OREGON WATER RESOURCE DEPARTMENT
WATER CONSERVATON, REUSE AND STORAGE
FEASIBILTY STUDY GRANT PROGRAM

I. Grant Information

Study Name: *City of Pendleton Water Treatment Facility Reuse Project*

Type of Feasibility Study: ☐ Water Conservation ☒ Reuse ☐ Above-Ground Storage
☐ Storage Other Than Above-Ground [Including Aquifer Storage and Recovery (ASR)]

Program Funding Dollars Requested: $ $30,000
Note: Request may not exceed $500,000

Total Cost of Feasibility Study: $ 60,000

II. Applicant Information

Applicant Name: ***Umatilla County Soil & Water Conservation District***		**Co-Applicant Name:** ***City of Pendleton***	
Address:	*1 SW Nye Ave Suite 130*	Address:	*500 SW Dorion Avenue*
	Pendleton, OR 97801		*Pendleton, Oregon 97801*
Phone:	*541-276-8131*	Phone:	*541-966-0241*
Fax:		Fax:	*541-966-0251*
Email:	*umcoswcd@eotnet.net*	Email:	*Bob.Patterson@ci.pendleton.or.us*

Principle Contact: ***Tom Demianew***	
Address:	*1 SW Nye Ave Suite 130*
	Pendleton, Oregon
Phone:	*541-276-8131*
Fax:	
Email:	*umcoswcd@eotnet.net*

Certification:

I certify that this application is a true and accurate representation of the proposed work for a project feasibility study and that I am authorized to sign as the Applicant or Co-Applicant. By the following signature, the Applicant certifies that they are aware of the requirements of an Oregon Water Resources Department grant, have read and agree to all conditions within the sample grant agreement and are prepared to conduct the feasibility study if awarded.

Applicant Signature: Tom Demianew Date: *1/29/2016*

Print Name: *Tom Demianew* Title: *District Manager*

III. Feasibility Study Summary

Please give a brief summary of the feasibility study using no more than 150 words.

The City of Pendleton Oregon is working with the Oregon Department of Environmental Quality on using its wastewater treament faciltiy reuse water and looking at a three phased approach to removing its water out of the Umatilla River and applying it on State of Oregon rights of way through town, gravity feeding irrigated farms below the faciltiy, and ultimately using some of this water for service near there Airport Industrial Area. The City of Pendleton, the Umatilla County Conservation District, and the Northeast Oregon Water Association are looking into this partnership to determine the best uses for this reuse water. To determine the cost for each phase of this project and how to fund these projects in the near future. This study would help better understand the complex system the Wastwater Treament Facility is currently under with its permit with DEQ and how explain to the people of City of Pendleton what portions of this study are the best and most affordable to meet the requirments to protect the Umatila River an

anadroumous fish stream in Northeastern Oregon. We have looked into delivering water through a gravity flow system to irrigators below the treatment facility. The City of Pendleton is interested along with the Oregon Department of Transportation to create a beutification corridor along Interstate 84 through the City of Pendleton. This portion of the project would allow for the city to install a delivery system to a irrigation system administered by Oregon Department of Transportation to green up the areas along the corridor through the Heart of Pendleton. This would allow for this reuse water to green up an area typically brown and very dry during the summer and fall times of the year. It would also allow for a beneficial use to the environement by allowing the treated water to enter the Umatilla River system through infiltration through the soils around the freeway. This assessment is also interested in looking at the costs to set up a delievery sytem to the City of Pendleton Industrial Park located near the airport. This area currentl lacks water for services such as fire safety.

IV. Grant Specifics

Section A. Common Criteria

Instructions: Please answer all questions contained in this section. It is anticipated that completed applications will result in additional pages.

1. Describe your goal and how this study helps to achieve the goal.

   The goal of this project is to remove the current wastewate being released into the Umatilla River to be reused for crop production, beutification projects in and around the City of Pendleton, and potential safe uses. This study will look at all the costs and legal requirments to move this project to completion. The City of Pendleton has been in discussion with the Oregon Department of Environmental Quality and what they are going to need to do when their current wastewater permit expires. The City of Pendleton has also been in discussion with the local Oregon Department of Transportation office and using portions of the water for a beautification project in and along the I-84 corridor. This study will also look at providing water to irrigators below the treatment facility with a gravity flow system. This would allow the irrigators that currently pump water out of the Umatilla River system to take treated water and apply to their fields and leave the water the would usually use to stay in the river.

2. Describe the water supply need(s) that the proposed project addresses. Identify any critical local, regional, or statewide water supply needs that implementation of the project associated with the feasibility study will address. **Responses should rely upon solid water availability and needs data/analysis.** For examples of water supply needs see "Criteria and Evaluation Guidance Document."

   This water supply is currently being discharged into the Umatilla River which is a Anadromous fish stream. The water termperatures that are coming out of this treament facility are above the limit set by DEQ.

3. Explain how the proposed project will meet the water supply need(s), and indicate what percentage of that need will be met. (For example: If your water supply need is 20,000 acre-feet of additional water and the project will supply 10,000 additional acre-feet, 50 percent of your need will be met).

   THis proposed project will meet the water supply needs by not putting the water directly into the Umatilla River but through different types of pipelines to facilitate irigation practices both in the City of Pendleton and area directly linked to the city boundaries. These areas already curently have water rights from other sources and will be looking at working with the local watermaster to determine the best uses of their current water rights.

4. Describe the technical aspects of the feasibility study and why your approach is appropriate for accomplishing the specific study goals and objectives.

   The technical aspects of this feasibility study will be to detremine how and at what cost it will be for the City of Pendleton to begin to move these reuse waters into these other projects. How much infrastructure might be to begin to install a irrigation system along the freeway corridor. How much time and dollars will it take to beginn to improve the current delivery system to get water to the Industrial sites around Pendelton.

5. Describe how the feasibility study will be performed. Include:
   a. General summary statement that describes the study progression.
   b. When the feasibility study will begin.
   c. Listing of key tasks to be accomplished with each task having:
      i. Title
      ii. Timeline for completion
      iii. Description of the activities to be performed in this key task

iv. Description of the resources necessary for accomplishing the key task

Example:

(i) Streamflow measurement;
(ii) September-April;
(iii) Weekly streamflow measurements will be performed to gather hydrographic data for the hydrologic analysis to take place in May;
(iv) A technician will be hired to perform the streamflow measurements.

(Key tasks listed here are to be placed in Section VI. Project Feasibility Study Schedule for a quick reference "graphical" representation of the schedule.)

6. Please provide the following data and information for the proposed project and the project's sources of water supply:

a. The location of the proposed project. Include the basin, county, township, range and section. Attach a **map** that identifies the project's implementation area to this application.

See Attached

b. The name(s) and river mile(s) of the source water and what they are tributary to, if applicable.

See Attached

c. Whether the project will be off-channel or on-channel (for above-ground storage only).

Off Channel

d. Water availability to meet project storage. For above-ground storage the Department typically evaluates availability using a 50 percent exceedance water availability analysis.

N/A

e. Proposed purposes and/or uses of conserved or stored water.

Get warm waters out the Umatilla Rivers

f. Environmental flow needs and water quality requirements of supply source water bodies.

7. What local, state or federal project permitting requirements/issues/approvals do you anticipate in order for the feasibility study to be conducted? If approvals are required, indicate whether you have obtained them. If you have not obtained the necessary permits/governmental approval, describe the steps you have taken to obtain them. If no permits are needed, please provide explanation.

DEQ Permiting and OWRD water right transfers

8. Describe the level of involvement, interest and/or commitment of local entities associated with the feasibility study. Describe how the feasibility study and/or proposed project will benefit/impact these entities. Attach letters of support if available.

All Partners will be invoilved equally

9. Identify when matching funds will be secured, from whom, and the dates of matching funds availability.

He feasiblity study will be with the City of Pendleton. Local participates will be with Northeast Oregon Water Association, Oregon Water Master office, Oregon Department of Transportation, Oregon Deparment of Environmental Quality, and local landowners. This feasibility will hopefully begin March of 2016. The City of Pendleton is willing and able to begin the public process of working through their new permit with DEQ. With this new Permit they will need to demonstrate the best alternatives on how to use this water. The Timeline would be for this study to be finished by February[1], 2017. The title of this project would be City of Pendleton Wastwater Reuse Program feasibility study. The first task would be to hire an engineer to review the proposed engineering plans and determine if the current proposal meet the requirements for the permit that the City of Pendleton needs for DEQ. THe next part of this proposal would be to facilitate public meetings on these alternatives. The final task would be to select the best alterantives and begin the scoping process to fund the infrastructure to needed to carry out the plans.

10. Provide a description of the relevant professional qualifications and/or experience of the person(s) that will play key roles in performing the feasibility study. If the personnel have not been decided upon, include a description of the professional qualifications and/or experience of the person(s) you anticipate will play key roles in performing the feasibility study.

The plan would be to hire a professional outside engineer to work with the CIty of Pendleton, Oregon Department of Transportation, Northeast Oregon Water Association, and Umatilla County Soil & Water COnservation District to make sure all engineering components are agreed upon.

11. If the project concept is ultimately deemed feasible, describe how the project will be implemented. Response should include a tentative funding plan for project implementation (e.g. other state or federally sponsored grant or loan programs) and the project proponent's track record in implementing similar projects.

If the porject is deemed feasible we will be looking at state and federal funding to help offset the costs within the city and along the freeway. The private landowners will work with the conservation district to look for funding through grants and loans to implement the irrigation projects.

Section B. Unique Criteria

Instructions: Address the set of items below that applies to the type of feasibility study that this grant will fund.

☐ Water Conservation or ☒ Reuse

1. Water Conservation or Reuse projects that are identified by the Department in a statewide water assessment and inventory receive a preference in the scoring process. Contact the Department's Grant Specialist to include your project on the inventory.

2. Explain how the associated project will either: (a) mitigate the need to develop new water supplies and/or (b) use water more efficiently. Reference documentation and/or examples of the success of similar or comparable water conservation/reuse projects that would be available upon request.

The project will be designed to look at the total growth boundary of the City of Pendleton and designed for their capacity.

c) Analyses of environmental harm or impacts from the proposed storage project.
This will be in the engineering analysis

d) Evaluation of the need for and feasibility of using stored water to augment instream flows to conserve, maintain and enhance aquatic life, fish life and any other ecological values.
This is being detemined through the engineering project designs and permitting

Is the proposed storage project for municipal use?

☒ Yes ☐ No

If "Yes," then please describe how you intend to address the following required element in your feasibility study:

e) For a proposed storage project that is for municipal use, analysis of local and regional water demand and the proposed storage project's relationship to existing and planned water supply projects.

Proceed in addressing the following items:

1. Describe to what extent the project associated with the feasibility study includes provisions for using stored water to augment instream flows to conserve, maintain and enhance aquatic life, fish life or other ecological values. Projects that include the above provisions receive preference in the scoring process.

2. Provide a review of: (a) Local, state and/or federal permitting requirements and issues posed by the **implementation** of the project associated with the feasibility study and (b) property ownership status within the project implementation area.

☐ Storage Other Than Above-Ground [Including Aquifer Storage and Recovery (ASR)]

Please answer the following three questions **BEFORE** proceeding:

Will the project divert more than 500 acre-feet of surface water annually?	☐ Yes	☐ No
Will the project impound surface water on a perennial stream?	☐ Yes	☐ No
Will the project divert water from a stream that supports sensitive, threatened or endangered species?	☐ Yes	☐ No

If you answered "Yes" to any of these questions, by signature on this application, you are committing to include the following required elements in your feasibility *study.*

Describe how you intend to address the required elements in your feasibility study:

a) Analyses of by-pass, optimum peak, flushing and other ecological flows of the affected stream and the impact of the storage project on those flows.

b) Comparative analyses of alternative means of supplying water, including but not limited to the costs and benefits of water conservation and efficiency alternatives and the extent to which long-term water supply needs may be met using those alternatives.

c) Analyses of environmental harm or impacts from the proposed storage project.

d) Evaluation of the need for and feasibility of using stored water to augment instream flows to conserve, maintain and enhance aquatic life, fish life and any other ecological values.

Is the proposed storage project for municipal use?

☐ Yes ☐ No

If "Yes," then please describe how you intend to address the following required element in your feasibility study:

e) For a proposed storage project that is for municipal use, analysis of local and regional water demand and the proposed storage project's relationship to existing and planned water supply projects.

Proceed in addressing the following items:

1. Underground storage projects that are identified by the Department in a statewide water assessment and inventory receive a preference in the scoring process. Contact the Department's Grant Specialist to include your project on the inventory.

2. Provide a review of: (a) Local, state and/or federal permitting requirements and issues posed by the **implementation** of the project associated with the feasibility study and (b) property ownership status within the project implementation area.

V. Match Funding Information

Applicants must demonstrate a minimum dollar-for-dollar match based on the total funding request. The match may include a) secured funding commitment from other sources, b) pending funding commitment from other sources, and/or c) the value of in-kind labor, equipment rental, and materials essential to the feasibility study. For secured funding, you must attach a letter of support from the match funding source that specifically mentions the dollar amount shown in the "Amount/Dollar Value" column. For pending resources, documentation showing a request for the matching funds must accompany the application.

In the "type" column below matching funds may include:	**In the "status" column below matching funds may have the following status:**
• **Cash** - Cash is direct expenditures made in support of the feasibility study by the applicant or partner*.	• **Secured** - Secured funding commitments from other sources.
• **In-Kind** - The value of in-kind labor, equipment rental and materials essential to the feasibility study provided by the applicant or partner.	• **Pending** - Pending commitments of funding from other sources. In such instances, Department funding will not be released prior to securing a commitment of the funds from other sources. Pending commitments of the funding must be secured within 12 months from the date of the award.

*"Partner" means a non-governmental or governmental person or entity that has committed funding, expertise, materials, labor, or other assistance to a proposed project planning study. OAR 690-600-0010.

Match Funding Source (if in-kind, briefly describe the nature of the contribution)	**Type** (✓ One)	**Status** (✓ One)	**Amount/ Dollar Value**	**Date Match Funds Available** *(Month/Year)*
City of Pendleton	☐ cash ☒ in-kind	☐ secured ☒ pending	*$2,500*	*July 16*
Northeast Oregon Water Association	☐ cash ☒ in-kind	☒ secured ☐ pending	*$15,000*	*July 16*
ODOT	☐ cash ☒ in-kind	☐ secured ☒ pending	*$2,500*	*July 16*
UMABIRCH LLC	☒ cash ☐ in-kind	☒ secured ☐ pending	*$10,000*	*July 16*
	☐ cash ☐ in-kind	☐ secured ☐ pending		
	☐ cash ☐ in-kind	☐ secured ☐ pending		
	☐ cash ☐ in-kind	☐ secured ☐ pending		
	☐ cash ☐ in-kind	☐ secured ☐ pending		
	☐ cash ☐ in-kind	☐ secured ☐ pending		
	☐ cash ☐ in-kind	☐ secured ☐ pending		

VI. Feasibility Study Schedule

Estimated Study Duration: March 1, 2016 to February 1, 2017

Place an "X" in the appropriate column to indicate when each Key Task of the project will take place.

Feasibility Study Key Tasks	2016			2017				2018 & Beyond
	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	
Establish Key Engineering Plans and Obstacle	X							
Review current designs and Plan first Public Meeting		X						
Review Public Meeting and Choose ALternative			X					
Final Public Meeting and Report on Feasibility of Proposed Plans				X				

- **Please Note**: Successful grantees must include all invoices and identify which key tasks are associated with each invoice when requesting financial reimbursement.

VII. Feasibility Study Budget

Section A

Please provide an estimated line item budget for the proposed feasibility study. Examples would include: labor, materials, equipment, contractual services and administrative costs.

Line Items	Number of Units* *(e.g. # of Hours)*	Unit Cost *(e.g. hourly rate)*	In-Kind Match	Cash Match Funds	OWRD Grant Funds	Total Cost
Staff Salary/Benefits	*862*	*$45.00*		*$10,000*	*$28,800*	*$28,800*
Contractual/Consulting	*100*	*$100.00*		*$10,000*		*$10,000*
Equipment (must be approved)						
Supplies					*$1,200*	*$1,200*
Other: Engineer Pendleton	*20*	*$125.00*	*$2,500*			
Engineer ODOT	*20*	*$125.00*	*$2,500*			
Engineer UMABIRCH	*20*	*$125.00*				
NOWA Water Right Examiner	*150*	*$100.00*	*$15,000*			
Administrative Costs**						
Total for Section A			*$20,000*	*$20,000*	*$30,000*	*$60,000*
Percentage for Section A			***25***	***25%***	***50***	***100%***

** Note: The "Unit" should be per "hour" or "day" – not per "project" or "contract." Units x Unit Costs = Total Cost*
*** Administrative Costs may not exceed 10 percent of the total funding requested from the Department*

Section B

If grant amount requested is $50,000 or greater, you MUST complete Section B. Key Tasks in Section B should be the same as the Key Tasks in Section VI (Feasibility Study Schedule).

Feasibility Study Key Tasks	In-Kind Match	Cash Match Funds	OWRD Grant Funds	Total Cost
Total for Section B				

Totals in Section B must match the totals in Section A

APPLICATION CHECKLIST

Instructions: Use this checklist to ensure that your application is complete. An incomplete application will jeopardize your application's review. **This form does not need to be included in your application packet.**

General

If submitting electronically, the preferred format is either a Microsoft word or Adobe pdf

- ☐ Only one application is included with the packet (other applications must be sent separately).

Paper submissions only

- ☐ The application and attachments are on 8 ½" x 11" paper.
- ☐ The application and attachments are single-sided.
- ☐ The application and attachments are not stapled or bound.

Section I – Grant Information

- ☐ All questions in this section have been answered.
- ☐ The Grant Dollars Requested and the Total Project Cost mirror the totals shown in Section VII.

Section II – Applicant Information

- ☐ All contact information for the applicant(s) and fiscal officer is complete and current.
- ☐ The certification is signed by an authorized signer.

Section III – Feasibility Study Summary

- ☐ A brief summary, of no more than 150 words, is complete.

Section IV – Grant Specifics

- ☐ All questions in Section A have been answered.
- ☐ If the type of feasibility study is water conservation, reuse or storage other than above-ground, you have contacted the Department and requested project be added to the Oregon Water Resources Department's statewide water assessment and inventory.
- ☐ All applicable questions for the type of grant requested have been answered.

Section V – Match Funding Information

- ☐ Applicant has identified that at least 50 percent match has been sought, secured or expended.
- ☐ Letters of support are included for "secured" match funding sources.
- ☐ Documentation is included for "expended" match funds.
- ☐ Documentation is included for "pending" match funds.

Section VI – Feasibility Study Schedule

- ☐ Estimated project duration dates have been supplied.
- ☐ All Key Tasks of the project are listed.

Section VII – Feasibility Study Budget

- ☐ Section A is complete.
- ☐ Administration costs do not exceed 10 percent of the requested OWRD Grant Funds.
- ☐ If grant amount requested is $50,000 or greater, Section B has been completed.
- ☐ All Key Tasks listed in Section B mirror the Key Tasks listed in Section VI.

NORTHEAST OREGON WATER ASSOCIATION

January 31, 2016

Umatilla County Soil and Water Conservation District
Attn: Tom Demianew
200 SE Hailey Ave, Suite 108
Pendleton, OR 97801

Re: City of Pendleton Re-Use Project (Match Commitment to review is-stream options)

Dear Tom:

I am writing on behalf Northeast Oregon Water Association (NOWA) to offer an in-kind match commitment to the City of Pendleton Re-Use feasibility study you are managing. NOWA membership includes over 140,000 acres of the highest valued food production land in Oregon as well as the counties, cities, ports, businesses and NGO's that generate over $2 billion a year in agri-business output in our region. As you know our initial work on our regional Columbia River pipelines will hopefully set the stage for innovative tributary enhancement projects, primarily related to in-stream flow restoration projects and water temperature improvement in Columbia River tributaries.

NOWA was formed following the signing of the Columbia River – Umatilla Solutions Task Force (CRUST) "Declaration of Cooperation." The purpose of our formation, amongst other things, was to see the recommendations of the CRUST through over the course of the next 10-20 years as a way to fix the water supply problems in our region, for economic and environmental gain, while also growing a value-added agricultural economy. Our first task has been the establishment of three (3) regional water supply pipelines, extending from the Columbia River down into our water starved Critical Groundwater Areas but CRUST also identified projects such as flow restoration in the Umatilla River and Birch Creek as low hanging fruit to quantifiable environmental benefits. We believe the Pendleton project could be one of those low-hanging fruit projects and are prepared to offer around 155 hours of support to you and the project team to look at creative ways to exchange the Pendleton Re-Use water for live-flow and McKay water currently being utilized on surrounding farms.

Based upon an average of $98.50 per hour in annual staff and overhead for NOWA, this in-kind match amounts to around $15, 268, rounded to $15,000 for a matching commitment. We look forward to working with you on this project and wish you luck on your grant application.

Best regards,

J.R. Cook

Founder and Director

CC: File

MAILING 3750 SW Marshall Place, Pendleton, OR 97801 OFFICE 2 Marine Drive Suite 100, Boardman, OR 97818
EMAIL jrcook@northeastoregonwater.org WEB northeastoregonwater.org PHONE 541 969 8026

COOKS' LAND AND WATER CONSULTING

VIA Electronic Mail

January 31, 2016

Oregon Water Resources Department
Attn: Jon Unger
725 Summer St. NE, Suite A
Salem, OR 97301

Subject: Pendleton Re-Use Project Feasibility Study (Oregon Conservation, Reuse and Storage Grant)

Dear Mr. Unger

Umabirch, LLC retained the services of Cook's Land and Water Consulting, LLC to identify opportunities to both optimize agricultural and recreational values at the Umabirch Ranch while also maximizing revenues off of the natural resource assets. During the year of 2015, Cook's land and Water and UmaBirch jointly identified a re-use project, using treated effluent from the City of Pendleton, as an exciting project that could both maximize on-farm revenue generation but also help the City of Pendleton maintain compliance with TMDL standards and their DEQ permit conditions regarding temperature. The value multiplier for this project is that it would enable Umabirch, LLC to lease all its Umatilla River, Birch Creek and private McKay Storage Conract water in-stream to help fisheries and potentially help downstream root crop producers that can generate more economic return for the water.

This year, Umabirch LLC is paying Cook's Land and Water Consulting, LLC a lump sum $10,000 payment to assist in taking this project to the next step under a formal feasibility study. UmaBirch, LLC is committing the $10,000 payment as match to the grant you will receive from the City of Pendleton and the Umatilla County Soil and Water Conservation District. Cook's Land and Water is already working with the City of Pendleton and the Umatilla County SWCD on the development of concepts and has committed using its contract with UmaBirch, LLC to hopefully finalize a study and be prepared for a doable project by the 2017 irrigation season. We strongly support full funding for this study and look forward to working with OWRD, the City of Pendleton, and the SWCD in the future.

Best regards,

Jim Whitney, Owner
Umabirch, LLC

J.R. Cook, Owner
Cook's Land and Water

3750 SW MARSHALL PLACE
PENDLETON, OREGON 97801
541.969.8026

Umatilla County Soil and Water Conservation District
1 SW Nye Ave. Suite 130
Pendleton, OR 97801
Phone: 541-278-8049 Ext. 134
Fax: 855-824-6184
Find us on: facebook. www.umatillacountyswcd.com

February 1st, 2016

Marylyn Holt
District 12 Manager
1327 SE 3rd St.
Pendleton, OR 97801

Dear Ms. Holt;

We are requesting an In-Kind match of $2500.00 to help work on a feasibility study on the City of Pendleton wastewater treatment effluent water. This feasibility study will be partially cost-shared through an Oregon Water Resources Grant (Oregon Conservation, Reuse, and Storage Grant). We are hoping that through reviewing engineering designs and potential application for permits that you could use some of your staffs time to help us get through this process. I understand that the City of Pendleton has approached the Oregon Department of Transportation to enter into an agreement to look at watering the median along Interstate 84 in Pendleton, Oregon. Any questions about this application please email or call me.

Sincerely,

Tom Demianew

Tom Demianew
District Manager
Umatilla County Soil and Water Conservation District

Umatilla County Soil and Water Conservation District
1 SW Nye Ave. Suite 130
Pendleton, OR 97801
Phone: 541-278-8049 Ext. 134
Fax: 855-824-6184
Find us on: facebook. www.umatillacountyswcd.com

February 1st, 2016

Bob Patterson, PE
Public Works Director
City of Pendleton
500 SW Dorion Avenue
Pendleton, OR 97801

Dear Mr. Patterson:

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Sincerely,

Tom Demianew

Tom Demianew
District Manager
Umatilla County Soil and Water Conservation District

NORTHEAST OREGON WATER ASSOCIATION

January 31, 2016

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Attn: Tom Demianew
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J.R. Cook

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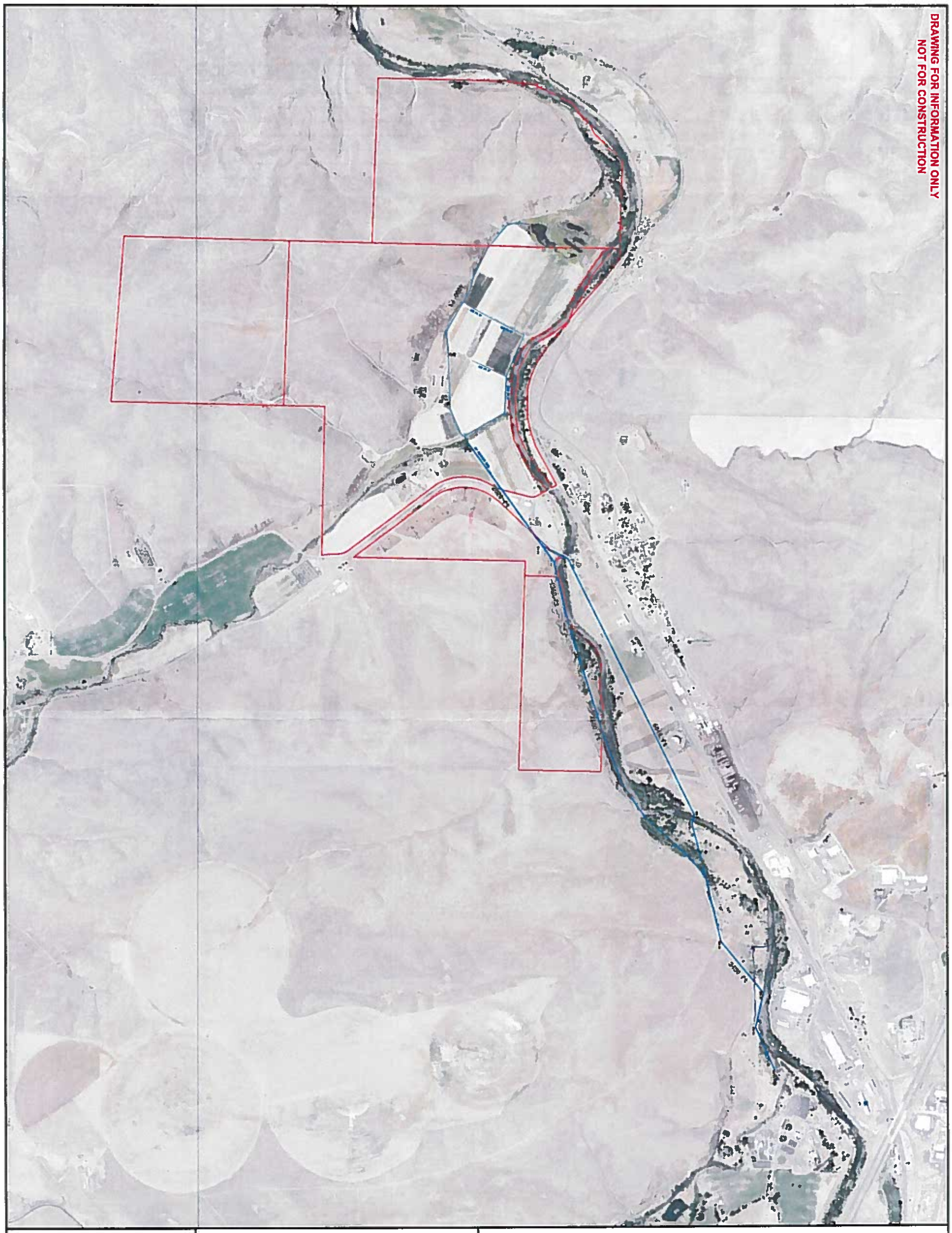
EMAIL jrcook@northeastoregonwater.org WEB northeastoregonwater.org PHONE 541 969 8026

DRAWING FOR INFORMATION ONLY
NOT FOR CONSTRUCTION



NO.	REVISION DESCRIPTION	DATE
4		
3		
2		
1	ORIGINAL DRAWING ORIGINAL DRAWING	5-02-2014

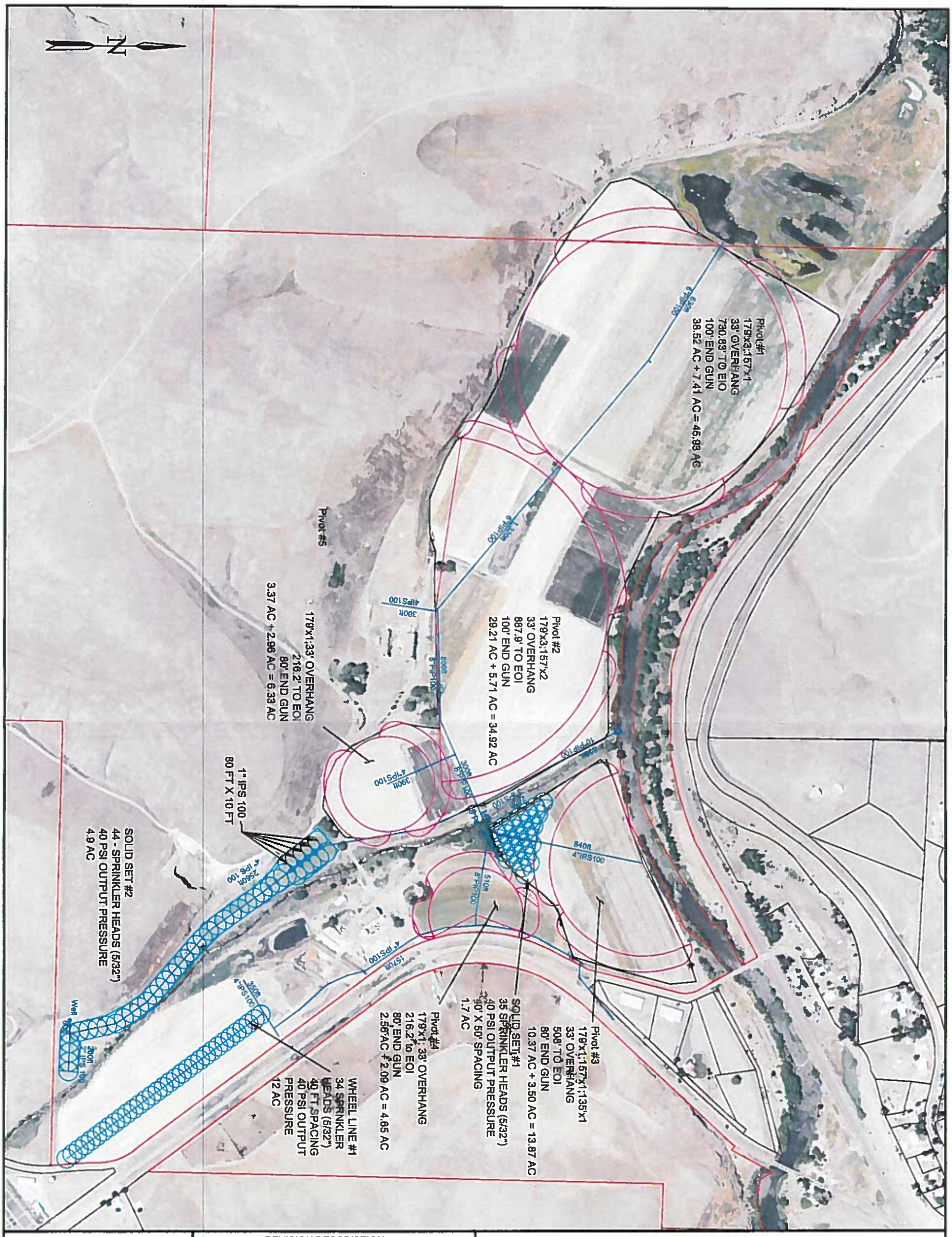
UMABIRCH, LLC

PENDLETON WATER TREATMENT PIPELINE PROJECT

PROPOSED PIPELINE ROUTES

IRZ Consulting, LLC
500 N 1ST, HERMISTON, OREGON 97838
OFFICE (541) 567-0252 FAX (541) 567-4239

DESIGNED	BURDETTE BARKER	
DRAWN	ROBERT MCMILLAN	
SCALE	1 : 1500	SHEET
DATE	5-02-2014	M01
DRAWING NO.	598-14-046	



NO.	REVISION DESCRIPTION	DATE
4		
3		
2		
1		

FILE PATH:
1Clients\UmaBirch LLC\TORCO Ranch\Maps_and_Drawings \ UmaBirch.dwg

UMABIRCH, LLC

PENDLETON WATER TREATMENT PIPELINE PROJECT

PIVOT OPTIMIAZATION

IRZ Consulting, LLC
500 N 1ST, HERMISTON, OREGON 97838
OFFICE (541) 567-0252 FAX (541) 567-4239

DESIGNED	PAUL WATTENBURGER	
DRAWN	SUVA SHAKYA	
SCALE	1" = 500'	SHEET
DATE	07-13-2015	M01
DRAWING NO.	598-14-046	