection for a variety of reasons, but primarily for traffic safety concerns. This intersection is on a side hill and stopping during icy conditions was a concern. The roundabout prevents t-bone collisions and accommodates the directional flow of the vast majority traffic (primarily south North Albany Road to Gibson Hill road (on the west leg). Due to the sloping side hill conditions, special care to sight distances were critical in designing the profiles of the approach legs. Care was also taken to orient the grades of the roundabout to accommodate the varying profiles of the incoming legs. This roundabout could not be treated like a flatland roundabout. Fill requirements of space availability suggested a roundabout diameter near the small side of the standards, but, care was taken to expand dimensions where necessary to accommodate turning movements.

Traffic detour considerations, and detour timing were critical components of the construction phase. Construction schedules were closely monitored and this project resulted in fewer road closure days than allowed by the contract.

### Services Included:

- Coordination with the City.
- Coordination with franchise utilities with regard to utility location, design, and scheduling.
- Coordinate with our roundabout sub consultant.
- Design of lane configurations to maximize efficiency and public safety.
- Survey and deed research.
- Preparation of legal descriptions and maps.
- Negotiations with property owners for right-of-way acquisition.
- Preparation of dedication deeds and easements using the City's format.
- Prepare Bid Documents.
- Provided construction staking.
  - Scheduled the Pre-Construction Conference with the City and the Contractor.
  - Conducted weekly meetings with a City Representative and the Contractor.
  - Monitored grades and alignments throughout project construction.
  - Provided full-time daily inspections.
  - Recorded As-built conditions.
  - Recommended contract payment based on a review of monthly Contractor pay requests.
  - Coordinated and monitored testing.
  - Maintained coordination with affected residents and local news outlets.
  - Prepared final Punch list to be corrected by the contractor.
  - Recommended project acceptance to the City.

### Contact:

Staci Belcastro, P.E.  
City of Albany, Public Works Engineering  
541-917-7645

## **Linn Benton Community College-East Linn Campus; Lebanon, Oregon**

K & D Engineering was selected by D.W. Siverson Company (developer) to perform Consulting Engineer and Surveying services for a project that involved widening US Highway 20 in Lebanon, as well as the design of parking areas and site work.

This project involved coordination and accommodation of the needs of the users of the facility. Planning efforts included coordination with both ODOT Highway and Rail Divisions, and substantial City planning approvals including public hearing at both the Planning Commission and City council levels.

K & D Engineering, Inc. also provided construction staking for the project.

### Services included:

- Preliminary data collection including topographic survey.
- ODOT Hwy permit/requirement research
- ODOT Rail Crossing Safety coordination and application preparation/submittal.
- Coordination with the City of Lebanon (Planning & Engineering).
- Coordination with the Railroad (City of Lebanon – Owner).
- Site and utility design.
- Storm drainage design.
- Hwy 20 widening design and parking lot layout and design.

### **Contacts:**

Michael Holland, Vice President  
Administrative & Student Affairs

LBCC, (541) 917-4211

DW Siverson Company, (503) 223-2680



## ***PUBLIC AGENCY EXPERIENCE***

K & D Engineering has provided consulting services to a host of municipal, county, and public entities in addition to private development. For brevity only municipal/public clients and work since 1995 have been shown.

<b><u>CLIENT MEMBERS</u></b>	<b><u>PROJECT</u></b>	<b><u>SERVICES PROVIDED</u></b>	<b><u>YEAR</u></b>	<b><u>KEY TEAM</u></b>
<b>CITY OF ALBANY</b>	Timber Street/Dogwood Avenue	ST/SS/WL/SD/CA & CIP Box culvert	1995-1996	DW (PM,DE)
	Santiam Road Reconstruction	ST/SS/WL/SD/RRX/CA	1999-2000	DW (PM, DE), GB (CA)
	Willamette Sewer Trunk	Surveying	2000	JC (PM)
	53 <sup>rd</sup> to Morse Lane Waterline	WL/CA/Survey	2001	GB (DE, CA)
	North Albany Road Hwy 20 to RR	ST/SD/WL//RRX/Survey	2001-2002	DW (PM), GB (DE, CA)
	Geary/14 <sup>th</sup> /Clay Restoration	Survey/Drafting	2003	GB (PM)
	N.A. Road Roundabout & LID	ST/SD/Survey	2003-2005	DW (PM), GB (DE, CA)
	Knox Butte Roundabout	Surveying	2008	JM (PM, SR)
	On-Call Surveying	Surveying	2008-2011	on-going
	Talking Water Garden			
	Cox Creek Bridge	Structural	2010-2011	DW (PM, DE)
	Integrated Wetlands Effluent Pipeline	SS	2010	GB (PM, DE)
	Construction Staking	Surveying	2010-2011	JC (PM)
<b>(CH2M Hill)</b>	Albany/Millersburg Waterline	Surveying	2002-2006	JC (PM)
	City of Albany Waste Water Treatment Plant	Surveying/As-Built Plans	2005-2007	JC (PM)
<b>(Albany Parks Dept)</b>	Timber Linn Lake Amphitheater	Structural/GRD/SD/Survey/CA	1995-1996	DW (PM, DE)
	Skate Park	GRD/Survey	1998	DW (PM, DE)
	Cox Creek Path	ST/SD/GRD/Survey/CA	2000	DW (PM)
	Aquatic Center Wetland Survey	Surveying	2000	JC (PM)
	Willamette Pathway (Buzzsaw to Bowman)	Structural/Design/Survey/CA	2003	DW (PM, DE) GB (CA)
	Monteith Stage	Structural/Re-hab	2001	DW (PM)
	Eades Park	GRD	2008-2009	DW (PM, DE)
	Kinder Park	SD/ST/GRD/Surveying	2008	DW (PM, DE)

# **PUBLIC AGENCY EXPERIENCE**

<b><u>CLIENT MEMBERS</u></b>	<b><u>PROJECT</u></b>	<b><u>SERVICES PROVIDED</u></b>	<b><u>YEAR</u></b>	<b><u>KEY TEAM</u></b>
<b>CITY OF CORVALLIS</b>				
	Sanitary Sewer Topo Survey	Surveying	2001	JB (PM)
	Hwy. 99 Hydraulic Modeling	Flood Modeling	2005	GB (PM, DE)
<b>CITY OF FALLS CITY</b>				
	Falls City Sewer & Water	SS/WL	2000	
<b>GREATER ALBANY PUBLIC SCHOOLS</b>				
	Albany Schools – Misc. Sites	Pavement Rehabilitation	1997 & 1998	DW (PM, DE) GB (DE, CA)
	Sunrise School Parking Lot	ST/SD/CA	2000	DW (PM, DE, CA)
	South Shore Parking Lot	ST/SD/CA	2000	DW (PM) GB (DE, CA)
	Misc. Schools Boundary	Surveying	2002-2007	JC (PM)
	NA Elementary Basketball Court Cover	Structural	2003	DW (PM, DE)
	Fir Grove School Parking Lot	ST/SD/CA	2007	DW (PM, DE, CA)
	Fairmount School Parking Lot	ST/SD	2008-2009	DW (PM, DE)
	Bus Garage Pavement Rehab	ST/SD/CA	2007	DW (PM) GB (DE, CA)
	Oak School Bus Loop	ST/SD	2010	GB (PM, DE, CA)
	Lafayette School Loading Zone	ST/SD	2010	GB (PM, DE, CA)
<b>CITY OF INDEPENDENCE</b>				
	Ash Creek Pathway	Surveying	2008	JM (PM)
<b>CITY OF LEBANON</b>				
	Monumentation Survey for West Side Sewer Interceptor	Surveying	2000	JC (PM, SR)
	Oak Street Improvements	Surveying	2001	JC (PM)
<b>LINN BENTON COMMUNITY COLLEGE</b>				
(D.W. Sivers Co.)	One Stop Center (Lebanon Campus)	WL/GRD/SD/ST/Survey/Inspection	2000	DW (PM, DE, CA)
	LBCC Water Right	Water Right	2003	JB (PM)
	Fire Sprinkler Connection	Design	2004	DW (PM, DE)

# **PUBLIC AGENCY EXPERIENCE**

<b><u>CLIENT MEMBERS</u></b>	<b><u>PROJECT</u></b>	<b><u>SERVICES PROVIDED</u></b>	<b><u>YEAR</u></b>	<b><u>KEY TEAM</u></b>
<b>LINN COUNTY</b>				
	Old Salem Road	ST/SD/WL/Survey	1996	DW (PM, DE)
	John Neal Park/Sunnyside Park On-Site Sewer Treatment Sys.	SS	2001	
	Linn Co. Road Overlay Project	Specification/Project Review	2005	GB (PM)
<b>CITY OF MILLERSBURG</b>				
(CH2M Hill)	54 <sup>th</sup> Survey Support	Const. Surveying	2004	JC (PM)
(Valley Pacific Const.)	Millersburg Drive	Const. Surveying	2008	JB (PM)
<b>EUGENE WATER &amp; ELECTRIC BOARD (EWEB)</b>				
	Summit Terrace Pump Station & Reservoir	Design/Modeling	2002	DW (PM)
<b>OREGON YOUTH AUTHORITY</b>				
	Oak Creek Detention Facility Sewage Solids Elimination	SS	2002	JC (PM)
<b>NORTH SANTIAM WATERSHED COUNCIL</b>				
	Mad Creek Bridge Design	Structural	2000-2001	DW (PM, DE)
<b>GIRLS SCOUTS SANTIAM COUNCIL</b>				
	Whispering Winds Lake Dredging	Dredging Plan/SD/Survey/CA	2000-2001	DW (PM, DE)

## **NOTES:**

ST = Street or Parking Design  
 WL = Waterline Design  
 CA = Contract Administration

SS = Sanitary Sewer Design  
 SD = Storm Drainage Design  
 GRD = Site Grading Design

DW – Dan Watson, P.E.  
 GB – Grant Beem, P.E.  
 JC – Jason Cota, P.L.S.  
 JB – JackBurrell, P.L.S.  
 JM – Jamey Montoya, P.L.S.

PM – Project Manager  
 DE – Design Engineer  
 SR – Surveyor of Record

**ADDITIONAL REFERENCES**

**CITY OF ALBANY**

*Knox Butte Roundabout*

Chris Cerklewski  
Public Works/Engineering  
(541) 917-7646

*North Albany Road Hwy 20 to RR*

Jeff Woodward  
Public Works/Engineering  
(541) 917-7642

*On-Call Surveying*

Jeff Blaine  
Public Works/Engineering  
(541) 917-7633

**CITY OF ALBANY PARKS DEPT.**

Ed Hodney  
(541) 917-7769

**GREATER ALBANY PUBLIC SCHOOLS**

Russ Allen  
(541) 967-4513

**CITY OF CORVALLIS**

*Sanitary Sewer Topo Survey*

Jon Katin  
Public Works Dept.  
(541) 766-6729 x 5084

**CITY OF INDEPENDENCE**

Shawn Irvine  
(503) 838-1212

**LINN COUNTY**

Darrin Lane  
Linn County Rd. Dept.  
(541) 967-3919



February 8, 2011

**REQUEST FOR PROPOSAL**  
**Public Works**  
**P21045 58<sup>th</sup> Street By Pass**

**ADDENDUM #1**

The City of Springfield is hereby amending or clarifying the above mentioned Request for Proposal (RFP). The original document can be found on the City's website at [www.springfield-or.gov](http://www.springfield-or.gov) by selecting the hyperlink *Purchasing/Contracts* from the menu on the left side of the home page, interested parties will be linked to the RFP/ITB page.

1. **Question:** We would like to receive PDF copies of proposals from Murray Smith and Associates and Harper Houf Peterson Righellis for the Jasper Trunk Sewer project, project # P20353

**City's Response:** The two RFP responses have been posted to the following URL's  
[Http://springfield-or.gov\RFP\P20353 Murrury, Smith and Asso. Bid Proposal Received.pdf](http://springfield-or.gov\RFP\P20353 Murrury, Smith and Asso. Bid Proposal Received.pdf)  
[Http://springfield-or.gov\RFP\P20353 Harper Houf Peterson Righellis Bid Proposal Received.pdf](http://springfield-or.gov\RFP\P20353 Harper Houf Peterson Righellis Bid Proposal Received.pdf)

In the event that it is necessary to further amend, revise or supplement any part this RFP, additional addenda will be posted on the City's website at <http://www.springfield-or.gov> (select the *Purchase Contracts* hyperlink and Addendum 1 P21046 58<sup>th</sup> Street By Pass). As stated in the original solicitation, City will make a reasonable effort to provide the addenda to all Proposers to whom City provided the initial Request for Proposal. This addendum shall be considered part of the specification of the Request for Proposal. The City is not responsible for any explanation, clarification, interpretation or approval made or given in any manner except by written addenda issued by City.

**ALL BIDDERS SHOULD ACKNOWLEDGE AND INCLUDE THIS ADDENDA #1 AS PART OF THEIR SUBMITTAL PACKAGE.**

*Grant Beem* 2-28-11



February 16, 2011

**REQUEST FOR PROPOSAL**  
**Public Works**  
**P21045 58<sup>th</sup> Street By Pass**

**ADDENDUM #2**

The City of Springfield is hereby amending or clarifying the above mentioned Request for Proposal (RFP). The original document can be found on the City's website at [www.springfield-or.gov](http://www.springfield-or.gov) by selecting the hyperlink *Purchasing/Contracts* from the menu on the left side of the home page, interested parties will be linked to the RFP/ITB page.

1. **Question:** Where is the URL for the project in the Sanitary Sewer Master Plan?

**City's Response:** The URL for the Master Plan is [http://www.springfield-or.gov/Pubworks/Projects/Waste Water MP Internet Posting.pdf](http://www.springfield-or.gov/Pubworks/Projects/Waste_Water_MP_Internet_Posting.pdf), as it appears in the RFP. Page 3, Paragraph 3 is hereby amended as follows: Strike "~~Page 53 and Figure 5.5~~" and replace with "Figure ES-1 and Table ES-1".

2. **Question:** Page 16 of the RFP appears to have duplicate information.

**City's Response:** Page 16 is hereby amended to read as follows (eliminating #'s 4- 6).

**AMOUNT AND METHOD OF PAYMENT**

1. The City shall compensate the Consultant for testing, design and construction management engineering and inspection services, as outlined in Sub-sections 1 through 8 above and in their proposal dated \_\_\_\_\_, in the amount not to exceed \$ \_\_\_\_\_.

2. The compensation for engineering services shall be payable for billed services performed on a monthly basis, in accordance with the agreed fee schedule. To request a progress payment, a certified billing for the Consultant shall be submitted to the City Engineer ten (10) days prior to the first Monday of the month following the billing period. In case of termination, the Consultant shall be paid for the actual acceptable work performed to date in accordance with the agreed fee schedule.

3. Total compensation to the Consultant, listed in Sub-section 1 above, shall be full compensation for all services necessary to fulfill the Consultant's obligations, including,

---

but not limited to, sub-contractors, the expense of printing, equipment, material, personnel, telephone, travel and per diem.

In addition to the foregoing being performed, the following additional services will be provided upon prior written authorization of the City.

Redesigns ordered by the City after final plans have been accepted by the City.

Appearance before courts or boards on matters of litigation or hearings related to the project.

Other services as requested by the City.

~~4. The City shall compensate the Consultant for testing, design and construction management engineering and inspection services, as outlined in 1 through 3 above and in their proposal dated \_\_\_\_\_, in the amount not to exceed \$\_\_\_\_\_.~~

~~5. The compensation for consultant services shall be payable for billed services performed on a monthly basis, in accordance with the agreed fee schedule. To request a progress payment, a certified billing for the Consultant shall be submitted to the City Engineer ten (10) days prior to the first Monday of the month following the billing period. In case of termination, the Consultant shall be paid for the actual acceptable work performed to date in accordance with the agreed fee schedule.~~

~~6. Total compensation to the Consultant, listed in Sub-section 1 above, shall be full compensation for all services necessary to fulfill the Consultant's obligations, including, but not limited to, sub-consultants, the expense of printing, equipment, material, personnel, telephone, travel and per diem.~~

In addition to the foregoing being performed, the following additional services will be provided upon prior written authorization of the City, other services as requested by the City.

3. **Question:** What Vertical Datum does the City use?

**City's Response:** NAVD '88

4. **Question:** Can we have copies of the sign in sheets from the Project Information Meeting Feb. 16, 2011?

**City's Response:** The sign in sheets for the meeting can be downloaded at:

[http://springfield-or.gov/rfp/RFP P21046\\_58th St. Sewer By Pass\\_Project info meeting sign in.pdf](http://springfield-or.gov/rfp/RFP P21046_58th St. Sewer By Pass_Project info meeting sign in.pdf)

In the event that it is necessary to further amend, revise or supplement any part this RFP, additional addenda will be posted on the City's website at <http://www.springfield-or.gov> (select the *Purchase Contracts* hyperlink and Addendum 2 P21046 58<sup>th</sup> Street By Pass). As stated in the original solicitation, City will make a reasonable effort to provide the addenda to all Proposers to whom City provided the initial Request for Proposal. This addendum shall be considered part of the specification of the Request for Proposal. The City is not responsible for any explanation, clarification, interpretation or approval made or given in any manner except by written addenda issued by City.

**ALL BIDDERS SHOULD ACKNOWLEDGE AND INCLUDE THIS ADDENDA #2 AS PART OF THEIR SUBMITTAL PACKAGE.**

*Grant Beem* 2-28-11





February 23, 2011

**REQUEST FOR PROPOSAL**  
**Public Works**  
**P21045 58<sup>th</sup> Street By Pass**

**ADDENDUM #3**

The City of Springfield is hereby amending or clarifying the above mentioned Request for Proposal (RFP). The original document can be found on the City's website at [www.springfield-or.gov](http://www.springfield-or.gov) by selecting the hyperlink *Purchasing/Contracts* from the menu on the left side of the home page, interested parties will be linked to the RFP/ITB page.

- 1. Question:** During our mandatory project meeting, the question was asked about easement acquisition for businesses on the original routing for the 58th St. Relief Sewer. The answer was that the City had already acquired the easements. In reviewing the requirements for easement acquisition, I would like to make certain that these easements have been obtained. Is this correct?

**City's Response:** The City has not acquired the possible easements for routing of the Relief Sewer. The selected Consultant is required to provide a design report with a minimum of two Sewer Line routings. The City will select the design Sewer Line route from the design report. Until then, it is unknown if easement acquisitions will be required.

In the event that it is necessary to further amend, revise or supplement any part this RFP, additional addenda will be posted on the City's website at <http://www.springfield-or.gov> (select the *Purchase Contracts* hyperlink and Addendum 3 P21046 58<sup>th</sup> Street By Pass). As stated in the original solicitation, City will make a reasonable effort to provide the addenda to all Proposers to whom City provided the initial Request for Proposal. This addendum shall be considered part of the specification of the Request for Proposal. The City is not responsible for any explanation, clarification, interpretation or approval made or given in any manner except by written addenda issued by City.

**ALL BIDDERS SHOULD ACKNOWLEDGE AND INCLUDE THIS ADDENDA #<sup>3</sup> AS PART OF THEIR SUBMITTAL PACKAGE.**

*Grant Bean 2-28-11*