

PRESSURIZATION, CONSTRUCTION, OPERATION, AND MAINTENANCE POLICY

FARMERS IRRIGATION DISTRICT HOOD RIVER, OREGON

OCTOBER 2013 REVISION

INTRODUCTION

The following text provides guidelines for the construction, operation, and maintenance of the Farmers Irrigation District (District) pressure pipe system. Information regarding the administration of District water rights and billings is also included. The content of this document is guided by the District's sustainability plan, which is the source document for all District activities, policy, and direction. Other documents related to this one include the District's Contract Review Board policy and conservation plan.

PRESSURE PIPE STANDARDS

EFFICIENCY

The measurement of efficiency for the District's water system is determined by dividing the total amount of water delivered through sprinkler heads by the total volume of water diverted. The targeted efficiency is 0.95.

SPECIFICATIONS

Standard specifications and details will be available from the District for all systems, including piping, valves, and construction methods. The District on a case-by-case basis should approve any variances from the standard specifications.

PRESSURE & VOLUME

The target design working pressure to each turnout will be between 35 and 75 pounds per square inch (psi) at normal flow rates. Pressure reduction valves (PRV) will be included in the District system to achieve the targeted delivery pressure, and pressure relief valves will be located at the end of each lateral. It is a District goal to provide sufficient pressure to all agriculture water users at pressures sufficiently high to eliminate pumping, but limited pumping, in some isolated instances such as proximate to Farmers Canal, may continue to be required. The District will work with agriculture water users on a case-by-case basis as necessary to ensure acceptable water volume and pressure at all sites.

USER PIPES AND FITTINGS

All water user systems must be able to withstand 125.0 psi with safety provisions for pressure surges of up to 150 percent of 125 psi. The District must approve

deviations from this standard. Pressure reduction valves can be fouled by sand or debris, thus allowing high pressures to pass through the valves. Pipe with the ability to withstand malfunctions of pressure relief or pressure reduction valves are required as is adequate thrust restraint. It is the water user's responsibility to protect his or her system from pressure surges.

The user may install additional pressure reducing valves, pressure relief valves, check valves, pop-off valves, or other control valves as deemed necessary to protect his or her piping and fixtures from abnormally high or low pressures or interruption of service consequent thereto. The District does not inspect the water user's lines or irrigation equipment, and the water user must address shortcomings in the water user's system.

METERING

Each turnout will have a device to control or monitor the rate and amount of water delivered. The variety of sizes of water users precludes a standardized measuring device, but a measuring device is required. The District staff will determine whether a meter, orifice, or other measuring device is appropriate to individual service units. As part of its water conservation plan, the District requires metering at all diversions.

INTERRUPTIONS

All District Distribution Network (DDN) designs require valves located at regular intervals such that sections of the pipeline can be shut down without disrupting the entire system. In addition, backup systems and piping will be provided where possible so that alternate sources are available should a section have to be shut down.

PRESSURE REDUCTION VALVES

Pressure reduction valves are engineered into the DDN at intervals that will keep the working pressure within design limits.

SERVICE UNIT

Each Service Unit (SU) turnout will have a District shut-off valve, measuring device, PRV (if necessary) and a private shut-off valve. The addition of air and vacuum relief valves within the user systems may be required.

MINIMUM SERVICE UNIT

Each Minimum Service Unit (MSU) will have a single turnout that usually serves more than one user. A single measuring device will be incorporated to provide water in the amount of the total water right within the MSU.

EASEMENTS

All work shall be performed within District easements or rights-of-way. Where possible, the DDN will follow existing canals, ditches, and pipeline rights-of-way. Additional easements are encouraged in designing and installing the DDN if such easements would naturally reduce costs of installation. All easements shall include a construction right-of-way and a permanent easement for ingress and egress for inspection and maintenance. Easements shall be recorded with Hood River County Deeds and Records. Should an easement be required through a District user's property, the District expects a high level of cooperation from the user, and the costs of restoration of the property disturbed by installation of the DDN along the easement shall be assumed by the District.

WATER RIGHTS

GENERAL

The District manages water rights on the lands within the District. Water users are billed for the water rights on his or her property.

BILLINGS

Billings for each year are established by the District Board of Directors (Board) by the November board meeting. Users are billed by December 15 of each year with payment due by April 15 of the following year. A discount is provided for early payment. Billings are based on the primary irrigation rights of each property. The District may bill for other water uses and reserve funds as determined necessary.

DELINQUENCY

Accounts are considered delinquent if they are not paid by April 15 of the billing cycle. Users with delinquent accounts may have their water delivery discontinued, and a notice of claim of assessment lien may be filed by the District against all property owned by users whose accounts are three months or more delinquent. The District may discontinue water service to a delinquent user after providing the user with a ten day notice. All billing amounts, including service charges, accrued interest, attorney fees, and other expenses assessed against the delinquent user must be paid in full to avoid disconnection. Written notice shall be provided by addressing the notice to the user at the last address provided to the District by the user for billing purposes. A \$100 reconnection fee may be charged to restore service after discontinuance of water service. Interest will be charged on all delinquent accounts at the legal rate established for past due charges and billings by irrigation districts as allowed by Oregon law. Contacting the District office may make provisions for a promissory note to provide payments.

All accounts that are delinquent for one year or more shall be foreclosed unless a promissory note is in place between the user and the District. The District pursuant to the procedures set forth in Oregon law may foreclose all crop liens. In any foreclosure

proceeding, the District shall seek, and may obtain, a judgment for its costs of foreclosure, legal interest on the delinquent account, and attorney fees incurred by the District in obtaining the foreclosure decree.

FORFEITURE OF RIGHTS

Any user who no longer wishes to be served by FID may choose to have the District transfer the rights from the property. Abandoned rights do not benefit the former user, the District, a potential user within the District, or in-stream flow. Transferred rights enable the District to divert the same water under the old right to a new applicant.

NEW OR ADDITIONAL WATER RIGHTS

Requests for new or additional water rights may be submitted to the District. If the request is granted, the property for which the water is requested is placed on the official district waiting list. As water rights become available, the individual belonging to the property to which the request pertains is notified. The District must make sure that the property and the person can put the water to beneficial use within two years of the date that the transfer is made. Water rights are moved under the state law allowing the District to manage its own water rights. This is done once per year near the end of the year.

Transfers completed outside of the district water rights management law are completed at much greater expense and complexity. A Certified Water Right Examiner must first survey the property receiving the water right. This may be done by the State of Oregon, by a licensed private water right surveyor, or by the District's water right surveyor if the district employs such a surveyor. The State charges a significant fee and does not guarantee a timely survey. The District also charges for the survey, but it will be done in a timely manner. Once surveyed, the application is sent to the State for action. A flat fee is assessed for the first ten acres per transfer and a fee per acre is assessed for each additional acre. The water right recipient pays this fee to the District, which then pays the State. These fees are set by the Oregon Water Resource Department and are subject to change. The District's Waiting List Policy is as shown below:

FARMERS IRRIGATION DISTRICT POLICY FOR WAITING LIST

This policy is intended to protect, enhance, and support the community of agriculture in the Hood River Valley and preserve water rights for both in-stream flow and agriculture. Available water rights are distributed under the following guidelines:

- ** The waiting list for both the upper and middle areas of the District, by decision of the Board of Directors, is closed to additional waiting list requests.
- ** Waiting list requests will be taken for water being applied to agricultural land only.

- ** Requests for less than 2.00 water right acres will be accepted only if there are current water rights on the property.
- ** No water right requests will be taken for land within the Urban Growth Boundary.
- ** When water rights become available for transfer, the District via certified mail will notify the property owner on the waiting list.
- ** If, upon notification to the landowner that water rights are available, the owner chooses not to accept the water right at the time, then the landowner must reapply.
- ** The Board of Directors must authorize all waiting list applications before placement on the waiting list. Staff shall review the application prior to Board approval and shall notify the applicant of the outcome upon Board review. The application must be in proper form prior to submittal to the board.
- ** All waiting list landowners must accept and comply with the requirements and deadlines as set forth by the District including, but not limited to, flow regulators, beneficial use, and water application within the prescribed conditions of the transfer.

CHANGES OF OWNERSHIP

The District uses Hood River County records as its source for ownership records. Each billing year uses November 1 as the cut-off date for changes. Billings are made to the property ownership as of that date. In case of discrepancies, the District office personnel are available to assist the appropriate party.

CITY ANNEXATION

Subdivided lands annexed by the City of Hood River may be excluded from the District and the water rights returned to the District for redistribution.

PARTITION AND SUBDIVISION REQUIREMENTS

- 1) **Exclusion of Subdivided or Partitioned Land Within District.** Where land within the District which is subject to the charges or assessment of the District is subdivided or partitioned into three (3) or more parcels per acre, the land within the subdivision or partition shall be excluded and taken from the District pursuant to ORS 545.097 to 545.126, unless provision is made for the continued delivery of water as provided in paragraph 2 below. (ORS 545.101)
- 2) **Delivery of Water to Subdivided or Partitioned Land Within District.** The District Board of Directors may authorize the continued delivery of water to subdivided or partitioned land within the District where the owner of the subdivided or partitioned land (1) has identified the delivery system on the plat approved by the

appropriate governing body, and (2) has installed an underground piped delivery system to the parcels to be served. In addition, as a condition to the continued delivery of water to the subdivision or partitioned lands, the Board may require the installation by the owner or owners of subdivided or partitioned lands of a meter or other adequate measuring and control device at the delivery point to the subdivision and for each parcel. (ORS 545.101) *See District Subdivision Construction Specifications Document.

3) Charges for Water Delivered to Subdivided or Partitioned Lands or to Organized User Groups and Liens for Non-Payment. The District Board of Directors may charge for water deliveries to subdivided or partitioned lands, or to organized user groups, by charging and billing each individual parcel or by billing a homeowners' association or similar entity which represents the subdivided or partitioned lands or group. The Directors may assess an additional charge for water deliveries to subdivided or partitioned lands or to user groups in order to cover extra costs to or services of the District on account of such delivery. Before billing will be done on an association or group basis, the association or group must enter into a memorandum of understanding with the District concerning such billing. Notwithstanding the particular billing procedure used by the District, each individual parcel shall be responsible for the timely payment for water deliveries to the parcel, and if the owner of any parcel is delinquent in the payment of water charges for that parcel, the District may file a notice of claim of lien affecting that parcel pursuant to ORS 545.494, and proceed thereafter as provided by law.

4) Accounts and Account Fees: Each parcel within a user group will be assigned an account. Each account is subject to an annual account fee. If a single owner has included one or more of their parcels within a single account, the owner will only be required to pay one account fee per year, per user group.

As a condition of continued service and pursuant to state law and District policy, all Partitions/Subdivisions within the boundaries of the Farmers Irrigation District are hereby required to comply with the following conditions:

Partition/Subdivision requirements to be completed by Owner/Developer/Applicant:

- 1) The owner/developer/applicant shall provide water service to all created parcels within a fully enclosed pressurized system, from a single point of delivery as determined by the District System Supervisor. The owner/applicant shall also provide the District with a copy of the survey, which includes the irrigated portion of the land and where the proposed irrigation line(s) will be located.
- 2) Flow regulation and gauging consistent with State law and District policy is also required and an on-site inspection, by District staff, of the flow regulator or gauging device must be made prior to water delivery. Flow regulation device(s) at the point of delivery or at each parcel, OR BOTH, are to be purchased, installed and maintained by the property owner(s) at the owner's expense.

- 3) The District cannot give the permission of other property owners to allow use of a District-specific easement. All easements regarding placement of the said irrigation system are the sole responsibility of the property owner(s).
- 4) All owners/developers/applicants who create 4 or more parcels are required to form a user group/association, complete with bylaws, articles of incorporation or un-incorporated association, or LLC and enter into a Memorandum of Understanding with the District Board of Directors.
 - a) The deadline for a change in billing status from individual billings to a group billing is February 1. Therefore, the information, including a recognized Memorandum of Understanding, which is to be provided to the District in order to obtain the “Small User Group” billing, must be completed and submitted for review to the Board of Directors prior to the third Wednesday in January.
 - b) ***Pursuant to ORS 545.101 (b) the subdivider shall install underground pipe from the District’s designated point of delivery to each lot or parcel in the subdivision as shown on the plat approved by the appropriate governing body. Also pursuant to ORS 545.101 (c) the subdivider provide adequate easements for the delivery system and make provisions for the maintenance and repair of the delivery system.***
- 5) Completion of the District requirements, verified by an on-site inspection prior to final approval, is requested and required.
- 6) District’s required application fee shall be paid in full.
- 7) Owner/developer/applicant shall meet with District staff and distribute the water rights on the new parcels according to the irrigated area on each parcel.
- 8) Owner/developer/applicant shall receive an Acknowledgment Form from the District to be presented to the planner assigned to the application acknowledging completion of these requirements.

WATER RIGHT & ADMINISTRATIVE FEE SCHEDULE

All applicable water right and administrative fees are to be paid at the time of application. Application must be made to the Farmers Irrigation District prior to approval of any of the above stated land use actions. The District’s Water Right and Administrative Fee Schedule is adjusted annually, or as approved by the Board of Directors, and can be referenced at the bottom of this document.

CONSTRUCTION

GENERAL

This section sets forth policy guidelines and quality standards for design work, engineering, and construction within the District.

DESIGN WORK AND ENGINEERING

Construction may be commenced without formally engineered plans if the Board or the supervisory staff of the District determines that: (1) it is not cost effective to hire a professional engineer to design the project; and (2) the project can be constructed in a professional, safe, workmanlike manner without professionally engineered plans. Projects of sufficient complexity or projects demanding time or expertise beyond the resources of the District should be professionally engineered.

All construction requiring formally engineered plans shall be engineered prior to the commencement of the project. The District shall maintain a file of designed or engineered projects so that projects may be initiated on short notice. The District also maintains a prioritized list of pending projects including the design status of each project. A comprehensive District plat is maintained in the District's Auto-CAD and or GIS system.

CONSTRUCTION QUALITY STANDARDS

All construction projects will be inspected on a regular basis, and final approval will be made by a District-qualified inspector. Notice of final approval of completed work will be presented to the Board. Work performed must be in compliance with District specifications, and any deficiencies must be promptly corrected. The following is a general list of quality standards and specifications required for all District Projects.

All projects will have adequately sized and correctly designed thrust restraint, pressure relief, air relief, drain systems, and isolation valves. Ductile iron shall be used for all road crossings. Projects with mainlines attached to the Plant 2 or Plant 3 penstock or the Highline Canal pressure main shall use Class 200 pipe and fittings. Class 160 pipe or PIP may be used for low pressure District lines such as, for example, the Farmers Canal.

SPECIFICATIONS

Construction work on the DDN will adhere to the following criteria:

MATERIALS: All materials shall be of approved brands and types. The District will have pre-approved lists of materials for users. The District will not accept or serve systems with unapproved materials or construction.

DEPTH OF PIPE: Pressurized laterals will be buried at a depth which will allow protection from freezing. In addition, pipe depth will comply with regulations which apply to rights-of-way used. Minimum cover for mains and laterals will be 30 inches.

ISOLATION VALVE: Shut off valves will be designed into the DDN so that portions of the network may be isolated. Isolation valves will be located to permit a portion of the mains and laterals to be charged for fire protection.

SYSTEM DRAINS: All portions of the DDN, including turnouts and their appurtenances, shall have drain capability which will accommodate runoff from associated lines.

SECURITY: All shutoff valves, pressure reduction valves, turnouts, and drain valves will be protected from vandalism, freezing, and unauthorized modification or adjustment.

USER SYSTEM: The District may provide model ordinances, plans and specifications for user systems. Such systems will include pressure protection, screening, pipe sizing (for multiple systems), valves, pressure control, relief valves, and connections.

WATER USER PARTICIPATION

A water user or group of water users may install certain sections of the DDN in an effort to expedite projects. Approval of a water user proposal will be made on a case-by-case basis. All work performed will be to District specifications with regular inspection and approval by a District-qualified inspector. The Board will be notified of project approval and completion.

If the District determines that a water user project will advance the District's sustainability plan, and the District is capable of providing services and materials to assist in completing the project, the District may do so. Approval of a water user request to participate in the creation of the pressurized system depends upon several considerations as generally described below:

- *Is the proposed project consistent with the District's sustainability vision
- *Is adequate funding or financing available

- *Is the applicant's pressurization plan thorough
- *Has the proposed project been engineered
- *Have agency approvals been obtained
- *Have rights-of-ways or easements been obtained
- *Has written approval been obtained from impacted property owners
- *Does a cost analysis demonstrate District and user benefit
- *Will the proposed project be consistent with existing and future systems

EASEMENTS

All work shall be performed within easements or rights-of-way. All easements shall include a construction right-of-way and a permanent easement for ingress and egress for inspection and maintenance. Easements shall be recorded in the Hood River County deed records office.

OPERATION AND MAINTENANCE

GENERAL

The District Collection System (DCS) and DDN will be operated and maintained by District staff. Periodic inspection to detect pipe failure and leaks will be conducted, and efforts to further enhance the system will continue throughout the existence of the District.

TRANSITION

The transition phase of the DDN from the original system is expected to exceed five years depending on source of funding. During this time, portions of the District will be pressurized and portions will operate on the original system.

CONNECTION

When a portion of the DDN is completed, the District-qualified inspector will notify the Board of such completion. The Board will then accept that portion and the system will be activated. Following activation of the system, there will be a thirty day interim period during which users will be afforded the opportunity to assess the system and seek correction of any problems.

MONITORING, INSPECTIONS, AND REPAIRS

Periodic or continuous monitoring of flow rates on all systems will be conducted. Flow meters or regulators are required on all systems. Any users who believe flow rates or District facilities are inadequate or malfunctioning may request an inspection of the system. When a user requests an inspection of a private system, the District may charge a

fee for the cost of the work undertaken on a time and materials basis. To facilitate service to a user or user group, it may be necessary for the District to repair private systems. The cost of such repairs will be billed to the responsible user or system owner on a time and material basis.

TIMING

Irrigation season by State statute is April 15 to September 30. The DDN will be energized and tested prior to the start of irrigation demands. Leaks or user system failures noted during this time will be brought to the user's attention. The user's system will be isolated pending the necessary repairs.

Water for spray use will be available upon request from February 15 to November 15 of each year. The rate of flow for spray water will be limited to that amount needed to fill spraying equipment.

Frost water delivery will be available only for existing holders of such rights and shall not exceed the irrigation right amount for the property being treated with frost water.

The Board, based upon availability of water and limitations of Oregon law may authorize other unscheduled uses of water through the District system.

INSPECTION BY DISTRICT

The Board of Directors, its officers, or an agent or employee of the District may enter upon land of a user of the District for inspection, maintenance, and regulation of ditches, pipelines, gates, pumps or other water works. In the absence of an emergency, the District shall provide adequate and appropriate notice prior to entering upon the land of the user. Any person exercising the right of entry granted hereunder shall do so with no unnecessary damage to the property of the user. The user shall not be responsible to the person or the District for any unintentional injury or damage to the person or District arising out of or occurring by reason of the entry.

AGREEMENTS/DISCLAIMERS

USER INTERVIEW

Project participants in the District may be interviewed to confirm and update water rights, actual use, anticipated use, pump costs (if any), and other information useful to proper planning and water rights management. Special efforts will be made to work directly with agriculture water users to ensure appropriate delivery of water to District farms. District forms requiring signatures may be required.

SERVICE UNIT (SU) AND MINIMUM SERVICE UNIT (MSU)

User parcels or contiguous parcels of eight or more acres of water rights will be entitled to a single turnout. At a minimum, the turnout will consist of a District shut-off, measuring device, drain, and user shut-off. Each user shall furnish a screen or filter, pressure relief valve and, if necessary, pressure reduction valve. Parcels with water rights of less than or equal to eight acres will be designated a MSU. The engineering design shall strive to consolidate users into groups of at least eight acres, for which one turnout will be provided. The practicability, productivity, and efficiency of the overall system will determine the number of users and actual acreage within a MSU.

Users within a MSU must form a user group according to District guidelines. The user group must be established according to the requirements of Oregon law and must follow the requirements of District Policy. The District is not obligated to provide group billing service to an organization for an irrigation season unless that organization becomes legally established and provides the District with written proof of its establishment at least one month prior to the District's annual billing date.

SUBDIVISIONS

Subdivisions platted after September 13, 1975, pursuant to ORS 92.010 to 92.190, are automatically excluded from the District at the time that the plat is approved by the appropriate governing body, if the subdivision has three or more tracts on each acre of land within the subdivision. This exclusion shall not apply if the District chooses to supply water to each tract in the subdivision through underground pipe which is installed by the developer and which is shown on the plat approved by the appropriate governing body.

SERVICE

Description of Service: User accessible valve followed by a flow measuring device and any other additional fittings or pipes going onto service property.

The ability of the District to deliver water is contingent on numerous factors, any one of which may create problems for an individual user's system and for which the District cannot be held responsible. Consequently, the District will generally only maintain the distribution network to the service shut-off for each service unit. Any pipe, fittings, flow-measuring devices and/or valves installed or constructed beyond the point of the service shut-off shall be the sole responsibility of the user. In the event a user or partitioned user fails to properly operate and/or maintain any pipe, fittings, flow measuring devices and/or valves that are the user's responsibility, the District shall have the right, but not the obligation, to operate and maintain these features or, if necessary in the interests of all users, shut off the supply of water to the user. The user shall reimburse the District for the cost of such operation and maintenance on a time and materials basis.

As partial consideration for the District's installation of the distribution network, the users agree to indemnify and hold harmless the District and its officers, employees and agents from any and all damages, costs, claims, and/or causes of action advanced by users or third-parties for any reason arising out of, or in any manner connected with, the users' operation, use, and maintenance of the system on the users' property or arising from any user's failure, neglect, or refusal to comply with the provisions of the District's guidelines, rules, regulations, policies, and bylaws. This indemnification obligation shall include, without limitation, the District's costs of litigation and attorney fees incurred in connection with any such claims.

All users shall be responsible for operating and maintaining their own irrigation systems so as to prevent damage to their systems and the District's distribution network from all hazards, including: pressure surges, improper winterization, and clogged lines. In addition, all users acknowledge and agree that the District may not be held liable for the consequences that may arise from inadequate water during dry years, dirty water, and other acts of God.

The District reserves the right, but does not have the obligation, to inspect all users' systems and shut off the water to any user if the District deems the user's system to be potentially hazardous to the District's distribution network or any real or personal property within the District. The District recommends that users protect their systems and the distribution network through utilization of properly engineered piping, valves, and pressure reduction features.

DELIVERY

The users within the District have a water right of 1/80th of a cfs per acre of registered irrigable land. The maximum water use per water year is limited to 3.0 acre feet per acre. The District interprets this statement to mean that each user has a proportionate right to the water available within the District. During low water years, users will be notified when the District will not be able to deliver the full measure of water that is held as rights. Other measures of rationing, such as rotational delivery or reduced quota, will be utilized as necessary to fulfill the District delivery obligation. Any theft of water or tampering with District equipment or water supply may result in one or more of the following actions by the District: (1) disconnection; (2) filing of charges with the Hood River County District Attorney's office for prosecution of the offender; and (3) civil action by the District for statutory damages in the sum of \$1,000, or for actual damages to the District, whichever is greater, for punitive damages, and for the cost of the suit, reasonable attorney fees, and expert witness fees, if any. **See current fee schedule at the bottom of this document.*

PRIORITIES

District staff will maintain a list of priorities, which will provide guidelines for unit development. These priorities should be reviewed at reasonable intervals and updated at

the discretion of the Board. General guidelines and District philosophy are described in the District's Sustainability Plan, which is the primary source document for all District Policy.

TAMPERING

The District maintains control of the gauging, metering, and monitoring facilities for the District's water resources. Tampering with District diversion boxes is against State law and punishable by fine and imprisonment. In addition, the District may disconnect its services and refuse to furnish water to anyone caught tampering with District flow devices. **See current fee schedule at the bottom of this document.*

THEFT

All theft of District equipment or theft of irrigation water from water rights owned by the District or by users within the District shall lead to disconnection of services to the thief and shall result in a report being filed by the District with the appropriate police and prosecuting authorities. All users are encouraged to call the District in case of problems and not tamper with flow rates. **See current fee schedule at the bottom of this document.*

TIMING

Irrigation season, by State statute, is April 15 to September 30. The District will delay irrigation water delivery until the actual start date for agricultural irrigation as determined by weather, soil moisture values, and crop needs. Spray water is released into the system as early as practicable, if consistent with State law, contingent upon the District's ability to operate the system in light of weather conditions and other factors that might otherwise preclude early- or late- season delivery. Normally, spray water will be available until November 15th and then again beginning on February 15.

TRANSITION

During the transition phase to a fully pressurized and piped system, some inconveniences and interruptions may be unavoidable. The District will make every effort to minimize disturbances. When necessary, as much advance notice as possible will be given to impacted users.

CANAL MAINTENANCE & REPAIR

The District has a regular program of maintenance and cleaning of open ditches and canals in the Distribution system. Periodic ditch cleaning, at least once every three years, is maintained with some ditches requiring more frequent cleaning intervals. Personnel walk the open ditches as required to insure the unobstructed flow of water. Ditches are checked for debris, leaks, and other potential problems, which could cause interruptions to flow.

Users are encouraged to help remove unwanted restrictions to proper flow from laterals and service ditches. Restrictions could be such things as rocks, paper, plastic, and wood, as well as root, grass, and weed growth. Users are further encouraged to report leaks caused by animal burrows, digging, or breakdown of side walls to the District office. District main and lateral metering boxes are inspected and maintained on a schedule during irrigation season. Service unit measuring boxes are not inspected as frequently. Any shifting, leakage, or other deterioration in a user's diversion box should be reported to the District office.

While parts of the District's conveyance system remains in century-old open canals, such canals are vulnerable to blowouts, breaches, and over-toppings. The District's longstanding practice of repairing and mitigating against such events is to place pipe of the appropriate specifications, as determined by experienced District Officers or Engineers in such affected areas. Due to the age, vulnerability, cost, and associated liability of maintaining the District's open canals, canal bank conversion to pipe is viewed as not only the most practical solution, but in all instances the least cost alternative to canal bank restoration.

GLOSSARY & TERMS

SERVICE UNIT (SU): An area or acreage, which has a water right and is provided irrigation water from a controlled point (turnout) located at the high point of the quarter-quarter section or the District-approved alternative point of delivery.

MINIMUM SERVICE UNIT (MSU): An area or acreage, which has a water right or combination of water rights and is less than or equal to eight (8) acres in size. Irrigation water is provided to a single controlled point (turnout) for the combination of water rights within the boundaries of the unit.

USER: A person, corporation, partnership, or other entity entitled to its prorata share of irrigation water.

MEASUREMENT UNITS:

1 gallon = 231 cubic inches

1 gallon of water weighs 8.34 pounds

1 cubic foot = 7.48 gallons

1 cubic foot of water weighs 62.42 pounds

1 acre foot = 43,560 cubic feet

1 pound per square inch = 2.31 feet of elevation head.

1 cubic foot per second (cfs) = 448.83 gallons per minute (gpm)

= 1.983 acre feet per day

= 40 miners inches

1 miners inch = 11.25 gallons per minute (gpm)

= 1/40 cubic feet per second (cfs)

Farmers Irrigation District Water rights are - 1/80 cfs per acre
= 1/2 miners inch
= 5.625 gpm

TURN-OUT: The point of service from the District System to the user system.

DIVERSION: The point on the primary water source (Hood River or tributary) where water is channeled into the District Collection System.

USER AGREEMENT: An agreement among neighbors to operate a system with a single District turn-out.

DISTRICT DISTRIBUTION NETWORK: (DDN) The network of delivery pipes, appurtenances, and turn-outs in the distribution portion of the District.

DISTRICT COLLECTION SYSTEM: (DCS) The system of canals, ditches and pipelines bringing irrigation water to the District.

PRESSURE REDUCTION VALVE: (PRV) A valve designed to limit and control the downstream pressure (head).

EFFICIENCY: The total amount of water delivered on-farm through the sprinkler heads divided by the total amount of water diverted.

PIPELINE: The pipelines within the DDN, designated as follows:

TRUNK LINE: Primary lines in the DDN and DCS.

MAINS: The primary diversion lines from the trunk line.

LATERALS: Feeder lines to service units from the main lines.

SERVICE LINES: The irrigation lines within service units and minimum service units.

CONTRACT REVIEW BOARD: A group of people selected by the Board to review and make recommendations to the Board on bid and contractor selection. See also the District's Contract Review Board Rules.

WATER RIGHT & ADMINISTRATIVE FEE SCHEDULE last revised on 6/04/13

Copy fee – per page	\$0.15
NSF Check fees	\$25.00
One Property Account Inquiry Fee	\$15.00
Multiple Properties Account Inquiry Fee	\$35.00
Research Fee (per hour) – half hour minimum	\$50.00
Change of Occupancy (COO)	\$75.00

Water Right Fees / Land Use Applications

These fees are to be paid at the time of application. Application must be made to the Farmer Irrigation District prior to approval of any of the listed actions.

Water Right Removal OFF	transfer fee	\$93.00	per acre
Water Right Transfer ON	transfer fee	\$100.00	per map

Fee includes transfers occurring within a property, between properties, forfeiture and in-stream leases. Fee protects FID water rights and offsets mapping requirement costs.

Minor Partition (two parcels)	\$250.00
Major Partition (three parcels)	\$400.00
Property Line or Boundary Adjustment	\$100.00
Water Right Recording Fee	\$100.00
Subdivision (dividing into more than three parcels)	\$1,125.00 plus 50.00 per lot
New User Group formation	\$1,125.00 plus 50.00 per lot

Service Fee Schedule

Disconnect Fee	\$25.00
Reconnect Fee	\$100.00
New connection (plus time and materials)	\$200.00

Infrastructure Permit Fees

Crossing Open Canals or Pipe (Bridge, Pipe arch)	\$1,500.00 plus...
<i>(Plus Hydroelectric Revenue Reimbursement Interruption calculated at current PPA Rate)</i>	
Buried Canal Crossings	\$650.00 plus...
<i>(Plus Hydroelectric Revenue Reimbursement Interruption calculated at current PPA Rate)</i>	

Fines and Penalties

Tampering with District Property (plus time and material)	\$1,000.00
Theft of Services-Restitution (plus time and material)	\$1,000.00
Theft of Property (plus replacement costs)	\$1,000.00
Miscellaneous Encroachment on Easements	\$500.00

The Farmer's Irrigation District Manager may include referral to the Hood River County District Attorney for prosecution in addition to the fines set forth above.

Revision Approval

FID District Manager

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Jer Camarata