

T.G.C.

Memorandum Date: August 12, 2009
Board Order Date: August 25, 2009

TO: Board of County Commissioners
DEPARTMENT: CAO/Economic Development Standing Committee
PRESENTED BY: Michael McKenzie-Bahr C&ED Coordinator
AGENDA ITEM TITLE: ORDER/IN THE MATTER OF AWARDING A CONTRACT TO CIVIL WEST ENGINEERING FOR \$176,400; IN RESPONSE TO AN RFP FOR ENGINEERING AND PROJECT MANAGEMENT SERVICES FOR THE ROW RIVER VALLEY WATER DISTRICT WATER TREATMENT PLANT IMPROVEMENT PROJECT.

I. MOTION

MOVE TO AWARD A CONTRACT TO CIVIL WEST ENGINEERING FOR \$176,400, AND AUTHORIZE THE COUNTY ADMINISTRATOR TO SIGN CONTRACT DOCUMENTS

II. AGENDA ITEM SUMMARY

The County was awarded a \$1,000,000 Community Development Block Grant (CDBG) in March 2009 to make improvements to the Row River Valley Water District water treatment facilities. The next task in the project that needs to be undertaken is completion of final project engineering.

After following the prescribed process for competitive selection of an engineering firm, a proposed contract has been negotiated with Civil West Engineering for an amount not to exceed \$176,400.

Approval of the attached Board Order will allow the County to enter into a contract with Civil West Engineering.

III. BACKGROUND/IMPLICATIONS OF ACTION

A. Board Action and Other History

The Row River Valley Water District serves the communities of Dorena and Culp Creek to the east of Dorena Lake. The District is operating an aging water treatment system to treat drinking water for about 300 residents in the area. On behalf of the District, Lane County submitted a grant request that was awarded \$1,000,000 from the Oregon Department of Economic and Community Development Department, using federal Community Development Block Grant (CDBG) funds.

The Board of County Commissioners approved Board Order 09-3-18-11 accepting the grant. Since that time, the environmental documents required for the project have been completed. The next step in the process of replacing the treatment plant is the selection of an engineering firm to do the necessary engineering work.

A competitive solicitation document and process for engineering services was prepared by County staff working with the Row River Valley Water District.

On July 22, 2009, both the Register Guard and the Cottage Grove Sentinel published Lane County's legal ad requesting proposals from licensed Oregon engineers to perform final engineering and project management services. The proposal due dates was August 6, 2009.

Only one engineering firm replied to the RFP: Civil West Engineering. Their not to exceed cost was \$176,400. That amount is within the grant budget amount of \$200,000 for these services.

The RFP review team, consisting of the Lane County Community and Economic Development Coordinator, the Lane County Community and Economic Development Program Specialist, the Row River Valley Water District Board Chair, a Row River Valley Water District Board Member and the Row River Valley Water District Attorney, reviewed the response and found that it conformed to all RFP requirements.

The review team also evaluated the proposal on a variety of factors including Scope of Proposed Services; Familiarity with project locale; Professional Qualifications; Demonstration of CDBG project experience and Performance Examples. The highest score possible to receive in each category was a 1, which is what Civil West scored.

A contract for Professional Services has been developed with Civil West which has been reviewed and approved by the Board of Directors for the Row River Valley Water District and by our State CDBG liaison.

The next step in the contract process is for the Board of Commissioners to approve the order awarding the contract to Civil West. Upon approval of the Board Order the contract will be submitted into the county contract approval process, which includes review by County legal staff.

B. Policy Issues

This project is an example of the Board of Commissioner's policy to assist the rural communities of Lane County in solving infrastructure issues.

In moving to the next phase of this project – engineering and design – County staff has followed CDBG and County policy issues regarding the solicitation for services and the selection process of contractors.

The Board has the following policy issues to consider:

- 1) Should the County contract with Civil West in order to undertake this project?

C. Board Goals

The Row River Valley Water District water treatment plant project meets the following Board goals:

- 1) Develop Lane County's economic engine
- 2) Provide outstanding customer/constituent service
- 3) Build public trust through intensive communication and engagement

D. Financial and/or Resource Considerations

The entire \$176,400 engineering contract is being paid from the CDBG funds awarded for this project. The engineering services contract fits into the project budget of \$200,000.

E. Analysis

The competitive request for service process met County and state CDBG program requirements. The result of the process is that we have a selected a qualified engineering firm that is very familiar with the project and the cost of their services fits within the budgeted amounts for the work that has been identified as necessary to successfully undertake and complete this project.

F. Alternatives/Options

The options before the Board are as follows:

1. Approve awarding a contract to Civil West Engineering.
2. The Board may take no action. This would result in at least a delay in the project until the matters of concern to the Board could be resolved.
3. The Board may choose to reject the proposed contract and place the project back out for request for proposals.

IV. TIMING/IMPLEMENTATION

We are moving forward with an aggressive timeline in the hopes the majority of the work done at the Row River water plant is completed by Memorial Day 2010. In order to meet that timeline, we need to have an engineering firm on board and working on the solution. Upon Board approval of the hiring of an engineering firm, we expect the firm to begin work almost immediately.

V. RECOMMENDATION

Staff recommends that the Board adopt the proposed Order.

VI. FOLLOW-UP

Upon approval of the Board, C&ED staff will work with County Counsel to get the contract signed.

VII. ATTACHMENTS

1. Board Order awarding a contract to Civil West Engineering.
2. Civil West Engineering response to request for professional engineering services.

IN THE BOARD OF COUNTY COMMISSIONERS OF LANE COUNTY, OREGON

ORDER NO.) IN THE MATTER OF AWARDING A
) CONTRACT TO CIVIL WEST FOR
) \$176,400; IN RESPONSE TO AN RFP FOR
) ENGINEERING AND PROJECT
MANAGEMENT SERVICES FOR THE
ROW RIVER VALLEY WATER DISTRICT
WATER TREATMENT PLANT
IMPROVEMENT PROJECT.

WHEREAS, the Board of County Commissioners, working with the Row River Valley Water District, applied for a \$1,000,000 Community Development Block Grant, and

WHEREAS, on March 2, 2009 the Oregon Community & Economic Development Department awarded a \$1,000,000 grant of Community Development Block Grant (CDBG) funding to Lane County for the Row River Valley Water System Improvement Project, including \$200,000 for engineering services; and

WHEREAS, the Board of County Commissioners previously adopted Resolution/Order No. 09-3-18-11 to sign the CDBG agreement with Oregon Economic and Community Development and all related grant documents pertaining to the Row River Water System Improvement Project;

WHEREAS, Lane County has solicited proposals for professional services for the engineering services to be performed as a part of the grant award and received one responsive proposal and, working with the Row River Valley Water District, has reviewed the proposal for professional services; and

WHEREAS, after reviewing the proposal, Lane County has selected Civil West Engineering as the respondent most capable of performing the desired services within the scope of the CDBG award;

NOW THEREFORE IT IS HEREBY RESOLVED AND ORDERED that the Lane County Board of Commissioners does hereby approve contracting with Civil West Engineering for an amount not to exceed \$176,400; and further delegates authority to the County Administrator to execute such a contract.

DATED this 25th day of August, 2009.

Peter Sorenson, Chair
Lane County Board of Commissioners

APPROVED AS TO FORM

Date 8-14-09 lane county

OFFICE OF LEGAL COUNSEL

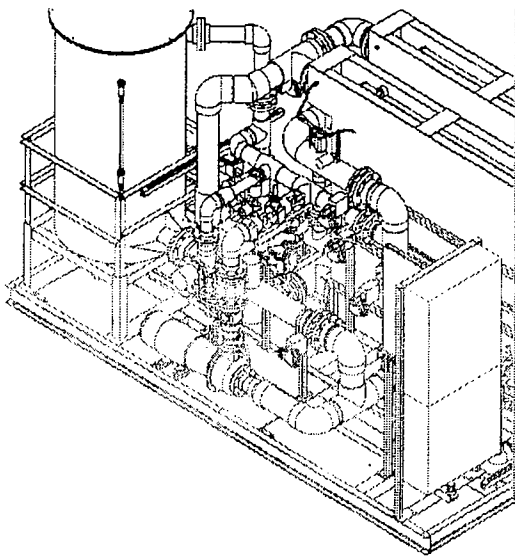
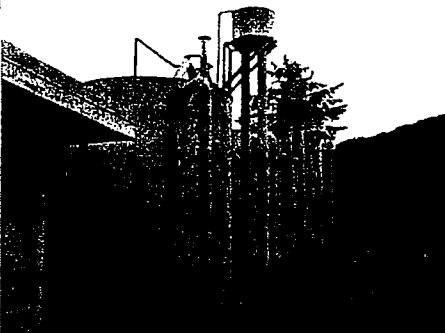
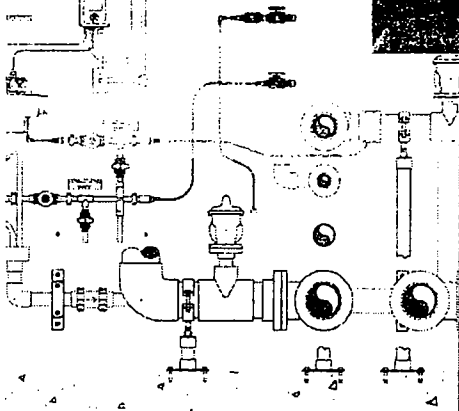
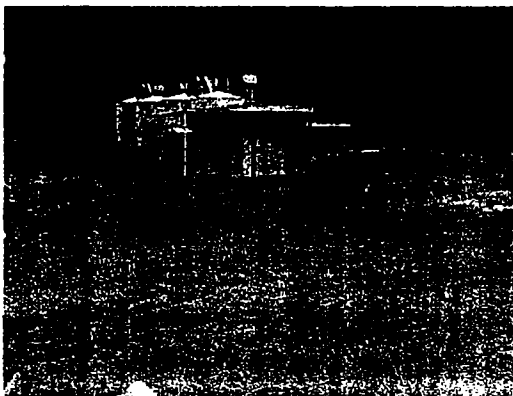
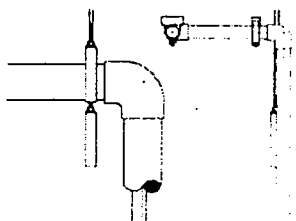
Civil West

Engineering Services, Inc.



486 E Street
Coos Bay, OR 97420
Phone 541.266.8601
Fax 541.266.8681

www.civilwest.com



Proposal for
Professional
Engineering
Construction
Services

Row River
Valley Water
District
Water Plant
Engineering





August 5, 2009

Mr. Mike McKenzie-Bahr
Community and Economic Development Coordinator
Lane County
125 E 8th Ave
Eugene, Oregon 97401

**RE: Submittal of Proposal for Water System Upgrade Projects
Row River Water District**

Dear Mike:

Attached you will find a copy of our proposal for the water system upgrade projects in Row River. As you know, our project team has been involved with the Row River Water District since this project was on the drawing board. We are pleased to be considered now to finalize this work and make the District's hopes and dreams become a reality.

With the submittal of this proposal, we acknowledge the following:

1. Civil West understands the scope of work required to complete this project and have proposed a package of services that delivers on that required scope;
2. Civil West will continue to abide by CDBG funding requirements throughout the project;
3. Civil West agrees to all terms and conditions contained as outlined in the County RFP;
4. Civil West and our subconsultants will abide by and satisfy the requirements for insurance as outlined in the RFP;
5. Civil West meets the requirements of ORS 279.11 and does not discriminate on any basis and especially not against minority, women, or small business enterprises in any of our subcontracting services.
6. Per ORS 279.029, Civil West is a resident proposer and corporation of the State of Oregon.

We are confident that no other firm has the background and understanding of this project as does our firm and our engineering team. We have been beside the District from the beginning and hope to be there at the end when they "flip the switch" and are operating their own, new water treatment facility.

We are prepared to begin this project immediately and will work diligently with the district to accelerate the schedule.

It has been our pleasure to be associated with all parties involved on this project. We recognize the difficulty and challenges and are committed to seeing the project through to the end.

If we can provide additional support or information outside of this proposal, we welcome your call anytime.

Sincerely,
Civil West Engineering Services, Inc.



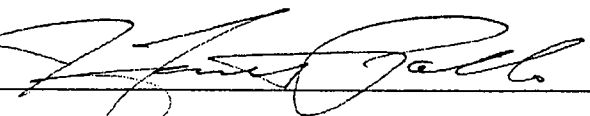
J. Garrett Pallo, PE
Principal

SECTION 11.0 MANDATORY CERTIFICATION:

The undersigned hereby submits a proposal to furnish engineering and other technical services pursuant to Lane County's "Request for Professional Services" for the subject project, and hereby agrees to be bound by the "Request for Professional Services", this completed proposal form and our proposal to furnish engineering and technical services.

FIRM NAME AND ADDRESS

Civil West Engineering Services, Inc.
486 E Street, Coos Bay, OR, 97420

By: 

Title: Vice President

Date: August 5, 2009

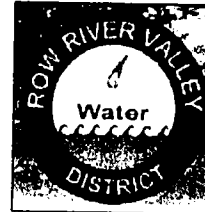
August 5, 2009

Civil West
Engineering Services, Inc.



Proposal for Engineering Consulting Services:

ROW RIVER VALLEY WATER DISTRICT Lane County Water System Engineering



Introduction to Proposal

Civil West Engineering Services, Inc. is pleased to submit this proposal for the Row River Valley Water District's water system upgrade project.

We have prepared this proposal with the goal of communicating our qualifications, to describe our approach to the remainder of the District's project, and to show that the Civil West project team will continue to be the best choice for this project.

Why Is Civil West the Clear Choice?

↓ **Familiarity:** The proposed engineering team from Civil West has been involved with and done all of the preliminary work on this project for the Row River Water District. No other group of professionals could be more familiar, prepared, or integrated into a project than the engineers at Civil West.

↓ **Oregon State Circuit Riders Background:** Members of our project team served as the managers and leaders of the Health Division's Circuit Rider program between 2001 and 2008. Through this program, we were called upon to provide technical services to water systems throughout the State of Oregon. Through this contract our engineering team was exposed to more systems, technologies, equipment, and water system issues than any other consultant in Oregon. While not currently serving as the State's Circuit Rider, the experience that our team gained remains with Civil West Engineering Services, Inc.

↓ **Contract engineer for numerous cities, districts, and water associations:** The engineers at Civil West have served and are currently serving as the contract engineer for numerous agencies, districts, and cities across the State. We

have proven to be valuable to communities not only as technical engineers to plan, design, and construct public improvements, but also as a team member who is regularly consulted concerning development issues, system planning, funding assistance, construction standards, capital improvements, and many other issues. We are currently providing general services to Row River and would look forward to providing more services to the District for some time.

↓ **Our team has done all the work on this project to date:** The engineers at Civil West have provided all of the engineering, to date, to the Row River Water District and completed all of the preliminary work related to this project. No other firm has our background with this project.

↓ **Our proposed project team is the most qualified and capable for this project:** Our firm is poised to provide immediate and efficient service to Row River. Furthermore, we have a long and distinguished resume which includes the design of numerous water treatment facilities of many different varieties including membrane, conventional, slow sand, and more. Our engineers are known for their expertise in the water engineering arena and we have enjoyed providing these services to small systems around the state. We have recently completed or are in the process of completing several similar water treatment and storage projects for other agencies and are prepared to undertake this project for Row River.

We hope this proposal makes the decision easy for the District as you seek to choose the most qualified and capable engineer to fulfill your needs.

Authorized
representative for
Civil West Engineering
Services, Inc.

Greg B. Vynum
Regional Engineer, PE
P. 504.01

Deborah J. Hill, PE
Vice President

301 E. St.
Coos Bay, OR 97420
Phone: 541-266-8601
Fax: 541-266-8681

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rbynum@civilwest.com

www.civilwest.com



Civil West Organization and Company Philosophy

Civil West Engineering Services was organized by Garrett Pallo and Robert Bynum after years of working together at other firms. Mr. Pallo and Mr. Bynum believed that there was a better way to practice engineering than what they had previously experienced. The creation of Civil West has provided them with the ability to set up and operate a firm with high levels of honesty, integrity, and interest in putting the client first.

At Civil West, we have been fortunate to build a firm of solid and extremely competent engineering professionals who have worked together effectively for many years. We believe that the strength of a firm is not based around a single individual or on past projects, but on the strength of our proposed project team and what we are capable of doing today and in the future for you as a valued client.

We believe that a satisfied client is more important than the bottom line. We seek to provide opportunities for savings both in our fees and with the engineering recommendations we make.

It is our philosophy that every project and every client is important to us and deserves our greatest efforts and attention.

We seek to develop relationships of trust through communication, professional integrity, and consistent, exceptional performance. We believe in living and practicing engineering with ethics and high professional and personal standards.

Other firms will make Row River "just another project." We will make the District's water expansion goals our most important project. We will prove this through the efforts we put forward, our attention to the District's needs and goals, and our desire to establish excellent communication with the District's representatives.

We are interested in long term relationships and hope that this project will lead to others where the District will look to us as a trusted and known quantity.

Civil West Background and Familiarity with the Row River Valley Water District

Key members of our proposed project team have experience and key background perspective with the Row River Valley Water District.

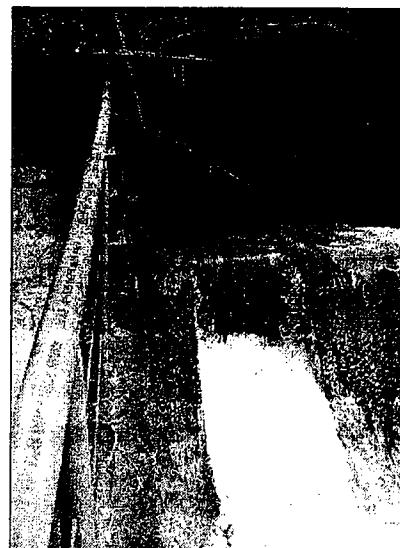
Garrett Pallo, Mark Hampton, Terry Nelson and Darin Nicholson have all provided engineering services to Row River over the past several years.

Our project team members have completed water master planning for the District in preparation for the formation of the District and for this project. Additional services have been provided to aid the District in planning and setting up their infrastructure and in securing funding. Finally, our project team completed various predesign tasks for the District including developing preliminary layouts, preliminary cost estimates, and funding assistance. Our engineers have attended public meetings, board meetings, and assisted the District in working through a difficult transition process with the City of Cottage Grove. We developed a simple design for a cut-off valve and blowoff installation at Baker Bay as well as provided input and support on a wide variety of other topics.

No other project team is as familiar and capable to complete this project and ensure a successful transition to independence for the District. We also want the District to

know that our interests in Row River go far beyond this project as we hope to provide general engineer of record services to the District for many years to come.

Trustworthiness and reliability are important qualities that we feel can be used to describe our project team.



Project Experience & Qualifications

Engineers for Civil West Engineering Services, Inc. are known throughout the State of Oregon for excellence and expertise in the water engineering arena. We have worked with both large and small water systems throughout the state.

The award-winning engineers at Civil West have undertaken planning, design, and construction projects both at Civil West and while employed with other firms.

An effort was made to select recently completed projects that are relevant to the Row River Valley Water District and indicative of our firm's abilities and expertise in all facets of water system engineering. A summary of selected projects is provided on the following pages.

We want to emphasize that the projects discussed in this Proposal truly represent our engineering experience. While other firms may claim some of the same projects, our project team and our engineers actually did the work for each of these projects.

Neskowin Regional Water District

The Neskowin Regional Water District had an aging conventional package plant that failed to meet peak summer water demands and lacked adequate automation and safety features. Robert Bynum was secured to provide planning and design services for the District including all planning, design, and construction management services for the project.

Planning was quickly completed to accurately identify future system needs and establish criteria for sizing new equipment and processes. Details, costs, and recommendations for various treatment options were developed to allow the District to make prudent and informed decisions. Desires for improved water quality and assurance of compliance with future rules lead the District to select a membrane treatment (micro-filtration) system.

A pre-selection process was completed where Memcor,

Koch, Zenon, Pall, and other membrane manufacturers competed to provide the equipment for the upgrade to the Neskowin Treatment facility. Memcor submerged membrane equipment was selected. Temporary membrane equipment was utilized while the existing treatment equipment was removed. New membrane filters, pumps, mechanical piping, on-site hypochlorite generation equipment, and monitoring equipment were installed within the existing building. The project was completed in 2006, providing nearly double the capacity of the old plant with reduced operating costs.

Civil West now acts as the District's engineer of record, providing development plan review and design for the entire water infrastructure needs in the community.

Contact: Guy Holzworth, Director,
(503) 392-3966

Project Costs: Approximately \$800,000

City of Powers

The engineers at Civil West have completed several projects for the City of Powers, including a new raw water intake, new waterline projects, sewer piping projects, wastewater facilities planning efforts, and others.

In working with a disadvantaged and financially struggling community, we were very conscientious with our billing and our project budgets. We have also worked to provide the highest level of service and quality and appropriate recommendations for the City.

We assist the City with obtaining funding, completing projects and many other services. We have truly become part of the "team" within the City.

Our engineers completed the design of a \$1 million waterline replacement project within the City. The existing piping system leaks at a rate of approximately 60% of the total water produced. The goal of the project was to significantly reduce or eliminate leakage in the system and improve overall system performance and reduce system maintenance.

Contact: Paul Strader, Public Works Director,
(541) 439-3102

Cascade Head

Civil West is currently in the design phase for a new membrane water plant to be constructed at Cascade Head resort. The new plant is similar to the one planned for Row River, though smaller in capacity.

The project is planned for construction next year.



Project Experience, continued

Oregon State Drinking Water Program

In 2001, the Oregon Department of Human Services, Drinking Water Program (Health Division) issued a request for proposals for a consultant to provide engineering services to fulfill a two-year commitment as the Surface Water Circuit Rider for the State of Oregon. A number of firms submitted for the project including many large firms such as EES, HDR and CH₂M Hill. Ultimately, the State selected a small firm called HBH to undertake this work. All of the members of our project team were active participants in the program with Robert Bynum serving as the project manager for 7 years.

The Circuit Rider program provides technical assistance, at no cost, to small water providers (10,000 persons or less) throughout the State of Oregon (both surface and groundwater systems). Services provided under the Circuit Rider program cover such areas as:

- CT tracer studies
- Treatment optimization studies
- Troubleshooting
- Grant or funding application preparation
- Equipment or hardware recommendations
- Water chemistry studies
- Operator training
- Water rights issues
- Preliminary planning and cost estimates

Through this project, our engineers had the opportunity to visit and assist a large number of water providers throughout the State. *This background has given our project team the practice and skill to be able to quickly and effectively deduce problems and provide solutions.* The engineers involved with the Circuit Rider program are among the most talented in the State in terms of water system understanding and knowledge. Our project team includes the vast majority of the engineers that have worked within the Circuit Rider program for the past 7 years.

Contact: Tom Charbonneau,
PE, Oregon Health Division
(971) 673-0406

City of Riddle



Robert Bynum, of our proposed project team, while a member of another firm, provided Master Planning, design, and project management for the City of Riddle water treatment plant project.

In 2000, the Oregon Drinking Water Program declared the Riddle water treatment plant as the *Oregon Water Treatment Plant of the Year*.

The award-winning plant has an overall capacity of 2 MGD and utilizes conventional treatment equipment.

The project included the construction of a new transmission main and booster pump station. The plant includes all the sophistication and instrumentation expected in a modern facility. The plant itself consists of rectangular concrete sedimentation basins with vertical paddle-wheel flocculators. Concrete basin filters with multi-media filtration and conventional underdrains complete the treatment process. Full SCADA, computerized monitoring and control, allows for simple and exact operation of the facility as well as remote operation and monitoring of the plant.

Contact: Eric Quinn, Public Works
Director
(541) 874-2905

Project Costs: Approximately \$1.9 Million

City of Myrtle Point



Garrett Pallo, PE, of our proposed project team, while a member of another firm, provided extensive and comprehensive engineering services for the planning, updating, and upgrading of the City of Myrtle Point's water system. A description of each improvement in Myrtle Point is provided below:

Pretreatment: The City of Myrtle Point withdraws water from the North Fork of the Coquille River as their primary and only raw water source. The turbidity in the river is known to rise to levels of 400 NTU or greater in the winter months. With the ever-increasing water quality requirements, the City began to struggle with compliance issues during the winter months. The City wished to construct a new sedimentation basin designed to provide pretreatment to the raw water prior to entering the plant, but lacked a site for the construction of such a large facility.

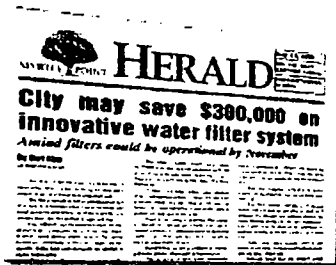


Project Experience, continued

An alternative and innovative solution was identified utilizing a stainless steel micro screening system that was designed to fine-screen the raw water, thus reducing the turbidity prior to entering the regular treatment process. The system that was designed and constructed in Myrtle Point was the first of its kind in the United States being utilized for municipal water treatment. The new Amiad pretreatment system makes use of self-backwashing screens that filter the raw water and effectively reduce turbidity.

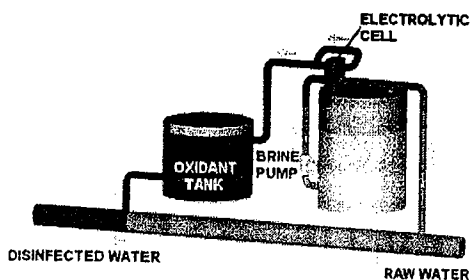
The project was constructed for a total cost of approximately \$225,000, which was \$300,000 less than the estimates for constructing a concrete sedimentation basin. The system has been running since 1998 without any problems and has proven to significantly reduce raw water turbidity throughout the year.

Upon completion of the project in 1998, The League of Oregon Cities chose the Myrtle Point project for their *Award for Innovation and Excellence*.



On-Site Chlorine Generation: The City of Myrtle Point had used a gas chlorine system for disinfection of their drinking water supply for many years. Finally, concerns about handling and safety of the poisonous gas system prompted the replacement of the system with an on-site chlorine generation system.

Garrett Pallo, PE, provided the design and construction services for the installation of the new on-site generation system that utilizes common rock salt to generate chlorine for disinfection. The City's system produces approximately 50 pounds (gas equivalent) per day of chlorine.



Treatment Plant Upgrades: The City's treatment plant was originally constructed in the 1950's and remained in original condition for 50 years. In 2002, rather than building a new plant, the City undertook a project to upgrade the existing plant and bring it up to modern standards.

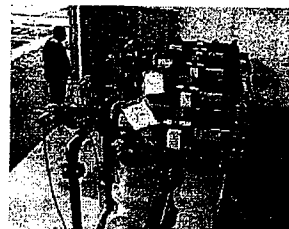
Garrett Pallo, PE, provided all the planning, design, and project management services for the improvement project at the water plant. Improvements included the complete reconstruction of the concrete filter bays, dual-media, plastic block-style underdrains, and related systems. The new filters utilize Leopold block-style underdrains with combined water and air-scour backwash for a superior media cleaning system.

The project also included the complete reconstruction of piping and valves in the piping gallery and the installation of a blower, new backwash pump, electric-actuated control valves, new instrumentation, new electronics, and a supervisory SCADA control system with a touch-screen master control panel. The new system has proven to be easy and intuitive to operate and produces excellent finished water quality. The new facility has a maximum production capacity in excess of 2.5 MGD. With these upgrades, the City expects to extend the plant's life to 75 years or more.

Total project costs for the upgrade were approximately \$550,000 with a change order ratio of 0.45%.

In addition to the above water system improvement projects, Mr. Pallo assisted the City of Myrtle Point with miles of distribution piping upgrades, water system Master Planning, Conservation Planning, Emergency Response Planning, Corrosion Control Pilot Studies, a water rate study, and many other important and successful water projects.

Contact: Randy Whobrey,
Public Works Director
(541) 572-2626



New Amiad filters in Myrtle Point. Each filter is capable of an independent backwash, allowing uninterrupted water production.



Project Experience, continued

Nesika Beach – Ophir Water District

Nesika Beach is located just north of Gold Beach. After years of dissatisfaction with engineering consultants, the District issued an RFP to select a new district engineer.

Garrett Pallo and Robert Bynum and our engineering team were selected from among several local firms to serve as the District's Engineers. The District has plans to undertake many projects including major waterline and storage projects, planning updates, funding acquisition, and more.

Contact: Amos Rhodes, Manager
(541) 247-2614

Beverly Beach Water District

Beverly Beach is a small water system located north of Newport. The District recognized the need to improve their aging and failing facilities and undertook a selection process for engineering.

Robert Bynum was successful in the selection process and has aided the District with planning and environmental issues, obtaining funding, and is currently in the process of designing a new membrane treatment facility, reservoir and pipeline improvements for the District.

We were recently reselected by the District to continue providing services and to complete their water improvement project.

Contact: Larry Tapanen, Board President
(503) 220-0078

Oregon Office of Emergency Management

In early 2004, the Oregon Office of Emergency Management released an RFP with the intent of securing the services of a firm to provide Vulnerability Assessment (VA) and Emergency Response Planning (ERP) to thirteen communities across the State of Oregon.

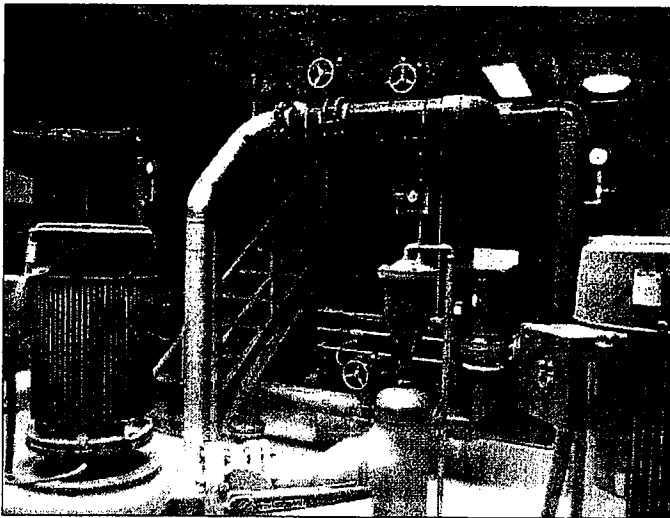
Garrett Pallo responded to the RFP, as a member of another firm, and was selected to undertake the planning projects over a distinguished group of competitors including the runner-up, CH2MHill.

The VA/ERP planning requires detailed inspection and analysis of the vulnerabilities, risks, and security issues facing the water agencies and their ability to continue to supply safe and reliable water to their customers.

With the assistance of our engineers, thirteen communities received grants through the State Homeland Security Program.

The experience gained by our staff through the completion of so many VA/ERP projects has made us experts on the subject and increased our abilities to provide excellent Master and Conservation Planning services to our clients.

We anticipate having the opportunity to continue assisting these communities with projects to upgrade and improve their systems to overcome the vulnerabilities identified through the studies.



Project Experience, continued

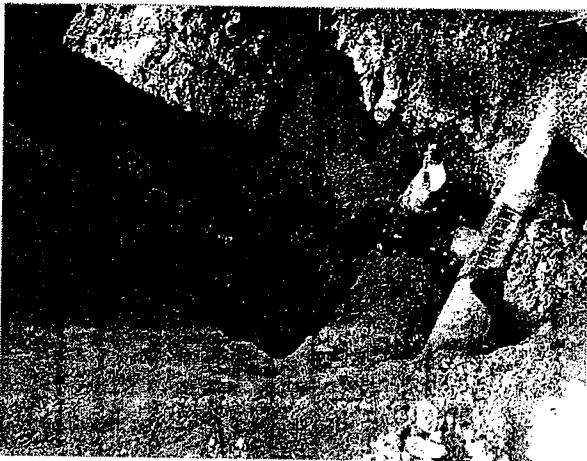
Tri-City Water and Sanitary Authority

Robert Bynum has served as the Engineer-of-Record for the Tri-City Water and Sanitary Authority, located south of Roseburg, for the last 7+ years.

During his tenure with the Authority, we have undertaken water and wastewater master plans, pump station and piping designs, development standards manuals, plant improvements, and provide regular assistance with planning and public works issues.

In 2002 the County initiated a road project to widen and reconstruct Old Highway 99, creating a large impact on Tri-City which had not been planned for. Our engineers had to quickly design realignments for several thousand feet of water and sewer piping and coordinate closely with the County's plans for road grade changes. Our plans were incorporated into the County road plans and bid as a cooperative construction project, saving the Authority significant costs for gravel and asphalt.

At the water treatment plant, staff had struggled for years with summer pH problems with values over 9 often occurring. The high pH made treatment difficult and resulted in a marked increase in finished water turbidity. Sulfuric acid had been used with some success in the past; however, pH regulation problems and safety concerns surfaced. We investigated options and set up two pilot studies for carbon dioxide gas feed equipment. The pilot studies proved CO₂ feed as a viable and safe option and a permanent installation was designed and installed in 2006. The system, which creates a safe and weak carbonic acid solution that is injected into the raw water, is the first of its kind in the State.



City of Yachats

Robert Bynum and Garrett Pallo of our proposed project team have provided planning, design and construction services for the City of Yachats water system while members of other firms.

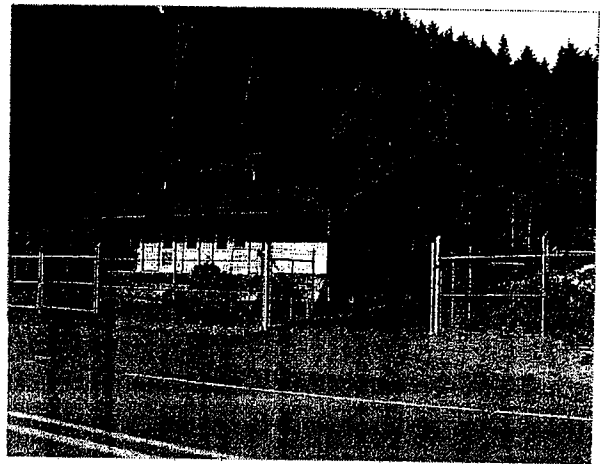
Garrett Pallo was the author of a Comprehensive Water System Management Plan for the City that included detailed handling of the City's water supply problems, including the development of new raw water sources and the potential for participation in regional water systems.

The City was in the midst of a battle with the Oregon Water Resources Department and had recently had their third attempted Water Conservation Plan rejected by the Department. Mr. Pallo worked closely with the Oregon Drinking Water Program and the Water Resources Department for a resolution. When the plan developed by Mr. Pallo was submitted to Water Resources, it was accepted without additional discussion.

The plans and recommendations developed in the City's Water Master Plan and Conservation Plan will aid them in managing the water system for the 20-year planning period.

Robert Bynum served as the design and construction engineer for the City of Yachats water treatment plant. The treatment plant, raw water and transmission piping, and all related systems represent the finest in water treatment technology.

The treatment plant includes dual-train packaged filters, up-flow contact clarification, and fully automated controls and telemetry.



Project Experience, continued

City of Lowell

Garrett Pallo recently completed a Water Master Plan Update and feasibility study for the City of Lowell's water system. The City had undertaken a water master planning effort in the late 90's that resulted in the construction of a new water treatment plant upgrade in 2002. However, the City is already experiencing periods of time when their treatment plant operates nearly 24 hours per day and development in the community continues to increase.

As a result, the City recognized that their previous planning and system upgrades were inadequate. The City selected Mr. Pallo, while a member of another firm, to complete a study which will consider what steps need to be taken to increase the City's water treatment capabilities as well as increasing the City's storage reserves. The information is to be used to plan for and obtain funding for the necessary improvements as well as to update the City's Systems Development Charge (SDC) methodology.

Many alternatives were considered for the City's treatment needs, including the installation of a dissolved air filtration system (DAF) to treat high summer algae levels, expansion of the existing conventional filtration system, conversion of the existing facilities to membrane treatment, and others.

In the end, a comprehensive document was prepared that, while resembling a complete water master plan, was completed at a small fraction of the cost for the City. The study includes recommendations for upgrading the City's treatment plant as well as the siting and sizing of a new finished water reservoir. Other recommended improvements included a booster pumping system, metering upgrades, chlorine contact upgrades, and others.

Civil West is currently completing the design services for the plant upgrades as well as tank and pipeline upgrades.

Contact: Chuck Spies,
City Manager
(541) 937-2157



City of Adair Village

Robert Bynum completed a Master Plan for the City of Adair Village in 2001. The plan included recommendations to account for a relatively vibrant growth rate in the community in excess of 2%. Plan recommendations included upgrades and additions to practically all facets of the City's water system.

In 2006, a developer approached the City with a plan to develop a large piece of property located outside the City's Urban Growth Boundary (UGB). The new development will effectively double the City's population and greatly increase the demands on the City's water system.

As the original master plan (2001) could not have predicted that this large development would be undertaken outside the UGB, the City selected Mr. Bynum to update the original study and incorporate the new development into the planning horizon.

The master plan update studied the feasibility of using existing facilities versus new facilities to meet the demands posed by the new development.

Alternatives for providing drinking water to the City and its new customers included using the existing intake and treatment plant or constructing a new intake and treatment facility. The existing (and aged) storage reservoirs were considered along with the potential for constructing new reservoirs at more optimum locations that would allow the City to eliminate an existing booster pumping station.

In each case, the value of existing facilities was carefully weighed against increased maintenance costs. If new facilities would result in lower overall costs, recommendations were made to replace rather than rehabilitate the facilities.

Civil West is currently in the predesign phase for a new water treatment facility and other water system upgrades.

Contact: Drew Foster, City Administrator
(541) 745-5507



Project Experience, continued

Mapleton Water District

The Mapleton Water District (located east of the City of Florence in Lane County) experienced various water treatment deficiencies resulting from their aging water treatment facilities.

The District, with the assistance of Lane County, applied for and received a Community Development Block Grant to assist them in upgrading their water treatment facilities.

The District and the County selected Robert Bynum and his staff to complete design and construction management services for the District.

The original treatment facilities in Mapleton utilized pressure filters and disinfection alone. Under the best of conditions, this technology would have difficulty ensuring safe and reliable treatment for the water in Mapleton.

Mr. Bynum recommended that the District invest in membrane treatment technology in order to have the best available technology for the new water plant.

The project included a deliberate approach to ensure that the District gets the best equipment at the most reasonable price. This was accomplished through a rigorous pre-selection process where the major equipment suppliers submitted "bids" for their equipment wares to be included in the final design. The equipment bids were reviewed along with many other criteria, including quality, other installation, maintenance costs, and others to determine the best equipment for the District. The pre-selection process locked in the price of the equipment and ensures that the District receives the equipment that is best for them.

Also, because the District pre-purchased the equipment, they avoided costly contractor markups. And, because the design proceeded around specific equipment, change orders were significantly reduced.

Construction in Mapleton was completed early in the summer of 2008.

Contact: Terry Saubert, Director
(541) 268-4348

Project Costs: Approximately \$750,000

Seal Rock Water District

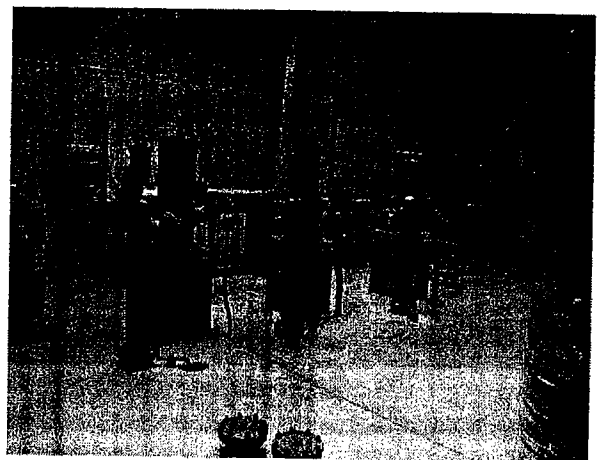
After nearly 25 years of working with the same consultant, the Seal Rock Water District elected to get a new viewpoint and input from the engineering community. After a rigorous selection process, Civil West Engineering was selected to undertake several important planning and engineering tasks for Seal Rock including water master planning, SDC methodology planning, development of construction standards and protocols, and a comprehensive aerial mapping project to map and inventory the entire District.

The mapping and modeling in Seal Rock will aid the District in planning and undertaking regular maintenance projects. The District desires to develop a capital improvement plan (CIP) that undertakes a number of projects each year to ensure that the entire system is properly maintained over a period of many years.

SDC planning will provide the District with up-to-date SDC calculations and data to support an accurate and defensible assessment for new connections.

Recently, the District elected to have Civil West complete all of their current and on-going projects. They have been pleased with our efforts and professionalism and chose to expand our involvement in their projects.

Contact: Julia Taylor, Manager
(541) 563-4447



Civil West Qualifications and Experience Summary

The engineers on our proposed team have had many opportunities to provide engineering services for many agencies across the State of Oregon. A number of our water projects have received awards and are excellent examples of the quality and care that we put into all of our projects.

This section of the proposal will provide lists of projects with which our engineers have had significant or total involvement whether at Civil West or at other firms. In each case, the experience gained on the projects remains with the members of our proposed engineering team. Detailed individual resumes for each team member can be found in the Appendix.

Municipal Water System Planning

City of Newport - Water Master Plan and Conservation Planning
Row River Valley W.A. - Water Master Plan
City of Lowell - Water Master Plan Updates
City of Adair Village - Water Master Plan Update
Dumbeck Water Association - Water Master Plan & Update
Tri City J.W. & S.A. - Water Master Plan
Neskowin Regional Water District - Water Master Plan
City of Hubbard - Water Master Plan
City of Drain - Water Master Plan & Conservation Plan
City of Amity - Water Master Plan Update
Nesika Beach W.D. - Master Plan & Conservation Plan
City of Myrtle Point - Water Master & Conservation Plan
City of Coquille - Water Master Plan
City of Rogue River - Water Master & Conservation Plan
Harbor Water District - Water Master & Conserv. Plan
City of Yachats - Water Master & Conservation Plan
City of Waldport - Water Master & Conservation Plan
Josephine County - Water Master Plan
Neskowin Regional Water District - Treatment Study
Blue River Water District - Water Master Plan
Lakeside Water District - Water Master Plan
City of Bandon - Water Master Plan
Curry County - Water System Inventory & Analysis
Oregon Office of Emergency Management - VA & ERP (13)

Municipal Water Treatment Projects

Beverly Beach Water District - New Membrane Plant
City of Lowell - Water Plant Expansion, Tank
Cascade Head - New Membrane Plant
Row River WD - New Membrane Plant, Tank
Neskowin Regional Water District - New membrane plant
Mapleton Water District - New membrane plant
City of Amity - New treatment plant - conventional packaged

City of Hubbard - New treatment plant
City of Riddle - 2000 Oregon Plant of the Year
City of Yachats - New treatment plant - conventional
City of Depoe Bay - New treatment plant
City of Brookings - Plant improvements
City of Myrtle Point - Plant upgrades -
LOC Award for Innovation and Excellence
City of Drain - Plant upgrades
City of Waldport - Plant upgrades
City of Coquille - Plant upgrades
Lakeside Water District - Plant upgrades
City of Siletz - New treatment plant
City of Rockaway Beach - Raw water piping and control improvements

Water Distribution/Pumping/Intake Projects

Riddle - Waterline and booster pump station
Yachats - Distribution system improvements
Depoe Bay - Intake, pumps station, transmission
Myrtle Point - Distribution improvements, metering
Coquille - plant, distribution, and metering improvements
Siletz - Distribution, storage, intake
Brookings - Intake, storage, booster pump stations
Oregon Institute of Marine Biology - Seawater storage tank
City of Adair Village - Storage improvements & Rehabilitation
City of Coquille - On-site chlorine generation
City of Myrtle Point - On-site chlorine generation
City of Siletz - On-site chlorine generation
Blue River - Well and telemetry system
City of Powers - New intake, transmission, and telemetry
City of Powers - Water Distribution system replacement
City of Yachats - New intake and transmission
Tri-City Water District - Booster pump station
City of Waldport - Booster pump station, reservoir
Tualatin Valley Water District - 18-inch distribution piping
Port of Umatilla - intake, pump station, transmission
Tri-City Water District - Douglas County waterline imps., new intake, new disinfection, new pH system
Neskowin - New storage reservoirs and piping upgrades
Nesika Beach - New reservoirs and piping upgrades



Summary of Project Team Experience Relevant to the Row River Valley Water District Proposal

Client/Project	Water System	Raw Water	Treatment Plant	Distribution/ Storage	Assistance with
	Planning	Intake/Rights	Design/Construction	Improvements	Securing Funding
Tri-City Water District - Highway 99 Water System Improvements				■	
City of Newport - Water Master Plan	■				
City of Adair Village - Water Master Plan	■			■	
City of Drain - Water Master Plan & Conservation Plan	■				
City of Drain - Water Treatment Facility Upgrades			■		■
Josephine County Water Master Plan - Merrill/North Valley	■				
City of Riddle - Water Treatment Plant - Oregon Plant of the Year 2000	■	■	■	■	■
City of Newport - Water Treatment Plant					
City of Depoe Bay Water Treatment Plant		■	■	■	
City of Coquille - Emergency Management - W/VERE Plan	■				
City of Rockaway Beach - Raw Water Piping & Control Improvements		■	■		
City of Adair Village - Calloway Booster Pump Station				■	
City of Adair Village - Water System Upgrades		■	■	■	
City of Oakland - Water Master Plan	■				
City of Rogue River - Water Master Plan & Conservation Plan	■				
City of Waldport - Water Treatment Improvements		■	■	■	
City of Yachats Water Master Plan & Conservation Plan	■				
City of Myrtle Point - Distribution System Upgrades				■	
City of Myrtle Point - Treatment System Upgrades			■		
City of Myrtle Point - Water Master Plan & Conservation Plan	■				
City of Coquille - Onsite Chlorine Generation System			■		
Harbor Water District - Water Master Plan & Conservation Plan	■				
City of Myrtle Point - Water Pretreatment System - LOC Award			■		
City of Siletz - Water System Improvements		■	■	■	
City of Waldport - Water Master Plan & Conservation Plan	■				
Oregon Drinking Water Program - Circuit Rider	■	■	■	■	■
City of Powers - Water Intake and System Improvements		■		■	
City of Hubbard - Water Master Plan	■				
City of Powers - Water Distribution system replacement				■	■
Newport Regional Water District - Water Master Plan	■				
Blue River Water District - Water System Improvements	■	■	■	■	
Neskia Beach Water District - Water Master Plan	■				
City of Brookings - Water Treatment Plant Improvements		■	■	■	
City of Port Orford - Water Treatment Plant Improvements			■		
Row River Valley Water Association	■				■
City of Bandon - Water Master Plan	■				



Project Understanding

A consultant's understanding of the project goals and the approach that is taken to complete the work is paramount to the overall success of any project.

We have a clear understanding and firm grasp on the District's objectives for this project. We present the following points and project history to illustrate our understanding of the project:

1. The District is in the process of taking over the operation of a water system formally owned and operated by the City of Cottage Grove.
2. The City of Cottage Grove, after many years and much study, concluded that the Layng Creek Water System was no longer viable and did not make financial sense to repair and maintain. As a result, the City made the decision to abandon the Layng Creek system and no longer provide water service to the customers whom it once served.
3. When the City announced their intention to cease providing services to a large number of customers, a group was organized and began to investigate the potential for a new water system. Ultimately the Row River Valley Water Association was formed and discussions began with City officials in an effort to negotiate an agreement for separation of the Association from the City.
4. The City of Cottage Grove and the Row River Water Association came to an agreement on the separation of the system. Among other conditions, the City agreed to donate much of the existing water system components to the new Association as well as provide a cash payment of approximately \$10,000 to each existing connection affected by the change.
5. In time, the Association went through the required steps to become a District. The Row River Valley Water District worked closely with Lane County officials to pursue other funding opportunities including a CDBG Block Grant for \$1 million.
6. An engineering contract was awarded to a firm with a team lead by Garrett Pallo. However, in time, Mr. Pallo and Mr. Bynum formed Civil West Engineering who, again, was selected to continue the planning process.
7. The upcoming project will include the design and construction of a new membrane water treatment facility. The District has already entered into a purchase agreement for the new equipment which is being supplied by Siemens. The new Siemens Memcor system will produce around 130 gpm and be expandable to over 200 gpm.
8. The project will also include a new reservoir be constructed to serve as a clear well and as a finished water reservoir to attenuate flows in the system.
9. Future phases will include improvements to the distribution system at several locations. Concerns over leaky and aged pipe sections along with funding availability will drive the prioritization of which piping sections are to be replaced.
10. Due to issues related to timing and availability of the CDBG Block Grant, the District has had to slow down the implementation schedule for constructing the treatment plant upgrades. This has created a need to operate the existing plant for significantly longer than originally anticipated. Civil West has been working with the District and the City to develop an agreement for the extension of the operating agreement for the existing plant. This negotiation has been, at times, difficult. However, the City appears to have accepted the fact that they must support the District for a period of time in order to be able to eliminate their involvement with the old water system.
11. As part of the funding requirements, Lane County determined that an additional selection process would be required for the County to select an engineer to complete the project. This proposal is being provided in response to the recent RFP issued by Lane County for the completion of the Row River project.

The above description should clearly illustrate our understanding of the issues facing Lane County and the Row River Water District. We have the history and the insight that no other firm can claim.



Project Tasks and Scope of Work

This section will seek to identify the major tasks that will be required to complete the work on the project. An effort was made to provide an overview of the scope for this project as well as look forward to future phases and other upcoming activities that are expected to be required by the District.

Task 1 – Project Management and Administration:

This task shall include project management, coordination, and administration of the project during the design phase. This shall include directing the efforts of the engineering staff, coordinating with the owner and funding agents, billing and administrative services, and other project management services.

This task will be aimed at maintaining good communication and keeping all parties on the same page. It will be our goal to carry out a project where all affected parties feel like they are in the loop and aware of all pertinent project information.

Task 2 – Water Treatment Plant Mechanical Design and Details:

This task shall include the engineering efforts to complete the mechanical design, project details, and other mechanical engineering efforts for the water treatment plant element.

Task 3 – Water Treatment Plant Building Design and Details:

This task shall include the engineering efforts required to prepare the plan and details for a prefabricated building. At this point, it is assumed that a steel building will house the new treatment and office facilities. Efforts will be made to work with prefabrication firms to reduce the scope of work required for this task as appropriate.

Task 4 – Water Treatment Plant Electrical and Controls Design:

This task will include consulting services from the electrical engineer and controls subcontractor as well as internal design efforts. Coordination with all existing controls and electronics will be included along with any necessary coordination with the power company for service power.

Task 5 – Water Treatment Plant Civil and Site Design and Details:

This task will include the design of all aspects of the site under and related to the treatment plant facilities. This will include grading, piping, demolition, resurfacing, drainage, fencing, and other design elements to refine the site.

Task 6 – Reservoir Civil and Site Design and Details:

This task will include the design of all site issues related to the reservoir. This shall include all grading, piping, foundation preparation, foundation design, drainage, fencing, resurfacing, and other site work design.

Task 7 – Reservoir Mechanical Design and Details:

This task will include preparing all designs and plans for the erection and layout of the new reservoir. Mechanical details will be prepared for all mechanical components, access points, ladders, etc.

Task 8 – Reservoir Controls and Electronic Design:

This task will include design of the level sensing and other controls related to the reservoir and its integration into the plant control system.

Task 9 – Prepare Bidding and Contract Documents:

This task will include the preparation of all agency-required bidding forms, general conditions, supplemental conditions, and documentation required to obtain bids and administer the project.

Task 10 – Prepare Technical Specifications:

This task will include the preparation of all of the technical specifications for the entire project. This will include information on material requirements, installation and workmanship requirements, operations requirements, and payment procedures for each item.

Task 11 – Submittals of draft and final documents:

Through this task, we will submit a draft set of project documents. The project documents will include all plans, specifications, contract documents, and other documents necessary to undertake the project. We will submit a total of



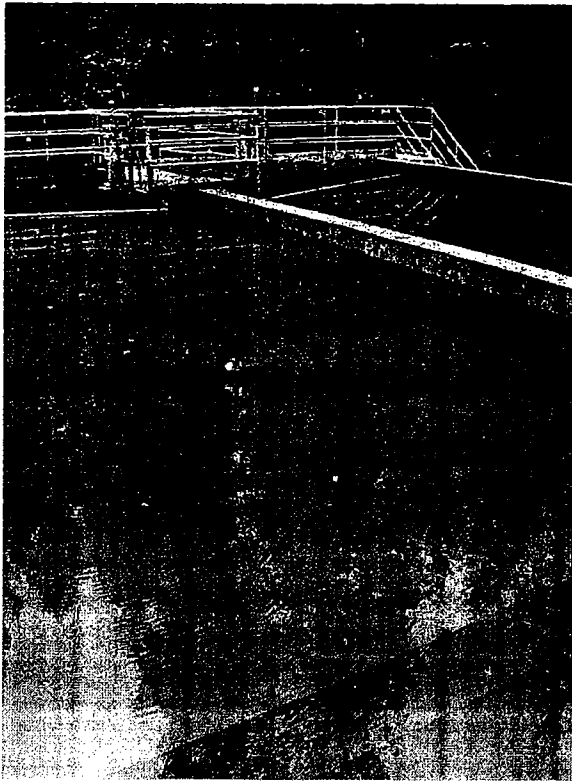
Scope of Work Continued

six (6) draft sets of documents. This will allow two for the County, two for the District, and two for agency or other use. Comments on the draft documents will be incorporated into a final submittal. This task will include the submittal of six (6) final sets of documents as well as digital versions of the project documents. Additional project documents will be made available during the bidding and construction phases under another scope.

Task 12 – Copies/Travel Costs:

This task includes costs for reimbursables for the project. Reimbursables may include copy and postage costs, mileage, meals, and other typically reimbursable expenses.

The scope of work above is considered to be appropriate and comprehensive considering the preliminary work that has been completed and the remaining engineering efforts that will be required to complete the project.



Project Schedule Discussion

The project schedule for the Row River Water District water improvement project includes several unknowns which will require an engineer to show flexibility and efficiency. A brief discussion of those issues is provided in this section.

Temporary operation of City Plant. Due to a number of complications, the project schedule has been delayed many times. As such, the City has and will continue to be required to be involved in the operation of the older facilities. However, the District has made great progress in assisting the City with this responsibility and has provided manpower support and financial support to reduce the burden on the City. This relationship must endure. However, we understand that the sooner the District is able to become totally independent, the better conditions will be for all involved.

CDBG Block Grant Issues. As discussed earlier, the District is funding this project, in part, through a grant from the CDBG program. As such, the County and the District have first-hand experience with the increased administrative support and time required to move the project forward. The engineering team on this project will need to be flexible to work around the CDBG issues and work double time to make up for losses and inefficiencies that may occur as a result of the funding agencies and the process.

Overall scheduling issues. In general, the following major points would be included in a discussion on project schedule for this project. Any suggestion of a guaranteed schedule or actual milestones by any firm would be inappropriate or inaccurate given the unknowns and complications in this project:

- Design work should proceed, funding permitting, immediately upon award of this RFP and the receipt of a notice to proceed. We would assume that a notice to proceed will be issued sometime in September of 2009.
- It is anticipated that design services are likely to take 2 to 3 months to complete after the consultant is authorized to proceed. Design should be completed by the end of this year.
- Funding and weather conditions permitting, some construction activities could begin in the spring (2010).
- Construction should be completed by mid summer. Again, this goal could be severely hampered should funding or other complications hold up progress on the project further.

As always, Civil West will do all we can to expedite the project and accelerate this conservative schedule.

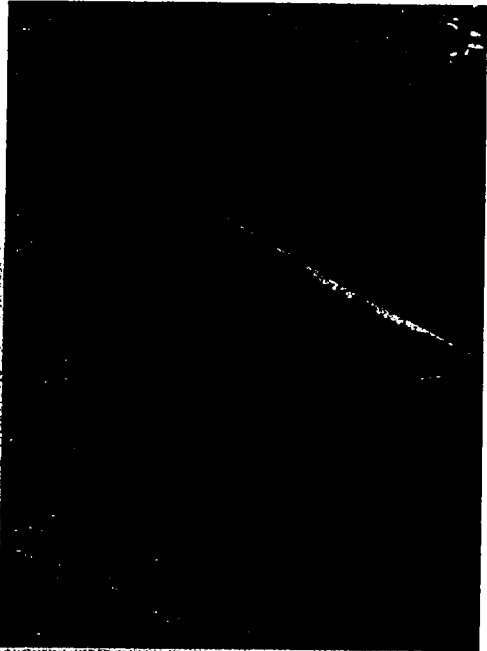


Engineering Fee Proposal

Civil West was previously asked to prepare a budget for the completion of the remaining tasks on this project. This section provides a restatement of that same budget as previously submitted to Lane County and the RRVWD.

The proposed budget for the Row River project is summarized in the table below along with an estimate of the hours that are anticipated for each major task described previously in this proposal. The fee proposal was developed with an understanding of the level of preliminary project work that has been completed and what remains. It is also assembled with an understanding of the anticipated administrative support that will be required due to the funding of this project.

We are confident that the proposed fee is reasonable and appropriate and that it provides value to the District.



		Engineering Fee Structure							
		Principal	Project Manager	Senior Project Engineer	Project Engineer	Eng. Tech	Clerical	Total Hours	Total Fee
		\$118.00	\$110.00	\$105.00	\$100.00	\$82.00	\$40.00		
Tasks									
	Treatment Plant Design								
1	Project Management and Administration	150						150	\$17,700
2	Mechanical Design and Details	24	100			24		148	\$20,600
3	Building Design and Details	24	80	24		24		152	\$16,120
4	Electrical/Controls Design and Details	24	150	24		40		238	\$24,188
5	Civil and Site Design and Details	16	40	80		40		176	\$15,868
	Reservoir Design								
6	Civil and Site Design and Details	16	40		40	24		120	\$12,256
7	Mechanical Design and Details	16	40		40	24		120	\$12,256
8	Electrical/Controls Design and Details	24	24		24			72	\$7,872
	Contract Documents								
9	Prepare Bidding and Contract Documents	24	80		40		24	168	\$16,592
10	Prepare Technical Specifications	24	80		40		24	168	\$16,592
	Deliverables and Reimbursables								
11	Submittals of draft and final documents	16	40		40	24	40	160	\$13,856
12	Copies/Travel Costs							2,500	\$2,500
	Total	380	574	108	277	200	88	1197	\$17,400.00



Proposed Civil West Project Team

As mentioned previously, Civil West is staffed by a number of professional engineers and a qualified support staff. In addition to our professional engineers, we also have technicians, clerical, field representatives, and other support staff capable of supporting our project team.

The organizational chart below indicates the proposed core project team for this planning effort. Additional members (clerical, technicians, field staff etc) can be assigned to projects in supportive roles as necessary.

We have organized our staff to provide the highest level of efficiency as possible, assigning the most qualified and appropriate members from our Coos Bay location.

We have included both of our principals in our project team to ensure there is superior quality control and accuracy in our work.

We will strictly follow our organizational and management chart to monitor and direct the progress of projects to ensure success.

The staff who will be assigned to this project will have adequate time in their projected schedules for the successful completion of projects.



County Main Contact

Mike McKenzie-Bahr
Lane County

District Main Contact

John Kirk
Row River Water District

Project Manager
Overall Project Management

Civil West Project Team Biographies

Garrett Pallo, PE, Garrett is one of the founding owners of Civil West Engineering Services, Inc. Garrett brings 15 years of civil engineering experience to bear on the District's project and will work tirelessly to support the District with all of their needs.

Garrett has extensive experience in water system planning, water conservation and management, hydraulic modeling, system development charges and rate analysis, and design with numerous innovative and successful projects throughout the State. Garrett is highly skilled and motivated and has become the Engineer-of-Record for many communities. His ability to plan and communicate effectively is appreciated by many city councils and water boards throughout Oregon.

Garrett will provide the overall project management and will serve as the main contact for Row River Valley Water District.

Robert (Bob) Bynum, PE, Bob is also a founding member of Civil West Engineering Services, Inc. and is known throughout the state as a water system expert.

Bob has nearly 20 years of experience in the industry and has designed over 8 water treatment facilities and provided upgrade design modifications for many others. He has authored numerous water master plans, designed storage tanks, pump stations, intakes, conducted extensive computer-based hydraulic network modeling, and designed over 40 miles of water system piping.

Bob is and has served as the engineer of record for many agencies throughout the state including water and sewer district, cities, and state agencies.

Bob will provide the oversight and be responsible for many of the tasks required to complete the treatment upgrades design in Row River. Bob has completed numerous master planning efforts and, as his references will attest, is among the best engineers in the state of Oregon.

Darin Nicholson, PE, will be assigned to the project to serve as a project engineer. With particular expertise and experience in geotechnical and soils engineering, Darin's skills will be valuable on nearly all projects the District undertakes. In particular, Darin will work on treatment and storage tank design on this project.

Darin has come to be a trusted and appreciated engineer for many cities and districts by providing consistent, high-quality engineering services.

Darin is highly skilled and capable of completing any task in this project.

Mark Hampton, PE, will serve as a project engineer and will serve on the design team providing mechanical design expertise on the project. Mark will also provide services during the construction phase of the work.

Mark has spent his entire career providing engineering services to communities and public districts in Oregon. Mark has proven himself to be capable of completing all phases of a project from planning to design and construction management. Mark's personality is such that clients, contractors, and fellow engineers quickly gain respect for him and enjoy working with him. Mark is an expert at working through conflicts and disputes on a project and helping all parties find an agreeable solution.

Jeff Murphy, PE, will provide technical services for the mechanical issues encountered during the treatment plant design effort. Jeff, who completed his degree in mechanical engineering, has several years of industry experience, including time spent with a leading pump manufacturer.

Jeff's mechanical understanding, coupled with his knowledge of fabrication, construction, and solving real-world problems, has proven time and again to be a valuable asset on any project. He has shown the difference between an engineer who can draw lines on paper and one who knows what it takes to actually build something.

Jerek Hodge has recently joined Civil West and is currently serving as an engineering technician as he prepares to obtain his professional license.

Jerek holds a degree in electrical engineering and has spent much of his career working in the high tech fields. A native of Coos County, Jerek longed to move home and obtain employment.

Jerek's intelligence and electrical background make him a valuable resource on all Civil West projects. Jerek will provide support on electrical and design issues on the project and will support the design team.

Terry Nelson, PE, of Camtronics, Inc. will serve as a subcontractor to Civil West to provide input on electrical and controls issues for the water system. Camtronics is a Women-owned business and represents our commitment to honoring diversity in the workplace.

Modern treatment plant equipment, instrumentation, and controls require an increased level of sophistication, requiring specialized electrical and controls engineering. Terry has the ability to provide a high level of electrical and controls engineering while being able to use common sense and customize his recommendations to make them appropriate for the end user and for the real-world needs



Civil West Project Team Biographies, Continued

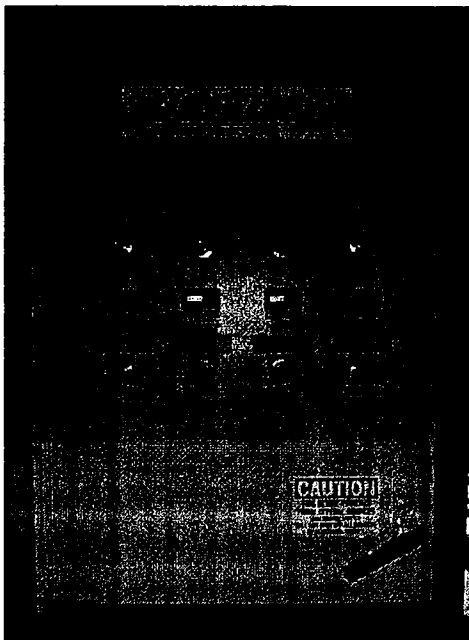
of the system.

Terry is a unique consultant in that he is both a licensed and bonded electrician and a registered professional electrical engineer. This means that Terry not only understands and can design electrical and control systems, but he can install, repair, troubleshoot, and adjust these systems. With this knowledge, he is also valuable to train personnel on the use of the new controls, computer, and instrumentation equipment.

We are confident that Civil West can service all the needs of the Row River Valley Water District. We have adequate staff time and will adjust our schedule and workload accordingly to ensure that the District receives the highest level of service available in our industry.

We encourage the selection committee to review the detailed resumes provided in the Appendix. We especially encourage the selection committee to contact our references and ask specific questions about our firm and about our project team. We are confident that you will be able to confirm all of the claims and information provided in this proposal.

We feel that we understand the District's needs and resources. As exhibited in this proposal, Civil West has developed a consistent track record of providing responsible, appropriate, and affordable solutions for community water systems throughout Oregon.



Miscellaneous Issues

Insurance

Civil West carries \$2 million (aggregate limit) in professional errors and omissions insurance for all our projects. We carry \$4 million dollars (aggregate limit) on our general liability policy to ensure adequate coverage for ourselves and our clients.

We have had our insurance provider prepare an insurance certificate for the District which we have included in the Appendix to this proposal.

Policy on Nondiscrimination

Civil West is an equal opportunity employer. As such, we comply fully with all state and federal laws pertaining to nondiscrimination. We employ our staff based on personal skills, integrity, and technical capabilities and not based on race, color, religion, sex, national origin, or any other classification.

While this statement sounds like a politically correct quotation, the truth is that we highly regard all of our employees and seek to give them a place to work that is safe, secure, and provide the same opportunities for growth and development to all of our employees.

Conflict of Interest Policy

Civil West wishes to be loyal and committed to Row River. As such, we will never pursue to entertain opportunities to work with the City of Cottage Grove on projects. We recognize that working in Cottage Grove could result in a potential conflict of interest. We have followed this policy with many of our clients and have found it to be the best course of action.

We Want to Provide These Services to Row River

We hope that it goes without saying that several of the members of our project team have enjoyed their association with the Row River Valley Water District, and that we as a firm hope to continue this association by working together on this important and critical project.

It can be said that having a viable and effective water system is the most important and critical component of a modern community. We take that responsibility seriously and understand the importance of providing the District with the best in water system planning on this project.

Some engineers may never say it, but we want the District to know, "We want to be your engineer."



Conclusion and Summary

To summarize why Civil West Engineering Services, Inc. is the best choice for the Row River Valley Water District, we provide the following summary:

No. 1: Experience. Our proposed project team includes some of the most experienced engineers in the State of Oregon for water system planning and engineering. Our engineers have planned for and designed numerous water treatment plants, reservoirs, intakes, booster pump stations, transmission piping, and distribution networks. Our project team engineers took the lead and carried the vast majority of the load of work completed under the Circuit Rider contract for the Drinking Water Program between 2001 and August of 2008. During this time, our engineers obtained a wealth of experience and knowledge that is not duplicated by any other project team.

Also, our engineering team has worked closely with Row River for the past several years as they have planned and prepared to become an independent and viable water system. No other engineering team can claim that experience.

No. 2: Cost Effectiveness. Civil West will seek to remain financially competitive. We seek to keep our billing rates and proposed engineering fees as low and competitive as is reasonable. Our principals keep their rates low compared to most firms so that they will be available to work on projects without creating unreasonably large budgets.

More importantly, we look for ways to save our clients money by eliminating inefficient, redundant, or unnecessary steps. By staying on track and concentrating on what is most important, we are able to provide a scope of work and level of service far greater than that typically provided by other firms.

We will always be open to discussion about engineering and project costs and will keep that very high on our priority list with the District.

No. 3: Innovation. Civil West endeavors to stay on the cutting edge of water system planning, design, and construction engineering. Whether it is with new or unique processes, new regulations, using creative and innovative means to rehabilitate existing equipment, or innovative and cutting-edge treatment techniques, we will make the most appropriate and innovative recommendations for the District's infrastructure needs.

We are committed to aiding the District in any way we can as you consider new and cutting edge approaches to developing a safe and independent water supply.

No. 4: Local Firm/Accessibility. Our engineers work throughout the State of Oregon. From our office in Coos Bay, we can send team members to Row River within a relatively

short drive time. To ensure that the District has direct access to their engineers, it is important that Row River work with a local firm. While we know we can compete anywhere, we are confident that we are the best choice of local firms for Row River Valley Water District.

No. 5: Satisfied and Loyal Clients. We have worked tirelessly to develop a list of satisfied current and former clients. In many cases, we have established valuable friendships with our clients.

We encourage and hope the District does call our references and asks specific and detailed questions about our past and current performance.

We choose honesty, integrity, quality, and professionalism over the bottom line on every project. If a client is not fully satisfied with our work or the results of a project, we consider it to be a personal and professional failure.

We are confident that you will find our references to be positive and emphatic.

No. 6: Familiarity with the Row River Valley Water District.

Our engineering team has completed all of the project work to date on this project. As such, we are more familiar with the project than any other firm can be. We know the project goals, time lines, and budget. We also know what the District wants and we are confident that we can provide everything the District is seeking.

We are committed to the following:

1. Delivering the product that the District wants.
2. Being accessible and meeting our deadlines.
3. We are committed to get this project done on time, on budget, and that the District will be happy with all the results.
4. We are committed to continuing in a long-term service relationship, to providing general engineering services, and to being a resource for the District for many years to come.

It is important to us that the District considers Civil West as a close and important resource, a trustworthy consultant, and as a friend. We look forward to continuing to provide service on this project and on other projects in the future.



Appendix



References

In addition to the references provided earlier in this proposal, we are pleased to provide the following references. We encourage the District to contact our references to learn more about Civil West and our experienced project team.

- **City of Powers**
Mr. Paul Strader – Public Works Director
PO Box 250
Powers, OR 97466
(541) 439-3331
- **Oregon Water Resources Department**
Mr. Bill Fujii
725 Summer Street NE, Suite A
Salem, OR 97301
Fax: (503) 986-0887 (541) 986-0903
- **City of Myrtle Point**
Mr. Randy Whobrey – City Manager
424 5th Street
Myrtle Point, OR 97458
(541) 572-2626
- **Oregon Drinking Water Program
(Health Division Manager)**
Mr. Tom Charbonneau, PE
PO Box 14450
Portland, OR 97214
(503) 731-4317
- **Heceta Water District**
Mr. Scott Meyer
87845 Highway 101
Florence, OR 97439
(541) 997-2446
- **Beverly Beach Water District**
Mr. Larry Tapanen
PO Box 576
Newport, OR 97365
(541) 265-4244
- **Mapleton Water District**
Mr. Terry Saubert – Superintendent
PO Box 435
Mapleton, OR 97453
(541) 268-4348
- **Neskowin Regional Water District**
Mr. Guy Holzworth – Superintendent
PO Box 823
Neskowin, OR 97149
(503) 392-3966
- **City of Adair Village**
Mr. Drew Foster - Administrator
6030 William R Carr Avenue
Adair Village, OR 97330
(541) 745-5507
- **City of Coos Bay**
Mr. Carl Nolte, PE, City Engineer
500 Central Ave
Coos Bay, OR 97420
(541) 269-1181 x207
- **Nesika Beach-Ophir Water District**
Mr. Amos Rhodes, Manager
PO Box 39
Ophir, OR 97464
(541) 247-2614
- **City of Lowell**
Mr. Chuck Spies, City Manager
PO Box 490
Lowell, OR 97452
(541) 937-2157





Civil West Project Team Resumes

- J. Garrett Pallo, PE** _____ **Project Manager**
Robert Bynum, PE _____ **Project Engineer**
Darin G. Nicholson, PE _____ **Project Engineer**
Mark Hampton, PE _____ **Project Engineer**
Jeff Murphy, PE _____ **Project Engineer**
Terry Nelson, PE _____ **Electrical Engineer, Electrician**

Civil West

Engineering Services, Inc.





J. GARRETT PALLO, PE, VICE PRESIDENT

EDUCATION:

Bachelor of Science, Civil Engineering
Oregon State University

REGISTRATIONS:

Civil Engineer – Oregon (56560PE)
Civil Engineer – Idaho (12654)

EXPERIENCE SUMMARY:

Mr. Pallo is a professional engineer with more than 13 years of experience in a wide range of civil engineering projects. He has extensive experience in water system engineering including source and intake design, treatment, distribution and storage system design. He has authored a number of Water Master Plans and Conservation Plans for communities in Oregon. He was the primary contact for the Oregon Department of Human Services Drinking Water Program Circuit Rider, providing free services to small water systems throughout the state.

Mr. Pallo currently serves as the Engineer of Record for many agencies throughout the state, including the City of Coos Bay.

Mr. Pallo has been the project manager and designer on many wastewater improvement projects that included collection, trenchless rehabilitation, pump stations, and treatment. He has also authored or co-authored numerous wastewater plans and I/I studies for the purposes of planning wastewater facilities and reducing and eliminating inflow and infiltration into sewer systems.

Mr. Pallo has worked with many communities to obtain funding assistance in the form of grants and loans through many agencies, including USDA Rural Development, Oregon Economic and Community Development Department, the Safe Drinking Water Revolving Loan Fund, DEQ, and the Oregon Department of Energy.

AFFILIATIONS:

Professional Engineers of Oregon, Director
American Society of Civil Engineers

PROJECT EXPERIENCE

WATER ENGINEERING

- ✦ *Water Studies/Master Plans*
- ✦ *Design for Intakes, Pump Stations, Reservoirs, and 1000's of feet of Water Distribution Piping*
- ✦ *Design for Water Treatment Plant Upgrades or New Construction*
- ✦ *State of Oregon Circuit Rider Technical Assistance*

WATER MASTER PLANNING:

City of Myrtle Point	City of Newport
City of Lowell	City of Rockaway Beach
Seal Rock Water District	Row River Valley Water District
City of Waldport	City of Toledo
City of Rogue River	City of Yachats
Harbor Water District	City of Coquille

WATER SYSTEM IMPROVEMENTS

City of Myrtle Point	City of Powers
City of Rogue River	City of Siletz
City of Rockaway Beach	City of Adair Village
City of Drain	Pacific High School
City of Waldport	

WATER TREATMENT DESIGN

City of Myrtle Point	City of Rogue River
Row River Valley Water District	City of Lowell
City of Coquille	
Circuit Rider for Department of Human Services	

WASTEWATER ENGINEERING

- ✦ *I/I Evaluations and Wastewater Studies*
- ✦ *Design of Treatment and Collection System Improvements*
- ✦ *Specialist in Trenchless Rehabilitation Projects*

INFLOW AND INFILTRATION STUDIES

- City of Coos Bay
- City of Adair Village
- Green Sanitary District
- City of Drain
- City of Winston
- City of Myrtle Point
- Tri-City Water and Sanitary Authority

WASTEWATER PLANS AND STUDIES

- City of Coos Bay
- City of Myrtle Point
- City of Yachats

Civil West

Engineering Services, Inc.



PROJECT HIGHLIGHT

Mr. Pallo recently completed a wastewater facilities plan for the City of Myrtle Point, located in Coos County.

The City of Myrtle Point is currently under an MAO with the Department of Environmental Quality for violations related to repeated bypasses and sewer overflows during the winter months.

The existing plant in Myrtle Point is capable of treating around 1 MGD while winter flows can exceed 5 to 6 MGD. Average flows are around 200,000 gpd. With this wide range of flows, the City needed to incorporate a treatment process capable of treating water both during low summer conditions and the high flow winter condition.

Mr. Pallo undertook the facilities planning effort and pursued solutions for the City. He worked with the City though an aggressive and successful inflow and infiltration (I/I) reduction campaign where smoke testing and flow mapping were used to locate problem areas. Further, he developed projects to slip-line and/or replace problematic piping sections, fix problem laterals, and seal leaking manholes. Through these efforts, the sizing and cost of the projected treatment plant was effectively reduced.

Once alternatives were developed, Mr. Pallo, City operation staff and administrative staff visited several plants in and out of Oregon to give the City the opportunity to observe multiple potential treatment alternatives in operation. These tours allowed the Myrtle Point operators to talk to the other operators and ask specific operational questions.

The City is currently working towards replacing their facility.

PROJECT EXPERIENCE (continued)

WASTEWATER IMPROVEMENTS

- Spirit Mountain Casino: Wastewater Treatment Plant
- City of Myrtle Point: Trenchless Rehab
- City of Coquille: Trenchless Rehab
- Spirit Mountain Casino: UV Disinfection
- City of Lakeside: Airport Way Sewerline Extension
- City of Myrtle Point: Wastewater Outfall Extension
- Tri-City Sanitary: Cook Street Sewer Replacement
- Spirit Mountain Casino: Wastewater Reuse System
- City of Myrtle Point: I/I Rehabilitation

STORMWATER ENGINEERING

- ◆ Storm Drain Master Plans
- ◆ Storm Drainage Improvements
- ◆ Storm Drain Master Pump Stations

OTHER ENGINEERING PROJECTS

- ◆ City-Wide Aerial Mapping and Photogrammetry Projects
- ◆ Street and Paving Project Design and Construction

AERIAL MAPPING:

- City of Bandon
- City of Myrtle Point
- City of Adair Village
- Tri-City Water and Sanitary Authority
- City of Powers
- Seal Rock Water District
- Coquille Indian Tribe Tribal Lands

SYSTEM DEVELOPMENT CHARGES, STUDIES AND UPDATES:

- City of Coos Bay
- City of Toledo
- Seal Rock Water District
- City of Newport
- City of Powers
- City of Adair Village
- City of Myrtle Point

MISCELLANEOUS PROJECTS:

- City of Myrtle Point: Maple Street Pedway
- Coquille Valley Hospital Entrance Reconstruct
- Coos County: Bastendorff Beach Park Improvements
- City of Siletz: Palmer Avenue SCA Paving Project
- City of Bandon: 13th Street Improvements
- Spirit Mountain Casino: Gas Station Siting Study
- City of Bandon: Franklin Avenue Improvements
- City of Coquille: Hemlock Street Slide Repair
- Spirit Mountain Casino: Parking Lot Addition
- City of Coquille: South First Street Slide Repair
- Coos County: Powers County Park, Phase 3
- ODOT Inspection for Highway 42 Improvements
- Rockaway Beach: Telemetry Upgrades

**EDUCATION:**

Bachelor of Science, Civil Engineering
Oregon State University

REGISTRATIONS:

Civil Engineer – Oregon (17804PE)

EXPERIENCE SUMMARY:

Mr. Bynum is a professional engineer with over 18 years of experience in various civil engineering projects. Robert has designed and overseen construction on numerous water treatment plants in Oregon including conventional treatment designs as well as both submerged and pressure membrane treatment plants. He has conducted many plant evaluations with recommendations for process and operational improvements as a Circuit Rider for the Oregon Drinking Water Program for over 6 years. Other water system experience includes numerous raw water intakes, booster pump stations, storage tanks and reservoirs, wells, and miles of water system piping; including bridge crossing designs and horizontal directional drilling. Robert also has experience in wastewater treatment plant design, lift stations, sewer rehabilitation, and collection systems. Mr. Bynum has completed many Water Master Plans, Wastewater Collection System and Facilities Plans, I/I investigations and reports, preliminary engineering reports, and environmental reports. Robert also has extensive experience with the various funding agencies including RUS and OECDD and has prepared many funding application packages. Robert holds A+ Computer Water System Modelling Certification from Haestad Methods and is a member of the American Waterworks Association.

AFFILIATIONS:

American Waterworks Association

AWARDS:

2000 Oregon Plant of the Year: City of Riddle
A+ Water System Modeler, Haestad Methods

PROJECT EXPERIENCE**WATER ENGINEERING**

- ◊ *Water Studies/Master Plans*
- ◊ *Intakes, Pump Stations, Wells, Reservoirs, and over 35 miles of Water Distribution Piping*
- ✦ *Water Treatment Facilities*
- ✦ *State of Oregon Circuit Rider Technical Assistance*
- ◊ *Expert Hydraulic Modeling*

WATER MASTER PLANNING:

City of Newport	Neskowin Water District
City of Adair Village	Tri City Water Authority
Blue River Water District	Josephine County
City of Drain	City of Bandon
Nesika Beach Water District	Terrebonne Water District
Lakeside Water District	

WATER SYSTEM IMPROVEMENTS

Tri City Water Authority	City of Brookings
Blue River Water District	City of Hubbard
City of Riddle	City of Depoe Bay
City of Drain	City of Brookings
City of Yachats	Weiss Estates
City of Powers	Bridge Water District
City of Jacksonville	City of Baker City

WATER TREATMENT DESIGN

Mapleton Water District	City of Amity
City of Hubbard	City of Riddle
City of Yachats	City of Depoe Bay
Lakeside Water District	City of Port Orford
Neskowin Water District	Cascade Head Ranch
City of Baker City	City of Brookings

WASTEWATER ENGINEERING

- ◊ *Outfalls, Lift Stations, and over 50,000 feet of Sewer Mains*
- ✦ *Wastewater Treatment Plants*
- ✦ *Inflow and Infiltration Investigations and Rehabilitation*
- ✦ *Facilities Plans and Pre-Design Reports*
- ◊ *Mixing Zone Studies*

INFLOW AND INFILTRATION STUDIES

City of Riddle	City of Depoe Bay
City of Oakland	City of Jacksonville
City of Myrtle Point	City of Brookings
City of Coos Bay	

WASTEWATER PLANS

City of Yachats	City of Jacksonville
City of Myrtle Point	City of Adair Village
Tri City Sanitary Authority	City of Aurora
City of Waldport	City of Oakland
City of Coos Bay	City of Depoe Bay
City of Riddle	

WASTEWATER IMPROVEMENTS

City of Coos Bay: 5th St. 36" Storm Outfall
Tri City Sanitary District: 2500 gpm Lift Station
United Valley Christian Academy Pressure Sewers
City of Lakeside Sewer Rehabilitations



PROJECT EXPERIENCE (continued)

WASTEWATER IMPROVEMENTS (cont.)

- City of Coos Bay: Dakota Ave. 42" Storm Outfall
- City of Coos Bay: Washington Ave. 30" Storm Outfall
- Brookings Sewer Rehabilitation Projects, Sliplining
- City of Huntington Wastewater Treatment Plant
- City of Willamina Wastewater Treatment Plant
- City of Aurora Wastewater Collection System and Outfall
- Oregon DHS: Camp Florence Septic System
- Coos Bay Sewer Rehabilitation, Pipe Bursting
- Tri City Highway 99 Sewer Improvements
- City of Joseph Wastewater Treatment Plant Expansion

PROJECT HIGHLIGHT

Robert's expertise in mechanical layout and process control results in efficient systems design and has led to energy savings in projects even when capacity increases have been realized. On the recent membrane treatment plant in Neskowin where capacity was doubled, Robert achieved energy reduction through the use of premium efficiency motors, variable frequency drives, and flexible operator control options.

Robert's experience in the use of aerial mapping, GIS data integration, AutoCAD, and hydraulic modeling allows for optimized solutions in distribution and collection networks. Recent work includes mapping and modeling for the City of Newport which allowed Robert to also prepare the written recommendations for the Master Plan.

Robert's familiarity with the various funding agencies and program requirements can benefit any project. Recent projects have included Block Grant funding, USDA Rural Utilities Service Grant/Loan packages, and Safe Drinking Water Revolving Loan Funds. Robert has successfully completed application packages for all these programs as well as managing the resulting projects. He has prepared the required documentation and environmental reports when required and has helped communities avoid unnecessary expenditures when categorical exclusions are possible.

OTHER ENGINEERING PROJECTS

- ◆ *Street and Sidewalk Design*
- ◆ *Slope Stabilization and Slide Repair Design*
- ◆ *Funding Agency Assistance*
- ◆ *SDC Methodologies*
- ◆ *Rate Studies*
- ◆ *Aerial Mapping Projects*
- ◆ *Development Standards and Plan Review*
- ◆ *City Engineer / Engineer of Record*
- ◆ *SCADA and Telemetry Systems*

FUNDING PROGRAM/AGENCY EXPERIENCE

SRLF	OCDBG
RD/RUS	WATER/WASTEWATER
OECD	



DARIN G. NICHOLSON, PE, PROJECT ENGINEER

EDUCATION:

Bachelor of Science, Civil Engineering
University of California, Davis

REGISTRATIONS:

Civil Engineer - Oregon (71169PE)
Civil Engineer - California (60457)

EXPERIENCE SUMMARY:

Mr. Nicholson is a professional engineer with more than 7 years experience in municipal water and wastewater system planning, design, and inspection and an additional 4 years experience in geotechnical engineering and materials testing. Darin has conducted I/I investigations including flow measurements and project prioritization, designed gravity sewers and lift stations, and designed water system piping. Recently he designed and specified sewer improvements in Myrtle Point, which included over 8,500 feet of inversion lining rehabilitation, manhole rehabilitation, and various pipe and manhole replacements. He also functioned as the primary project inspector for water system improvements in Myrtle Point consisting of 11,650 feet of waterline replacement and several thousand feet of service lateral replacement. Darin also conducted on-site inspection for several thousand feet of inversion lining and miscellaneous pipe and manhole replacements in Coquille. Darin has also worked on several water Master Plans including detailed computer modeling and the development of prioritized waterline replacement plans.

PROJECT EXPERIENCE

WATER ENGINEERING

- ✦ *Experienced in Water System Modeling*
- ✦ *Design Experience with Intakes, Reservoirs, and Waterlines*
- ✦ *Design and Inspection for Gravity Sewers*
- ✦ *Expertise in Geotechnical Engineering*

WATER SYSTEM MODELING

City of Yoncalla
City of Yachats
Merlin/North Valley
Seal Rock Water District

WATER SYSTEM IMPROVEMENTS

Tri-City Water and Sanitary Authority
City of Myrtle Point
City of Bandon
Various Private Subdivisions
City of Drain
City of Powers: Raw Water Intake
Blue River Water District: Municipal Supply Well

WASTEWATER ENGINEERING

- ✦ *Inflow/Infiltration Investigations and Rehabilitations*
- ✦ *Lift Station Design*
- ✦ *Wastewater Facilities Plans*

INFLOW AND INFILTRATION STUDIES

Green Sanitary District
City of Yachats
City of Winston
City of Powers
City of Myrtle Point

WASTEWATER IMPROVEMENTS

Tri-City Sanitary District: Hwy 99 Sewer System Improvements
City of Myrtle Point: Wastewater Collection System Improv.
City of Coquille: Wastewater Collection System Improvements
Harbor Sanitary District: Wastewater Pump Station Evaluations
Merlin/North Valley: Wastewater System Hydraulic Calculations
City of Lafayette: Wastewater Treatment Plant Control Building
City of Coos Bay: Pump Station 18 On-Site Power Generation
City of Albany: Oak Creek Lift Station & Force Main



The engineers at Civil West are conscientious of municipal budget constraints and are willing to work with project managers to come up with scopes of work, funding options, and engineering fees that allow projects to be completed within available budget amounts.

Recently Darin Nicholson completed design and construction management on a roadway rehabilitation project for the City of Powers which was funded almost entirely by a grant from the Oregon Department of Transportation Small City Allotment fund. Due to the limited budget, the project scope and engineering fees were adjusted to allow full expenditure of the grant with only a small supplemental contribution from City funds.

A previous roadway improvement project for the City of Coos Bay was completed with funds obtained through a Local Improvement District. Darin Nicholson developed a preliminary cost estimate for the planned improvements which subsequently allowed the City to establish a project budget and secure approval from affected property owners. The project was ultimately completed within the planned budget.

PROJECT EXPERIENCE (continued)

GEOTECHNICAL

Numerous Geotechnical Investigations for Commercial, Industrial, and Residential Construction Projects

City of Coos Bay: Ocean Boulevard Slide Repairs
City of Myrtle Point: Hazards Overlay Mapping

Geotechnical/Soil Investigations:

Best Western, Santa Cruz, CA
Gold Ridge Subdivision, Fairfield, CA
Office Depot, Redding, CA
Grass Valley Chevron Station, CA
Mountain People's Warehouse, Auburn, CA
Shilling Robotic Systems, Davis, CA
Discovery Bay Slope Remediation, CA

STORMWATER ENGINEERING

Run-off Calculations for Commercial Sites and Subdivisions
City of Coos Bay: Stormwater Master Plan
City of Coos Bay: Blossom Gulch Stormwater Analysis
City of Lowell: Stormwater Master Plan

MISCELLANEOUS PROJECTS

Water, Sewer, and Street Designs for Subdivisions
- St. Helens
- Bandon
- Coos Bay
- North Bend

**JEFFREY M. MURPHY, PE, PROJECT ENGINEER****EDUCATION:**

Bachelor of Science, Mechanical Engineering
California State University, Fresno

REGISTRATIONS:

Mechanical Engineer – Oregon (79200PE)

EXPERIENCE SUMMARY:

Mr. Murphy is a professional engineer with ten years of experience in a wide range of mechanical, environmental and civil engineering projects. Mr. Murphy has also been an active member of several professional societies, including the American Society of Mechanical Engineers (ASME).

Mr. Murphy has been involved in research and development for several specialty residential and commercial pump projects with Grundfos Pumps, as well as the lead mechanical design engineer for semi-automatic and fully-automatic cartoner, case-packer and collator systems; tray and bliss box formers and sealers, custom application formers, and multi-axis robotic systems with two well-known packaging equipment companies. Mr. Murphy also spent time as an air pollution control engineer with one of the largest control districts in California. For the last several years, Mr. Murphy has worked in the civil engineering field, with a focus on municipal water and wastewater projects.

In 2008, Mr. Murphy joined the team at Civil West Engineering Services. Mr. Murphy has worked on several civil engineering projects including water system master plans, pH control systems for water treatment, water system feasibility studies, water treatment plant projects, water line replacement projects, water system hydraulic modeling, municipal water intake design, large wastewater lift station design, DEQ pre-design reports, wastewater facility plans, and several other projects.

AFFILIATIONS:

American Society of Mechanical Engineers

PROJECT EXPERIENCE**CIVIL ENGINEERING**

- ✦ *Water system hydraulic modeling experience*
- ✦ *Master planning experience*
- ✦ *Facility planning experience*
- ✦ *Design experience with water treatment plants, raw water intakes, wastewater lift stations, buildings, waterlines, and force mains*
- ✦ *Unique experience with complex mechanical design and fabrication*

WATER ENGINEERING

- Tri-City Water & Sanitary Authority:
 - Water System Impact Study, pH Reduction System Design, and Raw Water Intake.
- City of Adair Village:
 - Water Master Plan Update
- City of Powers:
 - Water Distribution System Feasibility Study and Pre-Design Report. Water System Improvements Design.
- City of Lowell:
 - Water Master Plan Involvement
- City of Lowell:
 - Water Treatment Plant Improvement Design
- Heceta Water District:
 - Water Treatment Plant Improvement Design
- Mapleton Regional Water District:
 - Membrane Treatment Facility Design Involvement
- Neskowin Regional Water District:
 - Water Storage Tank Improvement Design
- Cascade Head Ranch:
 - Water System Pre-Design Report
- Oregon Department of Human Services:
 - Circuit Rider Technical Assistance

WASTEWATER ENGINEERING

- City of Myrtle Point:
 - Wastewater Facilities Plan and Existing Plant Operational Improvements.
- City of Coos Bay:
 - Wastewater Collection System I/I Study
- City of Albany:
 - 34th Avenue Lift Station DEQ Pre-Design Report and Final Design, and Oak Creek Lift Station Design.
- Tri-City Water & Sanitary Authority:
 - Wastewater System and Lift Station Impact Study

MECHANICAL ENGINEERING

- ✦ *Conceptual Prototype Development, Project Design and Specification, Systems Integration, and Project Management.*
- ✦ *Multi-Axis Robotics Design and Custom Packaging Design.*
- ✦ *Emissions Control Systems Design*
- ✦ *Experienced with the latest in solid modeling technology*

**PROJECT EXPERIENCE (continued)****Project Highlight**

A recently completed project is the 34th Avenue wastewater lift station in Albany, Oregon. This project started out with a pre-design report to identify two primary configuration options and a proposed operational strategy. Based on our recommendations, the City decided to construct a 4,200 gpm cast-in-place, tri-plex lift station. Our team was selected for design of the lift station as well. The final design, completed in April of 2008, included new influent piping, a 35 foot deep concrete wetwell, new forcemain, a pipe pig station, standby generator and a control building. The wetwell is a concrete structure designed to withstand earthquake forces using methods in accordance with the Oregon Specialty Structural Code and applicable ACI guidelines. The pumps are 60 horsepower Flygt submersibles with variable frequency drives.

One unique feature of this lift station is that it is designed to facilitate replacement of the existing 60 HP pumps with higher capacity 110 HP pumps to meet projected build-out flows.

Construction of this project is slated for completion in the winter of 2008.

Mentholatum International Co. Asia/Pacific Division
 Roxane Laboratories Inc.
 Pfizer Inc.
 Con Agra Foods, Inc.
 Heinz/Del Monte Company
 Frito-Lay Inc.
 Weyerhaeuser Co.
 Willamette Industries
 Coca-Cola™ Fountain
 Owens-Brockway Plastics, Inc.
 M&M™ Mars™ Corp.
 3M™ Worldwide, Corp.
 Allied Signal, Inc.
 Georgia-Pacific Co.
 Gerber Foods, Gerber Products Co.
 Colgate-Palmolive Co.
 Welch's Grape Juice, Inc.
 Proctor & Gamble, Inc.
 Nestle™ Foods, Corp.
 Duraflame™, Inc.
 Honeywell Automotive Group
And Many Others....

AIR POLLUTION CONTROL SYSTEM DESIGN

- ♦ Complete air pollution control system consultation and review for 500 bed, 220 acre Fresno Juvenile Justice Campus.
- ♦ Methyl-Bromide fumigation emission control technology design and project review.
- ♦ Commercial charbroiler catalytic converter design, specification and project review.
- ♦ Automotive paint spray booth emission control technology design and project review.
- ♦ Diesel-fired and natural gas-fired stationary I.C. engine emission control technology design and project review.
- ♦ Natural gas-fired boiler emission control technology design and project review.
- ♦ Soil remediation emission control technology design and project review.
- ♦ Gasoline and diesel dispensing equipment emission control technology design and project review.



MARK E. HAMPTON, PE, PROJECT ENGINEER

EDUCATION:

Bachelor of Science, Civil Engineering,
Oregon Institute of Technology

REGISTRATIONS:

Civil Engineer - Oregon (63164PE)

EXPERIENCE SUMMARY:

Mr. Hampton is a professional engineer with 8 years of experience in planning, design, project management and construction administration, covering a wide range of civil engineering projects. Mr. Hampton's project experience has been in water and wastewater master planning and engineering design for small to medium communities.

AFFILIATIONS:

Professional Engineers of Oregon,
Director

PROJECT HIGHLIGHT

City of Powers - Water Distribution System Improvements

The work performed by Mark under this Contract included the Design and Bid Phase Administration along with Project Management and Oversight for the installation and placement of approximately 15,000 lineal feet of water distribution piping of various sizes ranging from 4-inch to 10-inch PVC piping and associated appurtenances for the City of Powers, to replace many of the old and falling waterlines throughout the City.

PROJECT EXPERIENCE

CIVIL ENGINEERING

- ✦ *Water Studies and Master Plans*
- ✦ *Design Pump Stations, Reservoirs, and 1000's of feet of Water Distribution Piping*
- ✦ *Design for Water Treatment Plant Upgrades*

WATER ENGINEERING

- City of Powers: Water Distribution System Improvements
- Neskowin Regional Water District: Water System Improvements
 - Hawk Creek Waterline Crossing
 - Hwy 101 Waterline Crossing
- Row River Valley Water District: Feasibility Study
- Seal Rock Water District: For Far Water Main Improvements
 - Lost Creek 1.5 MG Water Storage Tank
 - Lost Creek Water Main Improvements
- City of Coquille: Water System Improvements, 6th & Elliot
- City of Drain: Cedar Street Waterline Improvements
 - Water System Improvements, Phase 2
 - Treatment Plant Upgrades and Improvements
 - Rehabilitation of 750,000-Gallon Water Storage Tank
- City of Myrtle Point: Water System Improvements, Phase 1

WASTEWATER ENGINEERING

- Harbor Sanitary District: Various project oversight and general Engineering
- City of Coos Bay: 5th and Commercial Sanitary Sewer Replacement
- City of Lakeside: Wastewater System Improvements Preliminary Engineering Report
- Charleston Sanitary District: Pump Station Number 2 Redesign
- City of Bandon: 4th and Ocean Drive Sewer Improvements
- Bandon Dunes Wastewater: Design of Chlorine Contact Chamber
- Green Sanitary District: I/I Study
- City of Drain: I/I Study
- City of Sutherlin: I/I Study

MISCELLANEOUS PROJECTS:

- City of Coos Bay: Minnesota Avenue Street Improvements
- City of North Bend : Harbor Avenue Improvements Phase 1
- Curry County Road Department: Tuttle Creek Storm Drain Improvements
- Seal Rock Water District: South Bay Slide
- City of Waldport: Raw Water System Improvements, Survey and Design
- City of Drain: Survey and Aerial Mapping
- Bi-Mart: Coos Bay Bi-Mart Parking Lot, Survey
- City of Bandon: Survey and Aerial Mapping
- City of Coquille: Street Improvements

Terry Nelson P.O. Box 1 • Camas Valley OR 97416 (541) 445-2824

PROFESSIONAL EXPERIENCE

Camtronics Incorporated
P.O. Box 1
Camas Valley, OR 97416
(541) 445-2824

I am General Manager of Camtronics. My duties include engineering design and oversight of all projects this company is involved in.

EDUCATION

I graduated in 1977 from Oregon State University with a Bachelor of Science in Engineering Physics. I have continued my formal education through courses offered by Oregon State University, the University of Washington and the University of Alaska.

LICENSES

Registered Professional Engineer in Oregon and Alaska
Licensed Electrician in Oregon and Alaska

ORGANIZATIONS

Professional Engineers of Oregon
International Society of Electrical and Electronics Engineers, IEEE
Sigma Pi Sigma, Physics honor fraternity, inducted 1977
Tau Beta Pi, Engineering honor fraternity, inducted 1977

EXPERIENCE

For twenty-nine years I have designed electrical systems and controls for water and waste water plants, pump stations, well fields and telemetry sites. My designs frequently incorporate PLCs, remote sensing, and telemetry. I am also frequently called to troubleshoot or improve existing systems at plants that I did not design.

My recent work includes: plant designs (electrical and controls) for Garibaldi WWTP, Yamhill WTP, Manzanita WTP, Lafayette WTP, plant upgrade electrical and controls for the Tri City water plant, Roseburg WWTP and various instrumentation upgrades, PLC upgrades, Wonderware projects, etc. I am an experienced PLC programmer and Lookout and Wonderware designer. My largest project has been the complete electrical

and programming for the Roseburg WWTP (15MGD, 5 PLCs, central control room w/ integrated Wonderware SCADA. Engineer of record: Ch2M-Hill).

COMMUNITY INVOLVEMENT

I serve the people in my local community in various ways:

School Board member for many years

Chairman of the Board, Douglas Electric Cooperative (an electric utility)

Elder, Camas Valley Christian Fellowship

Various other short term boards and committees

REFERENCES

Kevin Brutton, Operations Management Inc., Roseburg WWTP, (541) 673-6570

Bob Lawrence PE, HGE Engineering, (503) 222-1687

Clay Baumgartner PE, City of Roseburg, (541) 672-7701

Sean Negherbon, Myrtle Creek Water, (541) 863-3782

Dennis Knebel, TriCity Water, (541) 863-6856

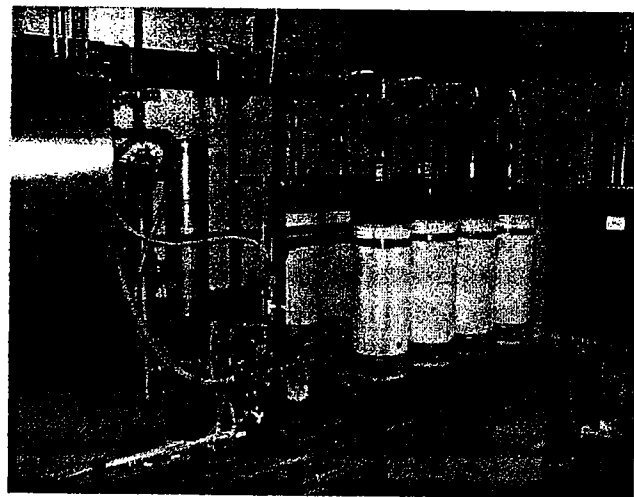
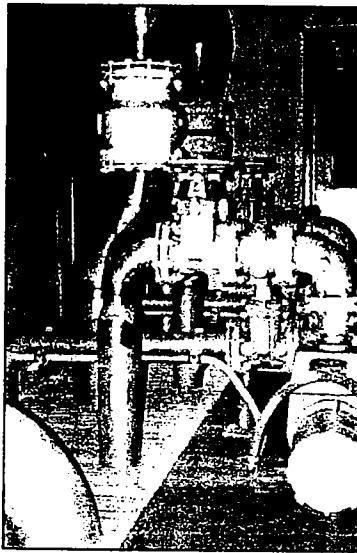
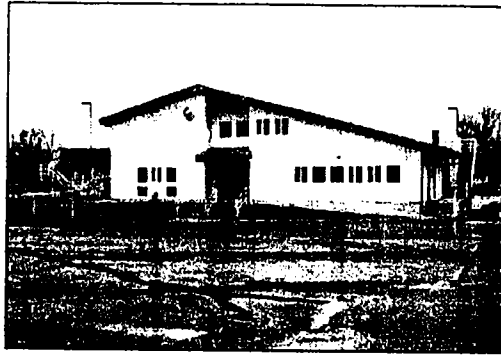
Wayne Shultz, Garibaldi WWTP, (503) 322-0217

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Civil West
Engineering Services, Inc.





ADMINISTRATIVE PROCEDURES MANUAL

Chapter 1
Section 2A
Issue 1 2/11/02

SUBJECT: AGENDA PROCESS FOR APPROVAL OF A GRANT APPLICATION OR ACCEPTANCE

I. Procedure

The purpose of this procedure is to establish a standard method to provide pertinent agenda information regarding grant application and acceptance to the Board of County Commissioners, and to request approval of grant submittal and grant acceptance.

II. Scope

This procedure is applicable to all County departments.

III. Amendment

The County Administrator may amend this procedure as required.

IV. Procedure

A. When to request approval and acceptance of grants in one agenda packet.

Staff from departments desiring to apply for grants may submit the proposal and also request approval to accept the grant with one action of the Commissioners unless the following circumstances apply:

1. if the initial proposal was still in development at the time of the board order, and did not include specific workplan/budget or complete answers to all of the agenda packet questions; or
2. if the final award requires an increase in the funds required of the county; or
3. if the final grant award amount is less than what was proposed in the board action, or
4. if the final award contains different conditions than originally approved by the Board which the County Administrator determines should be approved by the Board.