

BOARD OF DIRECTORS Regular Meeting Agenda September 6<sup>th</sup>, 2023, 6:30 p.m. Board Room 19039 Bay Street, El Verano (707) 996-1037

#### **Board of Directors**

Jon Foreman, President Gary Bryant, Vice President Steven Caniglia Steve Rogers Colleen Yudin-Cowan

#### **PUBLIC NOTICE**

#### Members of the public may participate in this open, public meeting in person.

Time will be provided for public comment. Any member of the public wishing to speak will be allowed 3 minutes to make a statement. Board President will call for comments prior to the Board deliberating on pending action. However, please note that no action can be taken on any item unless printed on the agenda and included with the meeting notice. Therefore, any item discussed by members of the public and not shown on the agenda will only be received for information. The Board of directors may choose to set such item for future discussion and staff report. A full agenda packet is available at the District office for public view. A fee may be charged for copies. During the meeting, information and supporting materials are available in the Boardroom. District facilities and meetings comply with the Americans with Disabilities Act. If special accommodations are needed, please contact the District as soon as possible, but at least two days prior to the meeting.

All open meetings are recorded. Recordings for each meeting are retained for a minimum of 90 calendar days and may be heard upon request, at no cost. Please contact a member of the District staff for assistance. ITEMS ON THIS AGENDA MAY BE TAKEN OUT OF THE ORDER SHOWN.

Any writings or documents provided to a majority of the Board regarding any item on this agenda will be made available for public inspection in the VOMWD office located at the above address during normal business hours.

#### 1. CALL TO ORDER – PLEDGE – ROLL CALL

#### 2. PUBLIC COMMENTS:

This section of the agenda is provided so that the public may express comments on any item within the District's jurisdiction not listed on the agenda. Board members can ask questions for clarification, respond to statements or questions from members of the public, refer a matter to staff, or follow Board procedures to direct staff to place a matter of business on a future agenda. The public may express comments on agenda items at the time of Board consideration.

#### 3. CONSENT CALENDAR

It is recommended by the General Manager that these items, which are expected to be routine in nature and without controversy, be received and acted upon by the Board without discussion. If any Board member or interested party requests that an item be removed from the Consent Agenda for discussion, it will be considered separately. The consent calendar may be approved by a single motion.

<u>Item 3.A</u> Minutes of the August 10<sup>th</sup>, Board of Directors Special Meeting

Item 3.B Adopt Resolution No. 230902, Authorizing a Water Facilities Installation Agreement Between Valley of the Moon Water District and Norman Krug-Krug Development Corp. (the Verano Hotel) for a 4" service line, 3" domestic meter, 2" service line, 2" irrigation meter, 8" dedicated fire line, and 12" PVC main on Verano Ave to be installed at 155 West Verano Avenue, Sonoma, CA 95476, APN: 127-071-014

#### 4. PUBLIC PRESENTATION, HEARING OR WORKSHOP

#### 5. FINANCE, ADMINISTRATIVE & OPERATIONAL REPORTS

#### <u>Item 5.A</u> Monthly Financial Reports & Disbursements

Staff Recommendation: Receive, and approve by roll call vote, the monthly financial reports & disbursements for the month of July 2023 in the amount of \$868,913.74

- <u>Item 5.B</u> Administrative Report
- Item 5.C Water Source Report
- Item 5.D Operational Updates

#### 6. DIRECTORS' COMMITTEE REPORTS

Item 6.A Sonoma Developmental Center (SDC) Ad Hoc Subcommittee Update

#### 7. GENERAL MANAGER'S AND DISTRICT COUNSEL'S REPORTS

#### 8. DISCUSSION AND ACTION (GENERAL BUSINESS)

Item 8.A Consider Adopting Resolution No. 230901 Approving an Outside Service Area Agreement (OSAA) to serve 12405 Flicker Hill Road in Glen Ellen and Authorizing the General Manager to Submit an OSAA Application to the Sonoma County Local Agency Formation Commission (LAFCO)

#### 9. CLOSED SESSION

- <u>Item 9.A</u> Conference with labor negotiator Pursuant to government code section 54957.6 Negotiator: Allison Hernandez, Counsel, Employee organizations: International Union of Operating Engineers, Stationary Engineers Local 39.
- <u>Item 9.B</u> Conference with Labor Negotiator

Pursuant to government code section 54957.6 Negotiator: Matt Fullner, General Manager. for unrepresented and non-executive management employees.

Item 9.C LIABILITY CLAIMS

Claimant: Cari McCormick

Agency claimed against: Valley of the Moon Water District

#### 10. REQUEST FOR FUTURE AGENDA ITEMS

#### 11. ADJOURNMENT

The next scheduled Board meeting is a regular meeting at 6:30 p.m. on October  $4^{th}$ , 2023. Posted this  $1^{st}$  day of September, online and in three public places.

Amanda Hudson, Board Secretary

## VALLEY OF THE MOON WATER DISTRICT BOARD OF DIRECTORS

SPECIAL MEETING MINUTES August 10, 2023

A Special Meeting of the Board of Directors of the Valley of the Moon Water District was held on August 10, 2023. Members of the public were provided the opportunity to participate in this open, public meeting in person.

#### 1. CALL TO ORDER - PLEDGE OF ALLEGIANCE - ROLL CALL

**President Foreman** called the meeting to order at 6:30 P.M. PST.

Roll Call by **Secretary Hudson** noted the following present:

Directors: Gary Bryant

Steve Caniglia
Jon Foreman
Stephen Rogers
Colleen Yudin-Cowan

District Counsel: Tamar Burke

District Personnel: Matthew Fullner, General Manager

Amanda Hudson, Administration Manager

Oscar Madrigal, Finance Manager

Public: See sign-in sheet

#### 2. PUBLIC COMMENTS

None

#### 3. CONSENT CALENDAR

Item 3.A Minutes of the July 12th, Board of Directors Regular Meeting

<u>Item 3.B</u> Consider Accepting the New EV Plugs and Solar Facilities at the District's Shop and Office at 19039 Bay St Sonoma by Adoption of Resolution No. 230802

**Director Yudin-Cowan** made a motion, seconded by **Director Rogers**, to approve the Consent Calendar.

The motion passed unanimously by voice vote.

President Foreman moved out of order to item 8.A

#### 8. DISCUSSION AND ACTION (GENERAL BUSINESS)

<u>Item 8.A</u> Consider Amending District Code to Allow a LAFCO Outside Service Area Agreement (OSAA) in Certain Scenarios Related to Water Quantity or Quality, as well as Other Clean-up Items by Adoption of Resolution No. 230801

**Director Rogers** said the concept of well permits being reviewed by the GSA is coming up. At the forefront is if municipal water is available. Is this change to the Code going to inhibit that?

General Manager Fullner said if the GSA is an/or final arbiter of the production of new wells in the area, if they also happen to be within the service area of a municipality, they could be required to hook up the facility before drilling a well. That wouldn't have a huge impact given the size of the District's service area. There are quite a few lots and lots that will likely be subdivided in the future. There is a lot of construction that is likely to happen; the District needs to continue to assess the available water as these projects come along. The bigger deal would be now that there is a better understanding of how an out-of-service agreement would work, it's clear that not everyone outside the District boundary is eligible, they would need to be close to it.

Jeff Hanson made a public comment and said he has a parcel with a single residence on Flicker. They had to drill a well several years ago and it is shallow and toxic. Right now they are importing water to keep vegetation alive. This address was in the District but annexed out when the District tightened boundaries. Three other parcels on Flicker Rd all are connected to District water so granting him an out-of-service agreement wouldn't open the door for more requests from his street.

**Director Bryant** made a motion, seconded by **Director Yudin-Cowan**, to adopt Resolution No. 230801 adding language to the District's Code making the Outside Service Area Agreement (OSAA) possible in certain circumstances as approved by the Board and conducting the "clean-up" outlined.

A roll call vote was taken:

Director BryantAyeDirector CanigliaAyeDirector ForemanAyeDirector RogersAyeDirector Yudin-CowanAye

Ayes 5 Noes 0 Absent 0 Abstain 0

#### 4. PUBLIC PRESENTATION, HEARING OR WORKSHOP

#### 5. FINANCE, ADMINISTRATIVE & OPERATIONAL REPORTS

#### <u>Item 5.A</u> Monthly Financial Reports & Disbursements

Staff Recommendation: Receive, and approve by roll call vote, the monthly financial reports & disbursements for the month of June 2023 in the amount of \$989,888.45

Director Rogers said the budget estimated the year-end expenses at \$1.85 million over budget. The expenses came in at \$18,000 under budget. This is concerning because the budget is based on an inflated number that was expected at year-end. Based on the anticipated year-end figure, the budget is projecting a 4.5%-5% increase. But because expenses were less, it is really more like a 15% increase from the previous year's expenses which is too high. It will be difficult during the next session on budgets to believe a number that says we are going to overspend so we need a larger budget. He said he would expect the budget to come in under this year instead of at or over budget.

**Finance Manager Madrigal** said at the beginning of the year we were seeing the drought and unprecedented inflation and it leveled off some. Some accounts are budgeted based on the previous year, for example, some expense accounts were \$103,000 the previous year but then came in at \$33,000 this year; but staff tries to look at each line to budget appropriately.

**Director Rogers** made a motion, seconded by **Director Caniglia**, to receive and approve by roll call vote, the monthly financial reports & disbursements for the month of June 2023 in the amount of \$989,888.45.

A roll call vote was taken:

Director BryantAyeDirector CanigliaAyeDirector ForemanAyeDirector RogersAyeDirector Yudin-CowanAye

Ayes 5 Noes 0 Absent 0 Abstain 0

#### **Item 5.B** Administrative Report

Administration Manager Hudson said that since writing the report a notice was received that the close-out specialist for the FEMA funds was on vacation. He is back now and she is reaching out to him. It seems like the District is not as a priority as other cities and districts that are currently having emergencies.

#### **Item 5.C** Water Source Report

General Manager Fullner said the water agency bill for July was received and comparing it to July of 2022 we are at 15% recovery. To match the water sales budgeted, we need to see it at 15-16% for the next couple of months to accomplish the overall 7% recovery the budget assumes. Because of the drought and the state of the budget, we aren't following the standard plan for pumping which would have included turning off the wells in May and keeping them off through the summer; we are playing it safer for the sake of the budget. We saw so much groundwater recovery in the upper aquifer so we didn't turn off pumps but are looking to cycle them off in the next few weeks.

**Director Rogers** asked how Mountain well is doing.

**General Manager Fullner** said it's making water but not great. However, Chestnut exploratory well got to full depth and accidentally went 50 ft further and doubled the water they had found at that point. Looking at likely a 150 GPM well at that site. That's just the exploratory and we need to do zone sampling but so far it smells good and cool. Those are good indicators but the zone testing is needed to verify that.

**Director Rogers** asked if Park well is ok.

**General Manager Fullner** said it is going well. They just got done with the over-pumping test. Next phase we are coordinating with DWR and another state agency to find the best path for the feasibility study and evaluate if treatment is needed for injection. Then it will need to be designed and go out to bid again for construction. Completion is still a year out.

**Director Rogers** asked about Pedroncelli well.

General Manager Fullner said the District has a contract with EKI. They developed a test schedule, the District is contracted with Pumpman Norcal to work with a subcontractor to do a video to observe the actual entrainment of the air. They are convinced their camera will get stuck but staff believes they can design based on the info we have. We have ordered a pump and have it ready to go so they can do that test on Monday, pull it to get their camera out and keep going to pull it out and get that in. They should be able to go back and test after that.

**Director Rogers** asked if we have to go back to DWR for that well again.

**General Manager Fuller** said no, everything else is the same.

#### <u>Item 5.D</u> Operational Updates

**General Manager Fullner** said that regarding the Glen Ellen Transmission and Fire Flow Improvement, the Water System Manager met with the County paving and it's going to be \$150,000 above the budget for the total project for the additional paving.

**Director Rogers** asked if there is a point at which the District can just say no.

**General Manager Fullner** said staff discussed that but at the end of the day it comes down to the fact that they have been working with us and giving leniencies where able.

**President Foreman** asked if they give estimates before starting these jobs.

**General Manager Fullner** said they give standards but then oftentimes there are things out in the field that change the situation and more has to be paved; there are things there that weren't in the as-builts, etc.

**Director Rogers** said that to ask the District to repave the whole road seems like a 218 violation. Paving is a tax function. The District should just fix the portion it has touched by using the same quality constraints.

**General Manager Fullner** said while he agrees with that the County engineers don't. Staff has had this conversation for years. Ultimately it comes down to the County Board of Supervisors passing standards based on what their engineers say and that's what stands up in court.

**Director Bryant** asked how many more projects like this the District has on the books.

General Manager Fullner said Warm Springs Rd, the Fire Flow on Arnold Dr for the area between Boyes and the roundabout. There is more shoulder there so likely get away from a lot of paving; some areas are tighter and touching it more than we want it to. We will have to assess conservatively as we are budgeting for these projects. Right now we have a good relationship with the inspectors and they're willing to work with us.

Director Bryant said for budgeting purposes perhaps we need to bump up our game a bit.

**General Manager Fullner** said we are hoping to see savings in some areas of CIP but we don't know if it will be as good as last year.

**Director Yudin-Cowan** asked when was the last time the District contested the paving. **Director Rogers** asked to have the legal team review and see if there is a legal basis to get into negotiations with the County over paving.

#### 6. DIRECTORS' COMMITTEE REPORTS

#### 7. GENERAL MANAGER'S AND DISTRICT COUNSEL'S REPORTS

<u>Item 7.A</u> August 7th, 2023 Water Advisory Committee (WAC) and Technical Advisory Committee (TAC) Meeting Update

Administration Manager Hudson attended the August WAC/TAC meeting. Below are the

#### highlights:

#### Water Supply Update

- Lake Sonoma at 245,000 acre-feet
- Lake Mendocino at 90,000 acre-feet
- Lake Sonoma has outflows of 250 acre-feet per day. For perspective, typically being in this position in May would be great, and we are already deep into the dry season.

#### Regional Water Supply Resiliency Study Update

- Sonoma Water is undergoing a Regional Water Supply Resiliency study
- It is a continuing effort to improve resiliency in the area
- TAC members are being asked to contribute ideas for mitigation by August 25

#### Sonoma Marin Saving Water Partnership (SMSWP)

#### 2023 Water Production Relative to 2013 Benchmark

- Regionally at 30% conservation year to date over 2013
- VOMWD is at 37% conservation year to date over 2013
- For the month of May, regional conservation was 33% and VOMWD was at 36% relative to the 2013 benchmark

#### Water Use Efficiency Messaging

- Water smart gardens maintenance manual and water smart plant labels
- Some of the SMSWP events over the last couple of months include the Eco-Friendly Garden Tour on May 13, Rainwater Harvesting Tour in Healdsburg on July 29, Fix-It-Clinic and Reuse Fair in Rohnert Park on July 29, and collaboration between SMSWP and Master Gardeners for The Pathway to Sustainability display at the Sonoma County Fair August 3-13

#### Biological Opinion Status Update

- Dry Creek Habitat Enhancement Project
  - The Corps of Engineers is in the process of constructing Phase IV and V
- Biological Assessment for New Biological Opinion
  - o In anticipation of the expiration of the 2008 Biological Opinion (BO) in September 2023, Sonoma Water is working with the National Marine Fisheries Services (NMFS), the U.S. Army Corps of Engineers (USACE), and the California Department of Fish and Wildlife (CDFW) to reinstate consultation and develop a Biological Assessment (BA) for the continuation of the USACE and Sonoma Water operations in the Russian River watershed
  - Biological Assessment was submitted to NMFS and CDFW and staff are revising the document in response to the resource agency's comments

#### Potter Valley Project Update

• Press release regarding a regional partnership between Mendocino County Inland Water and Power Commission, the Round Valley Indian Tribes, and Sonoma County Water Agency submitting a proposal to advance a regional solution for preserving flows in the Russian

River and improving Eel River fisheries

Russian River Water Forum Update

- The TAC voted on a WAC Interest Statement Regarding the Russian River Water Forum
- WAC voted on the Adoption of the WAC Interest Statement Regarding the Russian River Forum and passed by unanimous vote of all present WAC members
- The next Russian River Water Forum Planning Group meeting is scheduled for August 17

Possible Additional SCWA Billing

- Sonoma Water reported meeting their bond coverage requirements and not invoicing for additional billing
- They also reported being 21% below budget for water revenue

**President Foreman** asked if there are tours of fisheries, etc. **General Manager Fullner** said he would look into it.

**Director Rogers** asked if there is a cost estimate for Potter Valley Project as envisioned. General **Manager Fullner** said not that he is aware of; they are currently working under a grant to develop three options for run of the river that will design up to 30% for each of those options. They will use various means to select one of those options, then hopefully get another grant to cover the design to 60%. There aren't any overall real costs at this time.

8.	DISCUSSION AND ACTION (GENERAL BUSINESS)	
9.	CLOSED SESSION	
10.	REQUEST FOR FUTURE AGENDA ITEMS	
<b>Direct</b> SDC, e	or Rogers asked for an update at every meeting on tc.	key things that are going on: union contract,
11.	ADJOURNMENT	
Presid	ent Foreman adjourned the meeting at 7:22 P.M. PS	ST.
Aman	da Hudson, Board Secretary	Jon Foreman, Board President

Date: September 6th, 2023

Item: 3.B

### MEMORANDUM

TO: Valley of the Moon Water District Board of Directors

FROM: Amanda Hudson, Administration Manager

SUBJECT: Adopt Resolution No. 230902, Authorizing a Water Facilities Installation

Agreement Between Valley of the Moon Water District and Norman Krug-Krug Development Corp. (the Verano Hotel) for a 4" service line, 3" domestic meter, 2" service line, 2" irrigation meter, 8" dedicated fire line, and 12" PVC main on Verano Ave to be installed at 155 West Verano Avenue, Sonoma, CA 95476, APN:

127-071-014

#### **Background**

The above-referenced customer has approached the District and is requesting a facilities agreement for the infrastructure outlined in the attached draft agreement. A contractor hired by the customer will be installing the water facilities under the agreement. The District will inspect all work performed and bill the customer for inspection, plan review, sample collection, etc.

#### Recommendation

Adopt Resolution No. 230902 approving the execution of the attached Water Facilities Installation Agreement.

#### **Attachment**

- Resolution No. 230902
- Draft Agreement

#### **RESOLUTION NO. 230902**

## A RESOLUTION OF THE BOARD OF DIRECTORS OF THE VALLEY OF THE MOON WATER DISTRICT APPROVING A WATER FACILITIES INSTALLATION AGREEMENT WITH NORMAN KRUG-KRUG DEVELOPMENT CORP.

WHEREAS, Norman Krug-Krug Development Corp has requested a water facilities installation agreement with the Valley of the Moon Water District (District) for that certain property known as 155 West Verano Ave, Sonoma, CA 95476, APN 127-071-014.

NOW, THEREFORE, IT IS HEREBY RESOLVED by the Board of Directors of the Valley of the Moon Water District, that the General Manager of the District, be, and they hereby is, authorized and directed to execute a water facilities installation agreement with Norman Krug-Krug Development Corp, a copy of which is attached hereto and incorporated herein, along with any minor modifications approved by the District Counsel.

THIS RESOLUTION PASSED AND ADOPTED THIS 6<sup>TH</sup> DAY OF SEPTEMBER 2023, by the

following votes:

Director Bryant \_\_\_\_\_\_

Director Caniglia \_\_\_\_\_\_

Director Foreman \_\_\_\_\_\_ By \_\_\_\_\_\_

President

Director Rogers \_\_\_\_\_\_ By \_\_\_\_\_\_

Director Yudin-Cowan \_\_\_\_\_

AYES \_\_\_\_\_ NOES \_\_\_\_\_ ABSENT \_\_\_\_\_ ABSTAIN \_\_\_\_\_\_

I HEREBY CERTIFY that the foregoing Resolution was duly adopted at a regular meeting of the Board of Directors of Valley of the Moon Water District held on the 6<sup>th</sup> day of September 2023, of which meeting all Directors were notified and at which meeting a quorum was present at all times and acting.

## Water Facilities Installation Agreement Between Valley of the Moon Water District And Norman Krug-Krug Development Corporation

#### **PURPOSE**

This Agreement is entered into on \_\_\_\_\_\_\_, by Valley of the Moon Water District (VOMWD) and Norman Krug-Krug Development Corporation, hereinafter collectively known as Parties, to outline the conditions, responsibilities and financial arrangements relating to the installation of certain water facilities at 155 W Verano Ave, Sonoma, CA 95476, APN 127-071-014 (Project).

#### **FACILITIES**

- 1. The water facilities upgrade consists of:
  - a. 4" service line
  - b. 3" domestic meter
  - c. 3" RP backflow preventer
  - d. 2" service line
  - e. 2" irrigation meter
  - f. 2" RP backflow preventer
  - g. 8" DCDA dedicated fire line
  - h. 5/8" meter
  - i. 12" PVC main on Verano Ave and tie into the Verano and Main intersection turnout per the approved plans (**Exhibit A**)
    - i. 12" main will replace a portion of existing 6" water main on Old Maple Ave
- 2. These facilities are all located on property owned by Norman Krug-Krug Development Corporation.
- 3. The mainline to be tapped is owned by VOMWD and is located on property owned by the County of Sonoma.
- 4. Installation of the facilities described in paragraph 1, above, is subject to the terms and conditions outlined herein.
- 5. The facilities described in paragraph 1, above, are an addition to VOMWD water service facilities currently in place to serve 155 W Verano Ave, Sonoma, CA 95476, APN 127-071-014.

#### CONSTRUCTION

Construction of the water facilities, addressed by this Agreement, shall be solely the responsibility of Norman Krug-Krug Development Corporation and its duly designated contractor per the following conditions:

- 1. All plans, materials and construction practices relating to the water facilities shall be approved by VOMWD prior to beginning the work and must incorporate the applicable portions of VOMWD's Specifications, attached hereto as **Exhibit B** and incorporated herein by reference.
- 2. Any difference between VOMWD's standards and the drawings included as **Exhibit A** or actual construction must be approved in writing by VOMWD.
- 3. Norman Krug-Krug Development Corporation shall be solely responsible for obtaining all permits needed to proceed with the construction of the water facilities.
- 4. Norman Krug-Krug Development Corporation shall provide reliable supervision of all work necessary to install the water facilities.
- 5. All work shall be done by a contractor licensed in accordance with the provisions of Division 3, Chapter 9, or the Business and Professions Code of the State of California. Norman Krug-Krug Development Corporation shall supply VOMWD with the name(s) and license number(s) of any and or all contractors employed to work on the Project.

#### INSPECTION

Norman Krug-Krug Development Corporation shall keep VOMWD informed of the progress of the work. VOMWD shall make inspections of the work, as it deems necessary. Under no circumstances shall any backfill be placed prior to inspection by VOMWD staff. Connection to VOMWD's mainline shall be made only under the direction of VOMWD staff.

#### **INDEMNIFICATION**

To the fullest extent permitted by law, Norman Krug-Krug Development Corporation shall indemnify and hold harmless and defend VOMWD, its directors, officers, employees, or volunteers, and each of them from and against:

- 1. Any and all claims, demands, causes of action, damages, costs, expenses, losses or liabilities, in law or in equity, of every kind and nature whatsoever for, but not limited to, injury to or death of any person including VOMWD and/or contractor, or any directors, officers, employees, or volunteers of VOMWD or contractor, and damages to or destruction of property of any person, including but not limited to, VOMWD and/or contractor or their directors, officers, employees, or volunteers, arising out of or in any manner directly or indirectly connected with the work to be performed under this agreement, however caused, regardless of any negligence of VOMWD or its directors, officers, employees, or volunteers, except the sole negligence or willful misconduct or active negligence of VOMWD or its directors, officers, employees, or volunteers;
- 2. Any and all actions, proceedings, damages, costs, expenses, penalties or liabilities, in law or equity, of every kind or nature whatsoever, arising out of, resulting from, or on account of the violation of any governmental law or regulation, compliance with which is the responsibility of Norman Krug-Krug Development Corporation;
- 3. Any and all losses, expenses, damages (including damages to the work itself), attorneys' fees, and other costs, including all costs of defense, which any of them may incur with respect to the failure, neglect, or refusal of Norman Krug-Krug Development Corporation to faithfully perform the work and all of the obligations under the contract. Such costs, expenses, and damages shall include all costs, including attorneys' fees, incurred by the indemnified parties in any lawsuit to which they are a party.

Norman Krug-Krug Development Corporation shall defend, at Norman Krug-Krug Development Corporation's own cost, expense and risk, any and all such aforesaid suits, actions or other legal proceedings of every kind that may be brought or instituted against VOMWD or VOMWD's directors, officers, employees, or volunteers.

Norman Krug-Krug Development Corporation shall pay and satisfy any judgment, award or decree that may be rendered against VOMWD or its directors, officers, employees, or volunteers, in any such suit, action or other legal proceeding.

Norman Krug-Krug Development Corporation shall reimburse VOMWD or its directors, officers, employees, or volunteers, for any and all legal expenses and costs incurred by each of them in connection therewith or in enforcing the indemnity herein provided.

Norman Krug-Krug Development Corporation agrees to carry insurance for this purpose. Norman Krug-Krug Development Corporation's obligation to indemnify shall not be restricted to insurance proceeds, if any, received by the VOMWD, or its directors, officers, employees or volunteers.

#### RELEASE OF LIENS

Norman Krug-Krug Development Corporation shall, upon the completion of all installations and work approval thereof by VOMWD, furnish VOMWD, on forms approved by VOMWD, a written release

executed by any contractor or other claimant to whom Norman Krug-Krug Development Corporation may have become indebted for labor and material, or otherwise, for any installation or work hereunder, as well as a written statement signed by Norman Krug-Krug Development Corporation stating there are no unpaid claims or demands against Norman Krug-Krug Development Corporation related to any installation of work hereunder.

#### EASEMENTS/TITLE TO FACILITIES

Title to and ownership of all facilities constructed hereunder by Norman Krug-Krug Development Corporation shall vest absolutely in VOMWD, upon completion and acceptance of such facilities by VOMWD.

Norman Krug-Krug Development Corporation agrees to convey, at no cost to VOMWD, a general service, non-exclusive public utility easement, wherever the water mains, service lines and appurtenant facilities are installed. The form of easement shall be satisfactory to VOMWD. No water service, other than water for construction or fire fighting purposes, shall be provided until all necessary easements are received by VOMWD.

#### **CONVEYANCE OF FACILITIES**

Upon satisfactory completion of the installation of the facilities, Norman Krug-Krug Development Corporation agrees that within thirty (30) days after notice from the VOMWD of its readiness to acquire the facilities, Norman Krug-Krug Development Corporation shall make, or cause to be made, execute, or cause to be executed, and deliver or have delivered, to the VOMWD, such instrument or instruments of conveyance in form and substance satisfactory to the VOMWD, conveying to the VOMWD, at no cost to the VOMWD, a good and sufficient title to the facilities, easements and rights of way as may be necessary or reasonably appropriate. Norman Krug-Krug Development Corporation warrants that the title to be conveyed to the VOMWD shall be free and clear of any and all liens, charges, and encumbrances, excepting only current taxes and assessments which may be a lien upon the facilities and that any taxes and assessments which may be assessed against, relate to, and constitute a lien upon the real property, easements, and rights of way, shall be prorated as of the date of conveyance. Provided Norman Krug-Krug Development Corporation is not in default hereunder, the VOMWD agrees that it shall give notice of readiness to acquire the facilities within a reasonable time after completion of the installation thereof.

#### PAYMENT OF COSTS

All costs for the permitting, design, construction and installation of the facilities authorized by this Agreement shall be the responsibility of Norman Krug-Krug Development Corporation. Norman Krug-Krug Development Corporation will pay VOMWD \$358,362, broken down as follows:

- 1. A flat fee of \$552 for agreement preparation
- 2. \$1,042 2" water meter charge
- 3. \$3,363 3" water meter charge
- 4. \$442 5/8" water meter charge
- 5. \$117,655 2" capacity fee
- 6. \$235,308 3" capacity fee

These fees are due and payable prior to execution of this Agreement by VOMWD. Additionally, Norman Krug-Krug Development Corporation shall pay VOMWD all fees and expenses associated with this project within 15 days of receipt of an invoice from VOMWD. These costs include:

- 1. Hourly charges for inspection, plan review and associated costs for VOMWD staff time.
- 2. Mileage and other equipment related costs incurred by VOMWD in the course of inspecting or otherwise working on this project.
- 3. Legal, engineering or other consultant charges incurred by VOMWD in dealing with this project.

This Agreement constitutes compliance with Government Code sections 54999 et seq.

#### **INSURANCE**

Norman Krug-Krug Development Corporation and its contractor(s) shall provide evidence of insurance, satisfactory to VOMWD, as described in **Exhibit C**, attached hereto and incorporated herein by reference.

#### **GUARANTEE/BOND**

Norman Krug-Krug Development Corporation shall guarantee all work performed by Norman Krug-Krug Development Corporation's contractor for a period of one (1) year from the date of official acceptance by VOMWD.

#### RESALE OF WATER PROHIBITED

Norman Krug-Krug Development Corporation shall not resell any water furnished pursuant to this Agreement.

#### **ENTIRE AGREEMENT**

This Agreement and its exhibits constitute the final, complete, and exclusive statement of the terms of the agreement between the Parties and supersedes all prior and contemporaneous understandings or agreements of the Parties. No party has been induced to enter into this by, nor is any party relying on, any representation or warranty outside those expressly set forth in the Agreement.

#### **SEVERABILITY**

If a court or arbitrator of competent jurisdiction holds any provision of this Agreement to be illegal, unenforceable, or invalid in whole or in part for any reason, the validity and enforceability of the remaining provisions, or portions of them, shall not be affected.

#### SEPARATE WRITINGS AND EXHIBITS

The following exhibits constitute a part of this Agreement and are incorporated into this Agreement by this reference:

Exhibit "A" – Approved Plans for Project Exhibit "B" – VOMWD Specifications Exhibit "C" – Insurance Requirements

Should any inconsistency exist or arise between a provision of this Agreement and a provision of any exhibit, schedule or other incorporated writing, the provision of this Agreement shall prevail, except as otherwise expressly provided in such exhibit (see, e.g. Exhibit "B").

#### WAIVER

No waiver of a breach, failure of any condition, or any right to remedy contained in or granted by the provisions of this Agreement shall be effective unless it is in writing and signed by the party waiving the breach, failure, right or remedy. No waiver of any breach, failure, right or remedy shall be deemed a waiver of any other breach, failure, right or remedy, whether or not similar, nor shall any waiver constitute a continuing waiver unless the writing so specifies.

#### **SECTION HEADINGS**

The headings in the Agreement are included for convenience only and shall not affect the construction or interpretation of any provision of this Agreement nor affect any of the rights or obligations of the Parties

#### **AMBIGUITIES**

Any rule of construction to the effect that ambiguities are to be resolved against the drafting party shall not apply in interpreting this Agreement.

#### DISPUTE RESOLUTION

- a. <u>Arbitration Required</u>. The Parties shall submit all disputes relating to this Agreement whether contract, tort, or both, to binding arbitration, in accordance with the California Code of Civil Procedure (CCP) sections 1280 through 1294.2. Either party may enforce the award of the arbitrator under section 1285 of the CCP. The Parties understand that they are waiving their right to a jury trial.
- b. <u>Applicable Rules</u>. Any controversy or claim relating to this Agreement, whether contract, tort, or both, or the breach of this Agreement, shall be arbitrated by and in accordance with the American Arbitration Association ("AAA") Construction Industry despite resolution procedures.
- c. <u>Attorneys' Fees</u>. Each party shall bear its own costs and attorneys' fees, except that the arbitrator's fee shall be divided equally between the Parties. If legal action in court is necessary to enforce the terms of this Agreement or an arbitrator's judgment or award, the prevailing party in that legal action is entitled to reasonable attorneys' fees and court costs.

#### **NOTICES**

For notice purposes, the names and address of the PARTIES are: Norman Krug-Krug Development Corporation; and VOMWD, VALLEY OF THE MOON WATER DISTRICT, P.O. BOX 280, EL VERANO, CA 95433-0280.

- a. All notices, requests, demands, or other communications under this Agreement shall be in writing. Notice shall be sufficiently given for all purposes as follows:
  - (1) Personal delivery. When personally delivered to the recipient. Notice is effective on delivery.
  - (2) First-class mail. When mailed first class to the last address of the recipient known to the party giving notice. Notice is effective three mail delivery days after deposit in a United States Postal Service office or mailbox.
  - (3) Certified mail. When mailed certified mail, return receipt requested. Notice is effective on receipt, if delivery is confirmed by a return receipt.
  - (4) Overnight delivery. When delivered by overnight delivery (such as Federal Express/Airborne/United Parcel Service/DHL Worldwide Express), charges prepaid or charged to the sender's account. Notice is effective on delivery, if delivery is confirmed by the delivery service.
  - (5) Telex or facsimile transmission. When sent by telex or fax to the last telex or fax number of the recipient known to the party giving notice. Notice is effective on receipt, provided that (a) a duplicate copy of the notice is promptly given by first-class or certified mail or by overnight delivery, or (b) the receiving party delivers a written confirmation of receipt. Any notice given by telex or fax shall be deemed received on the next business day if it is received after 5:00 p.m. (recipient's time) or on a non-business day.

- b. Any correctly addressed notice that is refused, unclaimed, or undeliverable because of an act or omission of the party to be notified shall be deemed effective as of the first date that said notice was refused, unclaimed, or deemed undeliverable by the postal authorities, messenger, or overnight delivery service.
- c. Any party may change its address or telex or fax number by giving the other party notice of the change in any manner permitted by this Agreement.

#### **MODIFICATION**

This Agreement may be supplemented, amended, or modified only by the mutual agreement of the Parties. No supplement, amendment, or modification of this Agreement shall be binding unless it is in writing and signed by the party to be charged.



IN WITNESS WHEREOF: The Parties hereto have executed this Agreement in duplicate the day and year first above written.

A notary public or other officer completing this the identity of the individual who signed the certificate is attached, and not the truthfulness that document.	e document to which this
State of California County of Sonoma	
Subscribed and sworn to (or affirmed) before me of	on this day of, 20, by
evidence to be the person(s) who appeared before me.	, proved to me on the basis of satisfactory
(Seal) Signature_	2
Representative of	Representative of Valley of the Moon Water District
Signature:	Signature:
Printed Name:	Printed Name:
Title:	Title:
Date:	Date:

NOTE: If the APPLICANT executing this agreement is a corporation, a certified copy of the bylaws or resolutions of the Board of Directors of said corporation authorizing designated officers to execute this agreement shall be provided to DISTRICT.

## VALLEY OF THE MOON WATER DISTRICT WATER MAIN CONSTRUCTION NOTES:

THE EXISTING UNDERGROUND UTILITIES ARE PLOTTED FROM AVAILABLE RECORDS. THE CONTRACTOR SHALL PROTECT THESE EXISTING UTILITIES AND SHALL DO NO EXCAVATION UNTIL ALL UTILITY AGENCIES HAVE MARKED THEIR FACILITIES IN THE FIELD. CALL UNDERGROUND SERVICE ALERT (48 HOURS NOTICE REQUIRED) (800) 227-2600 OR 811.

- THE LOCATIONS OF ALL EXISTING UTILITIES OR OTHER UNDERGROUND OBSTRUCTIONS SHOWN ON THE PLANS ARE APPROXIMATE ONLY AND SHOULD NOT BE TAKEN AS FINAL OR ALL INCLUSIVE. THE CONTRACTOR IS CAUTIONED THAT THE PLANS MAY NOT INCLUDE THE LOCATION OF ALL UNDERGROUND OBSTRUCTIONS WHICH MAY BE ENCOUNTERED
- PRIOR TO CONSTRUCTION OF ANY UNDERGROUND UTILITIES, INCLUDING WATER, SEWER AND STORM DRAINS, THE CONTRACTOR SHALL EXPOSE ALL EXISTING UTILITY FACILITIES WHICH ARE TO BE CONNECTED TO OR CROSSED AND THE ENGINEER SHALL VERIFY THEIR

- ALL WATER SYSTEM WORK SHALL CONFORM TO THE STANDARDS OF THE VALLEY OF THE MOON WATER DISTRICT. CONTRACTOR SHALL CONTACT THE VALLEY OF THE MOON WATER DISTRICT (996-1037) 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR A PRE-CONSTRUCTION MEETING AND INSPECTION. AS ALL WATER MAIN CONSTRUCTION MUST BE INSPECTED BY TH VALLEY OF THE MOON WATER DISTRICT. IN THE EVENT OF ANY BREAKS IN THE CONSTRUCTION PROCESS, CONTRACTOR SHALL CONTACT VALLEY OF THE MOON WATER DISTRICT 24 HOURS PRIOR TO RECOMMENCEMENT OF CONSTRUCTION.
- CONSTRUCTION OF WATER FACILITIES SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF THE VALLEY OF THE MOON WATER
- CONTRACTOR, WHEN APPLYING FOR ENCROACHMENT PERMIT WITH CALTRANS, SHALL INDICATE ON THE PERMIT THAT
- CONTRACTOR SHALL OBTAIN ALL PERMITS AND PAY ALL FEES TO ALL RELATED AGENCIES PRIOR TO COMMENCEMENT OF ANY WORK WATER CONSTRUCTION, TESTING, CLEANING, AND DISINFECTION SHALL BE SUBJECT TO INSPECTION AND APPROVAL OF THE VALLEY C THE MOON WATER DISTRICT. PRESSURE / LEAKAGE TESTS SHALL NOT BE MADE UNTIL A MINIMUM 72 HOURS AFTER THE LAST
- ALL FLUSHING, TESTING AND DISINFECTION OF WATER MAINS SHALL BE COMPLETED PRIOR TO CONNECTING TO EXISTING WATER MAINS. THE CONTRACTOR SHALL DISINFECT THE NEWLY INSTALLED PIPELINE BY USE OF HTH TABLETS. TABLETS SHALL BE ATTACHED TO THE CROWN OF THE PIPE AT EACH JOINT WITH TYTON PIPE LUBRICANT, OR EQUAL, AS FOLLOWS:

PIPE SIZE	# OF TABLETS	PIPE SIZE	# OF TABLETS
4"	1	16"	8
6"	1	20"	12
8"	2	24"	18
12"	4	30"+	AS APPROVED

THE PIPELINE SHALL BE SLOWLY FILLED TO ALLOW PROPER CIRCULATION OF THE HTH AND THE SOLUTION SHALL BE ALLOWED T MOON WATER DISTRICT.

- CONTRACTOR SHALL PROVIDE VALLEY OF THE MOON WATER DISTRICT REPRESENTATIVES WITH A VALID COPY OF A "CALIFORNIA
- CONSTRUCTION OF WATER FACILITIES SHALL BE IN COMPLIANCE WITH BASIC SEPARATION STANDARDS "CALIFORNIA WATER WORKS
- 44" FOR 12" MAINS, AND 48" FOR 14" AND LARGER MAINS. 4" AND 10" MAINS MUST BE SPECIFICALLY APPROVED BY THE VALLEY OF THE MOON WATER DISTRICT. 6" AND 8" MAIN LINE VALVES SHALL BE RESILIENT SEAT GATE VALVES WITH TOTALLY ENCAPSULATED
- SHALL BE EXTENDED TO THE SURFACE AT ALL VALVE LOCATIONS, BLOWOFFS AND METER BOXES SUFFICIENTLY FOR LOCATOR AFFIX THE WIRE TO THE TOP OF THE PIPE WITH DUCT TAPE AT APPROXIMATELY 5 FEET INTERVALS. SPLICE CONNECTIONS TO BI MADE COPPER OR BRASS SPLIT BOLTS, WRAPPED WITH ELECTRICAL TAPE.
- ALL EXPOSED BOLTS INSTALLED UNDERGROUND SHALL BE STAINLESS STEEL OR STEEL COATED WITH A FLUOROPLOYMER COATING AND
- BYPASSING METER FOR TESTING ON-SITE PLUMBING OR FOR OBTAINING CONSTRUCTION WATER. PRESSURE TESTING AGAINST VALVES WILL ALSO NOT BE ALLOWED. WHEN A SUBDIVISION WATER MAIN HAS BEEN ACCEPTED AND TIED-IN, THE INDIVIDUAL CURB STOPS WILL BE LOCKED OFF WITH CABLE TIES. CUTTING OFF OR TAMPERING WITH THE CABLE TIES WILL CONSTITUTE A STRAIGHT TIE-IN CONNECTION. SUCH CONNECTIONS SHALL BE SEVERED BY THE DISTRICT AND WILL RESULT IN PENALTIES INCLUDING PAYMENT ( FINES AND ESTIMATED WATER USAGE FEES.
- IB. SERVICE LATERALS OTHER THAN THOSE SHOWN OR NOTED ON THE PLANS SHALL NOT BE INSTALLED PRIOR TO OBTAINING DISTRICT
- 19. WATER AND SEWER SERVICE LATERALS SHALL BE SEPARATED HORIZONTALLY BY A MINIMUM OF 5 FEET.
- O. METER MANIFOLDS MUST BE DETAILED AND APPROVED BY THE DISTRICT. IN GENERAL, MANIFOLDS WHERE ALL FITTINGS ARE 2" OR LESS, SHALL BE CONSTRUCTED FROM THREADED BRASS PIPE AND FITTINGS FROM THE END OF THE SERVICE LATERAL TO THE METER CONNECTION. NO PLASTIC PIPE SHALL BE USED IN CONSTRUCTION MANIFOLDS OF ANY SIZE. NO MORE THAN SIX METERS MAY BE MANIFOLDED OFF A SINGLE WATER SERVICE LATERAL, WITH NO MORE THAN 3 ON EITHER SIDE OF THE SERVICE.
- ALL METER BOXES, VAULTS AND PITS SHALL BE BEDDED ON 3" MINIMUM THICK, 3/4" DRAIN ROCK BED AGAINST COMPACTED OF UNDISTURBED BASE. THE GRAVEL BED SHALL EXTEND TO 4" MINIMUM BEYOND ALL SIDES OF THE METER BOX. BOX SHALL BE SET FLUSH WITH TOP OF CURB, SIDEWALK OR GROUND, WHICHEVER IS APPLICABLE. LOT NUMBERS MUST BE NOTED ON TOP SIDE OF METER BOX WITH PERMANENT MARKING PEN.
- 22. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE DISTRICT AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THE PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DISTRICT OF THE
- TREES SHALL NOT BE REMOVED, UNLESS OTHERWISE SHOWN, WITHOUT AUTHORIZATION BY THE DISTRICT. ROOTS LARGER THAN 2 INCHES IN DIAMETER SHALL NOT BE CUT; TUNNELING UNDER LARGE ROOTS MAY BE REQUIRED. DAMAGE TO LIMBS, TRUNKS OR ROOTS SHALL BE REPAIRED BY QUALIFIED PERSONNEL.
- WATER MAINS SHALL BE INSTALLED IN STRAIGHT ALIGNMENTS BETWEEN FITTINGS. CURVED MAINS SHALL REQUIRE PRIOR DISTRICT APPROVAL. THE RADIUS OF CURVED MAINS SHALL NOT EXCEED THE PIPE MANUFACTURER'S RECOMMENDED LIMITS. FITTING SHALL BE REQUIRED WHERE THE RADIUS EXCEEDS THE LIMITS, OR IF PRIOR DISTRICT APPROVAL FOR CURVED MAINS WAS NOT OBTAINED.

## **GENERAL NOTES:**

APPLICABLE WASTE-DISPOSAL REGULATIONS.

WITNESSED BY THE INSPECTOR OF THE RECORD.

SUFFICIENT.

ALL PRIVATE WATER LINES AND FITTINGS 2" OR LESS IN DIAMETER SHALL HAVE A PRESSURE RATING OF AT LEAST 200 PSI AND SHALL BE PVC SCHEDULE 80 MEETING ASTM D1784, ASTM D1785, ASTM D2467, NSF 14/61, AND AWWA C901 STANDARDS; OR POLYETHYLENE PIPE MEETING ASTM D3350, NSF14/61, AND AWWA C901 STANDARDS. POLYETHYLENE TUBING SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

ALL WATER LINES SHALL MAINTAIN AT LEAST 10' HORIZONTAL DISTANCE TO SEWER LINES, MEASURE FROM PIPE OUTER WALL.

PRIOR TO START OF WORK, CONTRACTOR SHALL REVIEW BUILDING PLUMBING PLANS AND INFORM ENGINEER IF POINTS OF CONNECTION ARE DIFFERENT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES WITH APPROPRIATE AGENCIES PRIOR TO CONSTRUCTION. EXCESS MATERIAL FROM EXCAVATION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL

THE CONTRACTOR SHALL SCHEDULE TIE-IN WORK WITH THE PUBLIC WORKS & UTILITIES DEPARTMENT. TIE-INS WILL NOT BE SCHEDULED UNTIL THE PUBLIC WORKS & UTILITIES DEPARTMENT HAS RECEIVED A WRITTEN PASSING BACTERIA TEST. A MINIMUM OF 48 HOURS PRIOR NOTICE IS REQUIRED. EXISTING IMPROVEMENTS OR APPURTENANCES THAT BECOME CUT OR DAMAGED IN ORDER TO CONSTRUCT THE PROPOSED IMPROVEMENTS SHALL BE RESTORED TO THEIR ORIGINAL OR IMPROVED CONDITIONS.

WATER LINES, FIRE DEPARTMENT CONNECTIONS, AND EQUIPMENT ARE SHOWN FOR LOCATION AND COORDINATION PURPOSES ONLY. THE INSTALLING CONTRACTOR SHALL INCLUDE ALL NECESSARY VALVES, PIPING AND APPURTENANCES IN ORDER TO MAKE THE SYSTEM COMPLETE, OPERATIONAL, AND IN CONFORMANCE WITH THE APPROVED FIRE PROTECTION DESIGN AND WITH ALL APPLICABLE CODES AND STANDARDS

THE DEPTH OF COVER OVER WATER PIPES SHALL BE NOT LESS THAN 2'-6"TO PREVENT MECHANICAL DAMAGE AND SHALL BE BURIED A MINIMUM OF 3'-0"UNDER DRIVEWAYS.

). PIPE INSTALLED UNDER THE BUILDING OR BUILDING FOUNDATION SHALL NOT CONTAIN MECHANICAL JOINTS. IF PENETRATION OF FOUNDATION, FLOOR OR PAVEMENT IS REQUIRED, PROVIDE MINIMUM 2 INCHES OF ANNULAR CLEARANCE WITH SLEEVE AROUND ENTIRE PIPE PENETRATION. UNDERGROUND PIPING SHALL BE COMPLETELY FLUSHED BEFORE THE CONNECTION IS MADE TO DOWNSTREAM DOMESTIC AND FIRE PROTECTION SYSTEM

PIPING TO REMOVE FOREIGN MATERIALS THAT MIGHT HAVE ENTERED DURING THE COURSE OF THE INSTALLATION AND RUN UNTIL WATER RUNS CLEAR,

ALL PIPING AND ATTACHED APPURTENANCES SUBJECTED TO SYSTEM WORKING PRESSURE SHALL BE HYDROSTATICALLY TESTED AT 200-PSI PRESSURE AND MAINTAINED FOR A MINIMUM OF TWO HOURS, WITNESSED BY THE INSPECTOR OF RECORD. ALL JOINTS SHALL REMAIN EXPOSED DURING TESTING.

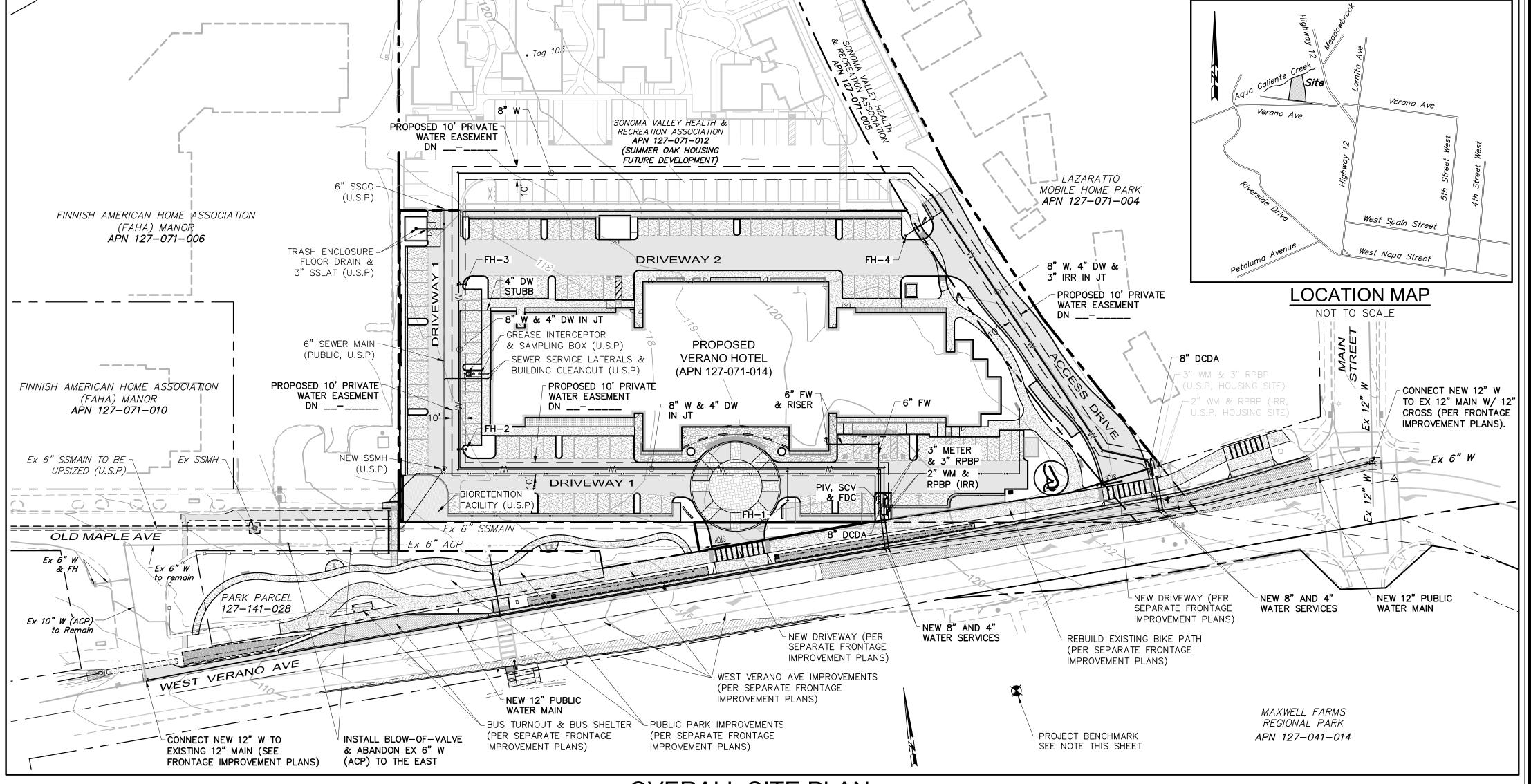
3. THE USE OF STEEL PIPE IS NOT PERMITTED ON DOMESTIC MAINS, FIRE MAINS OR SPRINKLER SERVICES. . FOLLOWING COMPLETION OF INSTALLATION, ALL UNDERGORUND WATER PIPING SHALL BE FLUSHED WITH WATER AT A VELOCITY OF 10 FEET PER

PRIOR TO START OF WORK, CONTRACTOR SHALL VERIFY WITH FIRE SPRINKLER CONSULTANT THAT THE 4" FIRE LINE TO SERVE FIRE SPRINKLERS IS

## VERANO HOTEL - PRIVATE WATER IMPROVEMENTS

## 155 WEST VERANO AVENUE

Sonoma, California APN 127-071-014



## **OVERALL SITE PLAN**

	AREA DRAIN	МН	MANHOLE			
	BEGIN CURVE	MIN	MINIMUM			
R	BEGIN CURVE RETURN	NTS	NOT TO SCALE		LECEND	
DG	BUILDING	NO	NUMBER		LEGEND	<u>.</u>
С	BEGIN OF VERTICAL CURVE	PCC	POINT OF COMPOUND CURVE		EVICTINO	DECODIDATION
	CATCH BASIN	PL	PROPERTY LINE	<u>PROPOSED</u>	<u>EXISTING</u>	<u>DESCRIPTION</u>
	CLASS	PIV	POST-INDICATOR VALVE			PROPERTY BOUNDARY
	CENTERLINE	PP	POWER POLE			SANITARY SEWER & MANHOLE
	CLEANOUT	PRC	POINT OF REVERSE CURVE			SANITARY SEWER & CLEANOUT
NC	CONCRETE	PUE	PUBLIC UTILITY EASEMENT	esco		
DA	DOUBLE-CHECK DETECTOR	RCE	REGISTERED CIVIL ENGINEER			STORM DRAIN & MANHOLE
	CHECK VALVE ASSEMBLY	S	SLOPE	<b>——[]</b>		STORM DRAIN & DRAINAGE INLET (D
	DROP INLET	SAP	SEE ARCHITECTURAL PLANS			STORM DRAIN & AREA DRAIN (AD)
'G	DRAWING	SD	STORM DRAIN	•		ROOF DRAIN & DOWN SPOUT (DS)
Υ	DRIVEWAY	SLP	SEE LANDSCAPE PLANS	<b>-···</b> -•		ROOF DRAIN & DOWN SPOOT (DS)
	END CURVE	SO	SIDE OPENING	<del></del> ⊠ <b>-</b>	<b>—</b> — — — ⊠	WATER SERVICE / WM
R	END CURVE RETURN	SPP	SEE PLUMBING PLANS	IW		WATER MAIN A CATE WALVE
	EXISTING GROUND	SS	SANITARY SEWER		_	WATER MAIN & GATE VALVE
	ELEVATION	SSP	SEE STRUCTURAL PLANS	<b>─</b>		FIRE HYDRANT
	EDGE OF PAVEMENT	STA	STATION		Ď,	UTILITY POLE W/WO GUY WIRE
МТ	EASEMENT	STD	STANDARD	(x)	,	,
С	END OF VERTICAL CURVE	TC	TOP OF CURB	CYY		DETAIL X ON SHEET CY.Y
	EXISTING	TYP	TYPICAL	GB		GRADE BREAK
С	FIRE DEPARTMENT CONNECTION	U.S.P	UNDER SEPARATE PERMIT	<u> </u>		
	FLOWLINE	VC	VERTICAL CURVE			

LINEAR FEET

MATCH EXISTING

VERIFY IN FIELD

WATER DISTRICT

VOTMWD VALLEY OF THE MOON

WATER METER

WATER VALVE

WATER

MAXIMUM

MAX

**ABBREVIATIONS** 

ADOBE ASSOCIATES, INC.

AGGREGATE BASE

FINISH GRADE

FIRE HYDRANT

GRADE BREAK

INVERT GRADE

GRATE

GB

FINISHED SURFACE

BCR

ASPHALT CONCRETE

**OWNER INFO** NORMAN KRUG KRUG DEVELOPMENT CORP. 550 SECOND STREET WEST SONOMA, CA 95476 (707) 481-9653 ÉMAIL: KRUGSPLACE@AOL.COM

## PROJECT ARCHITECT

JMA ARCHITECTURE 115 4TH ST SUITE A SANTA ROSA, CA 95401 (707) 578-4525

## LANDSCAPE ARCHITECT

LORI CAGWIN 11 JASMINE STREET YOUNTVILLE, CA 94599 (707) 945-0835

## CIVIL ENGINEER & LAND SURVEYOR

ADOBE ASSOCIATES, INC. 1220 N. DUTTON SANTA ROSA, CA 95401 (707) 541-2300

## GEOTECHNICAL ENGINEER

PJC & ASSOCIATES, INC. 600 MARTIN AVE, SUITE 210 ROHNERT PARK, CA 94928 (707) 584-4804

## SHEET INDEX

1. W1.0 TITLE SHEET & NOTES 2-4. W2.0-2.2 WATER IMPROVEMENT PLAN & PROFILE 5-6. W3.0-3.1 TYPICAL DETAILS

## PROJECT BENCHMARK

ELEVATION = 120.0' THIS ELEVATION IS ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), BASED ON THE NGS PUBLISHED ELEVATION OF 120.0' TOP OF BRASS DISK, PID JT9620, CA-HPGN DENSIFICATION STATION 04-LF LOCATED NEAR THE ENTRANCE TO MAXWELL FARMS REGIONAL PARK.

## **PURPOSE STATEMENT:**

THIS PROJECT PROPOSES CONSTRUCTION OF PRIVATE WATER SERVICES (FIRE, DOMESTIC AND IRRIGATION) FOR A PROPOSED HOTEL BUILDING AND A FUTURE HOUSING DEVELOPMENT SITE.

THE NEW WATER SERVICES WILL CONNECT TO A NEW 12" PUBLIC WATER MAIN TO BE CONSTRUCTED ON WEST VERANO AVENUE PER SEPARATE PUBLIC IMPROVEMENT PLANS AND.

APPROVED FOR WATER SYSTEM CONSTRUCTION ONLY:

VALLEY OF THE MOON WATER DISTRICT

DATE

of 6 Sheets

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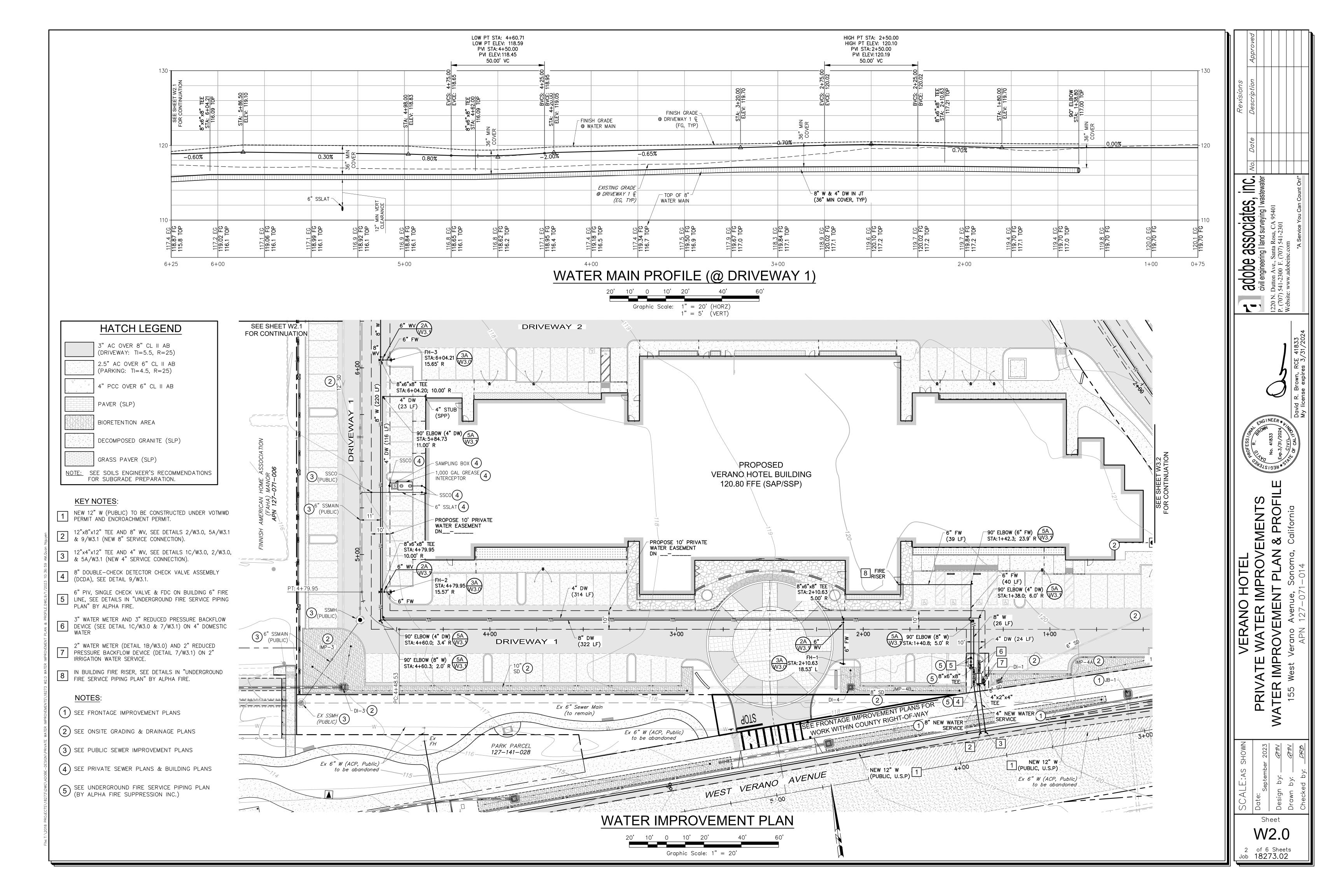
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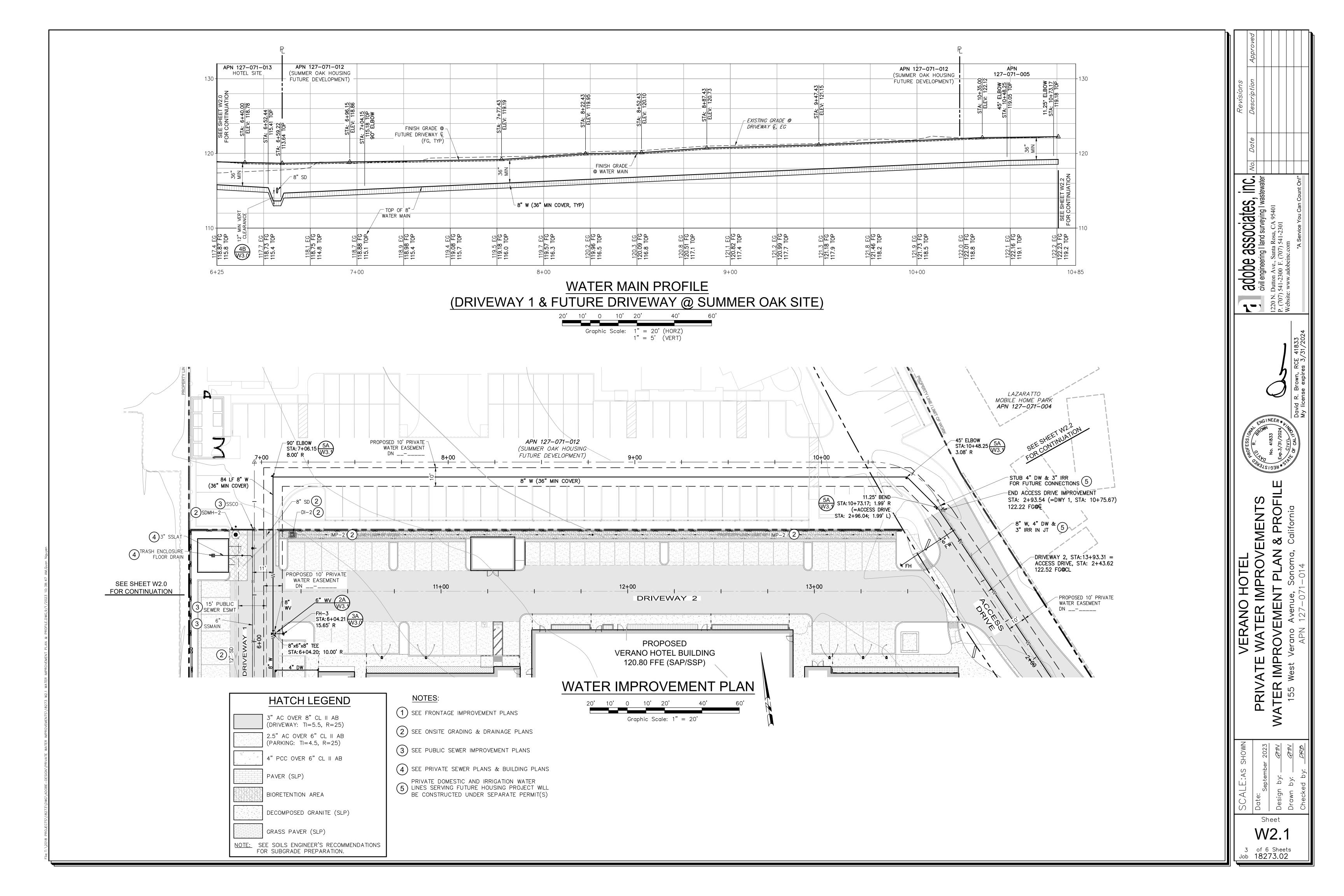
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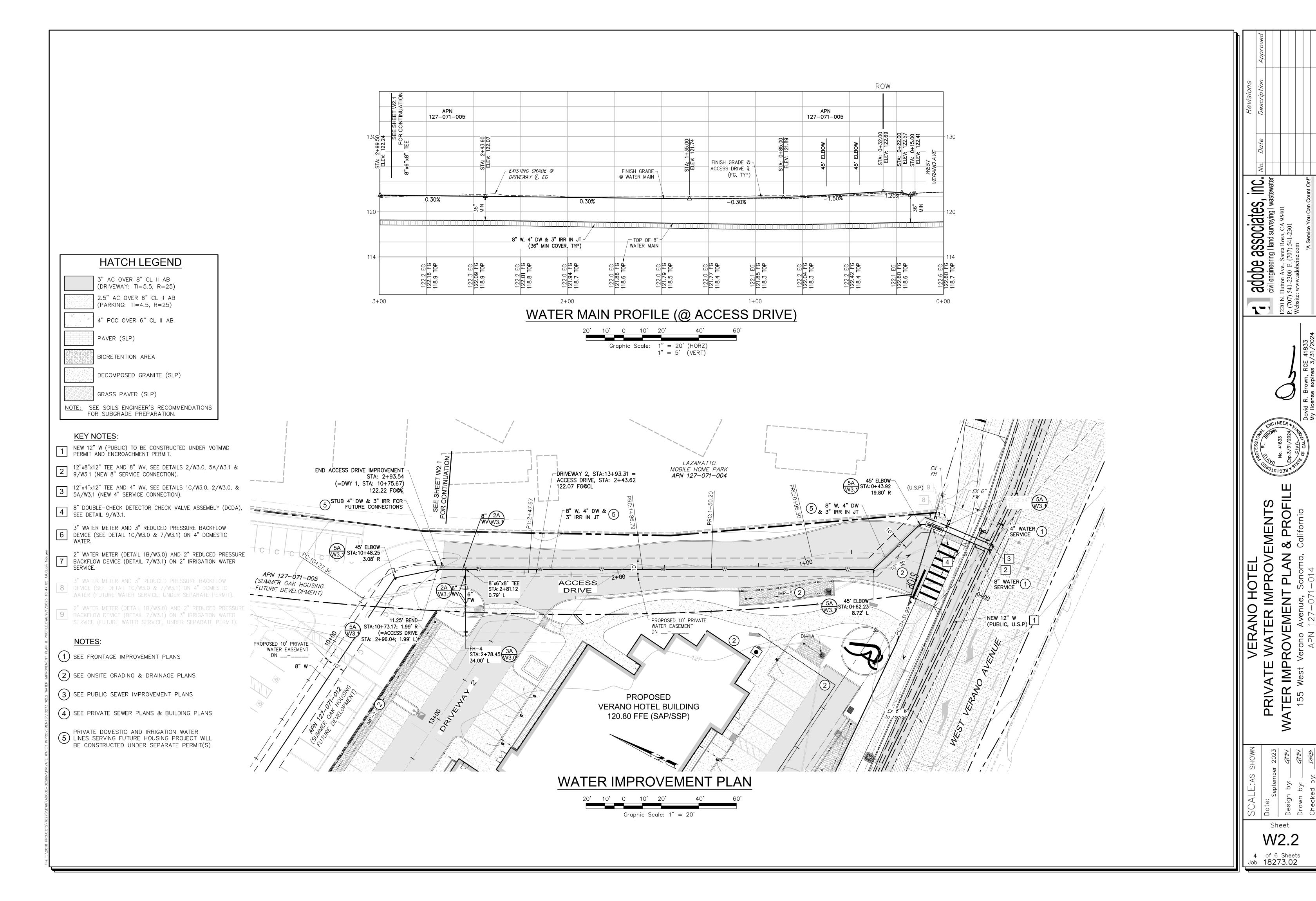
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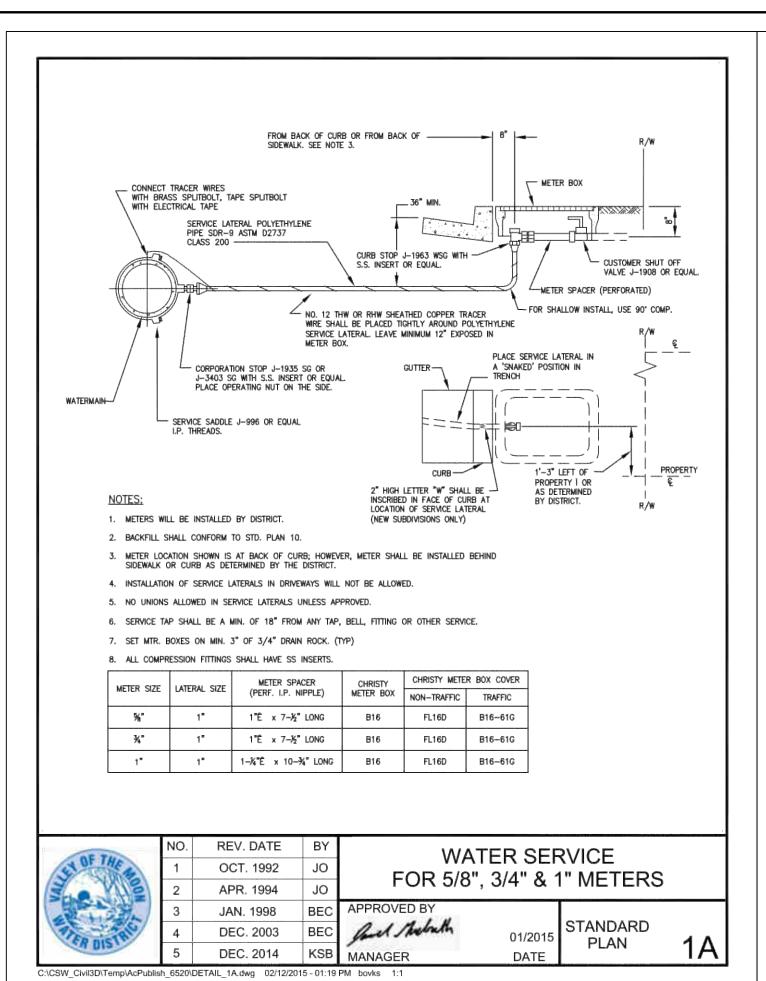
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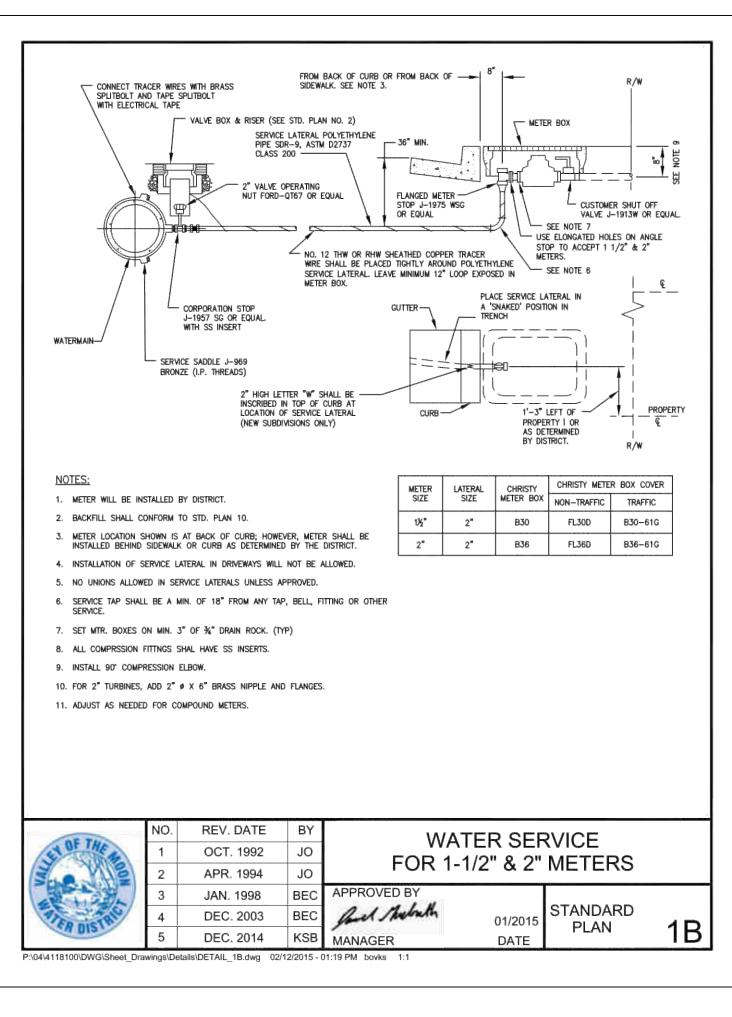


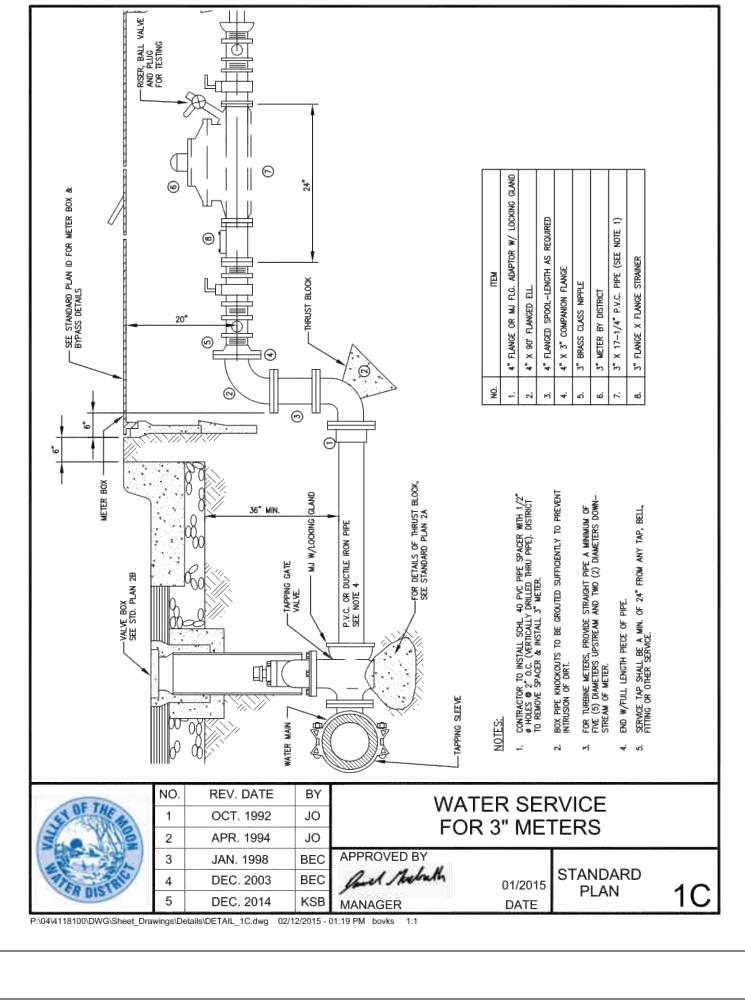


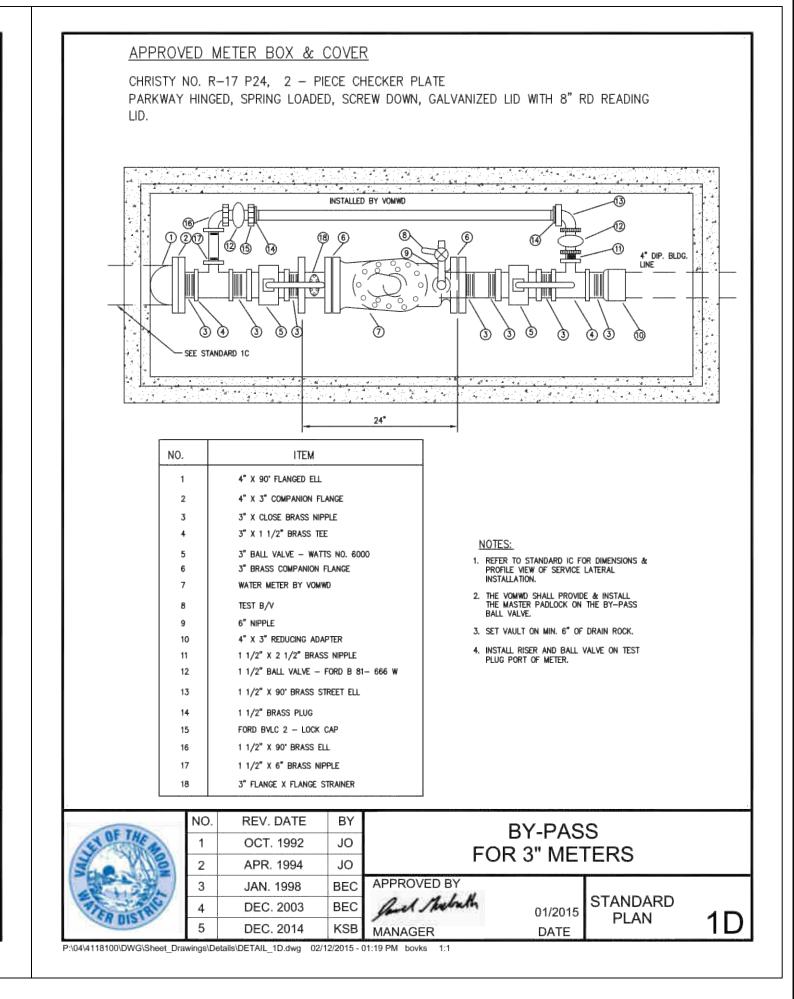


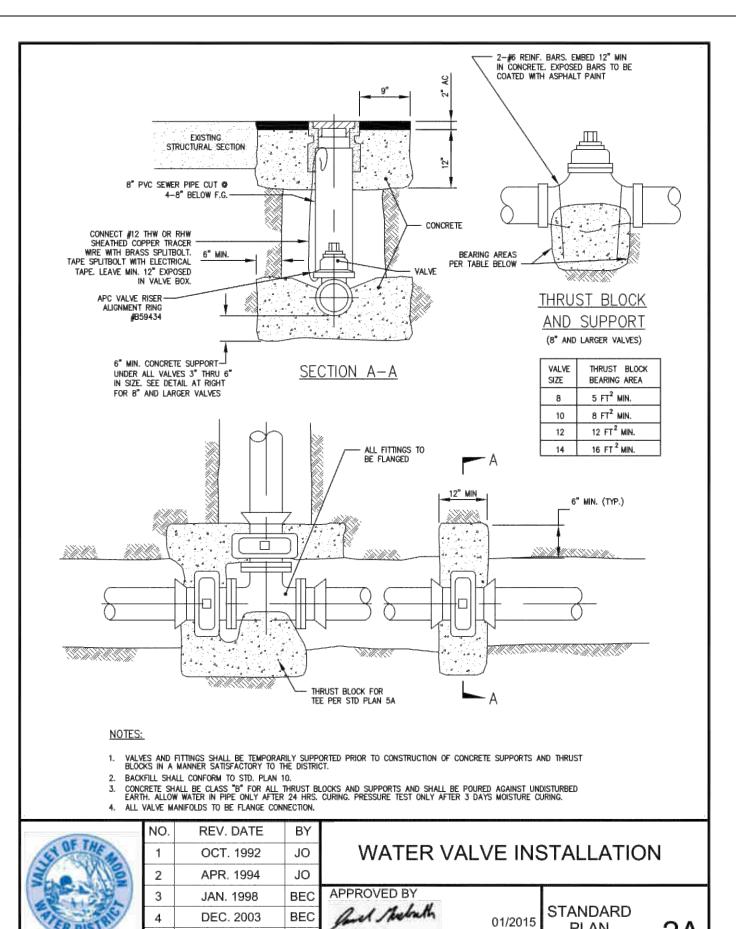
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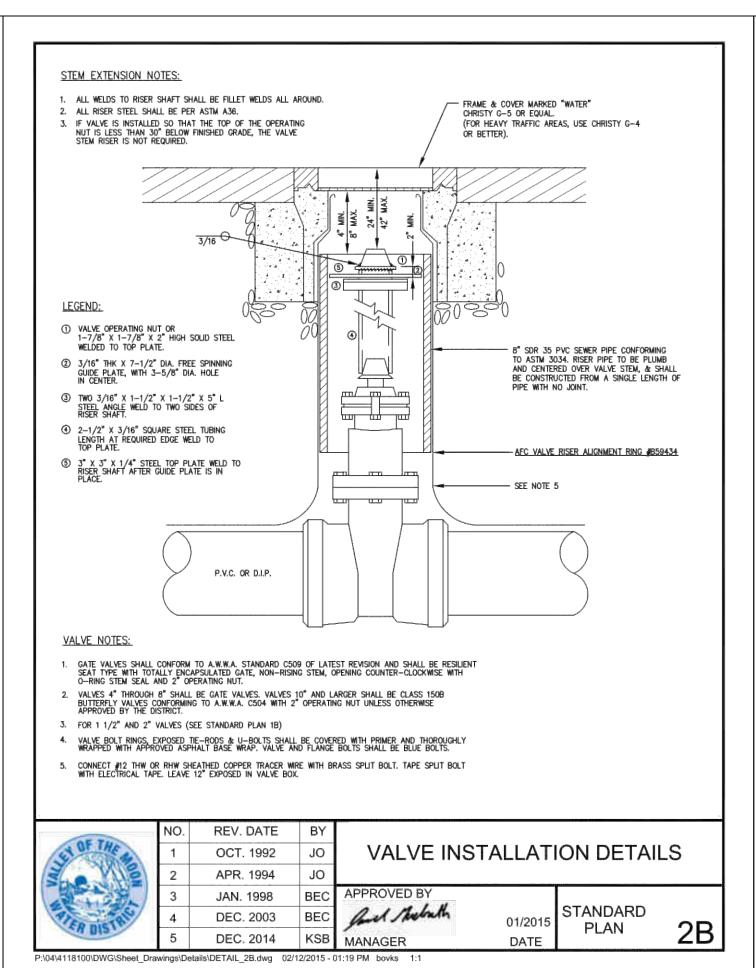


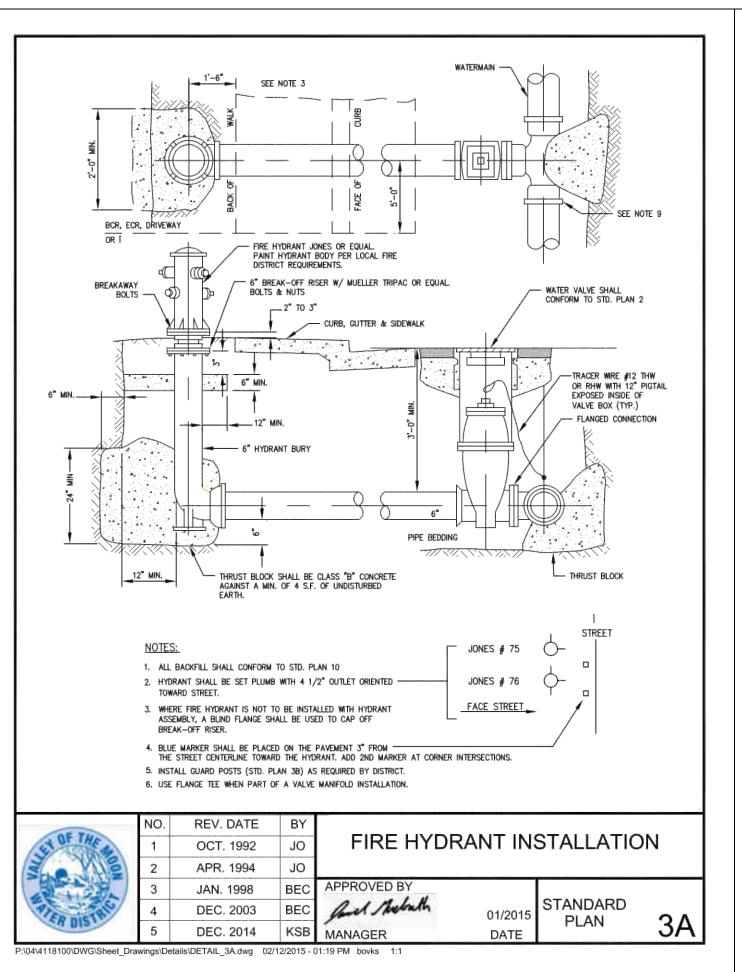
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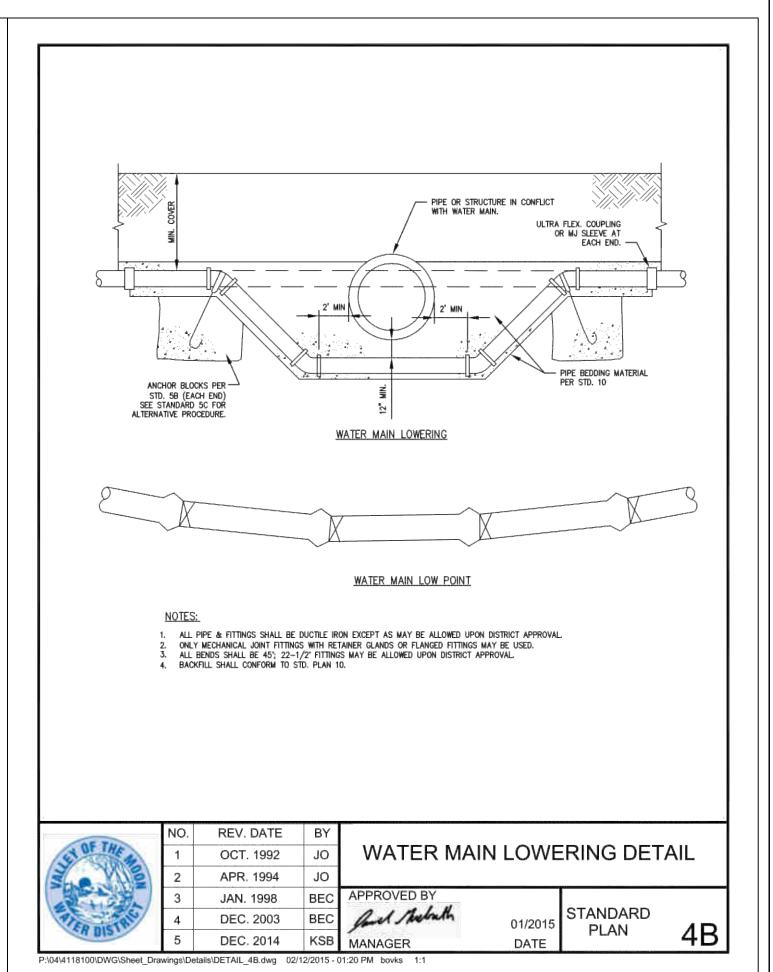
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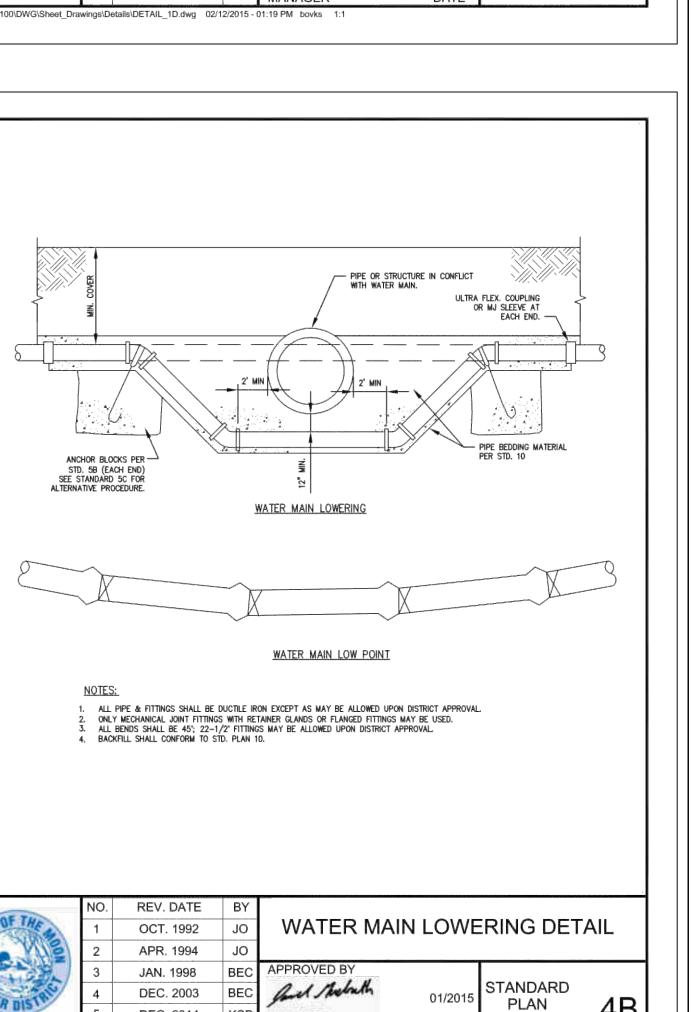
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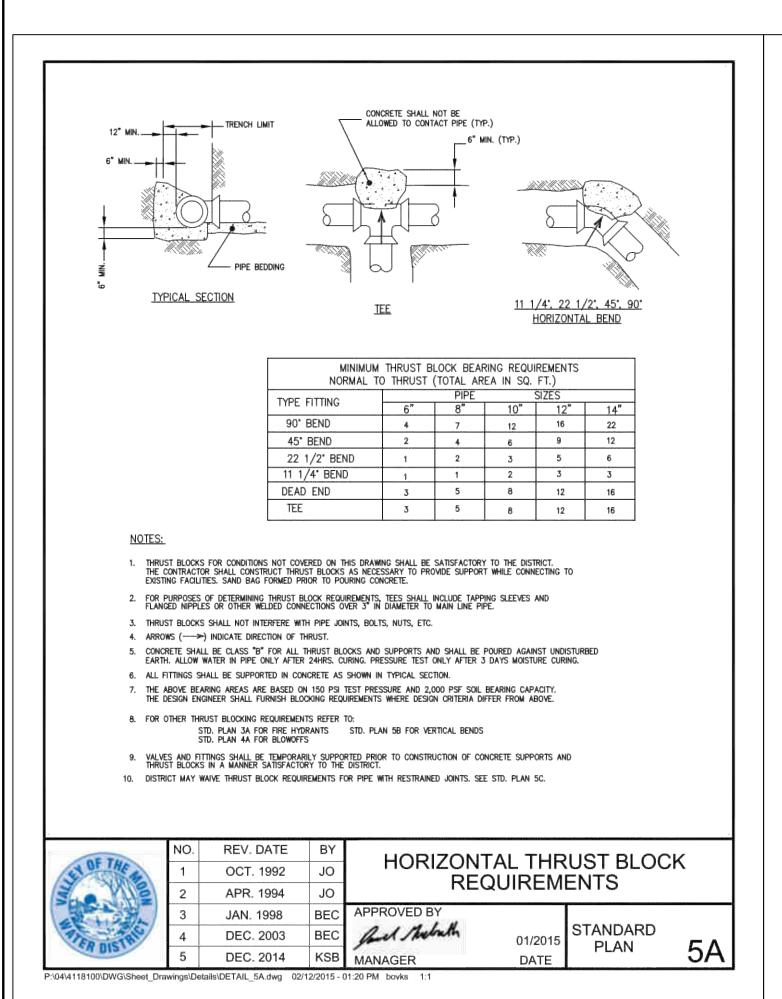
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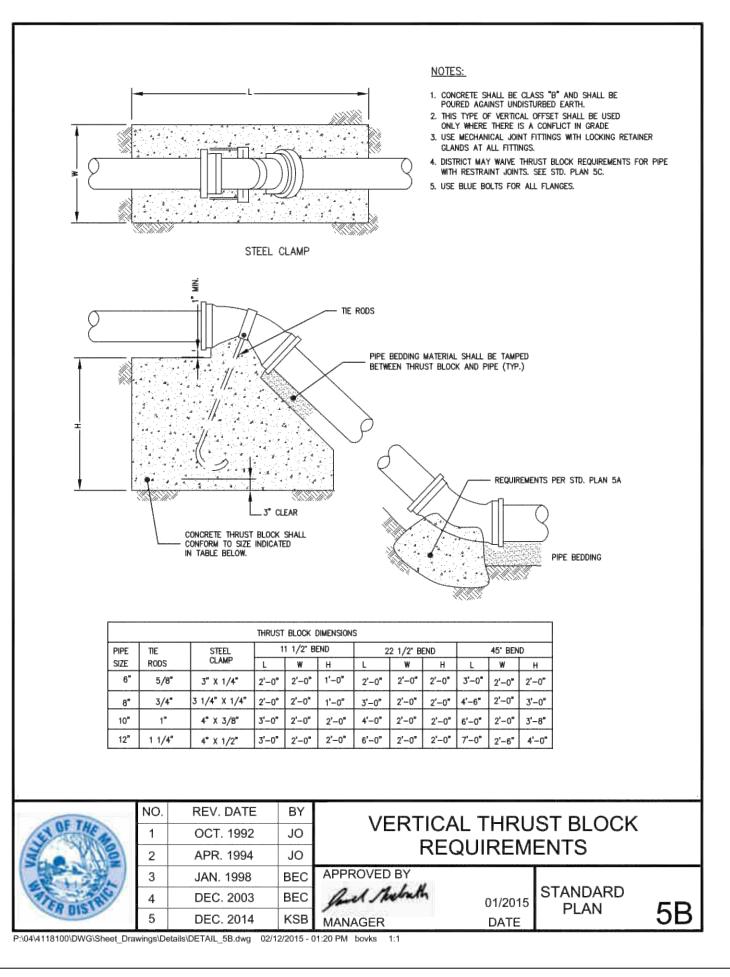
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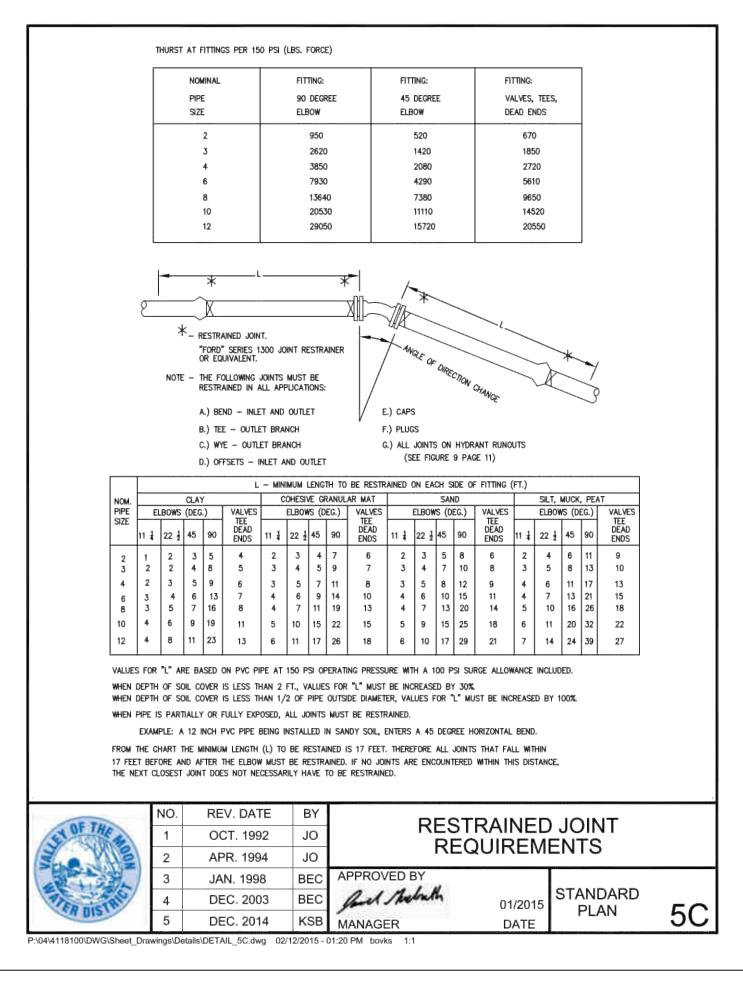
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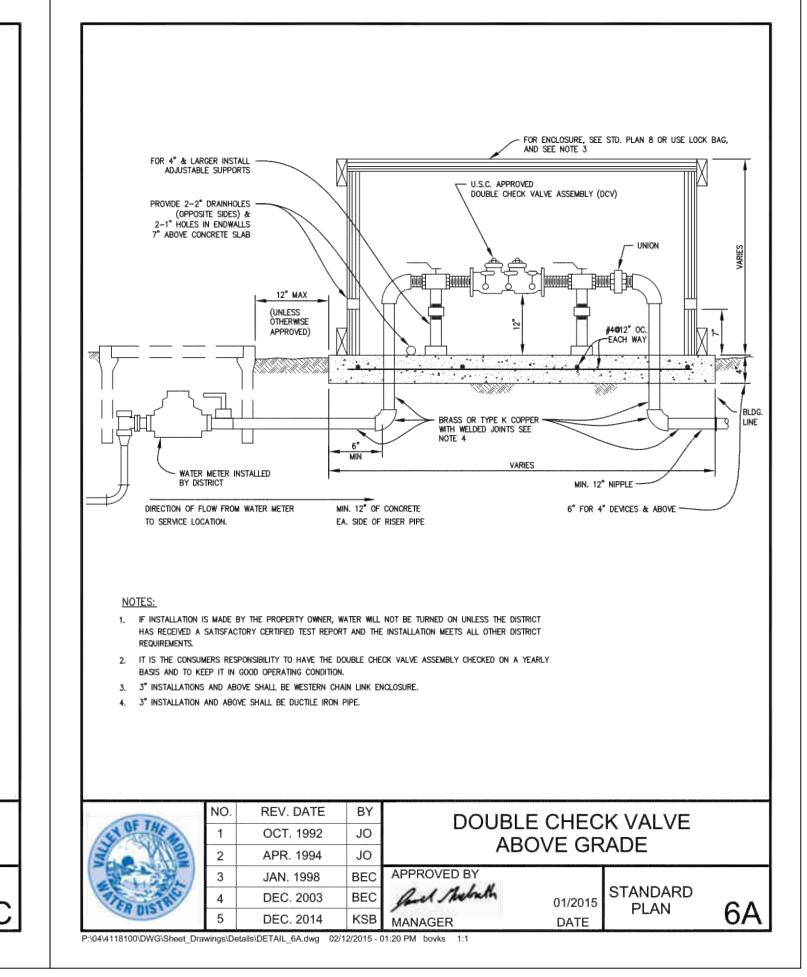
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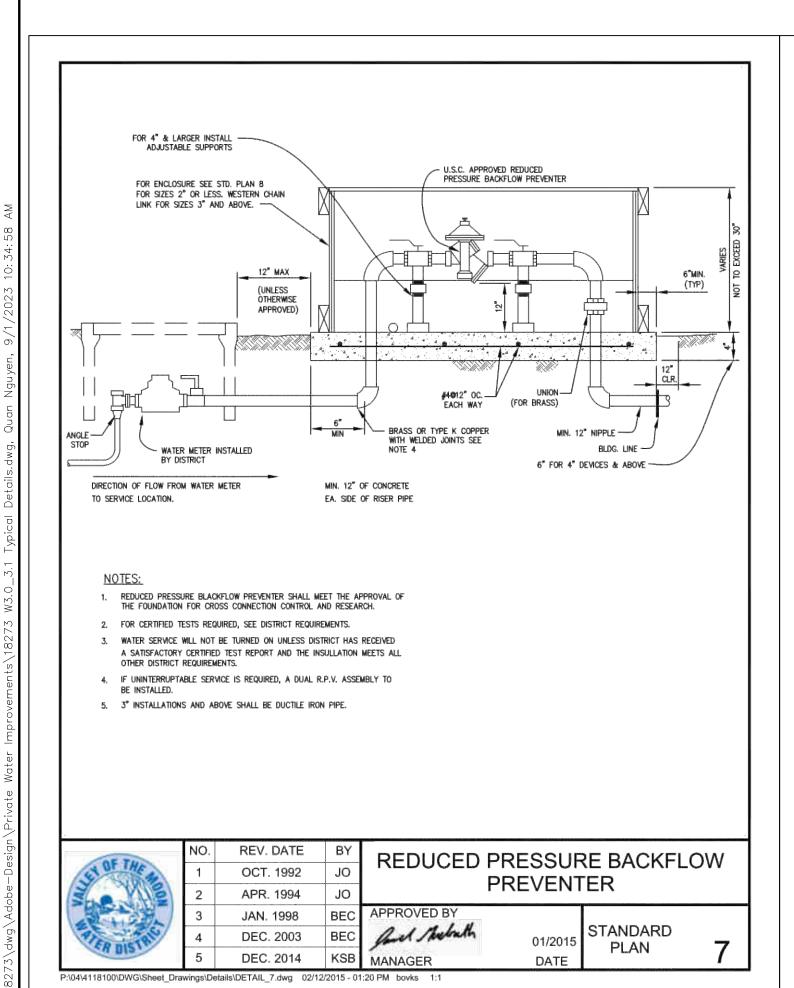
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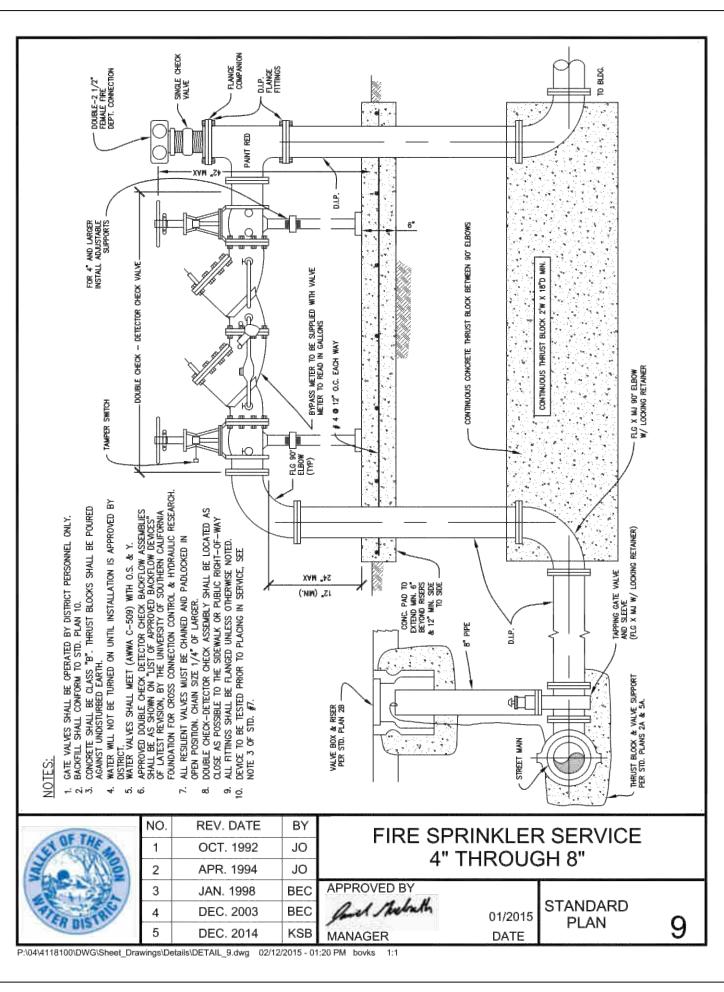


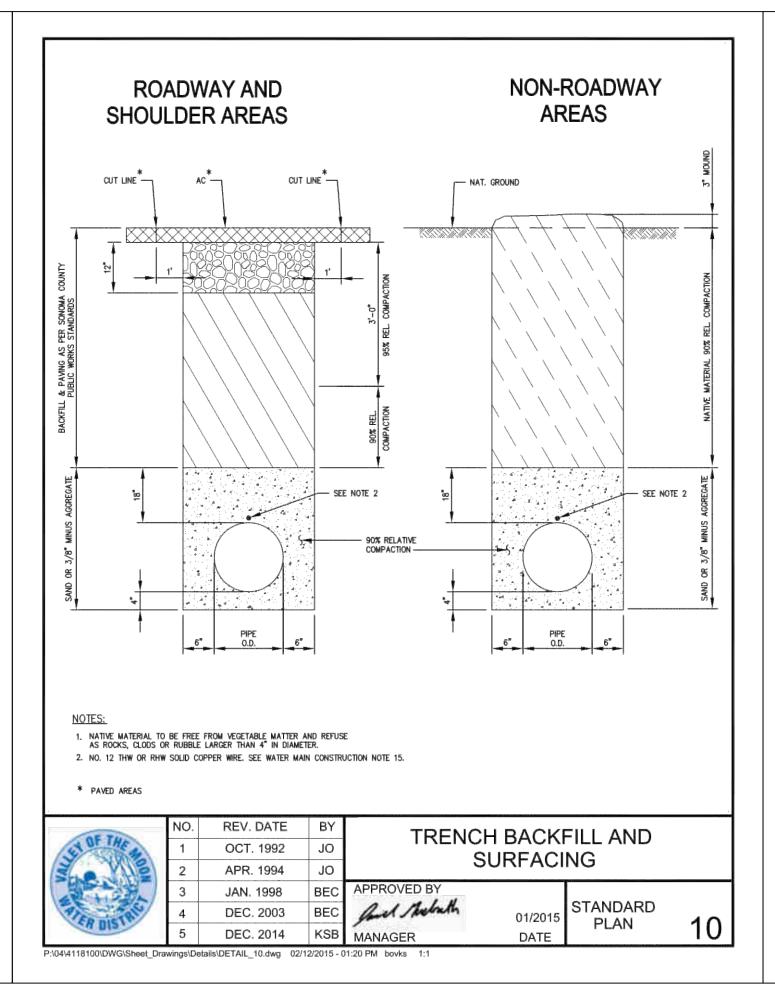


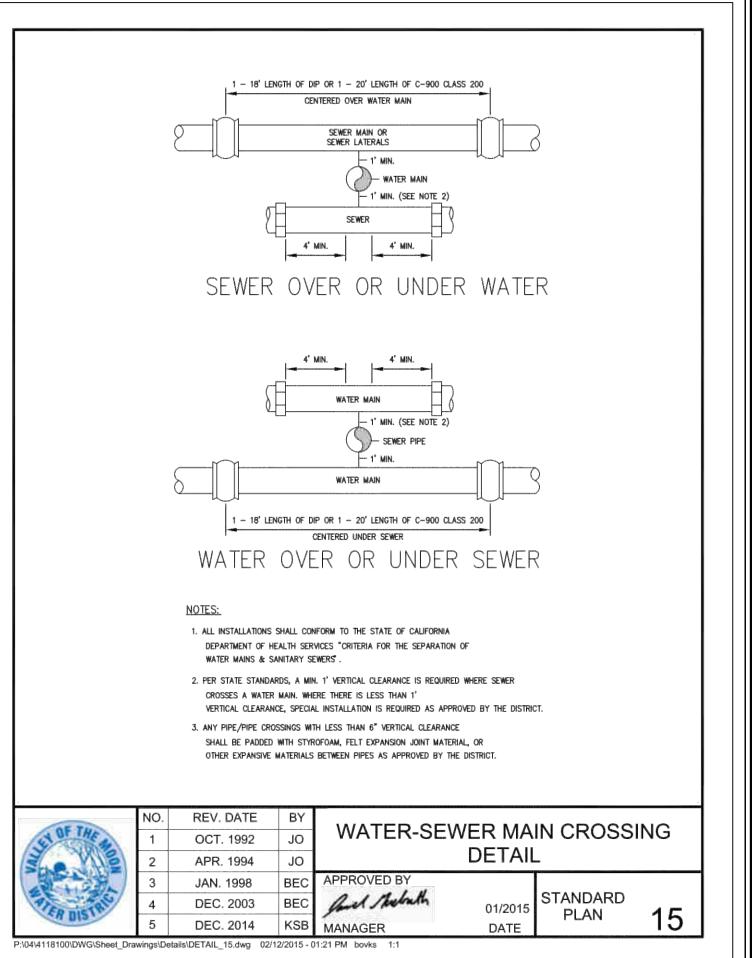


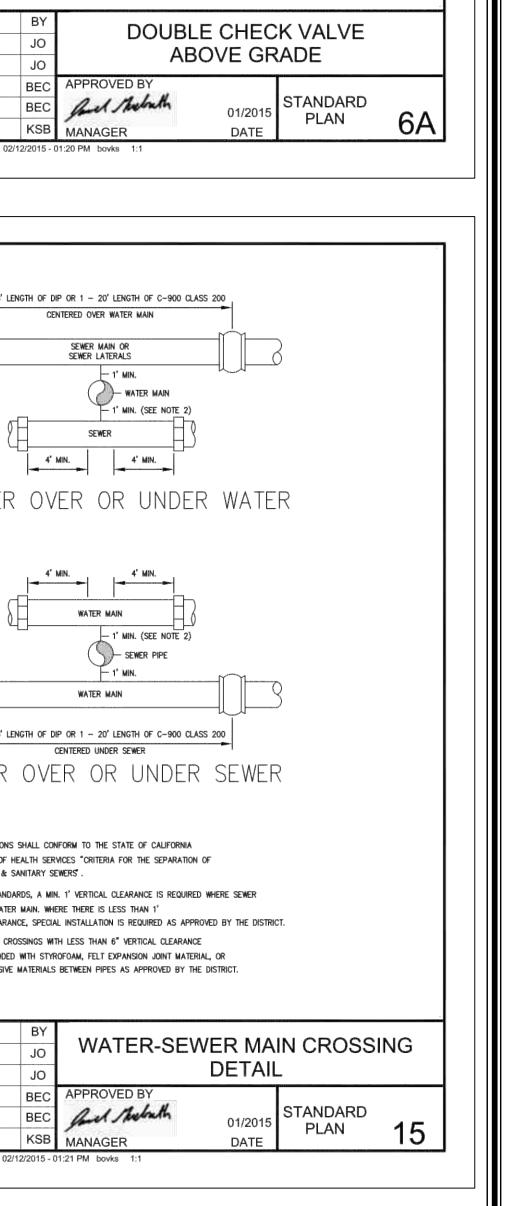


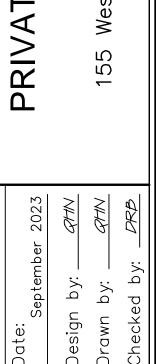












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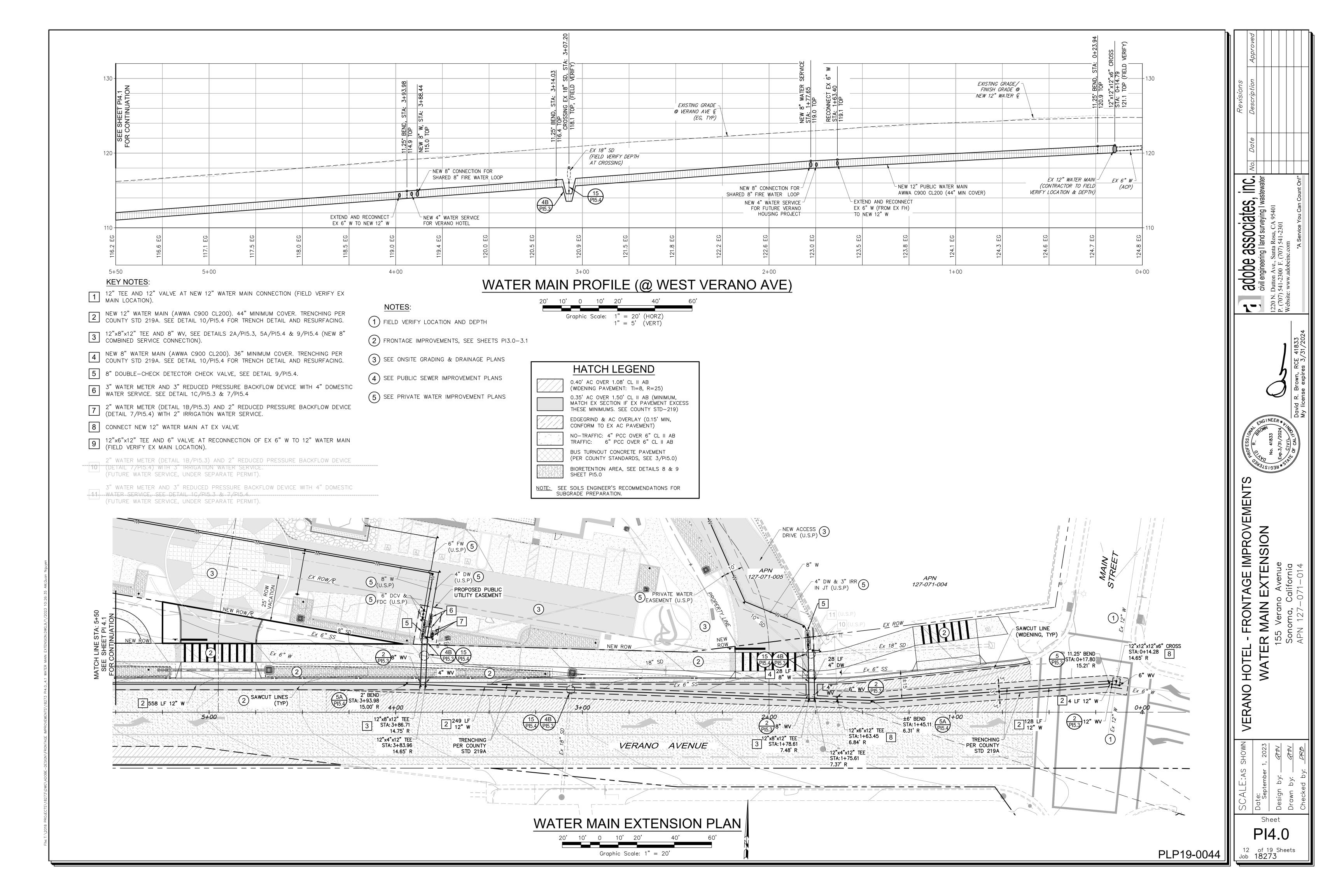
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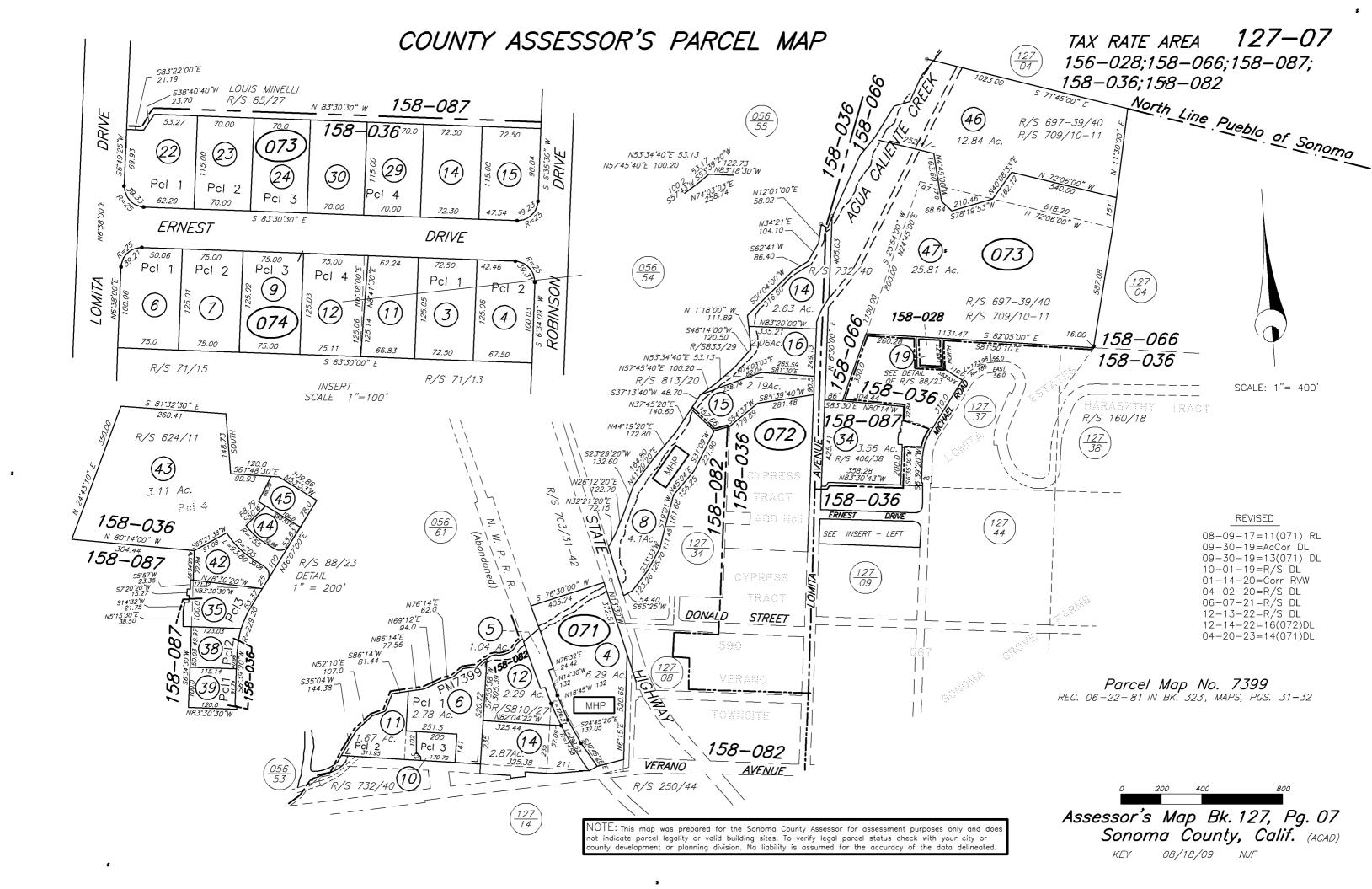
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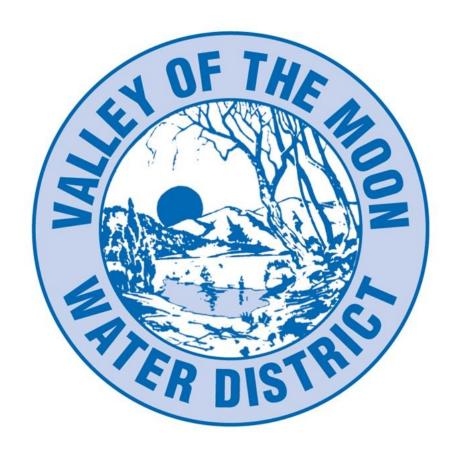
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# VALLEY OF THE MOON WATER DISTRICT STANDARD PLANS REVISED 01/2015

## VALLEY OF THE MOON WATER DISTRICT WATER MAIN CONSTRUCTION NOTES

- 1. THE EXISTING UNDERGROUND UTILITIES ARE PLOTTED FROM AVAILABLE RECORDS. THE CONTRACTOR SHALL PROTECT THESE EXISTING UTILITIES AND SHALL DO NO EXCAVATION UNTIL ALL UTILITY AGENCIES HAVE MARKED THEIR FACILITIES IN THE FIELD. CALL UNDERGROUND SERVICE ALERT (48 HOURS NOTICE REQUIRED) (800) 227-2600 OR 811.
- 2. THE LOCATIONS OF ALL EXISTING UTILITIES OR OTHER UNDERGROUND OBSTRUCTIONS SHOWN ON THE PLANS ARE APPROXIMATE ONLY AND SHOULD NOT BE TAKEN AS FINAL OR ALL INCLUSIVE. THE CONTRACTOR IS CAUTIONED THAT THE PLANS MAY NOT INCLUDE THE LOCATION OF ALL UNDERGROUND OBSTRUCTIONS WHICH MAY BE ENCOUNTERED.
- 3. PRIOR TO CONSTRUCTION OF ANY UNDERGROUND UTILITIES, INCLUDING WATER, SEWER AND STORM DRAINS, THE CONTRACTOR SHALL EXPOSE ALL EXISTING UTILITY FACILITIES WHICH ARE TO BE CONNECTED TO OR CROSSED AND THE ENGINEER SHALL VERIFY THEIR GRADE.
- 4. THE CONTRACTOR SHALL NOT OPERATE ANY MAIN LINE WATER VALVES. SUCH VALVES SHALL BE OPERATED BY THE VALLEY OF THE MOON WATER DISTRICT PERSONNEL ONLY OR AS DIRECTED.
- 5. CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT FROM THE COUNTY OF SONOMA AND PROVIDE THE VALLEY OF THE MOON WATER DISTRICT WITH AN APPROVED COPY, INCLUDING ALL OTHER RELATED INFORMATION, BEFORE ANY WATER FACILITY WORK SHALL COMMENCE.
- 6. ALL WATER SYSTEM WORK SHALL CONFORM TO THE STANDARDS OF THE VALLEY OF THE MOON WATER DISTRICT. CONTRACTOR SHALL CONTACT THE VALLEY OF THE MOON WATER DISTRICT (996-1037) 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR A PRE-CONSTRUCTION MEETING AND INSPECTION, AS ALL WATER MAIN CONSTRUCTION MUST BE INSPECTED BY THE VALLEY OF THE MOON WATER DISTRICT. IN THE EVENT OF ANY BREAKS IN THE CONSTRUCTION PROCESS, CONTRACTOR SHALL CONTACT VALLEY OF THE MOON WATER DISTRICT 24 HOURS PRIOR TO RECOMMENCEMENT OF CONSTRUCTION.
- 7. CONSTRUCTION OF WATER FACILITIES SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF THE VALLEY OF THE MOON WATER DISTRICT, INCLUDING STANDARD PLANS.
- 8. CONTRACTOR, WHEN APPLYING FOR ENCROACHMENT PERMIT WITH CALTRANS, SHALL INDICATE ON THE PERMIT THAT THE VALLEY OF THE MOON WATER DISTRICT WILL BE OWNER OF THE WATER FACILITIES AFTER THEY ARE CONVEYED TO THE DISTRICT.
- 9. CONTRACTOR SHALL OBTAIN ALL PERMITS AND PAY ALL FEES TO ALL RELATED AGENCIES PRIOR TO COMMENCEMENT OF ANY WORK.

- 10. WATER CONSTRUCTION, TESTING, CLEANING, AND DISINFECTION SHALL BE SUBJECT TO INSPECTION AND APPROVAL OF THE VALLEY OF THE MOON WATER DISTRICT. PRESSURE / LEAKAGE TESTS SHALL NOT BE MADE UNTIL A MINIMUM 72 HOURS AFTER THE LAST THRUST BLOCK HAS BEEN POURED.
- 11. ALL FLUSHING, TESTING AND DISINFECTION OF WATER MAINS SHALL BE COMPLETED PRIOR TO CONNECTING TO EXISTING WATER MAINS. THE CONTRACTOR SHALL DISINFECT THE NEWLY INSTALLED PIPELINE BY USE OF HTH TABLETS. TABLETS SHALL BE ATTACHED TO THE CROWN OF THE PIPE AT EACH JOINT WITH TYTON PIPE LUBRICANT, OR EQUAL, AS FOLLOWS:

Pipe Size	# of Tablets	Pipe Size	# of Tablets
4"	1	16"	8
6"	1	20"	12
8"	2	24"	18
12"	4	30"+	As approved

THE PIPELINE SHALL BE SLOWLY FILLED TO ALLOW PROPER CIRCULATION OF THE HTH AND THE SOLUTION SHALL BE ALLOWED TO STAND FOR A MINIMUM OF TWEN TY-FOUR (24) HOURS.

CONNECTION IS TO BE MADE ONLY ON APPROVAL TO THE VALLEY OF THE MOON WATER DISTRICT.

- 12. CONTRACTOR SHALL PROVIDE VALLEY OF THE MOON WATER DISTRICT REPRESENTATIVES WITH A VALID COPY OF A "CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PERMIT" FOR THE PROJECT.
- 13. CONSTRUCTION OF WATER FACILITIES SHALL BE IN COMPLIANCE WITH BASIC SEPARATION STANDARDS "CALIFORNIA WATER WORKS STANDARDS" CONTAINED IN SECTION 64630, TITLE 22, CALIFORNIA ADMINISTRATIVE CODE.
- 14. MINIMUM DEPTH OF COVER FROM FINISHED GRADE, EXCEPT AS NOTED ON PLANS, SHALL BE: 36" FOR 6" MAINS, 36" FOR 8" MAINS, 44" FOR 12" MAINS, AND 48" FOR 14" AND LARGER MAINS. 4" AND 10" MAINS MUST BE SPECIFICALLY APPROVED BY THE VALLEY OF THE MOON WATER DISTRICT. 6" AND 8" MAIN LINE VALVES SHALL BE RESILIENT SEAT GATE VALVES WITH TOTALLY ENCAPSULATED GATE. 12" AND LARGER MAIN LINE VALVES SHALL BE BUTTERFLY VALVES. BLOW OFF SPECIFIED ON IMPROVEMENT PLANS.
- 15. NO. 12 THW OR RHW SOLID COPPER WIRE SHALL BE LAID ON TOP OF AND ALONG ENTIRE LENGTH OF ALL NON METALLIC MAINS, AND SHALL BE EXTENDED TO THE SURFACE AT ALL VALVE LOCATIONS, BLOWOFFS AND METER BOXES SUFFICIENTLY FOR LOCATOR EQUIPMENT TO BE ATTACHED. WIRE TO BE AFFIXED TO TOP OF PIPE SO AS NOT TO BE DISPLACED BY BACKFILLING PROCEDURE. AFFIX THE WIRE TO THE TOP OF THE PIPE WITH DUCT TAPE AT

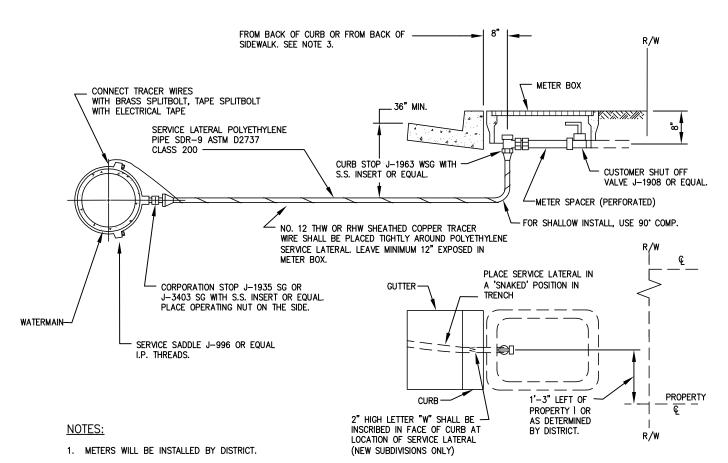
- APPROXIMATELY 5 FEET INTERVALS. SPLICE CONNECTIONS TO BE MADE COPPER OR BRASS SPLIT BOLTS, WRAPPED WITH ELECTRICAL TAPE.
- 16. ALL EXPOSED BOLTS INSTALLED UNDERGROUND SHALL BE STAINLESS STEEL OR STEEL COATED WITH A FLUOROPLOYMER COATING AND HEAT TREATED (MUELLER TRIPAC 2000 BLUE COATING SYSTEM). THIS INCLUDES, BUT IS NOT LIMITED TO, FLANGE AND FLEXIBLE COUPLING BOLTS.
- 17. THERE SHALL BE NO UNMETERED CONNECTIONS TO THE VALLEY OF THE MOON WATER DISTRICT SYSTEM INCLUDING CONNECTIONS BYPASSING METER FOR TESTING ON-SITE PLUMBING OR FOR OBTAINING CONSTRUCTION WATER. PRESSURE TESTING AGAINST VALVES WILL ALSO NOT BE ALLOWED. WHEN A SUBDIVISION WATER MAIN HAS BEEN ACCEPTED AND TIED-IN, THE INDIVIDUAL CURB STOPS WILL BE LOCKED OFF WITH CABLE TIES. CUTTING OFF OR TAMPERING WITH THE CABLE TIES WILL CONSTITUTE A STRAIGHT TIE-IN CONNECTION. SUCH CONNECTIONS SHALL BE SEVERED BY THE DISTRICT AND WILL RESULT IN PENALTIES INCLUDING PAYMENT OF FINES AND ESTIMATED WATER USAGE FEES.
- 18. SERVICE LATERALS OTHER THAN THOSE SHOWN OR NOTED ON THE PLANS SHALL NOT BE INSTALLED PRIOR TO OBTAINING DISTRICT APPROVAL.
- 19. WATER AND SEWER SERVICE LATERALS SHALL BE SEPARATED HORIZONTALLY BY A MINIMUM OF 5 FEET.
- 20. METER MANIFOLDS MUST BE DETAILED AND APPROVED BY THE DISTRICT. IN GENERAL, MANIFOLDS WHERE ALL FITTINGS ARE 2" OR LESS, SHALL BE CONSTRUCTED FROM THREADED BRASS PIPE AND FITTINGS FROM THE END OF THE SERVICE LATERAL TO THE METER CONNECTION. NO PLASTIC PIPE SHALL BE USED IN CONSTRUCTION MANIFOLDS OF ANY SIZE. NO MORE THAN SIX METERS MAY BE MANIFOLDED OFF A SINGLE WATER SERVICE LATERAL, WITH NO MORE THAN 3 ON EITHER SIDE OF THE SERVICE.
- 21. ALL METER BOXES, VAULTS AND PITS SHALL BE BEDDED ON 3" MINIMUM THICK, 3/4" DRAIN ROCK BED AGAINST COMPACTED OR UNDISTURBED BASE. THE GRAVEL BED SHALL EXTEND TO 4" MINIMUM BEYOND ALL SIDES OF THE METER BOX. BOX SHALL BE SET FLUSH WITH TOP OF CURB, SIDEWALK OR GROUND, WHICHEVER IS APPLICABLE. LOT NUMBERS MUST BE NOTED ON TOP SIDE OF METER BOX WITH PERMANENT MARKING PEN.
- 22. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE DISTRICT AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THE PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DISTRICT OF THE ENGINEER.

- 23. TREES SHALL NOT BE REMOVED, UNLESS OTHERWISE SHOWN, WITHOUT AUTHORIZATION BY THE DISTRICT. ROOTS LARGER THAN 2 INCHES IN DIAMETER SHALL NOT BE CUT; TUNNELING UNDER LARGE ROOTS MAY BE REQUIRED. DAMAGE TO LIMBS, TRUNKS OR ROOTS SHALL BE REPAIRED BY QUALIFIED PERSONNEL.
- 24. WATER MAINS SHALL BE INSTALLED IN STRAIGHT ALIGNMENTS BETWEEN FITTINGS. CURVED MAINS SHALL REQUIRE PRIOR DISTRICT APPROVAL. THE RADIUS OF CURVED MAINS SHALL NOT EXCEED THE PIPE MANUFACTURER'S RECOMMENDED LIMITS. FITTING SHALL BE REQUIRED WHERE THE RADIUS EXCEEDS THE LIMITS, OR IF PRIOR DISTRICT APPROVAL FOR CURVED MAINS WAS NOT OBTAINED.

#### STANDARD PLANS

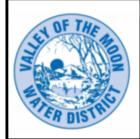
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- 2. BACKFILL SHALL CONFORM TO STD. PLAN 10.
- 3. METER LOCATION SHOWN IS AT BACK OF CURB; HOWEVER, METER SHALL BE INSTALLED BEHIND SIDEWALK OR CURB AS DETERMINED BY THE DISTRICT.
- 4. INSTALLATION OF SERVICE LATERALS IN DRIVEWAYS WILL NOT BE ALLOWED.
- 5. NO UNIONS ALLOWED IN SERVICE LATERALS UNLESS APPROVED.
- 6. SERVICE TAP SHALL BE A MIN. OF 18" FROM ANY TAP, BELL, FITTING OR OTHER SERVICE.
- 7. SET MTR. BOXES ON MIN. 3" OF 3/4" DRAIN ROCK. (TYP)
- 8. ALL COMPRESSION FITTINGS SHALL HAVE SS INSERTS.

METER SIZE	LATERAL SIZE	METER SPACER	CHRISTY METER BOX	CHRISTY METER BOX COVER	
METER SIZE		(PERF. I.P. NIPPLE)		NON-TRAFFIC	TRAFFIC
5 <sub>8</sub> "	1"	1"Ê x 7-½" LONG	B16	FL16D	B16-61G
34"	1"	1"Ê x 7-½" LONG	B16	FL16D	B16-61G
1"	1"	1–¼"Ê x 10–¾" LONG	B16	FL16D	B16-61G



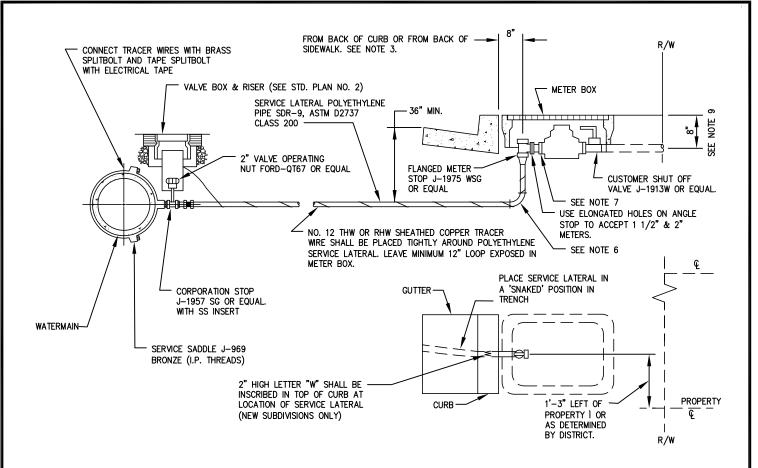
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1	OCT. 1992	JO
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WATER SERVICE FOR 5/8", 3/4" & 1" METERS

APPROVED BY

01/2015 DATE STANDARD PLAN

**1A** 



#### **NOTES:**

- 1. METER WILL BE INSTALLED BY DISTRICT.
- 2. BACKFILL SHALL CONFORM TO STD. PLAN 10.
- METER LOCATION SHOWN IS AT BACK OF CURB; HOWEVER, METER SHALL BE INSTALLED BEHIND SIDEWALK OR CURB AS DETERMINED BY THE DISTRICT.
- 4. INSTALLATION OF SERVICE LATERAL IN DRIVEWAYS WILL NOT BE ALLOWED.
- 5. NO UNIONS ALLOWED IN SERVICE LATERALS UNLESS APPROVED.
- SERVICE TAP SHALL BE A MIN. OF 18" FROM ANY TAP, BELL, FITTING OR OTHER SERVICE.
- 7. SET MTR. BOXES ON MIN. 3" OF 34" DRAIN ROCK. (TYP)
- 8. ALL COMPRSSION FITTINGS SHAL HAVE SS INSERTS.
- 9. INSTALL 90° COMPRESSION ELBOW.
- 10. FOR 2" TURBINES, ADD 2" Ø X 6" BRASS NIPPLE AND FLANGES.
- 11. ADJUST AS NEEDED FOR COMPOUND METERS.

METER			CHRISTY METE	ER BOX COVER	
SIZE			NON-TRAFFIC	TRAFFIC	
1½"	2"	B30	FL30D	B30-61G	
2"	2"	B36	FL36D	B36-61G	

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#### WATER SERVICE FOR 1-1/2" & 2" METERS

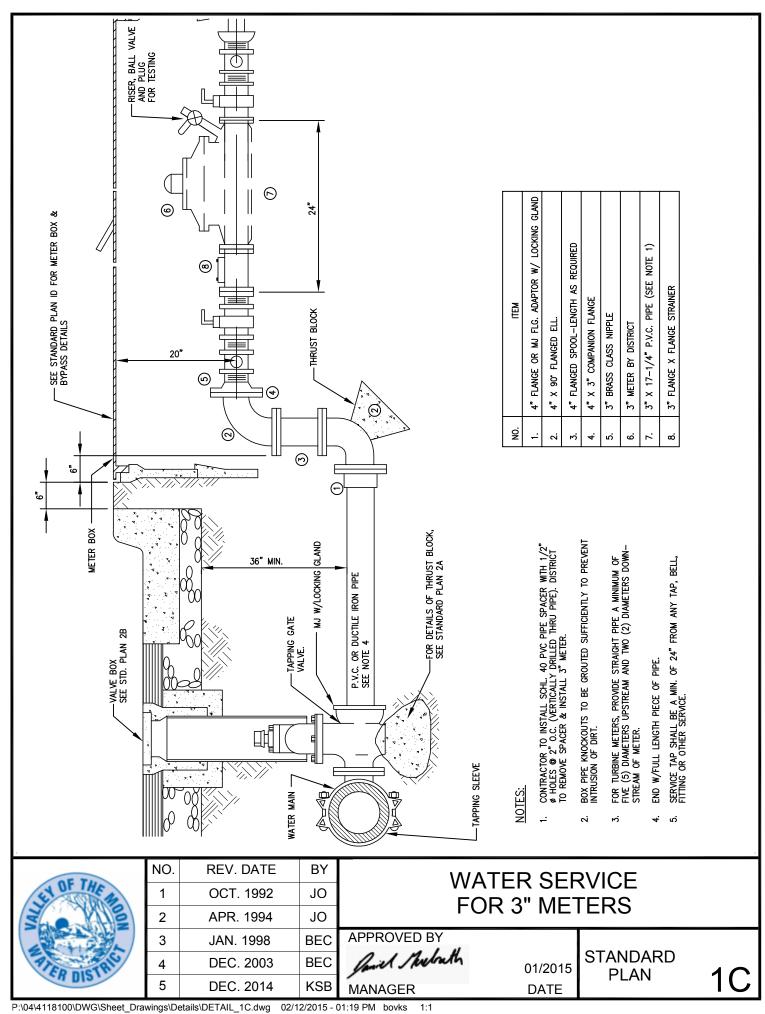
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Smil Shebrith

MANAGER

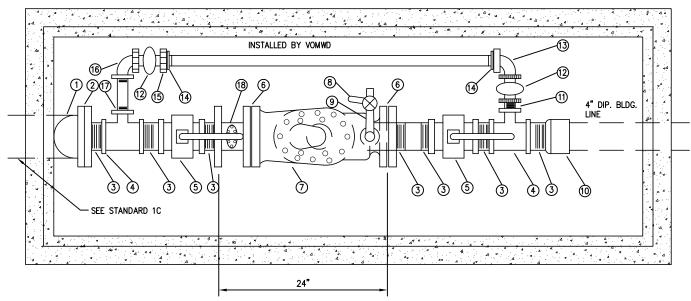
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1E



## APPROVED METER BOX & COVER

CHRISTY NO. R-17 P24, 2 - PIECE CHECKER PLATE PARKWAY HINGED, SPRING LOADED, SCREW DOWN, GALVANIZED LID WITH 8" RD READING LID.



NO.	ITEM
1	4" X 90' FLANGED ELL
2	4" X 3" COMPANION FLANGE
3	3" X CLOSE BRASS NIPPLE
4	3" X 1 1/2" BRASS TEE
5	3" BALL VALVE - WATTS NO. 6000
6	3" BRASS COMPANION FLANGE
7	WATER METER BY VOMWD
8	TEST B/V
9	6" NIPPLE
10	4" X 3" REDUCING ADAPTER
11	1 1/2" X 2 1/2" BRASS NIPPLE
12	1 1/2" BALL VALVE - FORD B 81- 666 W
13	1 1/2" X 90° BRASS STREET ELL
14	1 1/2" BRASS PLUG
15	FORD BVLC 2 - LOCK CAP
16	1 1/2" X 90° BRASS ELL
17	1 1/2" X 6" BRASS NIPPLE
18	3" FLANGE X FLANGE STRAINER

## NOTES:

- REFER TO STANDARD IC FOR DIMENSIONS & PROFILE VIEW OF SERVICE LATERAL INSTALLATION.
- 2. THE VOMWD SHALL PROVIDE & INSTALL THE MASTER PADLOCK ON THE BY-PASS BALL VALVE.
- 3. SET VAULT ON MIN. 6" OF DRAIN ROCK.
- 4. INSTALL RISER AND BALL VALVE ON TEST PLUG PORT OF METER.



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## BY-PASS FOR 3" METERS

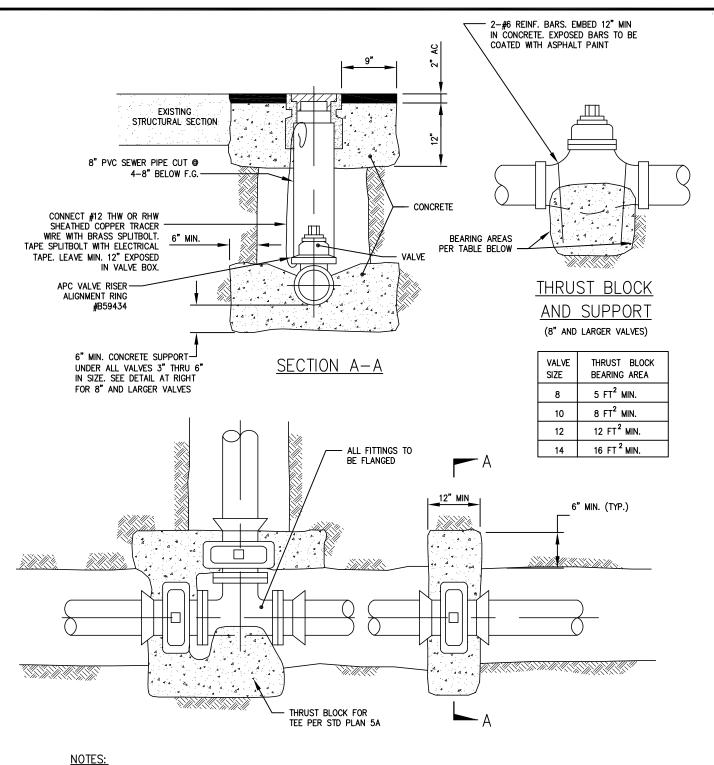
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Smil Shebath

MANAGER

01/2015 DATE STANDARD PLAN

1<sub>D</sub>



- VALVES AND FITTINGS SHALL BE TEMPORARILY SUPPORTED PRIOR TO CONSTRUCTION OF CONCRETE SUPPORTS AND THRUST BLOCKS IN A MANNER SATISFACTORY TO THE DISTRICT.
- BACKFILL SHALL CONFORM TO STD. PLAN 10.
- CONCRETE SHALL BE CLASS "B" FOR ALL THRUST BLOCKS AND SUPPORTS AND SHALL BE POURED AGAINST UNDISTURBED EARTH. ALLOW WATER IN PIPE ONLY AFTER 24 HRS. CURING. PRESSURE TEST ONLY AFTER 3 DAYS MOISTURE CURING.
- 4. ALL VALVE MANIFOLDS TO BE FLANGE CONNECTION.



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## WATER VALVE INSTALLATION

APPROVED BY Pariel Rubuth

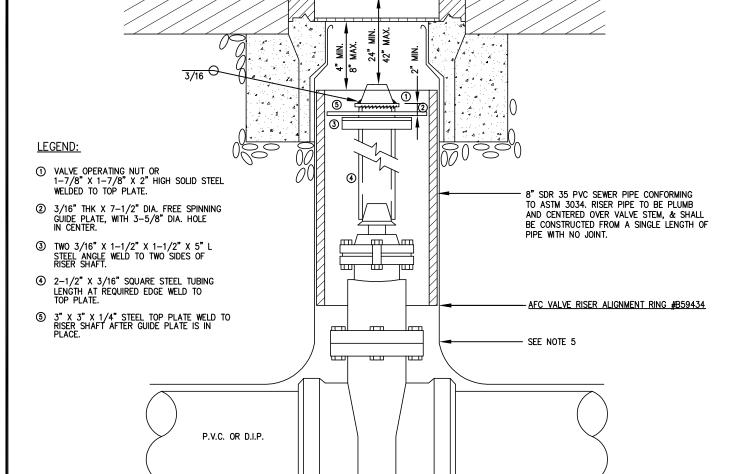
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**STANDARD PLAN** 



- 1. ALL WELDS TO RISER SHAFT SHALL BE FILLET WELDS ALL AROUND.
- 2. ALL RISER STEEL SHALL BE PER ASTM A36.
- IF VALVE IS INSTALLED SO THAT THE TOP OF THE OPERATING NUT IS LESS THAN 30" BELOW FINISHED GRADE, THE VALVE STEM RISER IS NOT REQUIRED.

FRAME & COVER MARKED "WATER"
CHRISTY G-5 OR EQUAL.
(FOR HEAVY TRAFFIC AREAS, USE CHRISTY G-4
OR BETTER).



#### VALVE NOTES:

- GATE VALVES SHALL CONFORM TO A.W.W.A. STANDARD C509 OF LATEST REVISION AND SHALL BE RESILIENT SEAT TYPE WITH TOTALLY ENCAPSULATED GATE, NON-RISING STEM, OPENING COUNTER-CLOCKWISE WITH O-RING STEM SEAL AND 2" OPERATING NUT.
- VALVES 4" THROUGH 8" SHALL BE GATE VALVES. VALVES 10" AND LARGER SHALL BE CLASS 150B BUTTERFLY VALVES CONFORMING TO A.W.W.A. C504 WITH 2" OPERATING NUT UNLESS OTHERWISE APPROVED BY THE DISTRICT.
- 3. FOR 1 1/2" AND 2" VALVES (SEE STANDARD PLAN 1B)
- 4. VALVE BOLT RINGS, EXPOSED TIE-RODS & U-BOLTS SHALL BE COVERED WITH PRIMER AND THOROUGHLY WRAPPED WITH APPROVED ASPHALT BASE WRAP. VALVE AND FLANCE BOLTS SHALL BE BLUE BOLTS.
- 5. CONNECT #12 THW OR RHW SHEATHED COPPER TRACER WIRE WITH BRASS SPLIT BOLT. TAPE SPLIT BOLT WITH ELECTRICAL TAPE. LEAVE 12" EXPOSED IN VALVE BOX.

THE DISTRICT
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NO.	REV. DATE	BY
1	OCT. 1992	JO
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3	JAN. 1998	BEC
4	DEC. 2003	BEC
5	DEC. 2014	KSB

## **VALVE INSTALLATION DETAILS**

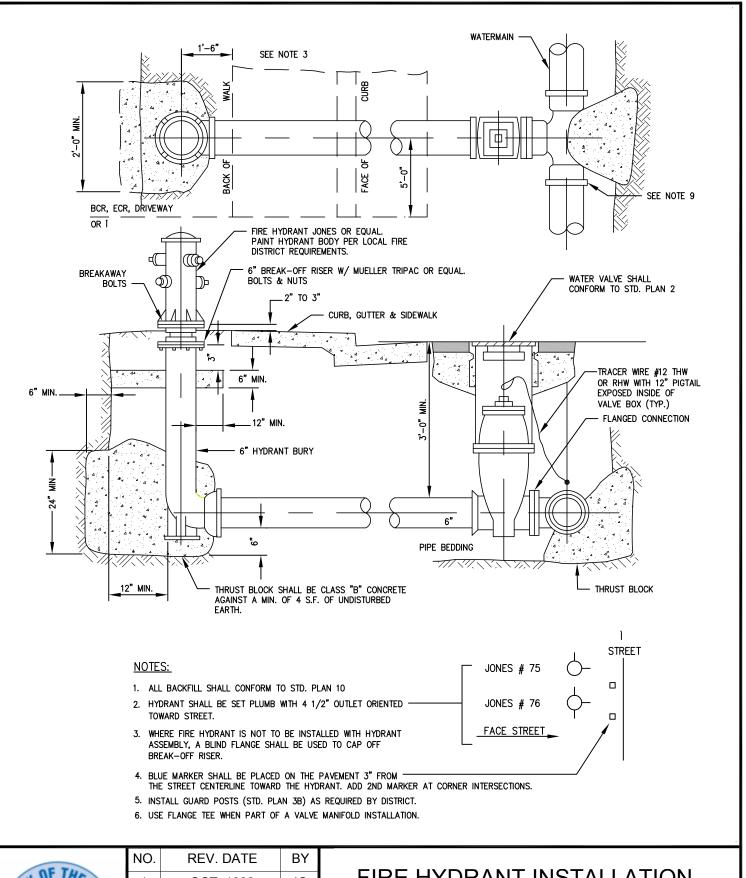
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Said Shebath

MANAGER

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2B





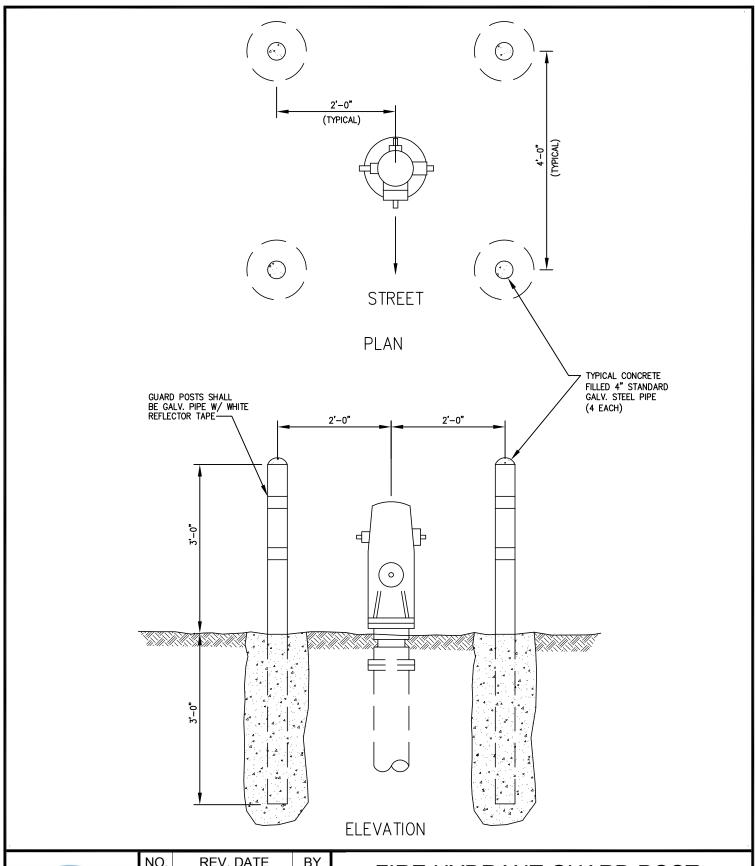
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	2	APR. 1994	JO
	3	JAN. 1998	BEC
	4	DEC. 2003	BEC
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## FIRE HYDRANT INSTALLATION

APPROVED BY Parel Shebuth

01/2015 DATE

**STANDARD PLAN** 





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# FIRE HYDRANT GUARD POST INSTALLATION

APPROVED BY

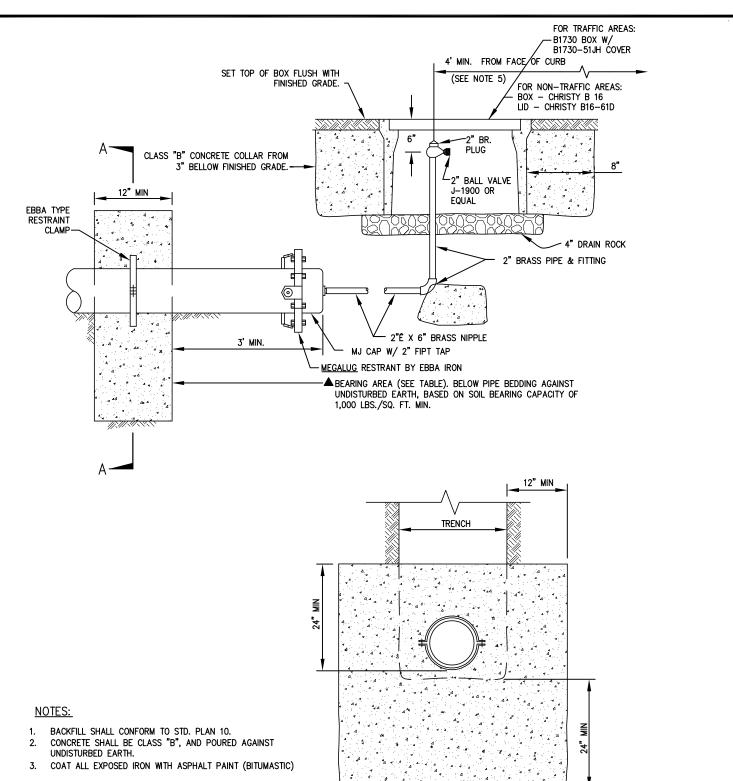
Spirel Shebath

MANAGER

01/2015 DATE

STANDARD PLAN

3B



- DISTRICT MAY REQUIRE INSTALLATION BEHIND SIDEWALK IN CASE OF CONFLICTS.
- 5. MAY ALLOW THRUST BLOCK PER DISTRICT DISCRETION.

NO.	REV. DATE	BY
1	OCT. 1992	JO
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## **BLOW OFF AT END OF LINE**

36" MIN.

SECTION A-A

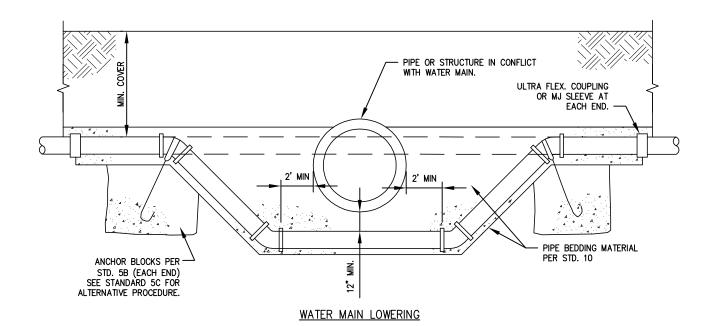
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Smil Shelreth

MANAGER

01/2015 DATE STANDARD PLAN

4A





### WATER MAIN LOW POINT

### NOTES:

- ALL PIPE & FITTINGS SHALL BE DUCTILE IRON EXCEPT AS MAY BE ALLOWED UPON DISTRICT APPROVAL.
- ONLY MECHANICAL JOINT FITTINGS WITH RETAINER GLANDS OR FLANGED FITTINGS MAY BE USED. ALL BENDS SHALL BE 45'; 22-1/2' FITTINGS MAY BE ALLOWED UPON DISTRICT APPROVAL. BACKFILL SHALL CONFORM TO STD. PLAN 10.

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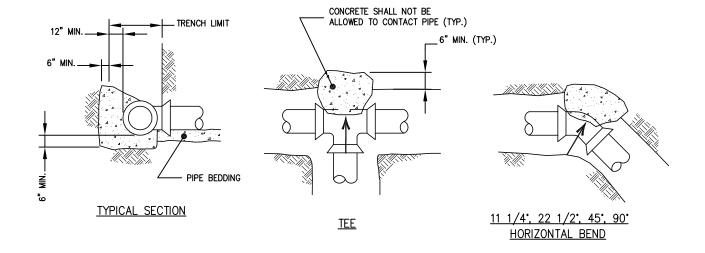
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## WATER MAIN LOWERING DETAIL

APPROVED BY Parel Shebath

01/2015 DATE

**STANDARD PLAN** 



MINIMUM THRUST BLOCK BEARING REQUIREMENTS NORMAL TO THRUST (TOTAL AREA IN SQ. FT.)						
		PIPE		SIZÉS		
TYPE FITTING	6"	8"	10"	12"	14"	
90° BEND	4	7	12	16	22	
45° BEND	2	4	6	9	12	
22 1/2° BEND	1	2	3	5	6	
11 1/4° BEND	1	1	2	3	3	
DEAD END	3	5	8	12	16	
TEE	3	5	8	12	16	

- THRUST BLOCKS FOR CONDITIONS NOT COVERED ON THIS DRAWING SHALL BE SATISFACTORY TO THE DISTRICT.
  THE CONTRACTOR SHALL CONSTRUCT THRUST BLOCKS AS NECESSARY TO PROVIDE SUPPORT WHILE CONNECTING TO
  EXISTING FACILITIES. SAND BAG FORMED PRIOR TO POURING CONCRETE.
- 2. FOR PURPOSES OF DETERMINING THRUST BLOCK REQUIREMENTS, TEES SHALL INCLUDE TAPPING SLEEVES AND FLANGED NIPPLES OR OTHER WELDED CONNECTIONS OVER 3" IN DIAMETER TO MAIN LINE PIPE.
- 3. THRUST BLOCKS SHALL NOT INTERFERE WITH PIPE JOINTS, BOLTS, NUTS, ETC.
- 4. ARROWS ( $\longrightarrow$ ) INDICATE DIRECTION OF THRUST.
- 5. CONCRETE SHALL BE CLASS "B" FOR ALL THRUST BLOCKS AND SUPPORTS AND SHALL BE POURED AGAINST UNDISTURBED EARTH. ALLOW WATER IN PIPE ONLY AFTER 24HRS. CURING. PRESSURE TEST ONLY AFTER 3 DAYS MOISTURE CURING.
- 6. ALL FITTINGS SHALL BE SUPPORTED IN CONCRETE AS SHOWN IN TYPICAL SECTION.
- 7. THE ABOVE BEARING AREAS ARE BASED ON 150 PSI TEST PRESSURE AND 2,000 PSF SOIL BEARING CAPACITY. THE DESIGN ENGINEER SHALL FURNISH BLOCKING REQUIREMENTS WHERE DESIGN CRITERIA DIFFER FROM ABOVE.
- 8. FOR OTHER THRUST BLOCKING REQUIREMENTS REFER TO:

STD. PLAN 3A FOR FIRE HYDRANTS STD. PLAN 5B FOR VERTICAL BENDS

STD. PLAN 4A FOR BLOWOFFS

- 9. VALVES AND FITTINGS SHALL BE TEMPORARILY SUPPORTED PRIOR TO CONSTRUCTION OF CONCRETE SUPPORTS AND THRUST BLOCKS IN A MANNER SATISFACTORY TO THE DISTRICT.
- 10. DISTRICT MAY WAIVE THRUST BLOCK REQUIREMENTS FOR PIPE WITH RESTRAINED JOINTS. SEE STD. PLAN 5C.



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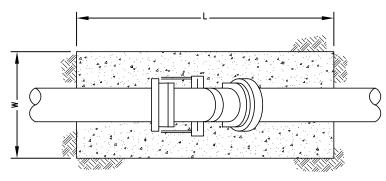
## HORIZONTAL THRUST BLOCK REQUIREMENTS

APPROVED BY

Spirit Shelvath

01/2015 DATE STANDARD PLAN

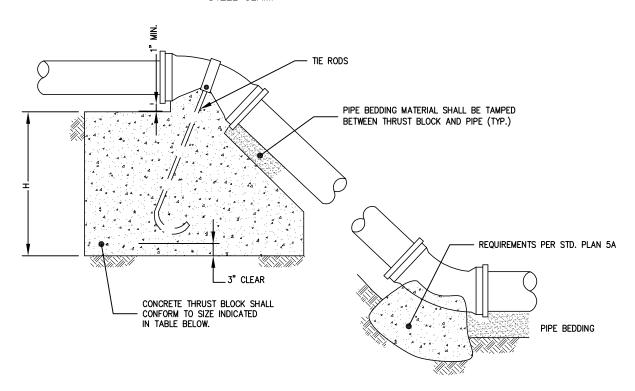
5A



#### STEEL CLAMP

### NOTES:

- 1. CONCRETE SHALL BE CLASS "B" AND SHALL BE POURED AGAINST UNDISTURBED EARTH.
- 2. THIS TYPE OF VERTICAL OFFSET SHALL BE USED ONLY WHERE THERE IS A CONFLICT IN GRADE
- 3. USE MECHANICAL JOINT FITTINGS WITH LOCKING RETAINER GLANDS AT ALL FITTINGS.
- 4. DISTRICT MAY WAIVE THRUST BLOCK REQUIREMENTS FOR PIPE WITH RESTRAINT JOINTS. SEE STD. PLAN 5C.
- 5. USE BLUE BOLTS FOR ALL FLANGES.



	THRUST BLOCK DIMENSIONS											
PIPE	TIE	STEEL	STEEL 11 1/2" BEND			2	2 1/2° B	END	45° BEND			
SIZE	RODS	CLAMP	L	W	Н	L	w	Н	L	W	Н	
6"	5/8"	3" X 1/4"	2'-0"	2'-0"	1'-0"	2'-0"	2'-0"	2'-0"	3'-0"	2'-0"	2'-0"	
8"	3/4"	3 1/4" X 1/4"	2'-0"	2'-0"	1'-0"	3'-0"	2'-0"	2'-0"	4'-6"	2'-0"	3'-0"	
10"	1"	4" X 3/8"	3'-0"	2'-0"	2'-0"	4'-0"	2'-0"	2'-0"	6'-0"	2'-0"	3'-8"	
12"	1 1/4"	4" X 1/2"	3'-0"	2'-0"	2'-0"	6'-0"	2'-0"	2'-0"	7'-0"	2'-6"	4'-0"	



NO.	REV. DATE	BY
1	OCT. 1992	JO
2	APR. 1994	JO
3	JAN. 1998	BEC
4	DEC. 2003	BEC
5	DEC. 2014	KSB

# VERTICAL THRUST BLOCK REQUIREMENTS

APPROVED BY

Smil Sheladh

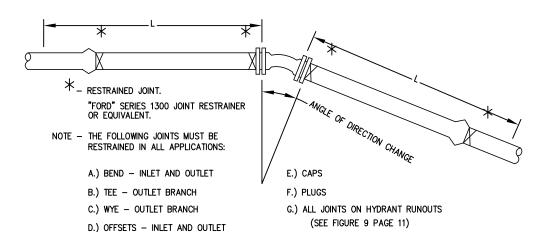
MANAGER

01/2015 DATE STANDARD PLAN

5B

#### THURST AT FITTINGS PER 150 PSI (LBS. FORCE)

NOMINAL PIPE SIZE	FITTING: 90 DEGREE ELBOW	FITTING: 45 Degree Elbow	FITTING: VALVES, TEES, DEAD ENDS
2	950	520	670
3	2620	1420	1850
4	3850	2080	2720
6	7930	4290	5610
8	13640	7380	9650
10	20530	11110	14520
12	29050	15720	20550



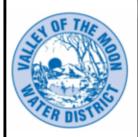
		L — MINIMUM LENGTH TO BE RESTRAINED ON EACH SIDE OF FITTING (FT.)																		
NOM.				COHESIVE GRANULAR MAT					SAND				SILT, MUCK, PEAT							
PIPE	El	BOWS	(DEG	.)	VALVES		ELBOV	VS (D	EG.)	VALVES		ELBOW	/S (D	EG.)	VALVES		ELBOV	VS (D	EG.)	VALVES
SIZE	11 🛔	22 ½	45	90	TEE DEAD ENDS	11 🛔	22 <del>1</del>	45	90	TEE DEAD ENDS	11 🛔	22 ½	45	90	TEE DEAD ENDS	11 🛔	22 ½	45	90	TEE DEAD ENDS
2	1	2	3	5	4	2	3	4	7	6	2	3	5	8	6	2	4	6	11	9
3	2	2	4	8	5	3	4	5	9	7	3	4	7	10	8	3	5	8	13	10
4	2	3	5	9	6	3	5	7	11	8	3	5	8	12	9	4	6	11	17	13
6	3	4	6	13	7	4	6	9	14	10	4	6	10	15	11	4	7	13	21	15
8	3	5	7	16	8	4	7	11	19	13	4	7	13	20	14	5	10	16	26	18
10	4	6	9	19	11	5	10	15	22	15	5	9	15	25	18	6	11	20	32	22
12	4	8	11	23	13	6	11	17	26	18	6	10	17	29	21	7	14	24	39	27

VALUES FOR "L" ARE BASED ON PVC PIPE AT 150 PSI OPERATING PRESSURE WITH A 100 PSI SURGE ALLOWANCE INCLUDED.

WHEN DEPTH OF SOIL COVER IS LESS THAN 2 FT., VALUES FOR "L" MUST BE INCREASED BY 30%.
WHEN DEPTH OF SOIL COVER IS LESS THAN 1/2 OF PIPE OUTSIDE DIAMETER, VALUES FOR "L" MUST BE INCREASED BY 100%.
WHEN PIPE IS PARTIALLY OR FULLY EXPOSED, ALL JOINTS MUST BE RESTRAINED.

EXAMPLE: A 12 INCH PVC PIPE BEING INSTALLED IN SANDY SOIL, ENTERS A 45 DEGREE HORIZONTAL BEND.

FROM THE CHART THE MINIMUM LENGTH (L) TO BE RESTAINED IS 17 FEET. THEREFORE ALL JOINTS THAT FALL WITHIN 17 FEET BEFORE AND AFTER THE ELBOW MUST BE RESTRAINED. IF NO JOINTS ARE ENCOUNTERED WITHIN THIS DISTANCE, THE NEXT CLOSEST JOINT DOES NOT NECESSARILY HAVE TO BE RESTRAINED.



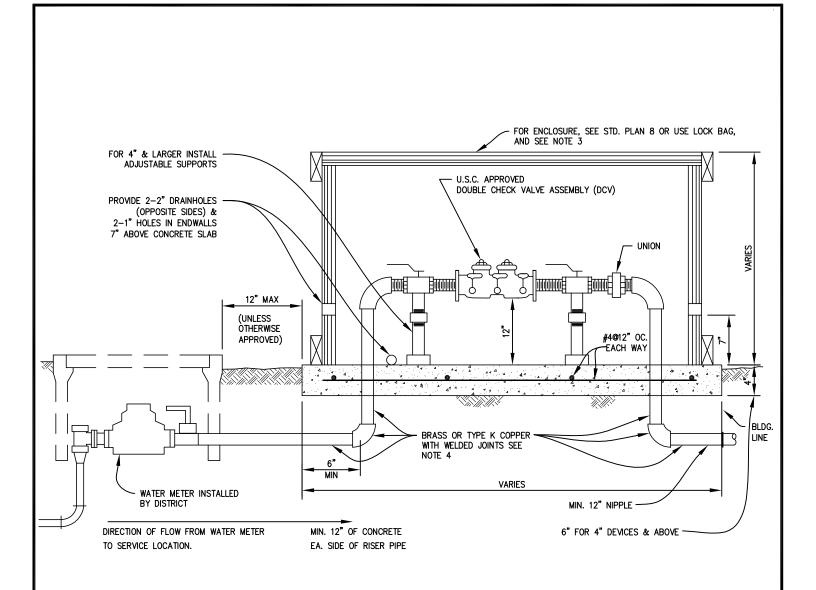
NO.	REV. DATE	BY
1	OCT. 1992	JO
2	APR. 1994	JO
3	JAN. 1998	BEC
4	DEC. 2003	BEC
5	DEC. 2014	KSB

## RESTRAINED JOINT REQUIREMENTS

APPROVED BY

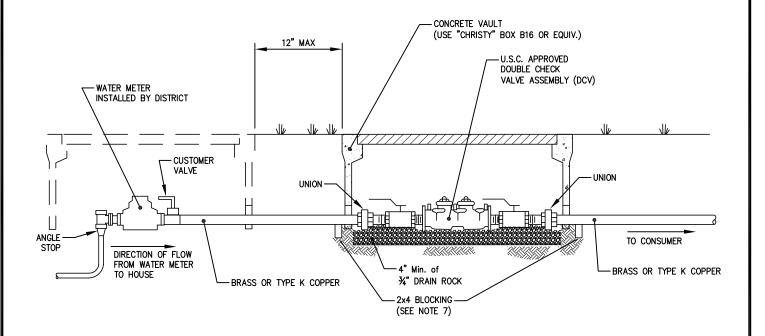
01/2015 DATE STANDARD PLAN

5C



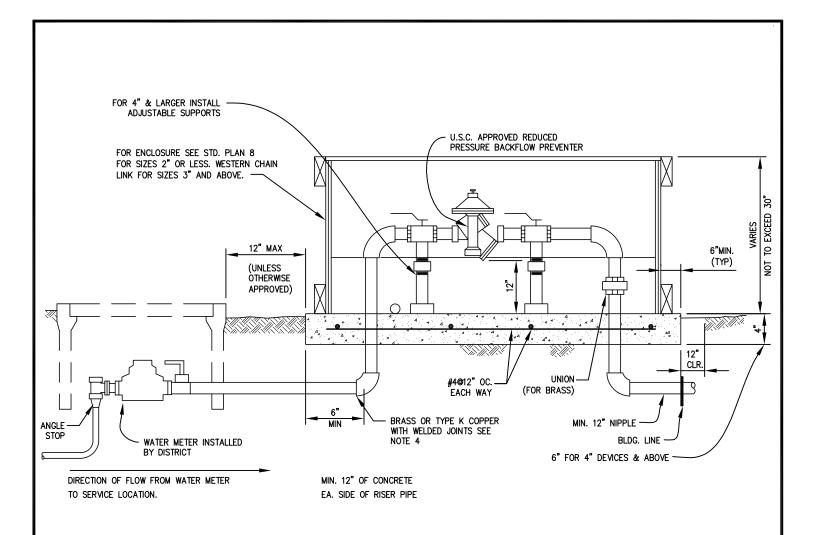
- IF INSTALLATION IS MADE BY THE PROPERTY OWNER, WATER WILL NOT BE TURNED ON UNLESS THE DISTRICT HAS RECEIVED A SATISFACTORY CERTIFIED TEST REPORT AND THE INSTALLATION MEETS ALL OTHER DISTRICT REQUIREMENTS.
- 2. IT IS THE CONSUMERS RESPONSIBILITY TO HAVE THE DOUBLE CHECK VALVE ASSEMBLY CHECKED ON A YEARLY BASIS AND TO KEEP IT IN GOOD OPERATING CONDITION.
- 3. 3" INSTALLATIONS AND ABOVE SHALL BE WESTERN CHAIN LINK ENCLOSURE.
- 4. 3" INSTALLATION AND ABOVE SHALL BE DUCTILE IRON PIPE.

AF 71	NO.	REV. DATE	BY	DOUBLE CHECK VALVE						
ST OF THE	1	OCT. 1992	JO		ABOVE GRADE					
E VIIIS	2	APR. 1994	JO	P	ADE					
2	3	JAN. 1998	BEC	APPROVED BY						
PIED DICTRIC	4	DEC. 2003	BEC	Pariel Shebath	01/2015	STANDARD PLAN	<b>Λ</b>			
יא מוטי	5	DEC. 2014	KSB	MANAGER	DATE	FLAIN	ЮΑ			



- WATER WILL NOT BE TURNED ON UNLESS THE DISTRICT HAS RECEIVED A SATISFACTORY CERTIFIED TEST REPORT AND THE INSTALLATION MEETS ALL OTHER DISTRICT REQUIREMENTS.
- 2. IT IS THE CONSUMERS RESPONSIBILITY TO HAVE THE DOUBLE CHECK VALVE ASSEMBLY CHECKED ON A YEARLY BASIS AND TO KEEP IT IN GOOD OPERATING CONDITION.
- THE DEVICE MUST BE LISTED ON THE MOST CURRENT USE LIST OF APPROVED BACKFLOW PREVENTION DEVICES IN THE "USC FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH" DOCUMENT.
- KEEP THE DEVICE AS HIGH AS POSSIBLE IN THE BOX WITHOUT THE PIPING TOUCHING THE BOX (INSIDE THE MOUSE HOLE).
- 5. USE A "TOP SERVICE" DCV
- 6. ADEQUATE SPACE FOR TESTING AND MAINTENANCE MUST BE MAINTAINED WITHIN THE DCV BOX OR VAULT.
- 7. USE CUT PRESSURE TREATED OR REDWOOD 2X4, 8" LONG BLOCKING TO COVER THE BOTTOM OF THE MOUSE HOLE. PLACE OUTSIDE THE VAULT.

SET OF THE AME	NO.	REV. DATE DEC. 2014	BY KSB		DOUBLE CHECK VALVE BELOW GRADE					
TIER DISTRIC				APPROVED BY  Smil Shebath  MANAGER	01/2015 DATE	STANDARD PLAN	6B			



- REDUCED PRESSURE BLACKFLOW PREVENTER SHALL MEET THE APPROVAL OF THE FOUNDATION FOR CROSS CONNECTION CONTROL AND RESEARCH.
- 2. FOR CERTIFIED TESTS REQUIRED, SEE DISTRICT REQUIREMENTS.
- WATER SERVICE WILL NOT BE TURNED ON UNLESS DISTRICT HAS RECEIVED
  A SATISFACTORY CERTIFIED TEST REPORT AND THE INSULLATION MEETS ALL
  OTHER DISTRICT REQUIREMENTS.
- IF UNINTERRUPTABLE SERVICE IS REQUIRED, A DUAL R.P.V. ASSEMBLY TO BE INSTALLED.
- 5. 3" INSTALLATIONS AND ABOVE SHALL BE DUCTILE IRON PIPE.

OF THE MOON
PIER DISTRIC

NO.	REV. DATE	BY
1	OCT. 1992	JO
2	APR. 1994	JO
3	JAN. 1998	BEC
4	DEC. 2003	BEC
5	DEC. 2014	KSB

# REDUCED PRESSURE BACKFLOW PREVENTER

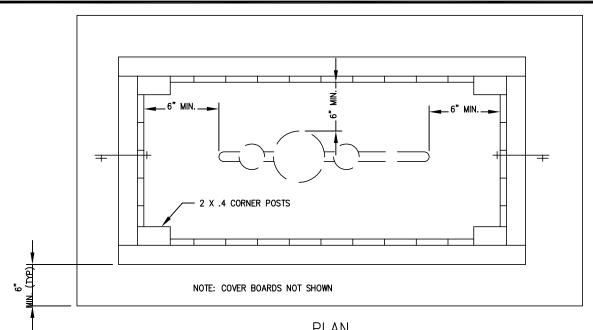
APPROVED BY

Smil Shebath

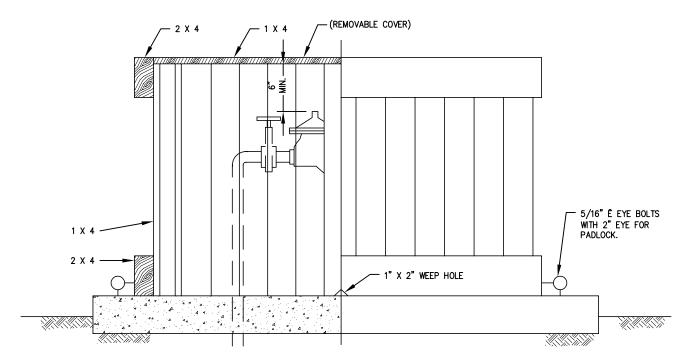
MANAGER

01/2015 DATE STANDARD PLAN

7



## <u>PLAN</u>



## SECTION / ELEVATION

## NOTES:

- ALL 2 X WOOD SHALL BE S4S CONST. HT. REDWOOD. ALL 1 X WOOD SHALL BE ROUGH STD. REDWOOD.
- ALL NAILS SHALL BE GALVANIZED.
- STAIN WITH 2 COATS OLYMPIC SEMI-TRANS.
- COVER TO BE REMOVABLE.

LOCKABLE BAG ENCLOSURE ACCEPTABLE



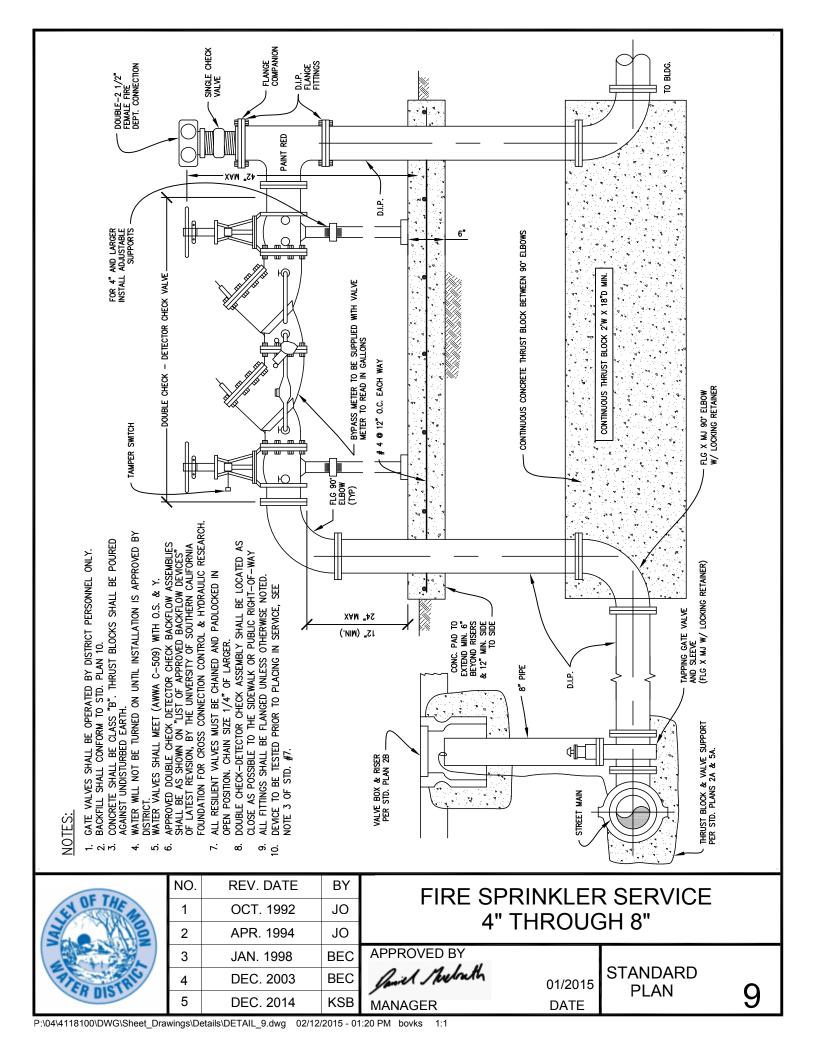
NO.	REV. DATE	BY
1	OCT. 1992	JO
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## REDWOOD ENCLOSURE

APPROVED BY Pariel Shebuth

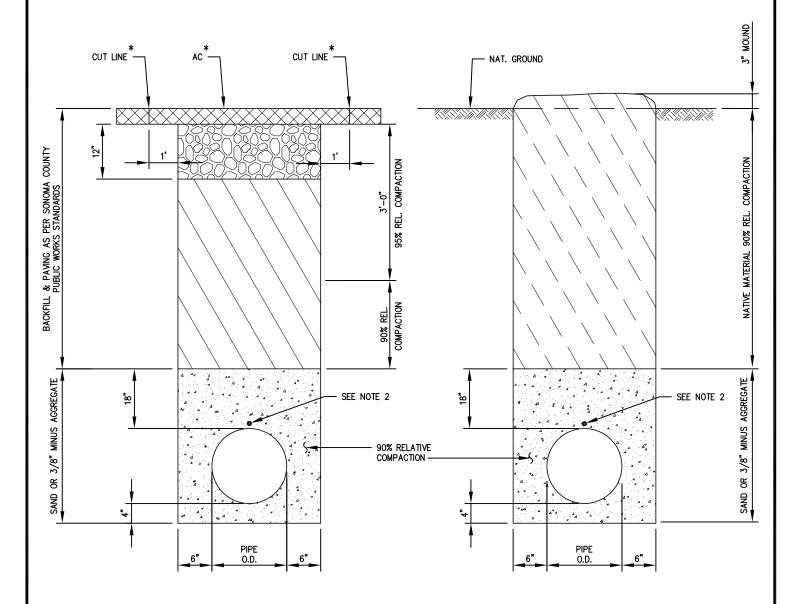
01/2015 DATE

**STANDARD PLAN** 



# ROADWAY AND SHOULDER AREAS

## NON-ROADWAY AREAS



#### NOTES:

- NATIVE MATERIAL TO BE FREE FROM VEGETABLE MATTER AND REFUSE AS ROCKS, CLODS OR RUBBLE LARGER THAN 4" IN DIAMETER.
- 2. NO. 12 THW OR RHW SOLID COPPER WIRE. SEE WATER MAIN CONSTRUCTION NOTE 15.
- \* PAVED AREAS

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NO.	REV. DATE	BY
1	OCT. 1992	JO
2	APR. 1994	JO
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4	DEC. 2003	BEC
5	DEC. 2014	KSB

# TRENCH BACKFILL AND SURFACING

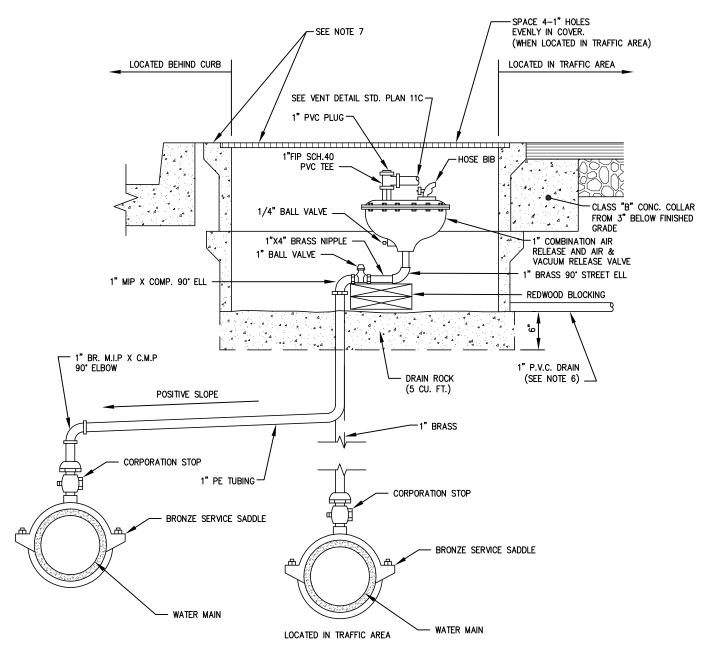
APPROVED BY

Smil Sheladh

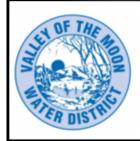
MANAGER

01/2015 DATE STANDARD PLAN

1(



- 1. USE 1" VALVES & PIPING FOR ALL MAINS, UNLESS OTHERWISE SPECIFIED.
- 2. MAX. LENGTH OF MAIN TO AIR VALVE: 40'.
- 3. GROUT FIELD JOINTS IN CONCRETE BOXES.
- 4. VALVE LOCATION IS SHOWN BEHIND CURB, BUT SHALL BE INSTALLED AS DETERMINED BY DISTRICT.
- 5. SECURE ARV TO BOX, SEE 11B FOR BRACKET DETAIL.
- 6. POSITIVE DRAINAGE OF BOX AND PRIOR DISTRICT APPROVAL REQUIRED.
- CHRISTY B-24 METER BOX (18"X19 1/2") AND B24-61D LID. IF BOX IS LOCATED IN TRAFFIC AREA USE CHRISTY B1730 BOX WITH B1730-51JH COVER AND B1730 EXT EXTENSION.



NO.	REV. DATE	BY
1	OCT. 1992	JO
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5	DEC. 2014	KSB

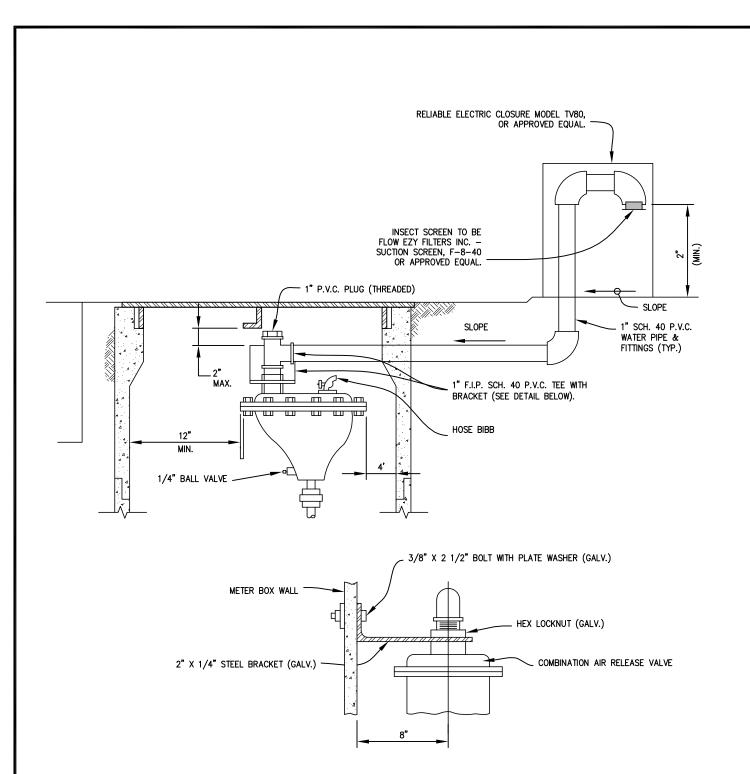
## AIR VACUUM & AIR RELEASE VALVE

APPROVED BY

Smil Shebuth

01/2015 DATE STANDARD PLAN

11A



## BRACKET DETAIL



NO.	REV. DATE	BY
1	OCT. 1992	JO
2	APR. 1994	JO
3	JAN. 1998	BEC
4	DEC. 2003	BEC
5	DEC. 2014	KSB

## **VENT DETAIL**

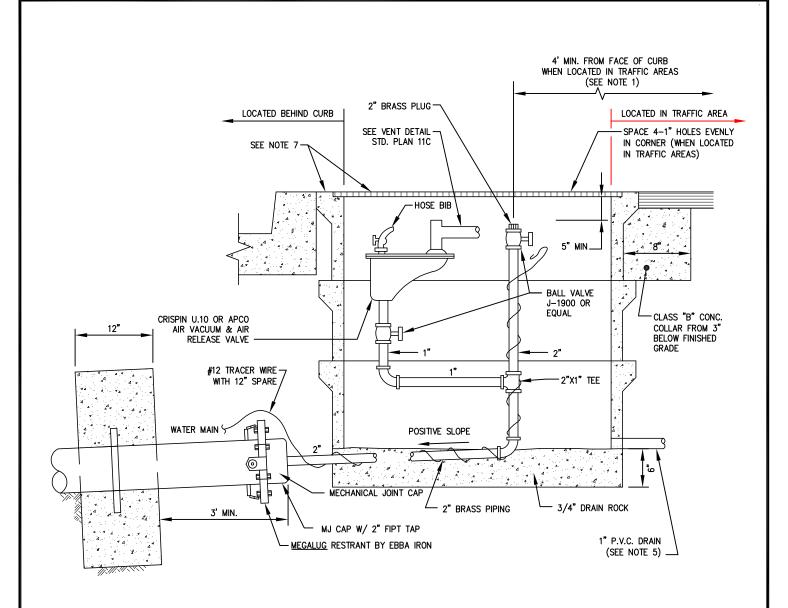
APPROVED BY

Smil Sheladh

MANAGER

01/2015 DATE STANDARD PLAN

11B



- 1. USE 2" VALVES & PIPING UNLESS OTHERWISE SPECIFIED.
- 2. GROUT FIELD JOINTS IN CONCRETE BOXES.
- 3. VALVE LOCATION IS SHOWN BEHIND CURB, BUT VALVE SHALL BE INSTALLED AS DETERMINED BY DISTRICT.
- 4. FOR THRUST BLOCK DETAILS, SEE STANDARD PLAN 4A.
- 5. POSITIVE DRAINAGE OF BOX AND PRIOR DISTRICT APPROVAL REQUIRED WHEN INSTALLED IN TRAFFIC AREA.
- CHRISTY B-24 METER BOX (18"X19 1/2") AND B24-61D LID. IF BOX IS LOCATED IN TRAFFIC AREA USE CHRISTY B1730 BOX WITH B1730-51JH COVER AND B1730 EXT EXTENSION.



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## A.V. & A.R. VALVE WITH BLOW-OFF

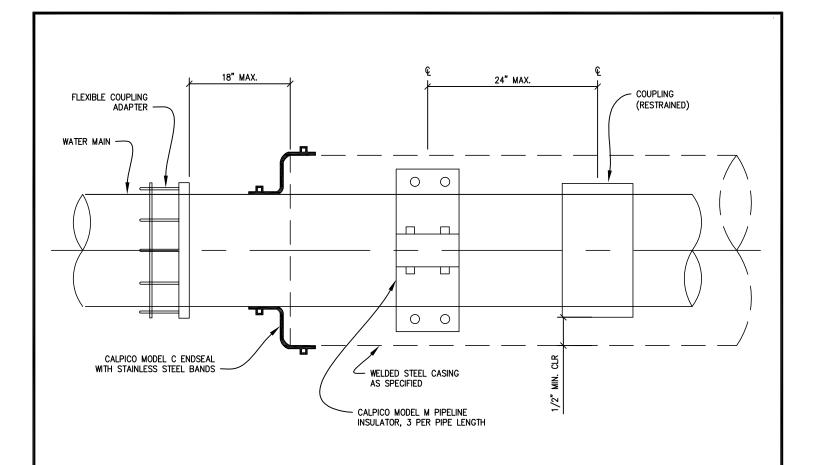
APPROVED BY

Smil Shebath

MANAGER

01/2015 DATE STANDARD PLAN

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## MINIMUM SIZE CASING REQUIRED

PIPE SIZE	6"	8"	10"	12"
CASING SIZE (INSIDE DIA.)	16"	16"	20"	20"
CASING WALL THICKNESS	0.250"	0.250"	0.250"	0.250"

### NOTES:

- INSTALL PIPELINE INSULATORS AND ENDSEALS PER MANUFACTURER'S SPECIFICATIONS. SKID HEIGHT SHALL BE SUCH THAT THE PIPE JOINTS CLEAR THE INSIDE OF THE
- CASING AS SHOWN.

  3. CADMIUM PLATED BOLTS SHALL BE USED TO SECURE THE PIPELINE INSULATOR SKIDS.



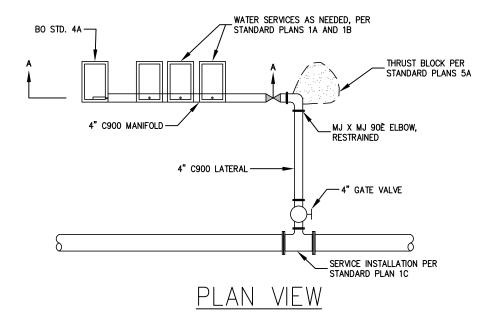
I	NO.	REV. DATE	BY
	1	OCT. 1992	JO
	2	APR. 1994	JO
	3	JAN. 1998	BEC
	4	DEC. 2003	BEC
	5	DEC. 2014	KSB

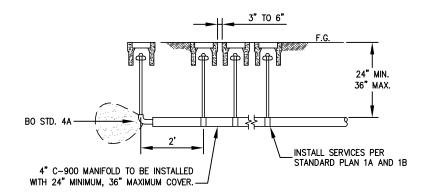
## WATER MAIN ENCASEMENT

APPROVED BY Pariel Shebath

01/2015 DATE

**STANDARD PLAN** 





SECTION "A-A"

#### NOTES:

 RESTRAINED JOINTS ARE REQUIRED FOR ALL NEW CONSTRUCTION FROM GATE VALVE TO END OF 4" MANIFOLD.



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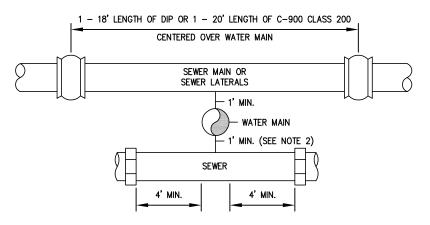
## **MULTI-SERVICE MANIFOLD**

APPROVED BY

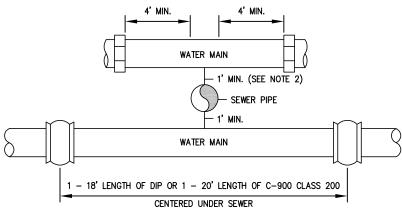
Spirit Shelvath

01/2015 DATE STANDARD PLAN

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SEWER OVER OR UNDER WATER



WATER OVER OR UNDER SEWER

## NOTES:

- ALL INSTALLATIONS SHALL CONFORM TO THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES "CRITERIA FOR THE SEPARATION OF WATER MAINS & SANITARY SEWERS".
- 2. PER STATE STANDARDS, A MIN. 1' VERTICAL CLEARANCE IS REQUIRED WHERE SEWER CROSSES A WATER MAIN. WHERE THERE IS LESS THAN 1' VERTICAL CLEARANCE, SPECIAL INSTALLATION IS REQUIRED AS APPROVED BY THE DISTRICT.
- 3. ANY PIPE/PIPE CROSSINGS WITH LESS THAN 6" VERTICAL CLEARANCE SHALL BE PADDED WITH STYROFOAM, FELT EXPANSION JOINT MATERIAL, OR OTHER EXPANSIVE MATERIALS BETWEEN PIPES AS APPROVED BY THE DISTRICT.



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# WATER-SEWER MAIN CROSSING DETAIL

APPROVED BY

Smil Shelveth

MANAGER

01/2015 DATE STANDARD PLAN

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#### **EXHIBIT "C"**

## **INSURANCE REQUIREMENTS**

**Minimum Scope and Limits of Insurance:** Contractor shall procure and maintain for the duration of the contract, *and for 5 years thereafter*, insurance against claims for injuries or death to persons or damages to property which may arise from or in connection with the performance of the work hereunder by the Contractor, his agents, representatives, employees, or subcontractors.

**Coverage -** Coverage shall be at least as broad as the following:

- 1. General Liability Commercial General Liability (CGL) Insurance Services Office (ISO) Commercial General Liability Coverage (Occurrence Form CG 00 01) including products and completed operations, property damage, bodily injury, personal and advertising injury with limit of at least five million dollars (\$5,000,000) per occurrence or the full per occurrence limits of the policies available, whichever is greater. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location (coverage as broad as the ISO CG 25 03, or ISO CG 25 04 endorsement provided to District) or the general aggregate limit shall be twice the required occurrence limit.
- 2. **Automobile Liability -** Insurance Services Office (ISO) Business Auto Coverage (Form CA 00 01), covering Symbol 1 (any auto) with limit of one million dollars (\$1,000,000) for bodily injury and property damage each accident.
- 3. Workers' Compensation Insurance -. The Contractor shall provide workers' compensation coverage as required by the State of California, with Statutory Limits, and Employer's Liability Insurance with limit of no less than \$1,000,000 per accident for bodily injury or disease. Waiver of Subrogation (also known as Transfer of Rights of Recovery Against Others to Us): The Contractor hereby agrees to waive rights of subrogation to obtain endorsement necessary to affect this waiver of subrogation in favor of the District, its directors, officers, employees, and authorized volunteers, for losses paid under the terms of this coverage which arise from work performed by the Named Insured for the District; this provision applies regardless of whether or not the District has received a waiver of subrogation from the insurer.
- 4. **Builder's Risk** (Course of Construction) if necessary- insurance utilizing an "All Risk" (Special Perils) coverage form with limits equal to the completed value of the project and no coinsurance penalty provision. See **Responsibility of Work**
- 5. **Contractor's Pollution Liability** (if project involves environmental hazards) with limits no less than \$5,000,000 per occurrence or claim, and \$10,000,000 policy aggregate.

If the Contractor maintains broader coverage and or/higher limits than the minimums shown above, the District requires and shall be entitled to the broader coverage and/or higher limits maintained by the Contractor. Any available insurance proceeds in excess of the specified minimum of insurance and coverage shall be available to the District)

**Other Required Provisions** – The Commercial General Liability policy and Contractors Pollution are to contain, or be endorsed to contain, the following provisions:

- 1. Additional Insured Status: District, its directors, officers, employees, and authorized volunteers are to be given insured status (at least as broad as ISO Form CG 20 10 11 85 or if not available, through the addition of both CG 20 10 10 01 and CG 20 37 10 01, with respect to liability arising out of work or operations performed by or on behalf of the Contractor including materials, parts, or equipment furnished in connection with such work or operations. General liability coverage can be provided in the form of an endorsement to the Contractor's insurance.
- Primary Coverage: For any claims related to this project, the Contractor's insurance coverage shall be primary at least as broad as ISO CG 20 01 04 13 as respects to the District, its directors, officers, employees, and authorized volunteers. Any insurance or self-insurance maintained by the District, its directors, officers,

employees, and authorized volunteers shall be excess of the Contractor's insurance and shall not contribute with it.

**Notice of Cancellation:** Each insurance policy required above shall provide that coverage shall not be canceled, except with notice to the District.

**Acceptability of Insurers -** Insurance is to be placed with insurers having a current A.M. Best rating of no less than A: VII or equivalent or as otherwise approved by District.

The Contractor agrees and he/she will comply with such provisions before commencing work. All of the insurance shall be provided on policy forms and through companies satisfactory to District. The District reserves the right to obtain complete, certified copies of all required insurance policies, including the policy declarations page with endorsement number. Failure to continually satisfy the Insurance requirements is a material breach of contract.

**Responsibility for Work -** Until the completion and final acceptance by District of all the work under and implied by this agreement, the work shall be under the Contractor's responsible care and charge. The Contractor shall rebuild, repair, restore and make good all injuries, damages, re-erections, and repairs occasioned or rendered necessary by causes of any nature whatsoever.

The Contractor shall provide and maintain **builder's risk** (course of construction) or an installation floater (for materials and equipment) covering all risks of direct physical loss, damage or destruction to the work in the amount specified in the General Conditions, to insure against such losses until final acceptance of the work by District. Such insurance shall insure at least against the perils of fire and extended coverage, theft, vandalism and malicious mischief, and collapse. The Policy shall be endorsed with District, its directors, officers, employees, and authorized volunteers named as loss payee, as their interest may appear. The making of progress payments to the Contractor shall not be construed as creating an insurable interest by or for District or be construed as relieving the Contractor or his/her subcontractors of responsibility for loss from any direct physical loss, damage or destruction occurring prior to final acceptance of the work by District.

**Deductibles and Self-Insured Retentions -** Insurance deductibles or self-insured retentions must be declared by the Contractor, and approved by the District. At the election of District the Contractor shall either cause the insurer to reduce or eliminate such self-insured retentions as respects the District, its directors, officers, employees, and authorized volunteers or the Contractor shall provide a financial guarantee satisfactory to the District guaranteeing payment of losses and related investigations, claim administration, and defense expenses. The policy language shall provide, or be endorsed to provide, that the self-insured retention may be satisfied by either the named insured or the District.

**Verification of Coverage - Evidences of Insurance** Contractor shall furnish the District with copies of certificates and amendatory endorsements effecting coverage required by this contract. All certificates and endorsements are to be received and approved by the District before work commences. However, failure to obtain the required documents prior to the work beginning shall not waive the Contractor's obligation to provide them. The District reserves the right to require complete, certified copies of all required insurance policies, including policy Declaration pages and Endorsement pages, required by these specifications, at any time. Failure to continually satisfy the Insurance requirements is a material breach of contract.

**Continuation of Coverage** - The Contractor shall, upon demand of District deliver evidence of coverage showing continuation of coverage for at least (5) years after completion of the project. Contractor further waives all rights of subrogation under this agreement When any of the required coverages expire during the term of this agreement, the Contractor shall deliver the renewal certificate(s) including the general liability additional insured endorsement and evidence of waiver of rights of subrogation against District (if builder's risk insurance is applicable) to District at least ten (10) days prior to the expiration date.

**Sub-Contractors -** In the event that the Contractor employs other Contractors (sub-contractors) as part of the work covered by this agreement, it shall be the Contractor's responsibility to require and confirm that each sub-contractor meets the minimum insurance requirements specified above (via as broad as ISO CG 20 38 04 13). The Contractor shall, upon demand of District, deliver to District copies such policy or policies of insurance and the receipts for payment of premiums thereon.

Meeting Date: September 6, 2023

Agenda Item: 5.A

## MEMORANDUM

TO: Valley of the Moon Water District Board of Directors

FROM: Oscar Madrigal, Finance Manager

SUBJECT: Monthly Financial Reports & Disbursements for July 2023

#### Revenue

• July's operating revenue was \$653,466, which was under budget by \$104,290 when periodized and \$2,285 when using a straight-line average. July operating revenue was \$45,538 more than last fiscal year. Water deliveries have increased, and we anticipate revenue to follow in the upcoming months.

#### Salaries

Salaries were under budget by 1% for July. This is partially due to the vacant Water System
Operator position. Salaries are also periodized and consider employees' step increases and
other earnings paid at specific times during the year.

#### **Purchased Water**

Purchased Water for July was over budget by \$65,949 when periodized.

#### Transfer to/from reserves

• The annual budgeted amount from undesignated reserves to O&M is \$682,323. Year to date, the District has transferred \$60,726 from undesignated reserves.

#### CIP

- YTD expenditures for CIP as of July 31, 2023, is \$480,761. This includes \$462,159 in expenditures for rollover CIP projects from FY 2022/23.
- Grant-funded projects are currently reported at the bottom of the CIP report. We are working
  on a better reporting format, and some bugs must be worked out before financial reports can
  be generated in our accounting system.

## Report of Investment

- The Undesignated Reserves are positive \$556,504 due to the savings from CIP projects from FY2022/23 and the use of capacity funds for CIP.
- Board Designated reserves amounts were updated according to reserve policy.

#### **Expenses**

• Expenses without purchased water were under budget by 1%. Some expense accounts are over budget due to purchasing budgeted items early in the fiscal year. Total expenses were under budget by 2%.

## Audit Update

• We continue to work with the auditors to complete the FY 2020-2021 audit. Once all pending requests are fulfilled, auditors will complete the audit report within the next couple of months.

## **Recommendation:**

Receive and approve, by roll call vote, the monthly financial reports and disbursements in the amount of \$868,913.74 for the month of July.

### **Attachments:**

Monthly Financial Disbursements
Board of Directors Disbursements
Monthly Revenue & Expense Comparison Report
Report of Investments
Capital Improvement Project Summary

## **VALLEY OF THE MOON WATER DISTRICT**

Monthly Financial Disbursements JULY 2023

## The following demands made against the District are listed for approval and authorization to pay, in accordance with Section 31302 of the California Water Code, being a part of the County Water District Law:

CK # Vendor Name	Invoice Description	Amou
0378 AFLAC	AFLAC PREMIUM (JUNE)	1,207.0
0379 AT&T	TELEPHONE - ADMIN OFFICES 05/22/23-06/21/23	47.0
0380 AUTOMATIONDIRECT.COM, INC.	WATER TREATMENT - PARTS AND MATERIALS	59.9
381 BSK ASSOCIATES	WATER QUALITY TESTING	2,459.
382 CINTAS	SERVICE TO REPLENISH EMERGENCY SUPPLIES AND AED LEASE AGREEMENT	451.
383 CORBIN WILLITS SYS'S, INC	MONTHLY ACCOUNTING & BILLING SOFTWARE (JULY)	959.
384 DEWITT'S TIRE RECYCLE & AUTO R	TRACTOR - PARTS/MATERIALS AND FLAT TIRE REPAIR	1,790.
385 EKI ENVIRONMENT & WATER	PROJ B80082.02 CONSULTING SRVCS 5/1/23-5/31/23	624.
386 FRIEDMAN'S HOME IMPROVEMENT	PARTS & MATERIALS: DONALD GEN BOOSTER INSTALL ,WELLS, G.E. TRANS & FIRE FLOW ; EQUIP MTNC/REPAIRS	574.
387 GARY'S POOL SERVICE	CHLORINE THRU 05/30/23	2,199.
0388 HONEY BUCKET NORTH BAY	TRAILER UNIT & SERVICE 06/19/23-07/16/23	205.
0389 INFOSEND, INC	JUNE STATEMENT: BILL PROCESSING AND POSTAGE	2,226.
0390 M. MASELLI & SONS, INC	PARTS AND MATERIALS	19.
0391 BADGER METER INC.	SERVICE REPLACEMENTS/NEW SERVICES - METERS	986.
0392 NICK BARBIERI TRUCKING, LLC	FUEL	1,625.
0393 PACE SUPPLY CORP.		17,594.
0394 PARSONS LUMBER & HARDWARE	PARTS & MATERIALS: G.E. TRANS & FIRE FLOW IMPROV, WELLS; 1" CV	17,394.
	EQUIPMENT MTNC/REPAIRS; FORKLIFT - PROPANE; SMALL TOOLS & EQUIPMENT; WELLS - PARTS & MATERIALS	
0395 PACIFIC GAS & ELECTRIC CO	UTILITIES (JUNE)	17,734.
0396 POWERPLAN	EQUIPMENT MTNC/REPAIRS	665.
0397 SUZANNE LARBRE	WATER PURCHASES: LARBRE WELL (JUNE)	4,137.
398 RECOLOGY SONOMA MARIN	TRASH DISPOSAL	537.
399 SAFETY-KLEEN CORP.	SHOP PART WASHER MAINTENANCE	531
0400 SONOMA VALLEY PEST CONT.	OUTSIDE SERVICES - PEST CONTROL	105
0401 SONOMA MEDIA INVESTMENTS, LLC.	PUBLIC NOTICE/INFORMATION	144
402 SONOMA LAFCO	FEES (COUNTY/STATE) LAFCO FY 2023-2024	7,322
403 STATIONARY ENGINEERS, LOCAL 39	UNION DUES FOR O&M (JUNE)	774
0404 STAPLES BUSINESS ADVANTAGE	OFFICE SUPPLIES	120
0405 BRANDON STEINER	CLOTHING ALLOWANCE - PANTS (FY23-24)	250
0406 WATER FARM LLC	WATER PURCHASES: CRAIG WELL (JUNE)	5,478
0407 JODY ARENS	CUSTOMER REFUND	57
408 KYLER FRITZ	CUSTOMER REFUND	15
1409 LAURIE PEDRONCELLI	CUSTOMER REFUND	62
0410 RITTER'S WELDING & FABRICATION	REPAIRS ON DUMP TRUCK	1,150
0411 NOR CAL CONTRACTING, INC.	EV PLUGS/SOLAR PANELS - DEPOSIT/MATERIALS	49,489
0412 ACWA/JOINT POWERS INS	ACWA JPIA PROPERTY PROGRAM 07/01/23-06/30/24	28,394
0413 ACWA/JPIA	GROUP INSURANCES (AUGUST)	2,823
0414 AUTOMATIONDIRECT.COM, INC.	ENCLOSURE BOX FOR TRANSMITTER - STORAGE/TANKS	436
0415 BSK ASSOCIATES	WATER QUALITY TESTING	1,765
0416 BURKE, WILLIAMS & SORENSEN, LL	ATTORNEY FEES, LABOR NEGOTIATIONS, SDC WATER SUPPLY ASSESSMENT, LARBRE WELL AGREEMENTS (JUNE)	21,425
0417 CALTEST LABORATORY	ROUTINE WATER TESTING (JUNE)	1,567
0418 CALIFORNIA SURVEYING/DRAFTING	SMALL TOOLS AND EQUIPMENT	697
0419 CAL-WEST RENTALS INC.	MESSAGE BOARD RENTAL	1,425
0420 CERVANTES LANDSCAPE, LLC	LANDSCAPING SERVICES (JUNE)	250
0421 CINTAS	SERVICE TO REPLENISH EMERGENCY SUPPLIES	211
0422 COMCAST	INTERNET SERVICE (JULY)	267
0423 CORE UTILITIES, INC.	CONSULTING SERVICES (JUNE)	720
1424 EKI ENVIRONMENT & WATER	• •	
	PARK & VERANO WELL ASR; WELL NO.11 REDRILL; CHESTNUT EXPLOR. WELL; YRLY WTR SUP & DEMAND ANALYSIS	62,104
0425 CHRIS A HAMZAEFF	CASH FOR GRASS	550
1426 LEETE GENERATORS	GENERATOR - REPAIR/STARTUP LABOR	3,855
427 ERIN MACLEOD	WASHING MACHINE REBATE	50
428 PACIFIC GAS & ELECTRIC CO	UTILITIES SADDLE ROAD (JUNE)_	12
429 THE RENTAL PLACE	EQUIPMENT RENTAL	66
430 ANSWERNET	MONTHLY ANSWERING SERVICES (JULY)	142
431 SMILE BUSINESS PRODUCTS	MONTHLY PRINTER LEASE 07/10/23-08/09/23	39
432 NAPA AUTO PARTS	VEHICLE MTNC - PARTS/MATERIALS	305
433 SONOMA CO. WATER AGENCY	WATER PURCHASES 05/31/23-06/29/23	190,114
434 SONOMA MATERIALS	G.E. TRANS & FIRE FLOW IMPROV-PARTS/MATERIALS	283
435 STAPLES BUSINESS ADVANTAGE	OFFICE SUPPLIES	117
436 SOILAND CO., INC.	ROCK MATERIAL	850
437 USA BLUEBOOK	STORAGE/TANKS - TRANSMITTER (2)	899
438 U.S. BANK EQUIPMENT FINANCE	EQUIPMENT REPLACEMENT - SHARP COPIER	104
0439 VERIZON WIRELESS	MACHINE TO MACHINE 06/13/23-07/12/23	205
0440 CALMAT COMPANY DBA	CUTBACK	2,090
0441 VERIZON WIRELESS	CELLPHONE SERVICE 06/04/23-07/03/23	385
0443 TRUCK TOPS USA	NEW TRUCK (RACK/LIGHTS/FUEL TANK/ETC.)	6,999
0444 PETTY CASH	FUEL: TRUCK #39; STAPLES: TONER FOR SCADA ROOM PRINTER & PRINTING PLANS	94
ACH CALIFORNIA EMPLOYMENT DEVELOPMENT	STATE PAYROLL TAXES 07/13/23	3,078
ACH CALIFORNIA EMPLOYMENT DEVELOPMENT	STATE PAYROLL TAXES 07/27/23	3,033
	STATE SPECIAL PAYROLL TAXES 07/27/23	184

## **VALLEY OF THE MOON WATER DISTRICT**

## Monthly Financial Disbursements JULY 2023

CK # Vendor Name	Invoice Description	Amount
ACH EFTPS FEDERAL TAX WITHHOLDING	FEDERAL PAYROLL TAXES 07/13/23	16,120.78
ACH EFTPS FEDERAL TAX WITHHOLDING	FEDERAL PAYROLL TAXES 07/27/23	15,997.45
ACH EFTPS FEDERAL TAX WITHHOLDING	FEDERAL SPECIAL PAYROLL TAXES 07/27/23	916.74
ACH EXPERTPAY.COM	PERSONNEL-RELATED DISBURSEMENT 07/13/23	333.69
ACH EXPERTPAY.COM	PERSONNEL-RELATED DISBURSEMENT 07/27/23	333.69
ACH PAYMENTUS CORPORATION	TRANSACTION FEES FOR JULY 2023	957.30
ACH PAYMENTUS CORPORATION	TRANSACTION FEES FOR JUNE 2023	749.80
ACH PERS	CLASSIC RETIREMENT CONTRIBUTION PAYROLL 07/27/23	2,800.12
ACH PERS	CLASSIC RETIREMENT CONTRIBUTION PAYROLL 07/13/23	2,800.12
ACH PERS	DEFERRED COMP CONTRIBUTION PAYROLL 07/13/23	1,850.00
ACH PERS	DEFERRED COMP CONTRIBUTION PAYROLL 07/27/23	1,850.00
ACH PERS	HEALTH INSURANCE PREMIUM (JULY)	27,783.52
ACH PERS	PEPRA RETIREMENT CONTRIBUTION PAYROLL 07/13/23	7,685.68
ACH PERS	PEPRA RETIREMENT CONTRIBUTION PAYROLL 07/27/23	7,540.84
ACH PERS	UNFUNDED ACCRUED LIABILITY RATE PLAN 957	229,834.00
ACH RETIREES	RETIREES BENEFITS (JULY)	2,730.99
ACH VALIC	401A CONTRIBUTION PAYROLL 07/13/23	250.00
ACH VALIC	401A CONTRIBUTION PAYROLL 07/27/23	250.00
ACH VALIC	DEFERRED COMP CONTRIBUTION PAYROLL 07/13/23	2,200.00
ACH VALIC	DEFERRED COMP CONTRIBUTION PAYROLL 07/27/23	2,200.00
ACH WESTAMERICA BANK	OFFICE PHONES & SUPPLIES, EQUIP. MTNC/REPAIRS, TRAINING, COUNTY FEES, EE RELATIONS, SUBSCRIPTIONS	1,636.49
ACH WESTAMERICA BANK	BANK CHARGES (JUNE 2023)	589.10
BOARD PRESIDENT	Net Payroll (After Deductions)	84,210.54
		868,913.74

GENERAL MANAGER

Board of Directors July Disbursement

Regular Board Meeting 07/12/23	Pay Date 7/27/2023	Bryant F 216.00	Foreman 216.00	Caniglia 216.00	Rogers 216.00	Yudin-Cowan 216.00
	Total	216.00	216.00	216.00	216.00	216.00

### VALLEY OF THE MOON WATER DISTRICT MONTHLY REVENUE AND EXPENSE COMPARISON PERIOD ENDING JULY 31, 2023

92% of year remaining

	Actual	Actual	Approved Budget	Approved Budget (Monthly)	Current Month Actual	Variance (Mo)	Budget (YTD)	Fiscal Year To Date Actual	Variance (YTD)	Budget Remaining	% Remaining	
	21-22	22-23	23-24	JULY	JULY	JULY	07/23-06/24	07/23-06/24	07/23-06/24	23-24	23-24	Forecasting Notes & Significant Changes for 2023-2024
Revenues												
Interest Income	\$ 19,274	71,846	\$ 50,000	\$ 4,167	37,507	33,340 \$	4,167	\$ 37,507	\$ 33,340	\$ 12,493	25%	nterest yield higher than projected
Gain on Sale of Assets	-	-	-	\$ -	-	- \$	· -	-	\$ -	-	-	
Operating Revenue	6,525,838	6,362,546	7,814,166	\$ 757,756	653,466	(104,290) \$	757,756	653,466	\$ (104,290)	7,160,700	92%	
Backflow Testing Revenue	21,357	45,681	53,821	\$ 4,485	2,278	(2,207) \$	4,485	2,278	\$ (2,207)	51,543	96%	
Customer Penalties & Fees	38,091	63,987	23,211	\$ 1,934	4,443	2,509 \$	1,934	4,443	\$ 2,509	18,768	81%	
Misc. Income	80,673	31,884	12,000	\$ 1,000	2,653	1,653 \$	1,000	2,653	\$ 1,653	9,347	78%	
Leak Adjustments	(4,287)	(8,393)	(9,613)	\$ (932)	(93)	840 \$	(932)	(93)		(9,520)	99%	
Total Revenue	6,680,946	6,567,551	7,943,586	768,410	700,254	(68,156)	768,410	700,254	(68,156)	7,243,331	91%	
Expenses Salaries:												
O&M - Operating Wages	900,786	962,035	1,156,283		78,438	(6,601) \$		78,438	(6,601)	1,077,845	93%	
Stand-By	33,313	32,103	32,098		2,478	(197) \$		2,478	(197)	29,620	92%	
Net O&M Operating Wages	934,099	994,138	1,188,380	87,713	80,916	(6,798)	87,713	80,916	(6,798)	1,107,465	93%	
Administration	543,911	613,051	688,660	51,752	51,410	(342) \$	51,752	51,410	(342)	637,250	93%	
Temporary Employees	-	-	-	-	-	- \$	-	-		-		
Total Salaries	1,478,010	1,607,189	1,877,041	139,466	132,326	(7,140)	139,466	132,326	(7,140)	1,744,715	93%	
Weighted Wages Transferred to Capital												
Projects	(553,515)	(601,892)	(469,260)	(34,512)	(33,081)	1,430 \$	(34,512)	(33,081)	1,430	(436,179)	93%	
Net Operating Wages	924,495	1,005,297	1,407,781	104,954	99,244	(5,710)	104,954	99,244	(5,710)	1,308,536	93%	Net Wages used to calculate Net Position

## VALLEY OF THE MOON WATER DISTRICT MONTHLY REVENUE AND EXPENSE COMPARISON PERIOD ENDING JULY 31, 2023

92% of year remaining

	• •	LINIOD LINDI	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1										
	Actual	Actual	Approved Budget	Approved Budget (Monthly)	Current Month Actual	Variance (Mo)	Budget (YTD)	Fiscal Year To Date Actual	Variance (YTD)	Budget Remaining	% Remaining		
	21-22	22-23	23-24	JULY	JULY	JULY	07/23-06/24	07/23-06/24	07/23-06/24	23-24	23-24	Forecasting Notes & Signific Changes for 2023-2024	
Benefits:													
O&M - Operating & Maintenance	173,563	195,575	226,708	18,892	17,509	(1,383) \$	18,892	17,509	(1,383)	209,199	92%		
Administration	102,724	122,828	128,668	10,722	10,478	(244) \$	10,722	10,478	(244)		92%		
Retirees	66,250	62,324	66,702	5,558	4,827	(731) \$	5,558	4,827	(731)		93%		
Total Benefits	342,537	380,727	422,078	35,173	32,814	(2,359)	35,173	32,814	(2,359)		92%		
Mandatory Costs	342,337	300,727	422,070	33,173	32,014	(2,333)	33,173	32,014	(2,555)	303,204	3270		
Workers Comp:													
Operating & Maintenance	39,666	50,657	55,671	4,639	_	(4,639) \$	4,639		(4,639)	55,671	100%		
Acct/Administration	6,318	6,814	7,519	627	_	(627) \$	627	_	(627)		100%		
FICA/Medicare:	· ·		•			- \$	-		`- '	,			
Operating & Maintenance	71,069	76,190	86,354	7,196	6,119	(1,077) \$	7,196	6,119	(1,077)	80,235	93%		
Administration	37,152	41,731	50,662	4,222	3,643	(579) \$	4,222	3,643	(579)	47,019	93%		
District Portion/Retirement:						- \$	-		-				
Operating & Maintenance	82,289	88,765	100,007	8,334	7,345	(989) \$	8,334	7,345	(989)	92,662	93%		
Administration	59,223	65,275	77,033	6,419	5,845	(574) \$	6,419	5,845	(574)	,	92%		
CalPERS Accrued Liability	217,969	241,836	235,000	19,583	19,153	(431) \$	19,583	19,153	(431)		92%		
Total Mandatory Costs	513,686	571,268	612,245	51,020	42,105	(8,916)	51,020	42,105	(8,916)	570,140	93%		
Travel & Training													
Operating & Maintenance	3,924	4,066	8,466	705	195	(510) \$	705	195	(510)		98%		
Administration	4,041	3,547	12,768	1,064	-	(1,064) \$	1,064	-	(1,064)		100%		
Total Travel & Training	7,965	7,613	21,234	1,769	195	(1,574)	1,769	195	(1,574)	21,039	99%		
Board of Directors:													
Meeting Compensation	17,269	19,235	33,580	2,798	1,163	(1,635) \$	2,798	1,163	(1,635)	32,417	97%		
Travel & Training	4,045	3,334	9,363	780	92	(688) \$	780	92	(688)		99%		
Total Board Expenses	\$ 21,314				1,255	(2,324)	3,579	1,255	(2,324)		97%		
Total Board Expenses	<del>→</del> 21,514	2 22,303	<del>7 42,543</del>	<del>y</del> 3,373	1,233	(2,324)	3,373	1,233	(2,324)	41,000	3770		
Purchased Water													
Purchased Water	\$ 2,051,745	\$ 1,900,631	\$ 2,279,970	221,093	287,042	65,949 \$	221,093	287,042	65,949	1,992,928	87%		
GSA Fee	25,000	7,393	\$ 15,000	1,250	619	(631) \$	1,250	619	(631)	14,381	96%		
Total Purchased Water	\$ 2,076,745	\$ 1,908,024	\$ 2,294,970	\$ 222,343	\$ 287,661	\$ 65,318 \$	222,343	\$ 287,661	\$ 65,318	\$ 2,007,309	87%		

## VALLEY OF THE MOON WATER DISTRICT MONTHLY REVENUE AND EXPENSE COMPARISON PERIOD ENDING JULY 31, 2023

92% of year remaining

	PI	EKIOD ENDIN	NG JULY 31, .	2023								
	Actual	Actual	Approved Budget	Approved Budget (Monthly)	Current Month Actual	Variance (Mo)	Budget (YTD)	Fiscal Year To Date Actual	Variance (YTD)	Budget Remaining	% Remaining	Face-outing Natura C Circuiting
	21-22	22-23	23-24	JULY	JULY	JULY	07/23-06/24	07/23-06/24	07/23-06/24	23-24	23-24	Forecasting Notes & Significant Changes for 2023-2024
												Changes for 2023 2024
Services & Supplies												
Safety & Clothing Allowance	16,082	16,522	24,573	2,048	1,340	(708) \$	2,048	1,340	(708)	23,233	95%	
COVID-19 Response	1,315	593		-	-	- \$		-	-			
	44740	40.000	0.450	760	2.450	4.005 4	760	2.450	1 200	5 004	760/	Dump Truck Repair
Vehicle Maintenance Election Costs	14,749	18,608 25,854	9,150	763	2,159	1,396 \$ - \$		2,159	1,396	6,991	76%	
Employee Relations	3,850	3,956	4,570	381		(399) \$		(18)	(399)	4,588	100%	
Legal Fees	78,483	114,012	84,000	7,000	, ,	28,248 \$		35,248	28,248	48,752	58%	
SDC Expenses	-	-	30,000	2,500		(2,500) \$		-	(2,500)	30,000	100%	
HR Expenses	_	-	10,000	833		(833) \$		_	(833)	10,000	100%	
Engineering General Support	_	2,045	3,830	319		1,328 \$		1,647	1,328	2,183	57%	
Advertising	945	732	4,000	333		(333) \$		-	(333)	4,000	100%	
Outside Services	26,355	32,992	43,143	3,595		(2,586) \$		1,009	(2,586)	42,134	98%	
Outside Services Backflow	15,992	23,374	53,821	4,485	-,003	(4,485) \$		-	(4,485)	53,821	100%	
Annual Audit	7,956	-	20,651	1,721	_	(1,721) \$		_	(1,721)	20,651	100%	
Bad Debts/Collections	12,032	26,950	16,000	1,333		302 \$		1,635	302	14,365	90%	
Building MTNC.	7,149	8,573	11,026	919		955 \$		1,874	955	9,152	83%	
Dues and Subscriptions	15,998	24,984	26,801	2,233		(327) \$		1,906	(327)	24,895	93%	
Equipment MTNC./Repairs	18,666	23,795	30,856	2,571		(956) \$		1,615	(956)	29,241	95%	
Fees (County/State)	53,760	63,441	71,248	5,937		1,494 \$		7,431	1,494	63,817	90%	
Fuel	31,084	33,775	34,739	2,895		(856) \$		2,039	(856)	32,700	94%	
Bank Charges	8,937	11,297	16,003	1,334		1,437 \$		2,771	1,437	13,232	83%	
Liability Ins. (Incl. Losses)	54,033	70,079	87,664	7,305		(810) \$		6,495	(810)	81,169	93%	
Postage	24,663	20,663	26,600	2,217		(475) \$		1,742	(475)	24,858	93%	
Public Information	15,641	6,324	5,723	477		(23) \$		454	(23)	5,269	92%	
Service Contracts	53,813	68,448	82,511	6,876		(2,903) \$		3,973	(2,903)	78,538	95%	
Office Supplies	9,359	12,563	11,485	957		(64) \$		893	(64)	10,592	92%	
Telephone-Internet	14,490	16,243	16,980	1,415		5 \$		1,420	5	15,560	92%	
relephone internet	14,430	10,243	10,500	1,415	1,420	3 4	1,415	1,420	3	13,300		Budgeted items purchased early in the
Small Tools & Equipment	7,142	19,590	30,812	2,568	8,658	6,090 \$	2,568	8,658	6,090	22,154	72%	fiscal year.
Trash Disposal	7,964	6,133	6,357	530	583	53 \$	530	583	53	5,774	91%	
Utilities - PG&E	135,454	181,618	170,240	14,187	20,738	6,551 \$	14,187	20,738	6,551	149,502	88%	
Professional Services	116,666	124,312	123,211	10,268	9,055	(1,213) \$	10,268	9,055	(1,213)	114,156	93%	
Water Testing	31,742	46,360	48,076	4,006	1,098	(2,908) \$		1,098	(2,908)	46,978	98%	
Water Main Maintenance	86,465	5,142	48,412	4,034	-	(4,034) \$	4,034	-	(4,034)	48,412	100%	
Service Line Maintenance	5,941	6,190	10,959	913	-	(913) \$	913	-	(913)	10,959	100%	
Hydrant Repairs	2,282	1,414	4,256	355	-	(355) \$	355	-	(355)	4,256	100%	
Misc. System Maintenance	4,369	6,243	7,858	655	250	(405) \$		250	(405)	7,608	97%	
Wells Maintenance	7,733	12,305	13,723	1,144	242	(902) \$	1,144	242	(902)	13,481	98%	
Pump Maintenance	2,412	9,224	10,621	885	243	(642) \$	885	243	(642)	10,378	98%	
Storage Tank Maintenance	16,026	8,930	8,512	709	1,528	819 \$	709	1,528	819	6,984	82%	
Water Conservation Program	40,454	18,486	19,000	1,583	1,150	(433) \$	1,583	1,150	(433)	17,850	94%	
Interest Expense	18,905	(38)	0			- \$		-	-	-	0%	
Equipment Replacement	2,288	3,020	3,000	250		(34) \$		216	(34)	2,784	93%	
Total Services & Supplies	971,195	1,074,752	1,230,411	102,534	119,394	16,860	102,534	119,394	16,860	1,111,017	90%	
Total Expenses	4,857,937	4,970,250	6,031,661	521,373	582,668	61,295	521,373	582,668	61,295	5,448,993	90%	
Revenues Less Expenses	1,823,009	1,597,301	1,911,924	247,037	117,586	(129,450)	247,037	117,586	(129,450)	1,794,338	94%	
O&M Allocation to CIP	(1,998,898)	(2,494,894)	(682,323)	(56,860)	(56,860)	- \$	(56,860)	(56,860)	-	(625,463)	92%	
Transfer to/from Undesignated Reserves	\$ (175,889)	\$ (897,592)	\$ 1,229,601	\$ 190,176	\$ 60,726	\$	190,176	\$ 60,726		\$ 1,168,875	95%	

## VALLEY OF THE MOON WATER DISTRICT REPORT OF INVESTMENTS AND RESERVES For the Month Ended July 2023

## Start of Fiscal Year

	Start of Fiscal Tear							
	LA	IF	\$	3,186,228				
	SC	ΙP		623,332				
We	stamerica Bank Checking/Petty Cas	sh		518,516				
	יד	V١		511,592				
	Total Beginning Cas	h _	\$	4,839,668	-			
		_			_			
	Year To Date							
	LA	IF	\$	3,186,228				
	SC	ΙP		623,332				
We	estamerica Bank Checking/Petty Cas	sh		518,516				
	יד	V١		511,592				
	Total ending Cas	h _	\$	4,839,668	•			
		L	_AIF		SCIP			
Ave	rage Rate of Interest			3.305%		2.415%		
				g Payments	\$	(13,758)		
	Adjusted Cash/I	nve	estm	ent Balance		4,825,909		
(1) D.	and Designated Desartes (5		1	22/24 2 1 1)				
	oard Designated Reserves (Board Appl					(1,509,932)		
(a)	(a) Operations & Maintenance Reserve (3 Months Operations)							
	(b) Rate Sta					(642,828)		
	(c) Capital Impr					(870,000)		
	Total Board D					(3,022,760)		
	Remaining Cash/In	ives	stme	nt Balance	\$	1,803,149		
	D : C	٠.		D. I		(1 200 015)		
	Previous Cap					(1,300,015)		
	(2) Year To Date Capacity Fees (					(22,060)		
	Capacity Fe					1,200,000		
	Total Capacity Fe	es	Resti	ricted Funds		(122,075)		
	(2) = (2)							
	(3) FY 2023-2024 Board Approve		•	-		(1,874,494)		
	Year to Date Capital Proje	ect	Disb	ursements		18,602		
Remaining Tran		ect	Disb	ursements				
Remaining Tran	Year to Date Capital Proje sfer of Current Year Revenues to Ca	ect apit	Disb al Pr	ursements		18,602		
Remaining Tran	Year to Date Capital Proje sfer of Current Year Revenues to Ca	ect apit r Pr	Disb al Pr rojec	ursements oject Fund ts FY21-22		18,602 1,718,286		
Remaining Tran	Year to Date Capital Proje sfer of Current Year Revenues to Ca Rollove	ect apit r Pr cts	Disb al Projec Disb	ursements oject Fund ts FY21-22 ursements		18,602 1,718,286 (1,449,124)		
Remaining Tran	Year to Date Capital Proje sfer of Current Year Revenues to Ca Rollove Year to Date Rollover Proje	ect apit r Pr cts	Disb al Projec Disb	ursements oject Fund ts FY21-22 ursements		18,602 1,718,286 (1,449,124) 462,159		
	Year to Date Capital Proje sfer of Current Year Revenues to Ca Rollove Year to Date Rollover Proje	ect apit r Pr cts Inex	Disb al Projec Disb xpen	ursements oject Fund ts FY21-22 ursements ded funds	\$	18,602 1,718,286 (1,449,124) 462,159		

Project #	Project	Improvement Description	CIP Roll Over	Current CIP Budget	Total CIP Budget	Current Month - JUL	YTD Expenditures	Budget Remaining	% Remaining
			2022/23	2023/24	2023/24				
Facilities and I	Maintenance Projects								
CIP-3006	Install EV Plugs and Solar on Office/Shop	Solar on shop, office, and shade structure. Install EV plugs in yard and office parking for District EVs	127,979		127,979	49,489	49,489	78,489	61%
CIP-3013	· •	These two vehicles were purchased at the same time about 20 years ago and have higher mileage. Replacement is needed to maintain fleet reliability.	23,718		23,718	13,999	13,999	9,719	41%
CIP-3015	Caltrans Project on Hwy 12	Work done by Caltrans affecting District facilities.	50,000	-	50,000	-	-	50,000	100%
CIP-5107	County of Sonoma Paving Projects requiring adjustments and or relocation of District facilities	Work done by the County of Sonoma affecting District facilities on Cherry Avenue and Riverside Drive.	-	78,327	78,327	-	-	78,327	100%
CIP-6001	New Services	Customer pays 100%.	-	-	-	10,555	10,555		
CIP-6004	All Service Replacements	All service replacements combined.	-	38,076	38,076	8,047	8,047	30,029	79%
CIP-8100	Valve Replacement Program	Valve replacement for system reliability and control.	-	31,484	31,484	-	-	31,484	100%
CIP-9300		Part "roll-over" moving to supported software and shifting from a physical server to cloud based. Remainder is to buy and install one new AMI collector for better system backhaul. The AMI meters will need to be replaced beginning year 7 to stay ahead of battery life expectancy.	8,909	16,318	25,227	3,339	3,339	21,888	87%
CIP-3017	Installation of generator at Donald Booster	Using a generator purchased in previous fiscal year. Installation cost only.	6,623		6,623	3,855	3,855	2,768	42%
TBD	Seismic Vulnerability Assessment (LHMP)	From LHMP. FY1: application for grant funding FY2: carry out assessment. 25% district match. Outsource grant management.	-	21,758	21,758	-	-	21,758	100%
TBD	Lead Service Line Inventory	LCRR - Required by federal EPA.	-	195,818	195,818	-	-	195,818	100%
TBD	Emergency Preparedness	Update parts and repair clamps in the emergency trailer. Provide MREs and emergency response PPE to ensure system reliability in the days following a major disaster.		32,636	32,636	-	-	32,636	100%
TBD	Energy Consumption Evaluation	Engineering level energy evaluation. May result in additional CIP recommendations that will help reduce overall power consumption saving the District money and reducing greenhouse gas emissions.	-	32,636	32,636	-	-	32,636	100%
Total Facilities and Maintenance Projects			217,229	447,054	664,282	89,285	89,285	574,998	87%

Project #	Project	Improvement Description	CIP Roll Over	Current CIP Budget	Total CIP Budget	Current Month - JUL	YTD Expenditures	Budget Remaining	% Remaining
			2022/23	2023/24	2023/24				
Pipeline Projects									
	WMP: P-2. Glen Ellen Transmission and Fire Flow Improvement	Replace existing 6-inch and 8-inch steel and ACP water mains with new 10-inch and 12-inch PVC water mains, replace existing service connections, and replace existing fire hydrants. RFP sent 03/2020. Engineering 07/2020, Construction to begin Spring 2021.	164,916	-	164,916	102,222	102,222	62,694	389
	WMP: P-5A. Pressure Zone 3D Fire Flow Improvement	Replace existing 4-inch ACP, PVC, and DIP water mains with new 8-inch PVC throughout PZ-3D, replace eight existing service connections, and replace one existing fire hydrants. Model 1800 Conveyor included.	•	565,697	565,697		•	565,697	100
	WMP: P-7. Altamira Middle School Fire Flow Improvement	Replace existing 6-inch and 8-inch PVC and ACP water mains with new 12-inch PVC water mains along Arnold Drive, replace existing 6-inch pipe with new 8 and 12-inch pipe adjacent to Altamira Middle School, replace 15 existing service connections, and replace three existing fire hydrants.	-	191,467	191,467	·	-	191,467	100%
Total Pipeline Projects			164,916	757,163	922,079	102,222	102,222	819,857	899

				Current CIP	Total CIP	Current	YTD	Budget	
Project #	Project	Improvement Description	CIP Roll Over	Budget	Budget	Month - JUL	Expenditures	Remaining	% Remaining
			2022/23	2023/24	2023/24				
Wells,									
Pumping, &									
Supply									
	Chestnut Exploratory Well	Develop a minimum 100gpm District owned Well.	197,920	501,656	699,576	17,376	17,376	682,200	98%
CIP-2989	Redrill Park	Drilled next to & operated with existing well. Develop a minimum 100gpm District	869,059	-	869,059	271,878	271,878	597,181	69%
		owned Well.							
CIP - 3026	VFDs on all well pumps	Install VFDs at AC and Donald	-	32,636	32,636	-	-	32,636	100%
TBD	Pump Station Battery Wall	A battery wall would operate the remote site during power outages unless a large	-	54,394	54,394	-	-	54,394	100%
		power demand occurs (i.e. water pumps are called by SCADA) in which case the existing							
		generator would turn on and supply the needed power. This would reduce the number							
		of fuel deliveries needed in an emergency , increasing the District's staff time to							
		respond to the emergency in other ways (i.e. leak response/system inspections etc.)							
Total Wells			1,066,979	588,687	1,655,666	289,255	289,255	1,366,411	83%
Tanks									
CIP-3032	Tank Site Solar upgrade	Right size the solar equipment and use industry standard batteries and enclosures. Engineered by professional and installed by VOMWD staff.	-	81,591	81,591	-	-	81,591	100%
Total Tanks			-	81,591	81,591	-	-	81,591	100%
						Current	YTD	Budget	
		Total	FY 22-23	FY 23-24	FY 23-24	Month - JUL	Expenditures	Remaining	% Remaining
		Total Water System Improvements:	\$ 1,449,124	\$ 1,874,494	\$ 3,323,618	\$ 480,761	\$ 480,761	\$ 2,842,857	86%
						Current	Net Project		
ASR Projects						Month - JUL	Expenditures		
	Park Well ASR	Grant Funded Projects	-	-	-	331,394	566,220	-	
	Verano Well ASR	Grant Funded Projects	-	-	-	19,165	51,845	-	
Total Tanks			-	-	-	350,560	618,064	-	-

Agenda Item: 5.B

## MEMORANDUM

TO: Valley of the Moon Water District Board of Directors

FROM: Amanda Hudson, Administration Manager

SUBJECT: Administrative Report

## Delinquent Payments & Shut off for Non-pay

- Currently, there are 11 customers on deferred payment plans as of September 1, 2023. This is the same number of deferred payment plans reported last month.
- There were 12 shut-offs for non-payment in the month of August; this is three (3) more than last month.

#### **FEMA**

Saddle Tank project \$659,422 / Admin time toward FEMA projects \$16,892

- All information requested by CalOES for the Saddle Tank project has been submitted.
- Our closeout package is currently with the Quality Review with CalOES and should be going to FEMA soon.
- Per my phone call with our Closeout Specialist on 8/15/2023, I learned the following:
  - Closeout is the last piece in the FEMA process. Usually, folks are 80-90% reimbursed when they go to closeout. For future reference, drawdown can be made with FEMA while going through the project on periodic basis similar to a contractor to owner contact. It is my assumption that this didn't happen because of changes in District staff managing the grant.
  - CalOES keeps most of their resources (contracted staff) to respond to current emergencies. There are only 100 Closeout Specialists in the State, and they are focused on current emergencies to get the work processed.
  - o I will be making monthly phone calls to follow up with our Closeout Specialist.

Agenda Item: 5.C

## MEMORANDUM

TO: Valley of the Moon Water District Board of Directors

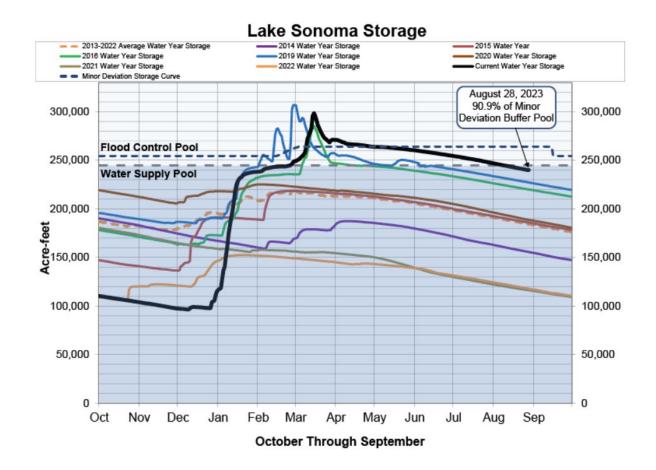
FROM: Brian Larson, Water System Manager

SUBJECT: Water Supply & Water Source Update

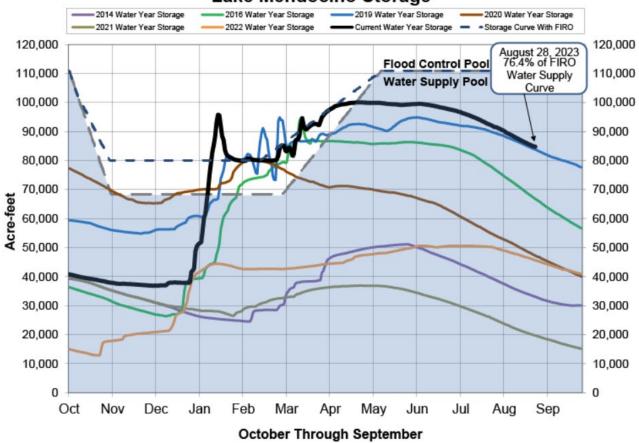
## Water source report:

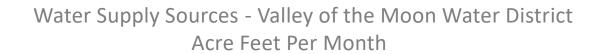
The wells produced over 18% of the District's overall demand for the month of July.

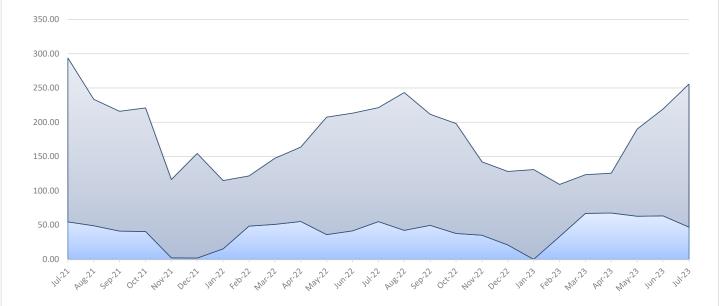
Lake Sonoma was 90.9% of the minor deviation buffer pool, and Lake Mendocino was 76.4% (FIRO) of the Target Curve as of August 28, 2023.



## Lake Mendocino Storage

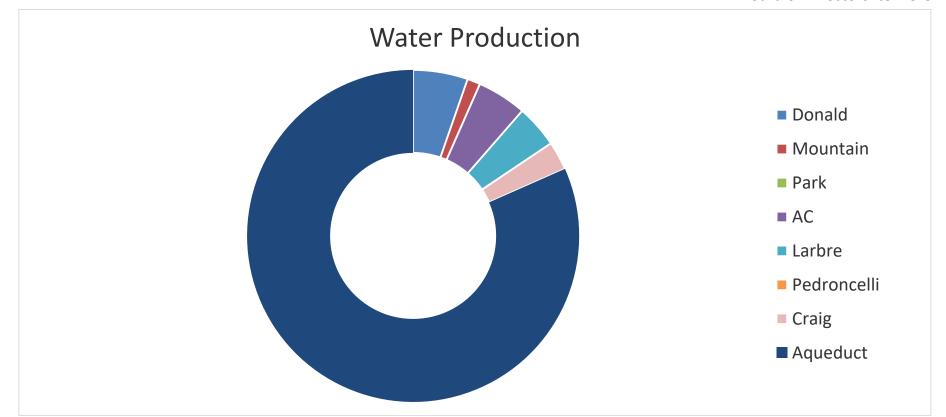








									Total		Total AF	Total AF
Month	Donald	Mt Ave	Park Ave	Agua Cal	Larbre	Pedroncelli	Craig	Aqueduct	Wells	Wells %	Produced	Deliveries
Jul-21	10.73	6.86	8.92	14.11	13.98			239.11	54.60	18.59%	293.71	227.34
Aug-21	10.39	5.26	6.31	16.46	10.65			184.36	49.06	21.02%	233.42	271.80
Sep-21	10.10	3.77	5.71	10.91	10.63			174.88	41.11	19.03%	215.99	210.14
Oct-21	10.39	4.14	5.77	11.50	8.89			180.17	40.69	18.42%	220.86	235.86
Nov-21	2.23	0.00	0.02	0.00	0.00			114.03	2.25	1.94%	116.28	157.57
Dec-21	1.90	0.00	0.00	0.00	0.00			152.50	1.90	1.23%	154.39	122.23
Jan-22	4.34	2.51	0.06	4.97	3.42			99.69	15.29	13.30%	114.99	110.00
Feb-22	12.27	7.24	4.02	12.19	12.67			73.20	48.39	39.80%	121.59	105.55
Mar-22	12.16	6.86	9.48	8.53	13.89			96.54	50.92	34.53%	147.46	127.09
Apr-22	15.24	3.06	7.71	13.90	15.29			108.54	55.20	33.71%	163.74	162.19
May-22	11.97	1.24	0.00	10.21	12.67			171.28	36.09	17.40%	207.37	147.34
Jun-22	12.00	4.39	0.00	11.73	13.39			171.77	41.51	19.46%	213.28	194.74
Jul-22	14.57	7.90	2.26	13.95	16.32			166.28	55.00	24.85%	221.27	192.42
Aug-22	11.21	5.67	4.65	9.94	10.87			200.95	42.33	17.40%	243.28	228.25
Sep-22	13.74	2.48	6.06	13.31	13.93			162.02	49.51	23.41%	211.53	203.41
Oct-22	10.71	0.00	4.78	9.88	4.77	0.02	7.58	160.39	37.73	19.04%	198.12	215.41
Nov-22	9.72	0.00	3.97	8.53	9.44	0.00	3.51	107.02	35.16	24.73%	142.19	149.59
Dec-22	5.89	0.00	2.47	5.77	5.56	0.00	1.37	107.10	21.05	16.43%	128.15	148.32
Jan-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	130.94	0.00	0.00%	130.94	114.47
Feb-23	8.75	3.14	1.36	7.33	7.48	0.00	5.22	76.00	33.28	30.45%	109.28	101.69
Mar-23	14.89	8.92	6.51	9.68	15.46	0.00	11.64	56.32	67.10	54.37%	123.41	107.96
Apr-23	13.76	7.43	5.10	13.73	13.34	0.00	14.15	58.18	67.52	53.72%	125.69	108.20
May-23	13.87	7.11	0.00	13.64	14.22	0.00	13.97	127.30	62.82	33.04%	190.11	120.92
Jun-23	17.14	1.06	0.00	15.53	15.34	0.00	14.24	155.84	63.31	28.89%	219.15	179.91
Jul-23	13.62	3.25	0.00	12.33	10.66	0.00	7.14	208.67	47.00	18.38%	255.66	183.25
EV +												
FY to date (Acre Feet)	13.62	3.25	-	12.33	10.66	-	7.14	208.67	47.00	18.38%	255.66	183.25



<u>Actual</u>				We	lls							Aqueduct
Month	Donald	Mountain	Park	AC	Larbre	Pedroncelli	Craig	Total	Aqueduct	Total	Wells %	flow rate*
Jul-22	13.62	3.25	0.00	12.33	10.66	0.00	7.14	47	208.67	256	18%	2.19
Aug-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0		0	0%	0.00
Sep-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0		0	0%	0.00
Oct-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0		0	0%	0.00
Nov-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0		0	0%	0.00
Dec-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0		0	0%	0.00
Jan-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0		0	0%	0.00
Feb-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0		0	0%	0.00
Mar-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0		0	0%	0.00
Apr-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0		0	0%	0.00
May-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0		0	0%	0.00
Jun-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0		0	0%	0.00
Sub-Total	14	3	0	12	11	0	7	47	209	256	18%	_
* Average daily	ate of flow du	iring the month	n (in millions o	of gallons per c	lay)							
Annual Target	104	65	28	119	94	0	55	465	1,739	2,204	21%	
% of Target	13%	5%	0%	10%	11%		13%	10%	12%	12%		

## MEMORANDUM

TO: Valley of the Moon Water District Board of Directors

FROM: Brian Larson, Water System Manager

SUBJECT: Operations Update

#### **CIP Project Update:**

• CIP 2989: New Park re-drill: Weeks has completed both monitoring wells and set the steel conductor for the production well. The time between August 16 through the 18<sup>th</sup> was spent on well development. On Monday, August 21, Title 22 samples were taken along with the analytical suite for zone testing.

• **CIP 2987 Chestnut Exploratory Well**: Weeks started drilling on August 2<sup>nd</sup> and made it to 300 ft.; the next day they were able to drill down to 600 ft.

Water was discovered at the following intervals:

- o 320-340 ft., 2-3 gpm.
- o 405-415 ft., 20 gpm increase.
- o 480-500 ft., 10 gpm increase.
- o 570-590 ft., 40 gpm increase.

For a total of about 70 GPM at 600 feet.

On August 14<sup>th</sup> Weeks advised that the District approve a change order to drill an additional 200 ft. based on records found for wells drilled nearby to the east. When the total depth of 800 ft. was reached, the well-produced approximately 150 gpm total, or an increase of about 80 gpm from the 600 ft. mark. Additionally, the water at each interval is cold. Weeks prepared for zone testing and analytical testing for the next few weeks.

- CIP 2996: P-2 Glen Ellen Transmission and Fire Flow Improvement: On August 17, we started the West side of Glen Ellan bridge at Warm Springs Road with a valve cluster drop-in and 20' of 12" PVC. In the past week, the crew was able to install an additional 120' of 12" main and there is now a total of 140' +/- feet in the ground on the East side.
- **CIP 3032 Tank Site Solar Upgrade:** Solar equipment has been delivered to the shop. We have two more tanks to outfit: Temelec and Sober Vista. The installation of this equipment will be worked into the schedule between our mainline projects.

The table below shows a subjective percentage completed for each of the CIP projects based on an estimate of the time requirement remaining. The percentage will not match the one shown on the CIP budget update, because that number accounts only for the budget remaining.

Project Number and Description	Percent Complete
Project: Equipment purchases (Various Accounts)	5%
Project 2987: Chestnut Exploratory Well	60%
Project 2989: Park Well Drilling	80%
Project 2996-P-2: Glen Ellen Transmission and Fire Flow Improvement	80%
Project 3006: Solar – Office/shop	100%
Project 3013: Replacement of vehicles #32 and #33	100%
Project 3021: Pressure Zone 3D Fire Flow Improvement Chestnut	5%
Project 3022: Altimira School Fire Flow Engineering	2%
Project 3026: VFD's at Donald and AC Wells	0%
Project TBD: Pump Station Battery Bank	2%
Project 5107: County Paving	5%
Project 9300: AMI Collector	0%
Project TBD: Lead Service Inventory	5%
Project TBD: Emergency Preparedness	2%
Project TBD: Energy Consumption Evaluation	0%
Project TBD: Seismic Vulnerability	0%
Project 3032: Tank Site Solar Upgrade (2023)	5%
Average Percent Complete	27%

Date: September 6, 2023

Item: 6.A

## MEMORANDUM

TO: Valley of the Moon Water District Board of Directors

FROM: SDC Ad Hoc Subcommittee, Directors Yudin-Cowan and Bryant

SUBJECT: Sonoma Developmental Center (SDC) Ad Hoc Subcommittee Update

### **Background:**

In mid-August, the SDC Subcommittee and General Manager were notified that the Rogal team had not yet signed and returned the Conditional Will Serve Letter due to the large volume of other due-diligence items that they were working on and which, for the time being, took precedence. We were assured that they would be in contact soon about the water system.

On August 24<sup>th</sup>, the Press Democrat ran an article on the SDC development siting a proposed increase in housing units by the developer (Rogal) from the 620 called out in the Specific Plan (or 750 assuming the developer took advantage of the "density bonus") to 930. Since that time, General Manager Fullner has spoken both with Legal Counsel and EKI (the creators of the Water Supply Assessment for the project) about the possible effects of the proposed increase. Below are some key takeaways from those conversations:

## EKI:

- The Water Supply Assessment (WSA) will either need to be redone, or a detailed addendum will be needed if the additional units are ultimately deemed feasible.
- There should be enough water to serve a larger development, but exactly how much larger (especially in drought scenarios) is still a question that would need to be answered as part of an updated WSA.

### **Legal Counsel:**

- Under the Density Bonus, developers typically have the ability to increase housing up to 50% as long as other criteria are also met, such as providing affordable housing etc.
- Given that our Will Serve letter is "conditional" we have the ability to change and reissue given changed circumstances.
- In any case, additional costs for the increase in housing (if approved), including changes to the WSA, should be borne by the developer.

Date: September 6, 2023

Item: 8.A

## MEMORANDUM

TO: Valley of the Moon Water District Board of Directors

FROM: Matt Fullner, General Manager

SUBJECT: Consider Adopting Resolution No. 230901 Approving an Outside Service Area Agreement

(OSAA) to serve 12405 Flicker Hill Road in Glen Ellen and Authorizing the General Manager

to Submit an OSAA Application to the Sonoma County Local Agency Formation

Commission (LAFCO)

#### **Background**

As discussed at the August meeting, the residents of 12045 Flicker Hill Road in Glen Ellen have experienced a catastrophic failure of their well, which is the source of potable water for the property. This parcel is adjacent to the District's boundary and also fronts a District main on the Warm Springs Road side of the property. By adopting Resolution No. 230901, the Board would authorize an Outside Service Area Agreement (OSAA) to serve the property and would authorize and direct the General Manager to submit an application to the Sonoma County Local Agency Formation Commission (LAFCO) for the OSAA.

If approved by the District and LAFCO, the property owner would be responsible for paying any and all fees associated with the application of the OSAA, and the water service installation to LAFCO and the District. The addition of this single residential service would not place an undue burden on the District's sources of water or distribution system.

### **Recommendation**

Buy roll call vote, adopt Resolution No. 230901 approving an OSAA to serve 12405 Flicker Hill Road in Glen Ellen and authorizing the General Manager to submit an OSAA application to LAFCO

### **Attached**

Resolution No. 230901

#### **RESOLUTION NO. 230901**

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE VALLEY OF THE MOON WATER DISTRICT AUTHORIZING AN OUTSIDE SERVICE AREA AGREEMENT (OSAA) TO SERVE 12405 FLICKER HILL ROAD IN GLEN ELLEN (APN: 053-160-029) AND DIRECTING THE GENERAL MANAGER TO SUBMIT AN APPLICATION FOR AN OSAA TO THE SONOMA COUNTY LOCAL AGENCY FORMATION COMMISSION (LAFCO)

WHEREAS, on August 10, 2023, the Board of Directors of Valley of the Moon Water District amended the District Code to allow for OSAAs in circumstances involving the loss of potable water supply at the discretion of the District's Board and LAFCO; and

WHEREAS, such a scenario exists adjacent to the District's service area at 12405 Flicker Hill Road in Glen Ellen; and

WHEREAS, the potable water supply needed for the single-family residential home located at 12405 Flicker Hill Road will not place undue stress or burden on the District's water system or supply; and

WHEREAS, it is incumbent upon the owner of the above-mentioned property to pay all District and LAFCO fees for service and application at such time that those fees become due.

## NOW, THEREFORE BE IT RESOLVED AND ORDERED BY THE BOARD OF DIRECTORS OF THE VALLEY OF THE MOON WATER DISTRICT THAT:

- 1. The Board hereby specifically finds and declares that all of the facts set forth in the Recitals of this Resolution are true and correct.
- The Board hereby authorizes an OSAA to be completed to serve the above-referenced parcel;
- 3. The Board hereby authorizes and directs the General Manager to complete and submit an application for such an OSAA to LAFCO.

## THIS RESOLUTION PASSED AND ADOPTED THIS 6<sup>TH</sup> DAY OF September 2023, by the following votes:

rector Bryant			
rector Foreman	 Ву		
rector Caniglia		President	
rector Foreman	 Ву	President	

Director Rogers	By Secretary								
Director Yudin-Cowan									
AYES	NOES	ABSTAIN	ABSENT						
	<del></del>	<del></del>	<del></del>						
I HEREBY CERTIFY that the foregoing Resolution was duly adopted at a meeting of the Board of Directors of Valley of the Moon Water District, held on the 6 <sup>th</sup> day of September 2023 of which meeting all Directors were duly notified and at which meeting a quorum was present at all times and acting.									
		BySecret	ary						