



# Yucaipa Valley Water District

12770 Second Street, Yucaipa, California 92399 Phone: (909) 797-5117

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## Notice and Agenda of a Regular Meeting of the Board of Directors

Wednesday, March 16, 2016 at 6:00 p.m.

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- I. **CALL TO ORDER** - Pledge of Allegiance
- II. **ROLL CALL**
- III. **PUBLIC COMMENTS** - At this time, members of the public may address the Board of Directors on matters within its jurisdiction. To provide comments on specific agenda items, please complete a speaker's request form and provide the completed form to the Board Secretary prior to the board meeting.
- IV. **CONSENT CALENDAR** - All matters listed under the Consent Calendar are considered by the Board of Directors to be routine and will be enacted in one motion. There will be no discussion of these items prior to the time the board considers the motion unless members of the board, the administrative staff, or the public request specific items to be discussed and/or removed from the Consent Calendar.
  - A. Minutes of Meetings
    - 1. Regular Board Meeting - March 2, 2016
    - 2. Board Workshop - March 8, 2016
  - B. Payment of Bills
    - 1. Approve/Ratify Invoices for Board Awarded Contracts
    - 2. Ratify General Expenses for February 2015
- V. **BOARD REPORTS**
  - A. Reports by Board Members
- VI. **STAFF REPORT**
- VII. **DISCUSSION ITEMS**
  - A. Unaudited Financial Report for the Period Ending on February 29, 2016 [[Director Memorandum No. 16-032 - Page 18 of 295](#)]
    - RECOMMENDED ACTION: That the Board receives and files the audited financial statements.

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Any person with a disability who requires accommodation in order to participate in this meeting should telephone Tysa Baeumel at (909) 797-5117 at least 48 hours prior to the meeting in order to make a request for a disability-related modification or accommodation.

Materials related to an item on this agenda submitted to the Board of Directors after distribution of the board meeting packet are available for public inspection during normal business hours at the District office located at 12770 Second Street, Yucaipa. Meeting material is also be available on the District's website at [www.yvwd.dst.ca.us](http://www.yvwd.dst.ca.us)

- B. Consideration of Development Agreement No. 2016-03 to Provide Sewer Facilities and Service to the Private Development of Tract Map 36818, MBTK Homes, LLC (Assessor's Parcel Numbers 411-150-012, 411-160-006 and 411-160-032) [[Director Memorandum No. 16-033 - Page 47 of 295](#)]

RECOMMENDED ACTION: That the Board of Directors approve Development Agreement No. 2016-03 as presented.

- C. Adoption of Resolution No. 2016-13 Adopting the Standard Specifications for the Design and Processing, Furnishing of Materials, and Construction of Drinking Water, Recycled Water and Sewer Facilities [[Director Memorandum No. 16-034 - Page 64 of 295](#)]

RECOMMENDED ACTION: That the Board of Directors adopts Resolution No. 2016-13 as presented.

- D. Adoption of Resolution No. 2016-10 Adopting an Amendment to the Environmental Impact Report and Environmental Impact Statement for the Calimesa Recycled Water Conveyance Project [[Director Memorandum No. 16-035 - Page 198 of 295](#)]

RECOMMENDED ACTION: That the Board adopts Resolution No. 2016-10 as presented.

- E. Discussion Regarding Regional Imported Water Supply Issues, Goals and Solutions in the San Geronio Pass Area [[Director Memorandum No. 16-036 - Page 285 of 295](#)]

RECOMMENDED ACTION: Pending

**VIII. DIRECTORS COMMENTS**

**IX. ANNOUNCEMENTS**

- A. March 29, 2016 at 4:00 p.m. - Board Workshop  
B. April 6, 2016 at 6:00 p.m. - Regular Board Meeting  
C. April 12, 2016 at 4:00 p.m. - Board Workshop  
D. April 20, 2016 at 6:00 p.m. - Regular Board Meeting  
E. April 26, 2016 at 4:00 p.m. - Board Workshop

**X. ADJOURNMENT**



# Consent Calendar



Yucaipa Valley Water District

# MINUTES OF A REGULAR BOARD MEETING

March 2, 2016 at 6:00 P.M.

## Directors Present:

Lonni Granlund, President  
Jay Bogh, Vice President  
Bruce Granlund, Director  
Ken Munoz, Director  
Tom Shalhoub, Director

## Staff Present:

Joseph Zoba, General Manager  
Jack Nelson, Assistant General Manager  
Brent Anton, Engineering Manager

## Directors Absent:

None

## Consulting Staff Present:

David Wysocki, Legal Counsel

## Registered Guests and Others Present:

David Duron, Customer  
Richard Siegmund, Customer  
Linda Shelton, Customer  
Bill Hemsley, City of Yucaipa  
Eric Fraser, Beaumont Cherry Valley Water District  
David Fenn, San Gorgonio Pass Water Agency  
Leonard Stevenson, San Gorgonio Pass Water Agency  
Jeff Davis, San Gorgonio Pass Water Agency  
Steve Copelan, San Bernardino Valley Municipal Water District  
Doug Headrick, San Bernardino Valley Municipal Water District

The regular meeting of the Board of Directors of the Yucaipa Valley Water District was called to order by Director Lonni Granlund at 6:00 p.m. at the Administrative Office Building, 12770 Second Street, Yucaipa, California.

## CALL TO ORDER

Director Bruce Granlund led the pledge of allegiance.

## FLAG SALUTE

The roll was called and Director Jay Bogh, Director Bruce Granlund, Director Lonni Granlund, Director Ken Munoz, and Director Tom Shalhoub were present.

## ROLL CALL

Richard Siegmund provided information about the requirement for updated general notes to be added to design drawings prepared by consultants.

## PUBLIC COMMENTS

Director Tom Shalhoub moved to approve the consent calendar and Director Bruce Granlund seconded the motion to approve the consent calendar.

## CONSENT CALENDAR

### A. Minutes of Meetings

1. Regular Board Meeting - February 17, 2016
2. Board Workshop - February 23, 2016

The motion was approved by the following vote:

Director Jay Bogh - Yes  
Director Bruce Granlund - Yes  
Director Lonni Granlund - Yes  
Director Ken Munoz - Yes  
Director Tom Shalhoub - Yes

#### Reports by Board Members

- Director Tom Shalhoub reported on the San Gorgonio Pass Water Agency meeting held on February 20, 2016.
- Director Tom Shalhoub and Director Bruce Granlund reported on the Association of San Bernardino County Special Districts meeting on February 22, 2016.
- Director Tom Shalhoub reported on the San Gorgonio Pass Regional Water Alliance meeting held on February 24, 2016.
- Director Jay Bogh reported on the community meeting hosted by Yucaipa Valley Water District on February 29, 2016.
- Director Tom Shalhoub reported on the San Bernardino Valley Municipal Water District meeting held on March 1, 2016.

#### BOARD REPORTS

General Manager Joseph Zoba discussed the following items:

- The Yucaipa Valley Water District will continue to host monthly community meetings with the public to discuss water, sewer and recycled water issues.

#### STAFF REPORT

#### DISCUSSION ITEMS:

Following a staff presentation by Engineering Manager Brent Anton, Director Jay Bogh moved and Director Bruce Granlund seconded a motion to approve Change Order No. 1 and authorize the filing of the Notice of Completion and release of the retention amount of \$21,718.11 thirty-five days after the recorded date.

The motion was approved by the following vote:

Director Jay Bogh - Yes  
Director Bruce Granlund - Yes  
Director Lonni Granlund - Yes  
Director Ken Munoz - Yes  
Director Tom Shalhoub - Yes

DM 16-023  
CHANGE ORDER NO.  
1 AND NOTICE OF  
COMPLETION FOR  
THE CONTRACT WITH  
WEKA, INC. FOR THE  
MISCELLANEOUS  
RECYCLED PIPELINES  
PROJECT

Following a staff presentation by Engineering Manager Brent Anton, Director Bruce Granlund moved and Director Tom Shalhoub seconded a motion to approve Change Order No. 1 and authorize the filing of the Notice of Completion and release of the retention amount of \$24,230.50 thirty-five days after the recorded date.

The motion was approved by the following vote:

Director Jay Bogh - Yes

DM 16-024  
CHANGE ORDER NO.  
1 AND NOTICE OF  
COMPLETION FOR  
THE CONTRACT WITH  
PACIFIC HYDROTECH  
CORPORATION FOR

Director Bruce Granlund - Yes  
Director Lonni Granlund - Yes  
Director Ken Munoz - Yes  
Director Tom Shalhoub - Yes

THE CONSTRUCTION  
OF SUPPORT  
STRUCTURES FOR  
THE EXISTING SEWER  
BRIDGE CROSSING  
YUCAIPA CREEK

Following a staff presentation by General Manager Joseph Zoba, Director Ken Munoz moved and Director Tom Shalhoub seconded a motion to adopt Resolution No. 2016-11 as presented.

The motion was approved by the following vote:

Director Jay Bogh - Yes  
Director Bruce Granlund - Yes  
Director Lonni Granlund - Yes  
Director Ken Munoz - Yes  
Director Tom Shalhoub - Yes

DM 16-025  
CONSIDERATION OF  
RESOLUTION NO.  
2016-11 SUPPORTING  
THE CONSTRUCTION  
OF RECYCLED  
WATER FACILITIES  
ASSOCIATED WITH  
THE PHASE IV-A, IV-B,  
AND IV-C OF THE  
INTEGRATED  
RECYCLED WATER  
AND DROUGHT  
PREPAREDNESS  
PROJECT FOR THE  
NORTH BENCH, OAK  
GLEN, AND  
WILDWOOD AREAS

General Manager Joseph Zoba provided an overview of this agenda item. There was no need for action by the Board of Directors

DM 16-026  
NOTICE REGARDING  
THE PREPARATION  
OF THE 2015 YUCAIPA  
VALLEY WATER  
DISTRICT URBAN  
WATER  
MANAGEMENT PLAN

Following a staff presentation by General Manager Joseph Zoba, Director Tom Shalhoub moved and Director Ken Munoz seconded a motion to authorize the filing of the Notice of Completion and release of the retention amount of \$3,206.25 thirty-five days after the recorded date.

The motion was approved by the following vote:

Director Jay Bogh - Yes  
Director Bruce Granlund - Yes  
Director Lonni Granlund - Yes  
Director Ken Munoz - Yes  
Director Tom Shalhoub - Yes

DM 16-027  
NOTICE OF  
COMPLETION FOR  
THE CONTRACT WITH  
J COLON COATINGS  
FOR THE PIPELINE  
COATING REPAIRS AT  
THE YUCAIPA VALLEY  
REGIONAL WATER  
FILTRATION FACILITY  
- CRYSTAL CREEK

Following a staff presentation by General Manager Joseph Zoba, Director Tom Shalhoub moved and Director Ken Munoz seconded a motion to adopt Resolution No. 2016-12 as presented.

The motion was approved by the following vote:

Director Jay Bogh - Yes  
Director Bruce Granlund - Yes  
Director Lonni Granlund - Yes  
Director Ken Munoz - Yes  
Director Tom Shalhoub - Yes

DM 16-028  
CONSIDERATION OF  
RESOLUTION NO.  
2016-12 AUTHORIZING  
THE GENERAL  
MANAGER TO FILE A  
BASIN BOUNDARY  
MODIFICATION  
REQUEST TO THE  
DEPARTMENT OF  
WATER RESOURCES  
FOR THE EL CASCO  
BASIN PURSUANT TO  
THE SUSTAINABLE  
GROUNDWATER  
MANAGEMENT ACT

Following a staff presentation by General Manager Joseph Zoba, Director Jay Bogh moved and Director Tom Shalhoub seconded a motion to authorize the District staff to: (1) implement the necessary policies, procedures and priorities to distribute weather-based irrigation controllers for residential water customers pursuant to the State Water Resources Control Board Emergency Regulations and related Executive Orders by Governor Brown; (2) contract with Skydrop for the purchase of irrigation controllers and related equipment for the installation of 1,000 additional controllers; (3) provide regular updates on the status of this water conservation program; and (4) authorize the General Manager to amend or terminate the implementation of this program at any time.

The motion was approved by the following vote:

Director Jay Bogh - Yes  
Director Bruce Granlund - Yes  
Director Lonni Granlund - Yes  
Director Ken Munoz - Yes  
Director Tom Shalhoub - Yes

DM 16-029  
AUTHORIZATION TO  
PURCHASE 1,000  
ADDITIONAL  
WEATHER BASED, WI-  
FI IRRIGATION  
CONTROLLERS FROM  
SKYDROP FOR  
RESIDENTIAL WATER  
CUSTOMERS OF THE  
YUCAIPA VALLEY  
WATER DISTRICT

Following a staff presentation by General Manager Joseph Zoba, Director Bruce Granlund moved and Director Ken Munoz seconded a motion to authorize the District staff to proceed with the issuance of the Request for Proposals.

The motion was approved by the following vote:

Director Jay Bogh - Yes  
Director Bruce Granlund - Yes  
Director Lonni Granlund - Yes  
Director Ken Munoz - Yes  
Director Tom Shalhoub - Yes

DM 16-030  
AUTHORIZATION TO  
ISSUE A REQUEST  
FOR PROPOSALS  
FOR FOUR MULTI-  
FUNCTION DIGITAL  
COPIERS

Following a staff presentation by General Manager Joseph Zoba, Director Jay Bogh moved and Director Ken Munoz seconded a

DM 16-031

motion to authorize the District staff to create a portal outlining the issues in the San Gorgonio Pass Water Agency on the District's website.

The motion was approved by the following vote:

Director Jay Bogh - Yes  
Director Bruce Granlund - Yes  
Director Lonni Granlund - Yes  
Director Ken Munoz - Yes  
Director Tom Shalhoub - Yes

DISCUSSION  
REGARDING  
REGIONAL IMPORTED  
WATER SUPPLY  
ISSUES, GOALS AND  
SOLUTIONS IN THE  
SAN GORGONIO PASS  
AREA

Director Tom Shalhoub provided comments regarding a recently attended conference.

DIRECTOR  
COMMENTS

Director Lonni Granlund called attention to the announcements listed on the agenda.

ANNOUNCEMENTS

The meeting was adjourned at 7:00 p.m.

ADJOURNMENT

Respectfully submitted,

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Joseph B. Zoba, Secretary

(Seal)

# MINUTES OF A BOARD WORKSHOP

March 8, 2016 at 4:00 P.M.

## Directors Present:

Lonni Granlund, President  
Jay Bogh, Vice President  
Bruce Granlund, Director  
Ken Munoz, Director  
Tom Shalhoub, Director

## Staff Present:

Joseph Zoba, General Manager  
Brent Anton, Engineering Manager  
John Hull, Public Works Manager  
Bob Wall, Operations Manager  
Kevin King, Operations Manager  
John Wrobel, Regulatory & Environmental Control Manager  
Jennifer Ares, Water Resource Manager  
Jack Nelson, Assistant General Manager  
Jeremy Costello, Engineering Technician II

## Directors Absent:

None

## Consulting Staff Present:

David Wysocki, Legal Counsel

## Registered Guests and Others Present:

David Duron, Customer  
Richard Siegmund, Customer  
Linda Shelton, Customer  
Vanessa Register, Customer  
Leonard Stephenson, San Gorgonio Pass Water Agency

- I. Call to Order - 4:00 p.m.
- II. Public Comments - Mr. David Duron provided information about the recent storm events, and recent sewer improvements by the City of Riverside.
- III. Staff Report - General Manager Joseph Zoba discussed the following topics:
  - There will be a meeting of retail water suppliers and wholesale water suppliers in the San Gorgonio Pass area on Thursday, March 10, 2016 at 7:00 pm. The meeting will be held at the Beaumont Cherry Valley Water District office in Beaumont.
- IV. Presentations
  - A. Overview of the California Drought and Yucaipa Valley Water District's Action Plan Related to the State Water Resources Control Board Mandatory Restrictions to Achieve a 36% Reduction in Potable Urban Water Use [Workshop Memorandum No. 16-048] - General Manager Joseph Zoba reported on the District's water conservation efforts and the steps taken to achieve the required 36% water conservation goal required by the State Water Resources Control Board. .
- V. Operational Updates
  - A. Review of Updated Standard Specifications for Drinking Water, Recycled Water, and Sewer Facilities [Workshop Memorandum No. 16-049] - Engineering Manager Brent Anton and Engineering Technician II Jeremy Costello provided an overview of the Standard Specifications. Based on comments from the public, the Board of Directors reached a consensus to present the Standard Specifications at the next board meeting for consideration and possible adoption.

- B. Operational Update of the Recycled Water Filling Station for Customers of the Yucaipa Valley Water District [Workshop Memorandum No. 16-050] - Public Works Manager John Hull provided an update on the operation of the Recycled Water Fill Station.
  - C. Purchase of Inland Empire Brineline Pipeline and Treatment Capacity from the San Bernardino Valley Municipal Water District [Workshop Memorandum No. 16-051] - General Manager Joseph Zoba provided an overview of the potential purchase of 300,000 gallons per day of pipeline, treatment and disposal capacity in the Inland Empire Brineline.
- VI. Capital Improvement Projects
- A. Status Report on the Construction of a 6.0 Million Gallon Drinking Water Reservoir R-12.4 - Calimesa [Workshop Memorandum No. 16-052] - Engineering Manager Brent Anton provided an overview of the Reservoir R-12.4 project construction.
  - B. Status Report on the Digester Cleaning and Cover Replacement Project at the Wochholz Regional Water Recycling Facility [Workshop Memorandum No. 16-053] - Operations Manager Kevin King provided an overview of the digester lid coating project.
- VII. Policy Issues
- A. Consideration of Policies Regarding Procurement Methodologies and Emergency Procedures [Workshop Memorandum No. 16-054] - General Manager Joseph Zoba provided an overview of the procurement methods and an emergency procedure resolution. Based on comments from the Board of Directors, there was a consensus to present the proposed resolution to the Board for consideration at the next board meeting.
  - B. Consideration of Policies Regarding Long-Term Implementation Plans Related to Smart Manhole Covers and Skydrop Irrigation Controllers [Workshop Memorandum No. 16-055] - General Manager Joseph Zoba provided information about the long-term purchase and maintenance of sewer manhole monitors and wi-fi based irrigation systems for existing and new homes.
  - C. Consideration of Policies Regarding the Purchase of Supplemental Water Supplies for the Yucaipa Valley Water District [Workshop Memorandum No. 16-056] - General Manager Joseph Zoba provided information about the additional purchase of supplemental water to augment local water supplies.
- VIII. Development Related
- A. Development Agreement No. 2016-03 to Provide Sewer Facilities and Service to the Private Development of Tract Map 36818, MBTK Homes, LLC (Assessor's Parcel Numbers 411-150-012, 411-160-006 and 411-160-032) [Workshop Memorandum No. 16-057] - Engineering Manager Brent Anton provided an overview of Development Agreement No. 2016-03.
- IX. Administrative Items
- A. Review of the Unaudited Financial Report for the Period Ending on February 29, 2016 [Workshop Memorandum No. 16-058] - General Manager Joseph Zoba provided an overview of the unaudited financial report.
- X. Director Comments
- Director Ken Munoz requested an update on the status of recycled water service for I Street Park and Yucaipa High School. District staff responded that the mutual



water companies are working with the City of Yucaipa and the Yucaipa Calimesa Joint Unified School District, but no new progress has been reported to the District.

XI. Adjournment - The meeting was adjourned at 5:35 p.m.

Respectfully submitted,

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Joseph B. Zoba, Secretary

# Board Reports



Yucaipa Valley Water District

# Staff Report



Yucaipa Valley Water District

Mar 11 2016

## Feinstein Calls for Increased Pumping to Capture Water from Storms

Washington—Senator Dianne Feinstein (D-Calif.) today released the following statement calling on federal agencies to increase pumping as much as possible within the bounds of the biological opinions to capture and store more water during March storms:

“Between January 1 and March 6 last year, 1.3 million acre feet of water flowed through the Delta and 651,000 acre feet were pumped out. During the same period this year, 2.8 million acre feet of water flowed through the Delta, but only 627,000 acre feet were pumped out (see Chart A below).

“Pumping less water even though river flows more than doubled means 180,000 to 200,000 acre-feet of water was allowed to flow out to the sea instead of being captured and stored—enough water to supply 360,000 homes for a year. It’s inexcusable that pumping levels have been reduced without sufficient evidence of fish mortality, even while biological opinions would allow more pumping.

“January flows topped 50,000 cubic feet per second and peaked again in mid-February above 42,000 cubic feet per second. But rather than pumping as much water as possible under the biological opinions, pumping levels were ratcheted down for an entire month between mid-January and mid-February.

“In some instances these decisions were made even though available data suggested no smelt or salmon were anywhere near the pumps. I agree that pumping should be curtailed when these species are near the pumps, but in many cases the evidence simply didn’t support that conclusion. In other cases, adult smelt were spotted as far as 17 miles from pumps, which led to reduced pumping levels.

“Even if so-called turbidity bridges were present and required some reductions, many other days of high flows were squandered (see Chart B below). And it’s important to note that so far in 2016, only three smelt have actually been caught in the pumps.

“This is clear evidence of the need for legislation to allow more water to be pumped during periods of high river flows while still adhering to environmental laws and the biological opinions and their adaptive management provisions. I believe now more than ever that the bill I submitted last month is necessary, appropriate and will result in real help during this historic drought.

"By requiring daily monitoring of fish near the pumps during times of high turbidity, real-time data can be used to inform decisions rather than relying on intuition. I hope the Senate Energy and Natural Resources Committee will hold a mark-up of my bill as soon as possible so the Senate can debate it. It's time to act.

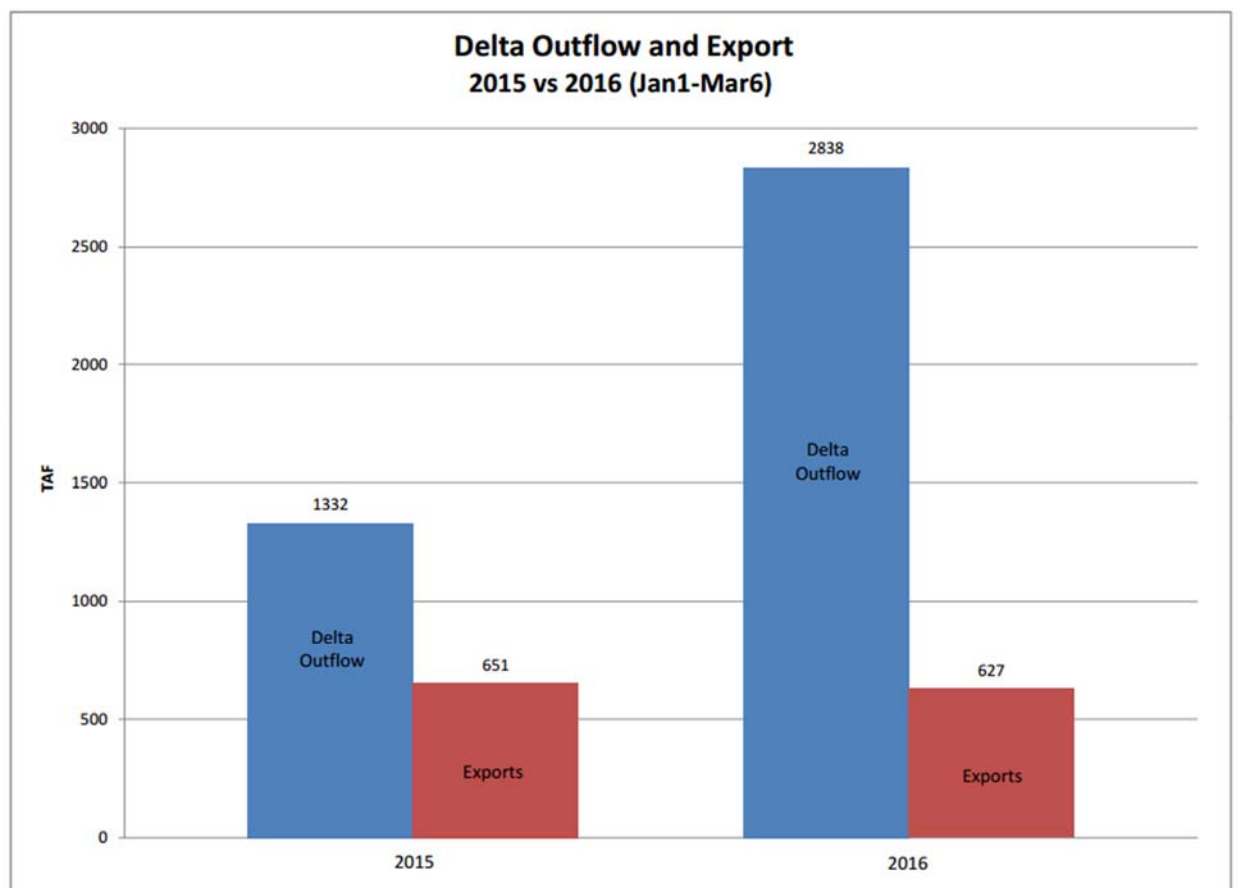
### Effects of lower pumping

"Just last week I met with 25 emerging leaders in California's agriculture industry. One young farmer from Firebaugh told me that both he and his father lost their farms because of the drought, farms that employed 450 workers who harvested 4,800 acres of cantaloupes and honeydew melons.

"There are real-world consequences to the decisions being made in the Delta. That's why we need to make sure we're using every possible tool make the right choices. Basing pumping decisions on better science and real-time monitoring is the least we can do."

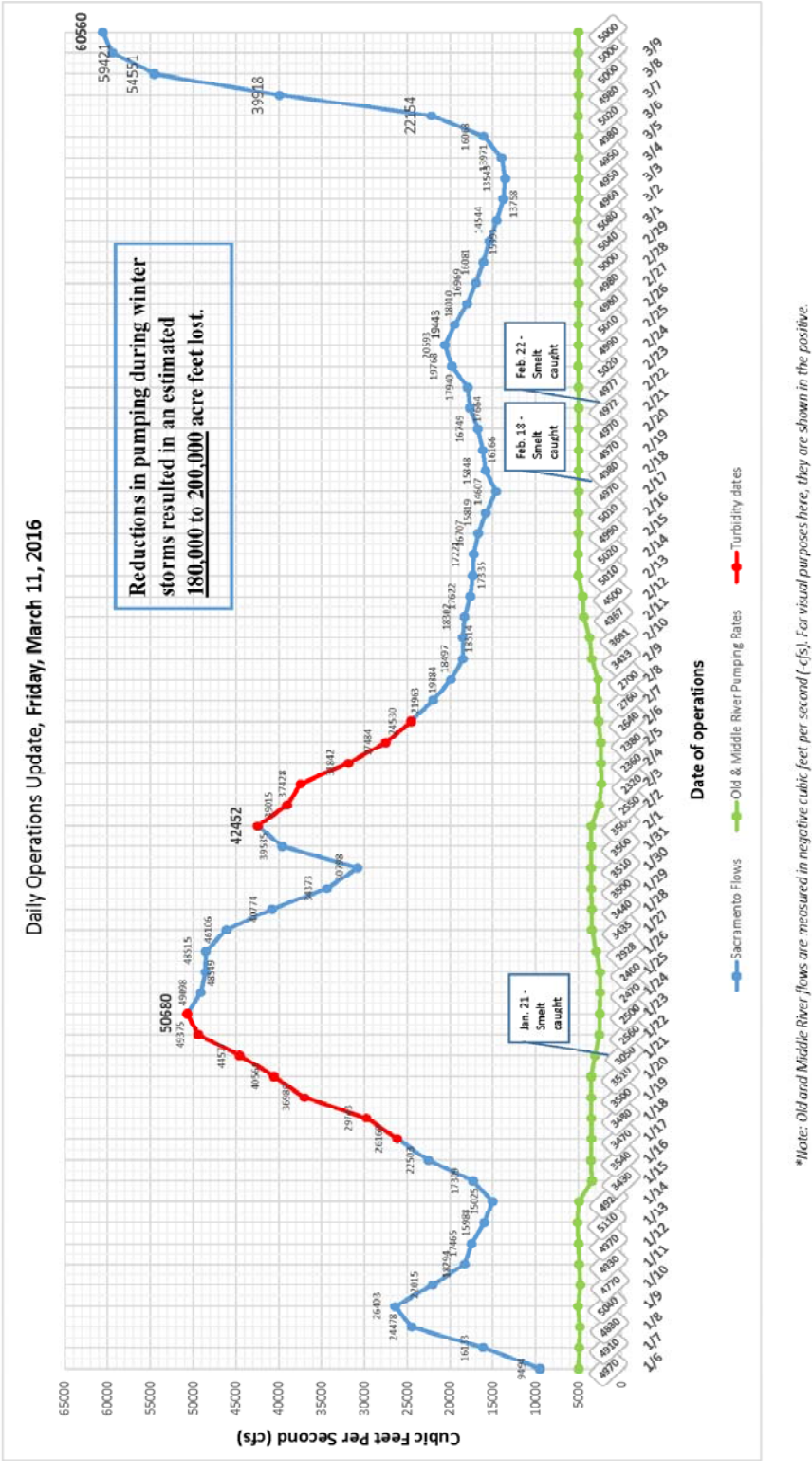
### Charts

Chart A shows that even though 2016 river flows are more than double those in 2015, less water has been pumped out of the Delta. (The chart was created by the San Luis and Delta-Mendota Water Authority.)



T. Boardman, SLDMWA  
3/8/2016

Chart B below shows that during some of the periods of highest river flows, pumping levels were actually reduced. Some of these reductions came due to concerns about turbidity, but many days of high river flows without elevated turbidity also saw reduced pumping. (The chart was created by Senator Feinstein’s office using data from the California Department of Water Resources, the Bureau of Reclamation, U.S. Fish and Wildlife Service, NOAA Fisheries and the United States Geological Survey.)



# Discussion Items



Yucaipa Valley Water District



## Director Memorandum 16-032

**Date:** March 16, 2016

**Prepared By:** Vicky Elisalda, Controller  
Peggy Little, Administrative Supervisor

**Subject:** Unaudited Financial Report for the Period Ending on February 29, 2016

**Recommendation:** That the Board receives and files the unaudited financial report as presented.

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The following unaudited financial report has been prepared by the Administrative Department for your review. The report has been divided into six sections to clearly disseminate information pertaining to the financial status of the District. Please remember that the following financial information has not been audited.

### **Cash Fund Balance Report**

[Detailed information can be found on page 5 to 6 of 29]

The Cash Fund Balance Report provides a summary of how the total amount of funds maintained by financial institutions is distributed throughout the enterprise and non-enterprise funds of the District. A summary of the report is as follows:

| <b>Fund Source</b>      | <b>Operating Funds</b> | <b>Restricted Funds</b> | <b>Total Funds</b>     |
|-------------------------|------------------------|-------------------------|------------------------|
| Water Division          | \$6,612,801.05         | \$1,469,392.56          | \$8,082,193.61         |
| Sewer Division          | \$12,559,934.45        | (\$5,194,202.61)        | \$7,365,731.84         |
| Recycled Water Division | <u>\$2,554,182.07</u>  | <u>\$318,632.32</u>     | <u>\$2,872,814.39</u>  |
| <b>Total</b>            | <b>\$21,726,917.57</b> | <b>(\$3,406,177.73)</b> | <b>\$18,320,739.84</b> |

Most of the funds reflected in the Cash Fund Balance Report are designated for specific purposes and are therefore restricted, either by law or by District policy.

### **Check Register**

[Detailed information can be found on pages 7 to 11 of 29]

The check register lists each check processed during the month of February 2016. The District processed 217 checks during the month of February for a total sum of \$2,008,111.02. All checks are reviewed by District staff for accuracy and completeness, and usually signed by the General Manager and one Director, but may be signed by two Directors.

The Controller will make any check, invoice or supporting documentation available for review to any board member upon request.



**Financial Account Information**

[Detailed information can be found on pages 12 to 15 of 29]

The District currently deposits all revenue received into the Deposit Checking account. The General Checking account is used as a sole processing account for all District checks and electronic payroll. The Investment Checking account is used for the purchase and redemption of US treasury notes and bills and for the transfer of LAIF funds. The US treasury notes and bills are booked at cost.

The LAIF investment account is a pooled money account administered by the State of California. Additional information on the LAIF account is provided below in the investment summary report.

**Investment Summary**

[Detailed information can be found on pages 16 to 17 of 29]

The investment summary report illustrates the District's investments in US treasury notes and bills in addition to the investments held by the Local Agency Investment Fund or LAIF. The yields for the treasury notes and bills are provided for each individual transaction. The historical annual yield for funds invested with LAIF is also provided.

Separate pooled money investment reports prepared by the State of California are maintained by the District and available for review.

**Monthly Revenue Allocation**

[Detailed information can be found on pages 18 to 19 of 29]

During the month of February 2016 the District's deposit checking account received a sum total of \$1,878,203.90 in revenues from the following categories:

- A total of \$1,431,616.82 was received from 14,491 customers for utility bill payments. This is the total amount of utility bill payments received from water, sewer and recycled services.
- A total of \$1,927.75 was received for construction meter deposits, customer deposits and internet fee payments.
- A total of \$304,722.33 was received from miscellaneous water related activities (other than utility bill charges).
- A total of \$139,937.00 was received from miscellaneous sewer related activities (other than utility bill charges).
- A total of \$0.00 was received from miscellaneous recycled related activities (other than utility bill charges).
- The District's general checking account (pages 12 & 14 of 30) received one ACH deposit for San Bernardino Property Taxes in the amount of \$59,877.15. The District has received \$1,668,861.71 (59%) of the allocated \$2,843,308.96 property taxes for FY 2016.

**Fiscal Year 2016 Budget Status**

[Detailed information can be found on pages 20 to 29 of 29]

The revenue and expense budget status for the 2016 Fiscal Year is provided for your review.

**Summary of Revenue Budget  
As of February 29, 2016 (62% of Budget Cycle)**

| <u>Division</u>         | <u>Budget Amount</u> | <u>Current Month</u> | <u>Year-To-Date</u> | <u>Percentage</u> |
|-------------------------|----------------------|----------------------|---------------------|-------------------|
| Water                   | 13,412,500           | 578,901              | 6,983,072           | 52.06%            |
| Sewer                   | 11,820,000           | 927,015              | 7,007,131           | 59.28%            |
| Recycled Water          | 537,250              | 9,026                | 260,191             | 48.43%            |
| <b>District Revenue</b> | <b>25,769,750</b>    | <b>1,514,942</b>     | <b>14,250,394</b>   | <b>55.30%</b>     |

**Summary of Water Budget  
As of February 29, 2016 (62% of Budget Cycle)**

| <u>Department</u> | <u>Budget Amount</u> | <u>Current Month</u> | <u>Year-To-Date</u> | <u>Percentage</u> |
|-------------------|----------------------|----------------------|---------------------|-------------------|
| Water Resources   | 5,050,200            | 181,302              | 2,714,462           | 53.75%            |
| Public works      | 2,385,800            | 209,851              | 1,325,764           | 55.57%            |
| Administration    | 3,682,486            | 241,110              | 2,532,535           | 68.77%            |
| Long Term Debt    | 2,294,014            | 640,556              | 2,294,014           | 100.00%           |
| Asset Acquisition | 0                    | 0                    | 0                   | 0.00%             |
| <b>TOTAL</b>      | <b>13,412,500</b>    | <b>1,272,819</b>     | <b>8,866,775</b>    | <b>66.11%</b>     |

**Summary of Sewer Budget  
As of February 29, 2016 (62% of Budget Cycle)**

| <u>Department</u>        | <u>Budget Amount</u> | <u>Current Month</u> | <u>Year-To-Date</u> | <u>Percentage</u> |
|--------------------------|----------------------|----------------------|---------------------|-------------------|
| Treatment                | 3,789,816            | 226,491              | 2,223,517           | 58.67%            |
| Administration           | 3,151,840            | 212,731              | 2,044,181           | 64.86%            |
| Environmental Control    | 982,300              | 75,834               | 617,947             | 62.91%            |
| Long Term Debt           | 3,896,044            | 649,274              | 3,572,942           | 91.71%            |
| Asset Acquisition-Palmer | 0                    | 0                    | 66,409              | 0.00%             |
| <b>TOTAL</b>             | <b>11,820,000</b>    | <b>1,164,330</b>     | <b>8,524,996</b>    | <b>72.12%</b>     |

**Summary of Recycled Water Budget  
As of February 29, 2016 (62% of Budget Cycle)**

| <u>Department</u>        | <u>Budget Amount</u> | <u>Current Month</u> | <u>Year-To-Date</u> | <u>Percentage</u> |
|--------------------------|----------------------|----------------------|---------------------|-------------------|
| Administration           | 537,250              | 24,215               | 397,069             | 73.91%            |
| <b>TOTAL</b>             | <b>537,250</b>       | <b>28,006</b>        | <b>198,923</b>      | <b>37.03%</b>     |
| <b>District Expenses</b> | <b>25,769,750</b>    | <b>2,465,155</b>     | <b>17,590,694</b>   | <b>68.26%</b>     |

**Investment Policy Disclosure**

The District is currently compliant with the portfolio of its Investment Policy and State Law.

The District is using Sandy Gage with Merrill Lynch Wealth Management (Bank of America Corporation) for Treasury investments. The District expects to meet its expenditure requirements for the next six months.

**Questions or Comments**

If you have any questions about a particular budget account, please do not hesitate to contact the Controller directly. If you need additional information, the members of the Administrative Department would be happy to provide you with any detailed information you may desire.

## Cash Fund Balance Report - February 2016

| Water Division                      | GL#      | Balance                |
|-------------------------------------|----------|------------------------|
| *ID 1 Construction Funds            | 02-10216 | \$ 293,145.85          |
| *ID 2 Construction Funds            | 02-10217 | \$ 80,409.31           |
| *FCC - Debt Service YVRWFF Phase I  | 02-10401 | \$ (161,207.64)        |
| *FCC - Future YVRWFF Phase II & III | 02-10403 | \$ 320,667.50          |
| *FCC - Recycled System              | 02-10410 | \$ (1,018,372.58)      |
| *FCC - Booster Pumping Plants       | 02-10411 | \$ 524,457.67          |
| *FCC - Pipeline Facilities          | 02-10412 | \$ (423,206.74)        |
| *FCC - Water Storage Reservoirs     | 02-10413 | \$ 1,853,499.19        |
| Depreciation Reserves               | 02-10310 | \$ 1,228,838.82        |
| Infrastructure Reserves             | 02-10311 | \$ 2,541,271.00        |
| Sustainability Fund                 | 02-10313 | \$ 716,955.96          |
| Rate Stabilization Fund             | 02-10314 | \$ 500,209.14          |
| Imported Water Fund - MUNI          | 02-10315 | \$ (426,582.27)        |
| Imported Water Fund - SGPWA         | 02-10316 | \$ 800,927.56          |
| Operating Funds:                    |          | \$ 1,251,180.84        |
| <b>Total Water Division</b>         |          | <b>\$ 8,082,193.61</b> |

| Sewer Division                               | GL#      | Balance                |
|--|----------|------------------------|
| *SRF Reserve Fund - Brineline                | 03-10218 | \$ 637,449.00          |
| *SRF Reserve Fund - WISE                     | 03-10219 | \$ 184,928.00          |
| *SRF Reserve Fund - R 10.3                   | 03-10220 | \$ 51,531.00           |
| *SRF Reserve Fund - Crow St                  | 03-10221 | \$ -                   |
| *FCC - Debt Service WWTP Expansion & Upgrade | 03-10405 | \$ 1,139,354.04        |
| *FCC - Future WWTP Expansion                 | 03-10407 | \$ 986,633.97          |
| *FCC - Sewer Interceptors                    | 03-10415 | \$ (1,012,530.10)      |
| *FCC - Lift Stations                         | 03-10416 | \$ 243,232.45          |
| *FCC - Effluent Disposal Facilities          | 03-10417 | \$ (1,742,305.21)      |
| *FCC - Salt Mitigation Facilities            | 03-10418 | \$ (5,682,495.76)      |
| Project Fund - Encumbered                    | 03-10215 | \$ 189,000.00          |
| Depreciation Reserves                        | 03-10310 | \$ 2,936,289.31        |
| Infrastructure Reserves                      | 03-10311 | \$ 3,719,620.00        |
| Rate Stabilization Fund                      | 03-10314 | \$ 1,464,394.90        |
| Operating Funds:                             |          | \$ 4,250,630.24        |
| <b>Total Wastewater Division</b>             |          | <b>\$ 7,365,731.84</b> |

| Recycled Water Division              | GL#      | Balance                |
|--------------------------------------|----------|------------------------|
| *FCC - Recycled System               | 04-10410 | \$ 39,688.47           |
| *FCC - Booster Pumping Plants        | 04-10411 | \$ 42,371.40           |
| *FCC - Pipeline Facilities           | 04-10412 | \$ 116,831.64          |
| *FCC - Water Storage Reservoirs      | 04-10413 | \$ 119,740.81          |
| Project Fund - Encumbered            | 04-10215 | \$ 200,000.00          |
| Depreciation Reserves                | 04-10310 | \$ 73,221.00           |
| Infrastructure Reserves              | 04-10311 | \$ 244,588.00          |
| Operating Funds:                     |          | \$ 2,036,373.07        |
| <b>Total Recycled Water Division</b> |          | <b>\$ 2,872,814.39</b> |

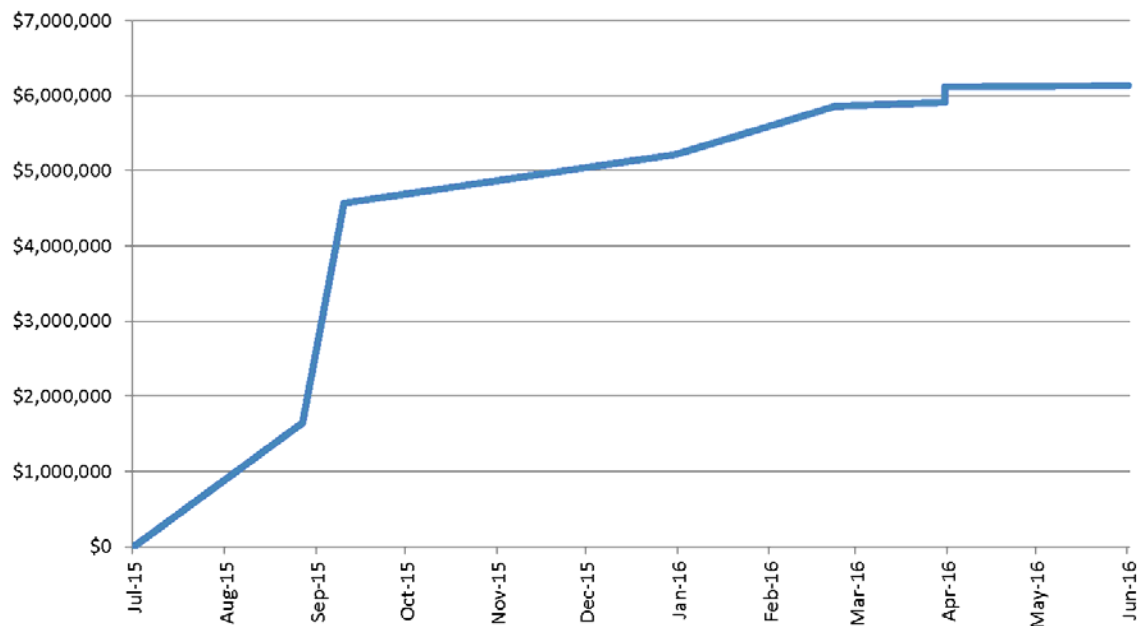
**DISTRICT TOTAL \$ 18,320,739.84**

\*=Restricted Funds

## Cash Fund Balance Report - February 2016

| Pending Financial Obligations for Fiscal Year 2015/16 |       |   |                    |                        |
|---|-------|---|--------------------|------------------------|
| Due Date  | Fund  | Description                                       | Term of Obligation | Amount                 |
| 08/27/2015  | Water | 2015A Bond Payment - YVRWFF                       | 2015-2034          | \$ 1,646,177.19        |
| 09/10/2015  | Sewer | SRF Payment - WRWRF                               | 2009-2028          | \$ 2,923,688.75        |
| 12/31/2015  | Sewer | SRF Payment - Yucaipa Regional Brineline          | 2013-2032          | \$ 649,273.50          |
| 02/23/2016  | Water | 2015A Bond Payment - YVRWFF                       | 2015-2034          | \$ 640,556.25          |
| 03/31/2016  | Sewer | SRF Payment - Recycled Reservoir R-10.3           | 2014-2033          | \$ 54,277.31           |
| 03/31/2016  | Sewer | SRF Payment - Desalinization at WRWRF             | 2014-2033          | \$ 185,251.30          |
| 03/31/2016  | Sewer | SRF Payment - Crow Street/Recycled Booster B-12.1 | 2016-2035          | \$ 19,254.37           |
| 06/01/2016  | Sewer | SBVMWD - Inland Empire Brineline Payment          | 2013-2016          | \$ 20,000.00           |
| <b>Total</b>  |       |   |                    | <b>\$ 6,138,478.67</b> |

**Payment Schedule and Cash Flow Requirements  
for Fiscal Year 2015-2016**



**Check Register - February 2016**

| <u>Check Date</u> | <u>Check Number</u> | <u>Name</u>                    | <u>Check Amount</u> |
|-------------------|---------------------|--------------------------------|---------------------|
| 02/01/2016        | 25248               | ADS, LLC                       | 3,951.00            |
| 02/01/2016        | 25249               | Ameripride Uniform Services    | 492.68              |
| 02/01/2016        | 25250               | Redlands Employment Services   | 758.72              |
| 02/01/2016        | 25251               | Bay Alarm Company              | 1,602.23            |
| 02/01/2016        | 25252               | Fedex                          | 52.08               |
| 02/01/2016        | 25253               | Raiset R. Santana and Adriana  | 77.00               |
| 02/01/2016        | 25254               | Kelly Services, Inc.           | 1,069.20            |
| 02/01/2016        | 25255               | Konica Minolta Business Soluti | 1,204.01            |
| 02/01/2016        | 25256               | Krieger & Stewart              | 84,736.78           |
| 02/01/2016        | 25257               | Leroy's Landscape Services     | 2,955.00            |
| 02/01/2016        | 25258               | U.S. Telepacific Corp          | 3,878.87            |
| 02/01/2016        | 25259               | Verizon                        | 145.06              |
| 02/01/2016        | 25260               | Anthony Joseph Sobral          | 26.74               |
| 02/01/2016        | 25261               | Calolympic Glove & Safety Co., | 488.12              |
| 02/01/2016        | 25262               | Cemex Inc. USA                 | 1,295.46            |
| 02/01/2016        | 25263               | Fastenal Company               | 129.57              |
| 02/01/2016        | 25264               | Grainger                       | 2,597.62            |
| 02/01/2016        | 25265               | Hach Company                   | 441.29              |
| 02/01/2016        | 25266               | Jerry Herbert Roofing Inc.     | 200.00              |
| 02/01/2016        | 25267               | Inland Water Works Supply Co.  | 3,572.00            |
| 02/01/2016        | 25268               | Innerline Engineering          | 1,750.00            |
| 02/01/2016        | 25269               | JB Paving & Engineering, Inc.  | 25,052.25           |
| 02/01/2016        | 25270               | Nuckles Oil Company, Inc.      | 1,446.40            |
| 02/01/2016        | 25271               | Microflex Corp #774353         | 1,333.59            |
| 02/01/2016        | 25272               | Nagem, Inc.                    | 112.50              |
| 02/01/2016        | 25273               | Office Solutions Business Prod | 298.80              |
| 02/01/2016        | 25274               | The Sherwin-Williams Co.       | 264.55              |
| 02/01/2016        | 25275               | Smart & Final Stores, LLC      | 220.69              |
| 02/05/2016        | 25276               | BLACK, ERICA                   | 8.86                |
| 02/05/2016        | 25277               | BAI, XUE                       | 70.25               |
| 02/05/2016        | 25278               | PAYROLL CHECK                  | 2,046.24            |
| 02/05/2016        | 25279               | PAYROLL CHECK                  | 319.93              |
| 02/05/2016        | 25280               | CA-PERS Supplemental Income 45 | 21,651.38           |
| 02/05/2016        | 25281               | WageWorks, Inc.                | 1,462.27            |
| 02/05/2016        | 25282               | Public Employees' Retirement S | 22,515.84           |
| 02/05/2016        | 25283               | Hong Nelson                    | 125.00              |
| 02/05/2016        | 25284               | IBEW Local 1436                | 252.00              |
| 02/05/2016        | 25285               | California State Disbursement  | 115.38              |
| 02/05/2016        | 25286               | California State Disbursement  | 476.30              |
| 02/05/2016        | 25287               | Department of the Treasury - I | 125.00              |
| 02/05/2016        | 25288               | American Family Life Assurance | 2,505.43            |
| 02/05/2016        | 25289               | Rodd Greene                    | 601.00              |
| 02/05/2016        | 25290               | Robert Hines                   | 601.00              |
| 02/05/2016        | 25291               | Aetna Health of California     | 60,229.00           |
| 02/08/2016        | 25292               | GENARO, FRANK                  | 413.72              |
| 02/08/2016        | 25293               | MURALI GOPAL INVESTM           | 156.71              |
| 02/08/2016        | 25294               | AWWA CA-NV (Rancho Cucamonga)  | 55.00               |

**Check Register - February 2016**

| <u>Check Date</u> | <u>Check Number</u> | <u>Name</u>                     | <u>Check Amount</u> |
|-------------------|---------------------|---------------------------------|---------------------|
| 02/08/2016        | 25295               | California Water Environment A  | 164.00              |
| 02/08/2016        | 25296               | Incode Division-Tyler Technolo  | 3,333.00            |
| 02/08/2016        | 25297               | Dept of Consumer Affairs        | 115.00              |
| 02/08/2016        | 25298               | Ameripride Uniform Services     | 482.23              |
| 02/08/2016        | 25299               | Redlands Employment Services    | 948.40              |
| 02/08/2016        | 25300               | Beaumont Basin Watermaster      | 20,170.00           |
| 02/08/2016        | 25301               | Central Communications          | 327.11              |
| 02/08/2016        | 25302               | Charles Wayne Hippenstiel       | 3,300.00            |
| 02/08/2016        | 25303               | Cobb's Printing, LLC            | 42.93               |
| 02/08/2016        | 25304               | Corelogic, Inc.                 | 330.00              |
| 02/08/2016        | 25305               | Coverall North America, Inc.    | 1,021.00            |
| 02/08/2016        | 25306               | First American Data Tree, LLC   | 50.00               |
| 02/08/2016        | 25307               | InfoSend, Inc.                  | 5,317.75            |
| 02/08/2016        | 25308               | Kelly Services, Inc.            | 855.36              |
| 02/08/2016        | 25309               | NetComp Technologies, Inc.      | 1,400.00            |
| 02/08/2016        | 25310               | Oily's Automotive Service & Re  | 30.00               |
| 02/08/2016        | 25311               | Praxair Inc.                    | 26.32               |
| 02/08/2016        | 25312               | Pro-Pipe & Supply, Inc.         | 64.61               |
| 02/08/2016        | 25313               | SCCI, Inc.                      | 350.00              |
| 02/08/2016        | 25314               | Separation Processes, Inc.      | 1,112.00            |
| 02/08/2016        | 25315               | Association of San Bernardino   | 63.00               |
| 02/08/2016        | 25316               | The Gas Company                 | 2,185.87            |
| 02/08/2016        | 25317               | Underground Service Alert Of S  | 216.00              |
| 02/08/2016        | 25318               | Wells Fargo Bank-Corporate Tru  | 628,836.60          |
| 02/08/2016        | 25319               | Yucaipa Auto Collision, LLC     | 753.10              |
| 02/08/2016        | 25320               | Ampak Chemicals, Inc.           | 4,001.40            |
| 02/08/2016        | 25321               | Brenntag Pacific, Inc           | 7,324.34            |
| 02/08/2016        | 25322               | Victor James Valenti            | 4,043.80            |
| 02/08/2016        | 25323               | Crown Ace Hardware - Yucaipa    | 2,711.16            |
| 02/08/2016        | 25324               | Jan Brinkman Jr.                | 1,317.20            |
| 02/08/2016        | 25325               | Dickson                         | 328.00              |
| 02/08/2016        | 25326               | Eurofins Eaton Analytical, Inc  | 1,300.00            |
| 02/08/2016        | 25327               | Evans-Hydro Inc.                | 15,482.16           |
| 02/08/2016        | 25328               | Evoqua Water Technologies LLC   | 248.92              |
| 02/08/2016        | 25329               | G&G Environmental Compliance, I | 3,140.06            |
| 02/08/2016        | 25330               | Gonzales Environmental Consult  | 20,033.93           |
| 02/08/2016        | 25331               | Grainger                        | 1,248.71            |
| 02/08/2016        | 25332               | Hach Company                    | 544.22              |
| 02/08/2016        | 25333               | House Of Quality, Parts Plus    | 2,205.70            |
| 02/08/2016        | 25334               | Inland Water Works Supply Co.   | 5,048.55            |
| 02/08/2016        | 25335               | Innerline Engineering           | 3,500.00            |
| 02/08/2016        | 25336               | Johnson Power Systems           | 712.65              |
| 02/08/2016        | 25337               | Main's Lock Supply Inc.         | 16.20               |
| 02/08/2016        | 25338               | Nagem, Inc.                     | 2,812.96            |
| 02/08/2016        | 25339               | NCL Of Wisconsin Inc            | 290.11              |
| 02/08/2016        | 25340               | Office Solutions Business Prod  | 40.73               |
| 02/08/2016        | 25341               | Red Alert Special Couriers      | 714.44              |

**Check Register - February 2016**

| <u>Check Date</u> | <u>Check Number</u> | <u>Name</u>                    | <u>Check Amount</u> |
|-------------------|---------------------|--------------------------------|---------------------|
| 02/08/2016        | 25342               | Laura Valdivieso               | 135.00              |
| 02/08/2016        | 25343               | Sterling Water Technologies LL | 17,568.46           |
| 02/08/2016        | 25344               | UPS Store#1504/ Mail Boxes Etc | 64.54               |
| 02/08/2016        | 25345               | Calmat Company                 | 2,474.97            |
| 02/08/2016        | 25346               | YSI Incorporated               | 139.41              |
| 02/08/2016        | 25347               | ZEP Manufacturing Company      | 126.86              |
| 02/08/2016        | 25348               | Boot Barn #4                   | 200.00              |
| 02/08/2016        | 25349               | CWEA/SSCSC                     | 45.00               |
| 02/08/2016        | 25350               | East Valley Water District     | 300.00              |
| 02/08/2016        | 25351               | YVWD-Petty Cash                | 360.96              |
| 02/08/2016        | 25352               | Gregory N. Godwin              | 194.19              |
| 02/08/2016        | 25353               | Standard Insurance Company     | 3,185.48            |
| 02/08/2016        | 25354               | Bob Wall                       | 147.04              |
| 02/08/2016        | 25355               | Western Dental Services, Inc.  | 302.27              |
| 02/08/2016        | 25356               | Cypress Insurance Company      | 1,445.00            |
| 02/08/2016        | 25357               | Anthem Blue Cross L and H      | 379.90              |
| 02/08/2016        | 25358               | Standard Insurance Company     | 3,169.57            |
| 02/08/2016        | 25359               | Standard Insurance Vision Plan | 672.56              |
| 02/08/2016        | 25360               | MetLife Small Business Center  | 586.82              |
| 02/08/2016        | 25361               | Courtyard Santa Rosa           | 376.84              |
| 02/08/2016        | 25362               | Courtyard Santa Rosa           | 376.84              |
| 02/08/2016        | 25363               | WageWorks, Inc.                | 191.75              |
| 02/16/2016        | 25364               | Aklufi & Wysocki               | 5,062.50            |
| 02/16/2016        | 25365               | Citizens Business Bank         | 6,875.00            |
| 02/16/2016        | 25366               | DDB Engineering Inc.           | 4,509.12            |
| 02/16/2016        | 25367               | Delta Partners, LLC            | 7,500.00            |
| 02/16/2016        | 25368               | Dudek & Associates, Inc        | 6,504.95            |
| 02/16/2016        | 25369               | Harper & Associates Eng., Inc. | 5,757.50            |
| 02/16/2016        | 25370               | Krieger & Stewart              | 21,924.15           |
| 02/16/2016        | 25371               | One Stop Landscape Supply Inc  | 25,486.50           |
| 02/16/2016        | 25372               | Pacific Hydrotech Corporation  | 356,915.00          |
| 02/16/2016        | 25373               | Pascal & Ludwig Constructors I | 130,625.00          |
| 02/16/2016        | 25374               | Platinum Advisors, LLC         | 5,000.00            |
| 02/16/2016        | 25375               | RMC Water and Environment      | 39,104.44           |
| 02/16/2016        | 25376               | Separation Processes, Inc.     | 13,870.25           |
| 02/16/2016        | 25377               | Skydrop Holdings, LLC          | 113,400.00          |
| 02/16/2016        | 25378               | Hadronex, Inc.                 | 42,952.12           |
| 02/16/2016        | 25379               | VOID CHECK                     | 0.00                |
| 02/16/2016        | 25380               | Dinosaur Tire Inc.             | 126.60              |
| 02/16/2016        | 25381               | Kelly Services, Inc.           | 1,069.20            |
| 02/16/2016        | 25382               | Sara Onate                     | 7.54                |
| 02/16/2016        | 25383               | San Bdno. Valley Muni. Water D | 7,000.00            |
| 02/16/2016        | 25384               | Sims Welding & Supply Co., Inc | 202.99              |
| 02/16/2016        | 25385               | Wells Fargo Bank-Corporate Tru | 5,000.00            |
| 02/16/2016        | 25386               | Ameripride Uniform Services    | 502.67              |
| 02/16/2016        | 25387               | AmeriGas Propane LP            | 2,019.75            |
| 02/16/2016        | 25388               | Ampak Chemicals, Inc.          | 4,212.00            |



**Check Register - February 2016**

| <u>Check Date</u> | <u>Check Number</u> | <u>Name</u>                    | <u>Check Amount</u> |
|-------------------|---------------------|--------------------------------|---------------------|
| 02/16/2016        | 25389               | Calolympic Glove & Safety Co., | 355.63              |
| 02/16/2016        | 25390               | Evoqua Water Technologies LLC  | 918.60              |
| 02/16/2016        | 25391               | Grainger                       | 735.65              |
| 02/16/2016        | 25392               | Hach Company                   | 1,066.58            |
| 02/16/2016        | 25393               | Hasa, Inc.                     | 3,561.09            |
| 02/16/2016        | 25394               | Inland Water Works Supply Co.  | 15,471.64           |
| 02/16/2016        | 25395               | Johnson Machinery Co.          | 1,983.74            |
| 02/16/2016        | 25396               | Main's Lock Supply Inc.        | 32.40               |
| 02/16/2016        | 25397               | Nuckles Oil Company, Inc.      | 3,944.40            |
| 02/16/2016        | 25398               | Myron L Company                | 696.19              |
| 02/16/2016        | 25399               | Nagem, Inc.                    | 75.30               |
| 02/16/2016        | 25400               | NCL Of Wisconsin Inc           | 188.59              |
| 02/16/2016        | 25401               | Office Solutions Business Prod | 45.19               |
| 02/16/2016        | 25402               | P & R Paper Supply Co., Inc.   | 140.03              |
| 02/16/2016        | 25403               | Q Versa, LLC                   | 12,753.56           |
| 02/16/2016        | 25404               | Riverside Winnelson Company    | 2,918.04            |
| 02/16/2016        | 25405               | The Sherwin-Williams Co.       | 204.22              |
| 02/16/2016        | 25406               | State Water Resources Control  | 335.00              |
| 02/16/2016        | 25407               | WESTON, ROBERT B               | 114.75              |
| 02/16/2016        | 25408               | DARBYSHIRE, RONALD A           | 56.43               |
| 02/16/2016        | 25409               | MARABLE, MIKE                  | 39.56               |
| 02/16/2016        | 25410               | DOBSON, JENNIFER & M           | 52.62               |
| 02/16/2016        | 25411               | MOSHER, GORDON W               | 41.39               |
| 02/16/2016        | 25412               | WES HANKINS INC                | 58.13               |
| 02/16/2016        | 25413               | MARQUEZ, ANGELA                | 77.98               |
| 02/16/2016        | 25414               | LEAL, JOSEPH & ERICA           | 46.67               |
| 02/16/2016        | 25415               | YUCAIPA VALLEY REAL            | 42.43               |
| 02/16/2016        | 25416               | SMITH, JOSHUA                  | 42.43               |
| 02/19/2016        | 25417               | PAYROLL CHECK                  | 2,066.55            |
| 02/19/2016        | 25418               | CA-PERS Supplemental Income 45 | 18,683.44           |
| 02/19/2016        | 25419               | WageWorks, Inc.                | 1,462.27            |
| 02/19/2016        | 25420               | Public Employees' Retirement S | 22,515.84           |
| 02/19/2016        | 25421               | Hong Nelson                    | 125.00              |
| 02/19/2016        | 25422               | California State Disbursement  | 115.38              |
| 02/19/2016        | 25423               | California State Disbursement  | 476.30              |
| 02/19/2016        | 25424               | Department of the Treasury - I | 125.00              |
| 02/19/2016        | 25425               | Cypress Insurance Company      | 15,735.86           |
| 02/19/2016        | 25426               | WageWorks, Inc.                | 212.75              |
| 02/22/2016        | 25427               | Ralph C. Casas                 | 58.00               |
| 02/22/2016        | 25428               | Ameripride Uniform Services    | 499.09              |
| 02/22/2016        | 25429               | Redlands Employment Services   | 948.40              |
| 02/22/2016        | 25430               | AT&T Mobility                  | 1,699.49            |
| 02/22/2016        | 25431               | Cobb's Printing, LLC           | 306.72              |
| 02/22/2016        | 25432               | Fedex                          | 47.54               |
| 02/22/2016        | 25433               | Hershey Business Products      | 243.00              |
| 02/22/2016        | 25434               | Incode Division-Tyler Technolo | 2,583.50            |
| 02/22/2016        | 25435               | Inland Empire Resource Conserv | 411.43              |

### Check Register - February 2016

| <u>Check Date</u>                         | <u>Check Number</u> | <u>Name</u>                    | <u>Check Amount</u> |
|---|---------------------|--------------------------------|---------------------|
| 02/22/2016                                | 25436               | Kelly Services, Inc.           | 855.36              |
| 02/22/2016                                | 25437               | NetComp Technologies, Inc.     | 1,050.00            |
| 02/22/2016                                | 25438               | The Counseling Team Internatio | 240.00              |
| 02/22/2016                                | 25439               | Verizon                        | 140.17              |
| 02/22/2016                                | 25440               | All American Sewer Tools       | 1,428.13            |
| 02/22/2016                                | 25441               | Aqua-Metric Sales Company      | 9,339.84            |
| 02/22/2016                                | 25442               | Bernell Hydraulics, Inc.       | 1,274.12            |
| 02/22/2016                                | 25443               | Evoqua Water Technologies LLC  | 974.44              |
| 02/22/2016                                | 25444               | Inland Water Works Supply Co.  | 1,305.72            |
| 02/22/2016                                | 25445               | J. Colon Coatings, Inc.        | 16,800.00           |
| 02/22/2016                                | 25446               | JB Paving & Engineering, Inc.  | 15,002.25           |
| 02/22/2016                                | 25447               | Lowe's Companies, Inc.         | 135.50              |
| 02/22/2016                                | 25448               | Nuckles Oil Company, Inc.      | 1,471.24            |
| 02/22/2016                                | 25449               | Office Solutions Business Prod | 156.68              |
| 02/22/2016                                | 25450               | Pro-Pipe & Supply, Inc.        | 93.57               |
| 02/22/2016                                | 25451               | Riverside Winnelson Company    | 149.54              |
| 02/22/2016                                | 25452               | Safety Kleen Systems, Inc.     | 145.00              |
| 02/22/2016                                | 25453               | JR Simplot Company             | 302.40              |
| 02/22/2016                                | 25454               | Smart & Final Stores, LLC      | 143.01              |
| 02/22/2016                                | 25455               | Steven Enterprises, Inc        | 1,083.46            |
| 02/22/2016                                | 25456               | UPS Store#1504/ Mail Boxes Etc | 10.28               |
| 02/22/2016                                | 25457               | CWEA-TCP (OAKPORT ST.)         | 91.00               |
| 02/22/2016                                | 25458               | Kyle Westerlin                 | 170.00              |
| 02/22/2016                                | 25459               | Gilbert A. Santacruz           | 164.00              |
| 02/22/2016                                | 25460               | Courtland R. Gear              | 164.00              |
| 02/22/2016                                | 25461               | Aaron Blose                    | 164.00              |
| 02/22/2016                                | 25462               | Joseph Zoba                    | 110.21              |
| 02/22/2016                                | 25463               | Matthew Porras                 | 229.12              |
| 02/22/2016                                | 25464               | Kyle C. Mitchell               | 91.40               |
| <b>February 2016 Check Register Total</b> |                     |                                | <b>2,008,111.02</b> |

## Financial Account Information - February 2016

| DATE        | DESCRIPTION        | Deposit<br>Checking | General<br>Checking | Investment<br>Checking | Treasuries<br>at cost | LAIF<br>Invest. Fund | TOTAL<br>ACTIVITY |
|-------------|--------------------|---------------------|---------------------|------------------------|-----------------------|----------------------|-------------------|
| 01/31/2016  | bal forward        | 884,405.99          | 30,000.00           | 24,782.97              | 501,504.82            | 17,313,426.79        | 18,754,120.57     |
| 1/31        | rev retained in MM |                     |                     |                        | (2,019.50)            |                      | (2,019.50)        |
| 02/01/2016  | Deposit            | 32,444.41           |                     |                        |                       |                      | 32,444.41         |
|             | Deposit - Riv tax  | 3,240.51            |                     |                        |                       |                      | 3,240.51          |
|             | Credit Card-1/29   | 464.26              |                     |                        |                       |                      | 464.26            |
|             | Credit Card-2/1    | 4,641.24            |                     |                        |                       |                      | 4,641.24          |
|             | Electronic         | 12,978.21           |                     |                        |                       |                      | 12,978.21         |
|             | Website-2/1        | 4,817.14            |                     |                        |                       |                      | 4,817.14          |
|             | Website-2/2        | 145.14              |                     |                        |                       |                      | 145.14            |
|             | Website-2/2        | 486.87              |                     |                        |                       |                      | 486.87            |
| 02/02/2016  | Deposit            | 38,948.56           |                     |                        |                       |                      | 38,948.56         |
|             | Deposit - MC       | 3,200.00            |                     |                        |                       |                      | 3,200.00          |
|             | Credit Card-2/1    | 533.37              |                     |                        |                       |                      | 533.37            |
|             | Credit Card-2/2    | 2,075.56            |                     |                        |                       |                      | 2,075.56          |
|             | Electronic         | 27,066.63           |                     |                        |                       |                      | 27,066.63         |
|             | Website-2/2        | 4,161.01            |                     |                        |                       |                      | 4,161.01          |
|             | Website-2/3        | 140.28              |                     |                        |                       |                      | 140.28            |
|             | Website-2/3        | 414.19              |                     |                        |                       |                      | 414.19            |
|             | ETS Fees           | (1,537.85)          |                     |                        |                       |                      | (1,537.85)        |
|             | ETS Fees           | (1,364.96)          |                     |                        |                       |                      | (1,364.96)        |
| 02/03/2016  | Deposit            | 37,524.89           |                     |                        |                       |                      | 37,524.89         |
|             | Deposit - MC       | 367,673.60          |                     |                        |                       |                      | 367,673.60        |
|             | Credit Card-2/2    | 516.74              |                     |                        |                       |                      | 516.74            |
|             | Credit Card-2/3    | 6,724.72            |                     |                        |                       |                      | 6,724.72          |
|             | Electronic         | 19,202.97           |                     |                        |                       |                      | 19,202.97         |
|             | Website-2/3        | 4,358.40            |                     |                        |                       |                      | 4,358.40          |
|             | Website-2/4        | 218.32              |                     |                        |                       |                      | 218.32            |
|             | Website-2/4        | 462.25              |                     |                        |                       |                      | 462.25            |
|             | ACH pmts           | 43,187.40           |                     |                        |                       |                      | 43,187.40         |
| 02/04/2016  | Deposit            | 34,409.15           |                     |                        |                       |                      | 34,409.15         |
|             | Credit Card-2/3    | 2,104.27            |                     |                        |                       |                      | 2,104.27          |
|             | Credit Card-2/4    | 1,659.16            |                     |                        |                       |                      | 1,659.16          |
|             | Electronic         | 11,361.28           |                     |                        |                       |                      | 11,361.28         |
|             | Website-2/4        | 3,722.69            |                     |                        |                       |                      | 3,722.69          |
|             | Website-2/5        | 80.00               |                     |                        |                       |                      | 80.00             |
|             | Website-2/5        | 962.47              |                     |                        |                       |                      | 962.47            |
| 02/05/16-PR | Federal Taxes      |                     | (49,643.91)         |                        |                       |                      | (49,643.91)       |
| 02/05/16-PR | State Taxes        |                     | (7,836.43)          |                        |                       |                      | (7,836.43)        |
| 02/05/16-PR | PR Direct Deposit  |                     | (115,782.95)        |                        |                       |                      | (115,782.95)      |
| 02/05/16-PR | VOYA 457           |                     | (8,270.90)          |                        |                       |                      | (8,270.90)        |
|             | Cks. #25248-25291  |                     | (253,257.09)        |                        |                       |                      | (253,257.09)      |
|             | TRF#1400- AP & PR  | (434,791.28)        | 434,791.28          |                        |                       |                      | 0.00              |
| 02/05/2016  | Deposit            | 26,876.47           |                     |                        |                       |                      | 26,876.47         |
|             | Credit Card-2/4    | 893.63              |                     |                        |                       |                      | 893.63            |
|             | Credit Card-2/5    | 2,309.00            |                     |                        |                       |                      | 2,309.00          |
|             | Electronic         | 12,207.76           |                     |                        |                       |                      | 12,207.76         |
|             | Website-2/5        | 2,768.25            |                     |                        |                       |                      | 2,768.25          |
|             | Website-2/6        | 73.42               |                     |                        |                       |                      | 73.42             |
|             | Website-2/6        | 1,410.07            |                     |                        |                       |                      | 1,410.07          |
|             | Website-2/7        | 75.15               |                     |                        |                       |                      | 75.15             |
|             | Website-2/7        | 2,280.08            |                     |                        |                       |                      | 2,280.08          |
|             | Website-2/8        | 64.93               |                     |                        |                       |                      | 64.93             |
|             | Website-2/8        | 3,079.61            |                     |                        |                       |                      | 3,079.61          |

## Financial Account Information - February 2016

| DATE       | DESCRIPTION            | Deposit<br>Checking | General<br>Checking | Investment<br>Checking | Treasuries<br>at cost | LAIF<br>Invest. Fund | TOTAL<br>ACTIVITY |
|------------|------------------------|---------------------|---------------------|------------------------|-----------------------|----------------------|-------------------|
| 01/31/2016 | bal forward            | 884,405.99          | 30,000.00           | 24,782.97              | 501,504.82            | 17,313,426.79        | 18,754,120.57     |
| 02/08/2016 | Deposit                | 64,133.01           |                     |                        |                       |                      | 64,133.01         |
|            | Credit Card-2/5        | 1,242.52            |                     |                        |                       |                      | 1,242.52          |
|            | Credit Card-2/8        | 5,322.93            |                     |                        |                       |                      | 5,322.93          |
|            | Electronic             | 11,930.01           |                     |                        |                       |                      | 11,930.01         |
|            | Website-2/8            | 3,130.56            |                     |                        |                       |                      | 3,130.56          |
|            | Website-2/9            | 596.13              |                     |                        |                       |                      | 596.13            |
| 02/09/2016 | Deposit                | 11,581.31           |                     |                        |                       |                      | 11,581.31         |
|            | Deposit-M/C            | 12,097.62           |                     |                        |                       |                      | 12,097.62         |
|            | Credit Card-2/8        | 1,371.77            |                     |                        |                       |                      | 1,371.77          |
|            | Credit Card-2/9        | 1,950.75            |                     |                        |                       |                      | 1,950.75          |
|            | Electronic             | 23,544.19           |                     |                        |                       |                      | 23,544.19         |
|            | Website-2/9            | 2,620.77            |                     |                        |                       |                      | 2,620.77          |
|            | Website-2/10           | 312.65              |                     |                        |                       |                      | 312.65            |
|            | Website-2/10           | 424.27              |                     |                        |                       |                      | 424.27            |
|            | Void Ck#23451, 5/29/15 |                     | 156.71              |                        |                       |                      | 156.71            |
|            | Cks. #25292-25363      |                     | (781,628.41)        |                        |                       |                      | (781,628.41)      |
|            | TRF#1401- AP           | (781,471.70)        | 781,471.70          |                        |                       |                      | 0.00              |
| 02/10/2016 | Deposit                | 64,531.57           |                     |                        |                       |                      | 64,531.57         |
|            | Credit Card-2/9        | 618.60              |                     |                        |                       |                      | 618.60            |
|            | Credit Card-2/10       | 4,967.44            |                     |                        |                       |                      | 4,967.44          |
|            | Electronic             | 13,598.22           |                     |                        |                       |                      | 13,598.22         |
|            | Website-2/10           | 6,393.74            |                     |                        |                       |                      | 6,393.74          |
|            | Website-2/11           | 54.39               |                     |                        |                       |                      | 54.39             |
|            | Website-2/11           | 543.53              |                     |                        |                       |                      | 543.53            |
|            | ACH pmts               | 45,122.30           |                     |                        |                       |                      | 45,122.30         |
| 02/11/2016 | Deposit                | 54,991.90           |                     |                        |                       |                      | 54,991.90         |
|            | Deposit-M/C            | 25,984.60           |                     |                        |                       |                      | 25,984.60         |
|            | Credit Card-2/10       | 1,036.05            |                     |                        |                       |                      | 1,036.05          |
|            | Credit Card-2/11       | 2,140.27            |                     |                        |                       |                      | 2,140.27          |
|            | Electronic             | 12,083.44           |                     |                        |                       |                      | 12,083.44         |
|            | Website-2/11           | 2,529.70            |                     |                        |                       |                      | 2,529.70          |
|            | Website-2/12           | 942.08              |                     |                        |                       |                      | 942.08            |
| 02/12/2016 | Deposit                | 38,490.90           |                     |                        |                       |                      | 38,490.90         |
|            | Deposit - MC           | 3,200.00            |                     |                        |                       |                      | 3,200.00          |
|            | Credit Card-2/11       | 483.07              |                     |                        |                       |                      | 483.07            |
|            | Credit Card-2/12       | 2,058.14            |                     |                        |                       |                      | 2,058.14          |
|            | Electronic             | 13,994.24           |                     |                        |                       |                      | 13,994.24         |
|            | Website-2/12           | 3,698.54            |                     |                        |                       |                      | 3,698.54          |
|            | Website-2/13           | 141.97              |                     |                        |                       |                      | 141.97            |
|            | Website-2/13           | 2,776.08            |                     |                        |                       |                      | 2,776.08          |
|            | Website-2/14           | 64.93               |                     |                        |                       |                      | 64.93             |
|            | Website-2/14           | 1,687.92            |                     |                        |                       |                      | 1,687.92          |
|            | Website-2/15           | 63.23               |                     |                        |                       |                      | 63.23             |
|            | Website-2/15           | 3,095.63            |                     |                        |                       |                      | 3,095.63          |
|            | Website-2/16           | 117.43              |                     |                        |                       |                      | 117.43            |
|            | Website-2/16           | 563.16              |                     |                        |                       |                      | 563.16            |
| 02/16/2016 | Deposit                | 74,947.79           |                     |                        |                       |                      | 74,947.79         |
|            | Credit Card-2/12       | 405.95              |                     |                        |                       |                      | 405.95            |
|            | Credit Card-2/16       | 5,169.67            |                     |                        |                       |                      | 5,169.67          |
|            | Electronic             | 12,835.20           |                     |                        |                       |                      | 12,835.20         |
|            | Website-2/16           | 3,079.47            |                     |                        |                       |                      | 3,079.47          |
|            | Website-2/17           | 71.27               |                     |                        |                       |                      | 71.27             |
|            | Website-2/17           | 720.12              |                     |                        |                       |                      | 720.12            |

## Financial Account Information - February 2016

| DATE       | DESCRIPTION             | Deposit<br>Checking | General<br>Checking | Investment<br>Checking | Treasuries<br>at cost | LAIF<br>Invest. Fund | TOTAL<br>ACTIVITY |
|------------|-------------------------|---------------------|---------------------|------------------------|-----------------------|----------------------|-------------------|
| 01/31/2016 | bal forward             | 884,405.99          | 30,000.00           | 24,782.97              | 501,504.82            | 17,313,426.79        | 18,754,120.57     |
| 2/16       | ACH pmts                | 50,282.38           |                     |                        |                       |                      | 50,282.38         |
| 2/16       | ACH pmts                | 66.62               |                     |                        |                       |                      | 66.62             |
| 02/17/2016 | Deposit                 | 11,296.75           |                     |                        |                       |                      | 11,296.75         |
|            | Credit Card-2/16        | 1,025.25            |                     |                        |                       |                      | 1,025.25          |
|            | Credit Card-2/17        | 5,766.62            |                     |                        |                       |                      | 5,766.62          |
|            | Electronic              | 23,016.00           |                     |                        |                       |                      | 23,016.00         |
|            | Website-2/17            | 4,083.42            |                     |                        |                       |                      | 4,083.42          |
|            | Website-2/18            | 408.29              |                     |                        |                       |                      | 408.29            |
|            | Cks. #25364-25416       |                     | (852,128.19)        |                        |                       |                      | (852,128.19)      |
|            | TRF#1402- AP            | (852,128.19)        | 852,128.19          |                        |                       |                      | 0.00              |
| 02/18/2016 | Deposit                 | 29,313.22           |                     |                        |                       |                      | 29,313.22         |
|            | Credit Card-2/17        | 1,693.60            |                     |                        |                       |                      | 1,693.60          |
|            | Credit Card-2/18        | 16,868.37           |                     |                        |                       |                      | 16,868.37         |
|            | Electronic              | 11,661.75           |                     |                        |                       |                      | 11,661.75         |
|            | Website2/18             | 2,542.71            |                     |                        |                       |                      | 2,542.71          |
|            | Website2/19             | 252.22              |                     |                        |                       |                      | 252.22            |
| 02/19/2016 | Deposit                 | 52,806.69           |                     |                        |                       |                      | 52,806.69         |
|            | Credit Card-2/19        | 3,023.34            |                     |                        |                       |                      | 3,023.34          |
|            | Electronic              | 15,413.87           |                     |                        |                       |                      | 15,413.87         |
|            | Website-2/19            | 3,057.97            |                     |                        |                       |                      | 3,057.97          |
|            | Website-2/20            | 1,530.18            |                     |                        |                       |                      | 1,530.18          |
|            | Website-2/21            | 175.73              |                     |                        |                       |                      | 175.73            |
|            | Website-2/21            | 2,655.04            |                     |                        |                       |                      | 2,655.04          |
|            | Website-2/22            | 359.25              |                     |                        |                       |                      | 359.25            |
| 02/22/2016 | Deposit                 | 55,852.91           |                     |                        |                       |                      | 55,852.91         |
|            | Deposit-M/C             | 24,873.25           |                     |                        |                       |                      | 24,873.25         |
|            | Deposit-M/C             | 4,389.75            |                     |                        |                       |                      | 4,389.75          |
|            | Credit Card-2/19        | 762.67              |                     |                        |                       |                      | 762.67            |
|            | Credit Card-2/22        | 3,506.51            |                     |                        |                       |                      | 3,506.51          |
|            | Electronic              | 19,270.32           |                     |                        |                       |                      | 19,270.32         |
|            | Website-2/22            | 1,904.01            |                     |                        |                       |                      | 1,904.01          |
|            | Website-2/23            | 193.57              |                     |                        |                       |                      | 193.57            |
|            | Website-2/23            | 444.58              |                     |                        |                       |                      | 444.58            |
|            | ACH pmts                | 27,244.31           |                     |                        |                       |                      | 27,244.31         |
| 2/19/16-PR | Federal Taxes           |                     | (48,829.08)         |                        |                       |                      | (48,829.08)       |
| 2/19/16-PR | State Taxes             |                     | (7,917.12)          |                        |                       |                      | (7,917.12)        |
| 2/19/16-PR | PR Direct Deposit       |                     | (114,327.31)        |                        |                       |                      | (114,327.31)      |
| 2/19/16-PR | VOYA 457                |                     | (7,663.93)          |                        |                       |                      | (7,663.93)        |
|            | Cks. #25417-25426       |                     | (61,518.39)         |                        |                       |                      | (61,518.39)       |
|            | TRF#1403- AP & PR       | (240,255.83)        | 240,255.83          |                        |                       |                      | 0.00              |
|            | Deposit - SBC Tax       |                     | 59,877.15           |                        |                       |                      | 59,877.15         |
|            | TRF#1404 - to Dep Cking | 59,877.15           | (59,877.15)         |                        |                       |                      | 0.00              |
| 02/23/2016 | Deposit                 | 6,941.68            |                     |                        |                       |                      | 6,941.68          |
|            | Credit Card-2/22        | 871.80              |                     |                        |                       |                      | 871.80            |
|            | Credit Card-2/23        | 1,743.25            |                     |                        |                       |                      | 1,743.25          |
|            | Electronic              | 16,221.18           |                     |                        |                       |                      | 16,221.18         |
|            | Website-2/23            | 1,764.74            |                     |                        |                       |                      | 1,764.74          |
|            | Website-2/24            | 155.32              |                     |                        |                       |                      | 155.32            |
|            | Website-2/24            | 150.36              |                     |                        |                       |                      | 150.36            |
|            | Void Ck#25379, 2/16     |                     | 502.67              |                        |                       |                      | 502.67            |
|            | Cks. #25427-25464       |                     | (60,081.61)         |                        |                       |                      | (60,081.61)       |
|            | TRF#1405 - AP           | (59,578.94)         | 59,578.94           |                        |                       |                      | 0.00              |

## Financial Account Information - February 2016

| DATE       | DESCRIPTION        | Deposit<br>Checking | General<br>Checking | Investment<br>Checking | Treasuries<br>at cost | LAIF<br>Invest. Fund | TOTAL<br>ACTIVITY |
|------------|--------------------|---------------------|---------------------|------------------------|-----------------------|----------------------|-------------------|
| 01/31/2016 | bal forward        | 884,405.99          | 30,000.00           | 24,782.97              | 501,504.82            | 17,313,426.79        | 18,754,120.57     |
| 02/24/2016 | Deposit            | 28,785.20           |                     |                        |                       |                      | 28,785.20         |
|            | Credit Card-2/23   | 1,237.65            |                     |                        |                       |                      | 1,237.65          |
|            | Credit Card-2/24   | 1,597.50            |                     |                        |                       |                      | 1,597.50          |
|            | Electronic         | 7,415.22            |                     |                        |                       |                      | 7,415.22          |
|            | Website-2/24       | 1,492.14            |                     |                        |                       |                      | 1,492.14          |
|            | Website-2/25       | 154.18              |                     |                        |                       |                      | 154.18            |
|            | Website-2/25       | 658.42              |                     |                        |                       |                      | 658.42            |
| 02/25/2016 | Deposit            | 14,885.30           |                     |                        |                       |                      | 14,885.30         |
|            | Credit Card-2/24   | 504.38              |                     |                        |                       |                      | 504.38            |
|            | Credit Card-2/25   | 925.24              |                     |                        |                       |                      | 925.24            |
|            | Electronic         | 5,451.66            |                     |                        |                       |                      | 5,451.66          |
|            | Website-2/25       | 3,968.36            |                     |                        |                       |                      | 3,968.36          |
|            | Website-2/26       | 47.91               |                     |                        |                       |                      | 47.91             |
|            | Website-2/26       | 451.17              |                     |                        |                       |                      | 451.17            |
|            | ACH pmts           | 54,871.13           |                     |                        |                       |                      | 54,871.13         |
|            | ACH pmts           | 726.67              |                     |                        |                       |                      | 726.67            |
| 02/26/2016 | Deposit            | 14,743.50           |                     |                        |                       |                      | 14,743.50         |
|            | Credit Card-2/25   | 4,758.60            |                     |                        |                       |                      | 4,758.60          |
|            | Credit Card-2/26   | 1,775.83            |                     |                        |                       |                      | 1,775.83          |
|            | Electronic         | 6,625.06            |                     |                        |                       |                      | 6,625.06          |
|            | Website-2/26       | 4,537.43            |                     |                        |                       |                      | 4,537.43          |
|            | Website-2/27       | 1,542.51            |                     |                        |                       |                      | 1,542.51          |
|            | Website-2/28       | 1,987.02            |                     |                        |                       |                      | 1,987.02          |
|            | Website-2/29       | 702.88              |                     |                        |                       |                      | 702.88            |
|            | Website-2/29       | 493.86              |                     |                        |                       |                      | 493.86            |
| 02/29/2016 | Deposit            | 34,442.86           |                     |                        |                       |                      | 34,442.86         |
|            | Bank adj           | 20.00               |                     |                        |                       |                      | 20.00             |
|            | Credit Card-2/26   | 1,042.25            |                     |                        |                       |                      | 1,042.25          |
|            | Credit Card-2/29   | 1,370.26            |                     |                        |                       |                      | 1,370.26          |
|            | Electronic         | 8,094.41            |                     |                        |                       |                      | 8,094.41          |
|            | Website-2/29       | 3,804.52            |                     |                        |                       |                      | 3,804.52          |
|            | Website-3/1        | 852.36              |                     |                        |                       |                      | 852.36            |
|            | February '16 NSF's | (1,109.20)          |                     |                        |                       |                      | (1,109.20)        |
| 1/31       | retained in MM     |                     |                     |                        | 2,019.52              |                      | 2,019.52          |
| TOTALS     |                    | 451,025.24          | 30,000.00           | 24,782.97              | 501,504.84            | 17,313,426.79        | 18,320,739.84     |

18,320,739.84

## Investment Summary - January 2016

### U.S. TREASURIES

| Quantity       | Description         | Cusip     | Maturity Date | Yield  | Cost of Purchase  | Market Value      |
|----------------|---------------------|-----------|---------------|--------|-------------------|-------------------|
| 500,000        | US Treasury Bill    | 912796HT9 | June 2, 2016  | 0.020% | 499,485.32        | 499,590.00        |
| <b>500,000</b> | <b>Total Values</b> |           |               |        | <b>499,485.32</b> | <b>499,590.00</b> |

|  |                       |
|--|-----------------------|
| <b>Money Market Account Activity-Beginning Balance</b> | <b>2,019.50</b>       |
| 1/31/16 - Dividend/Interest                            | 0.02                  |
| <b>Income</b>  | <b>0.02</b>           |
| Intra-Bank Transfers to/from Investment Checking       | 0.00                  |
| <b>Fund Transfers</b>                                  | <b>0.00</b>           |
| Cusip Maturity   | 0.00                  |
| <b>Redemptions</b>                                     | <b>0.00</b>           |
| Cusip Purchase   | 0.00                  |
| <b>Purchases</b>                                       | <b>0.00</b>           |
| <br><b>Ending Balance - Money Market</b>               | <br><b>2,019.52</b>   |
| <br><b>US Treasury Securities Investment Principal</b> | <br><b>499,485.32</b> |
| <br><b>Total Assets</b>                                | <br><b>501,504.84</b> |

## Investment Summary - February 2016

### LOCAL AGENCY INVESTMENT FUND

| PERIOD             | TOTAL WITHDRAWAL<br>AMOUNT | TOTAL DEPOSIT<br>AMOUNT | ACCRUED INTEREST<br>(QUARTERLY) | ENDING BALANCE  |
|--------------------|----------------------------|-------------------------|---------------------------------|-----------------|
| July 31, 2015      | (\$525,000.00)             | \$0.00                  | \$12,375.46                     | \$19,103,970.94 |
| August 31, 2015    | (\$3,000,000.00)           | \$0.00                  | \$0.00                          | \$16,103,970.94 |
| September 30, 2015 | \$0.00                     | \$0.00                  | \$0.00                          | \$16,103,970.94 |
| October 31, 2015   | \$0.00                     | \$0.00                  | \$14,537.81                     | \$16,118,508.75 |
| November 30, 2015  | \$0.00                     | \$0.00                  | \$0.00                          | \$16,118,508.75 |
| December 31, 2015  | \$0.00                     | \$0.00                  | \$0.00                          | \$16,118,508.75 |
| January 31, 2016   | \$0.00                     | \$1,180,000.00          | \$14,918.04                     | \$17,313,426.79 |
| February 28, 2016  | \$0.00                     | \$0.00                  | \$0.00                          | \$17,313,426.79 |
| March 31, 2016     | \$0.00                     | \$0.00                  | \$0.00                          | \$17,313,426.79 |
| April 30, 2016     | \$0.00                     | \$0.00                  | \$0.00                          | \$17,313,426.79 |
| May 31, 2016       | \$0.00                     | \$0.00                  | \$0.00                          | \$17,313,426.79 |
| June 30, 2016      | \$0.00                     | \$0.00                  | \$0.00                          | \$17,313,426.79 |

#### L.A.I.F. INCOME SUMMARY

#### CURRENT QUARTER

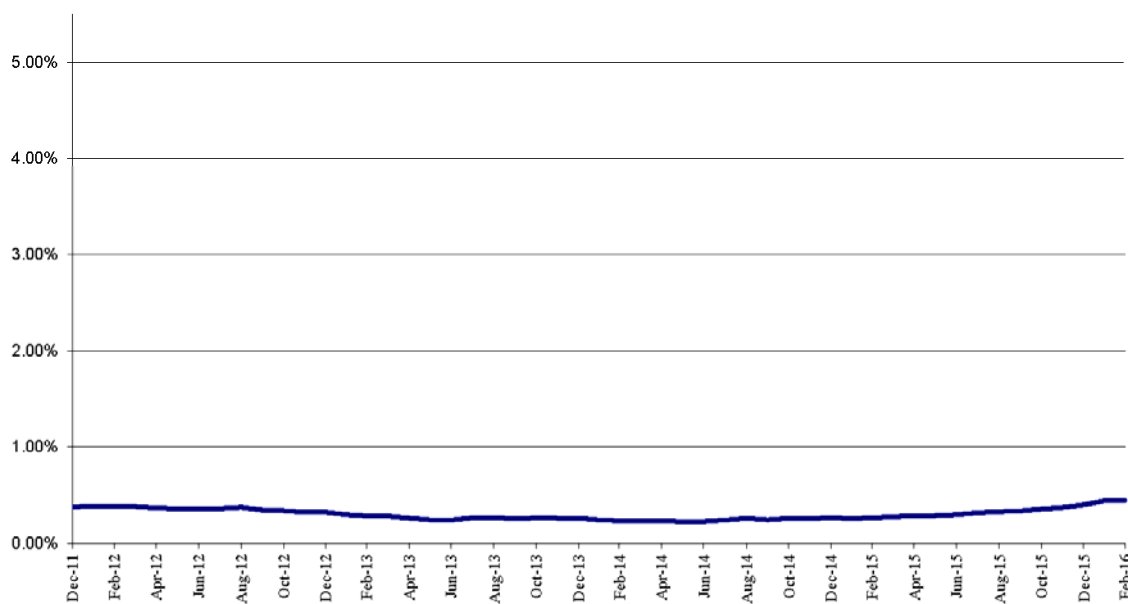
#### FY YEAR-TO-DATE

INCOME RECEIVED

\$14,918.04

\$41,831.31

**Effective Yield of the LAIF Pooled Money Investment Account**





## Daily Deposit Allocation - February 2016

| DATE       | DESCRIPTION       | QTY | DEPOSIT CHECKING DEPOSITS | AR Mail & Counter | AR Payment Centers | AR Credit Card | AR Electronic Rapid Pay | AR Web Site | AR ACH Auto Pay | AR TOTAL  | AR Water Fees & Deposits | Water Allocation | Sewer Allocation | Recycled Allocation | RECAP TOTAL |
|------------|-------------------|-----|---------------------------|-------------------|--------------------|----------------|-------------------------|-------------|-----------------|-----------|--------------------------|------------------|------------------|---------------------|-------------|
| 02/01/2016 | Mail & Counter    | 377 | 32,444.41                 | 32,324.41         |                    |                |                         |             |                 | 32,324.41 | 120.00                   | 3,240.51         |                  |                     | 32,444.41   |
|            | Deposit-Riv Tax   |     | 3,240.51                  |                   |                    |                |                         |             |                 | 0.00      |                          |                  |                  |                     | 3,240.51    |
|            | Credit Cards      | 51  | 5,105.50                  |                   |                    | 5,105.50       |                         |             |                 | 5,105.50  |                          |                  |                  |                     | 5,105.50    |
|            | Electronic        | 174 | 12,978.21                 |                   |                    |                | 12,978.21               |             |                 | 12,978.21 |                          |                  |                  |                     | 12,978.21   |
|            | Website-58 fees   | 59  | 5,449.15                  |                   |                    |                |                         | 5,347.65    |                 | 5,347.65  | 101.50                   |                  |                  |                     | 5,449.15    |
| 02/02/2016 | Mail & Counter    | 285 | 38,948.56                 | 38,948.56         |                    |                |                         |             |                 | 38,948.56 |                          |                  |                  |                     | 38,948.56   |
|            | Deposit-M/C       |     | 3,200.00                  |                   |                    |                |                         |             |                 | 0.00      |                          | 3,200.00         |                  |                     | 3,200.00    |
|            | Credit Cards      | 31  | 2,608.93                  |                   |                    | 2,608.93       |                         |             |                 | 2,608.93  |                          |                  |                  |                     | 2,608.93    |
|            | Electronic        | 385 | 27,066.63                 |                   |                    |                | 27,066.63               |             |                 | 27,066.63 |                          |                  |                  |                     | 27,066.63   |
|            | Website-51 fees   | 52  | 4,715.48                  |                   |                    |                |                         | 4,626.23    |                 | 4,626.23  | 89.25                    |                  |                  |                     | 4,715.48    |
| 02/03/2016 | Mail & Counter    | 347 | 37,524.89                 | 37,524.89         |                    |                |                         |             |                 | 37,524.89 |                          |                  |                  |                     | 37,524.89   |
|            | Deposit-Wm Lyons  |     | 367,673.60                |                   |                    |                |                         |             |                 | 0.00      |                          | 236,137.60       | 131,536.00       |                     | 367,673.60  |
|            | Credit Cards      | 54  | 7,241.46                  |                   |                    | 7,241.46       |                         |             |                 | 7,241.46  |                          |                  |                  |                     | 7,241.46    |
|            | Electronic        | 277 | 19,202.97                 |                   |                    |                | 19,202.97               |             |                 | 19,202.97 |                          |                  |                  |                     | 19,202.97   |
|            | Website-46 fees   | 48  | 5,038.97                  |                   |                    |                |                         | 4,958.47    |                 | 4,958.47  | 80.50                    |                  |                  |                     | 5,038.97    |
| 02/04/2016 | ACH payment       | 497 | 43,187.40                 |                   |                    |                |                         |             | 43,187.40       | 43,187.40 |                          |                  |                  |                     | 43,187.40   |
|            | Mail & Counter    | 312 | 34,409.15                 | 34,409.15         |                    |                |                         |             |                 | 34,409.15 |                          |                  |                  |                     | 34,409.15   |
|            | Credit Cards      | 30  | 3,763.43                  |                   |                    | 3,763.43       |                         |             |                 | 3,763.43  |                          |                  |                  |                     | 3,763.43    |
|            | Electronic        | 179 | 11,361.28                 |                   |                    |                | 11,361.28               |             |                 | 11,361.28 |                          |                  |                  |                     | 11,361.28   |
|            | Website - 50 fees | 51  | 4,765.16                  |                   |                    |                |                         | 4,677.66    |                 | 4,677.66  | 87.50                    |                  |                  |                     | 4,765.16    |
| 02/05/2016 | Mail & Counter    | 269 | 26,876.47                 | 26,876.47         |                    |                |                         |             |                 | 26,876.47 |                          |                  |                  |                     | 26,876.47   |
|            | Credit Cards      | 30  | 3,202.63                  |                   |                    | 3,202.63       |                         |             |                 | 3,202.63  |                          |                  |                  |                     | 3,202.63    |
|            | Electronic        | 182 | 12,207.76                 |                   |                    |                | 12,207.76               |             |                 | 12,207.76 |                          |                  |                  |                     | 12,207.76   |
|            | Website-82 fees   | 83  | 9,751.51                  |                   |                    |                |                         | 9,608.01    |                 | 9,608.01  | 143.50                   |                  |                  |                     | 9,751.51    |
| 02/08/2016 | Mail & Counter    | 610 | 64,133.01                 | 64,133.01         |                    |                |                         |             |                 | 64,133.01 |                          |                  |                  |                     | 64,133.01   |
|            | Credit Cards      | 50  | 6,565.45                  |                   |                    | 6,565.45       |                         |             |                 | 6,565.45  |                          |                  |                  |                     | 6,565.45    |
|            | Electronic        | 168 | 11,930.01                 |                   |                    |                | 11,930.01               |             |                 | 11,930.01 |                          |                  |                  |                     | 11,930.01   |
|            | Website-39 fees   | 40  | 3,726.69                  |                   |                    |                |                         | 3,658.44    |                 | 3,658.44  | 68.25                    |                  |                  |                     | 3,726.69    |
| 02/09/2016 | Mail & Counter    | 146 | 11,581.31                 | 11,581.31         |                    |                |                         |             |                 | 11,581.31 |                          |                  |                  |                     | 11,581.31   |
|            | Deposit-M/C       | -   | 12,097.62                 |                   |                    |                |                         |             |                 | 0.00      |                          | 12,097.62        |                  |                     | 12,097.62   |
|            | Credit Cards      | 32  | 3,322.52                  |                   |                    | 3,322.52       |                         |             |                 | 3,322.52  |                          |                  |                  |                     | 3,322.52    |
|            | Electronic        | 297 | 23,544.19                 |                   |                    |                | 23,544.19               |             |                 | 23,544.19 |                          |                  |                  |                     | 23,544.19   |
|            | Website-37 fees   | 38  | 3,357.69                  |                   |                    |                |                         | 3,282.94    |                 | 3,282.94  | 64.75                    |                  |                  |                     | 3,357.69    |
| 02/10/2016 | Mail & Counter    | 325 | 64,531.57                 | 64,531.57         |                    |                |                         |             |                 | 64,531.57 |                          |                  |                  |                     | 64,531.57   |
|            | Credit Cards      | 49  | 5,586.04                  |                   |                    | 5,586.04       |                         |             |                 | 5,586.04  |                          |                  |                  |                     | 5,586.04    |
|            | Electronic        | 184 | 13,598.22                 |                   |                    |                | 13,598.22               |             |                 | 13,598.22 |                          |                  |                  |                     | 13,598.22   |
|            | Website-50 fees   | 54  | 6,991.66                  |                   |                    |                |                         | 6,904.16    |                 | 6,904.16  | 87.50                    |                  |                  |                     | 6,991.66    |
|            | ACH payment       | 570 | 45,122.30                 |                   |                    |                |                         |             | 45,122.30       | 45,122.30 |                          |                  |                  |                     | 45,122.30   |
| 02/11/2016 | Mail & Counter    | 260 | 54,991.90                 | 54,991.90         |                    |                |                         |             |                 | 54,991.90 |                          |                  |                  |                     | 54,991.90   |
|            | Deposit-M/C       | -   | 25,984.60                 |                   |                    |                |                         |             |                 | 0.00      |                          | 17,583.60        | 8,401.00         |                     | 25,984.60   |
|            | Credit Cards      | 32  | 3,176.32                  |                   |                    | 3,176.32       |                         |             |                 | 3,176.32  |                          |                  |                  |                     | 3,176.32    |
|            | Electronic        | 157 | 12,083.44                 |                   |                    |                | 12,083.44               |             |                 | 12,083.44 |                          |                  |                  |                     | 12,083.44   |
|            | Website           | 36  | 3,471.78                  |                   |                    |                |                         | 3,408.78    |                 | 3,408.78  | 63.00                    |                  |                  |                     | 3,471.78    |
| 02/12/2016 | Mail & Counter    | 223 | 38,490.90                 | 38,490.90         |                    |                |                         |             |                 | 38,490.90 |                          |                  |                  |                     | 38,490.90   |
|            | Deposit-M/C       | -   | 3,200.00                  |                   |                    |                |                         |             |                 | 0.00      |                          | 3,200.00         |                  |                     | 3,200.00    |
|            | Credit Cards      | 26  | 2,541.21                  |                   |                    | 2,541.21       |                         |             |                 | 2,541.21  |                          |                  |                  |                     | 2,541.21    |
|            | Electronic        | 213 | 13,994.24                 |                   |                    |                | 13,994.24               |             |                 | 13,994.24 |                          |                  |                  |                     | 13,994.24   |
|            | Website           | 134 | 12,208.89                 |                   |                    |                |                         | 11,974.39   |                 | 11,974.39 | 234.50                   |                  |                  |                     | 12,208.89   |
| 02/16/2016 | Mail & Counter    | 593 | 74,947.79                 | 74,947.79         |                    |                |                         |             |                 | 74,947.79 |                          |                  |                  |                     | 74,947.79   |
|            | Credit Cards      | 56  | 5,575.62                  |                   |                    | 5,575.62       |                         |             |                 | 5,575.62  |                          |                  |                  |                     | 5,575.62    |
|            | Electronic        | 203 | 12,835.20                 |                   |                    |                | 12,835.20               |             |                 | 12,835.20 |                          |                  |                  |                     | 12,835.20   |
|            | Website           | 45  | 3,870.86                  |                   |                    |                |                         | 3,792.11    |                 | 3,792.11  | 78.75                    |                  |                  |                     | 3,870.86    |
|            | ACH payment       | 643 | 50,349.00                 |                   |                    |                |                         |             | 50,349.00       | 50,349.00 |                          |                  |                  |                     | 50,349.00   |

### Daily Deposit Allocation - February 2016

[illegible]

## FY 2016 - Water Revenue

| ACCOUNT# | DESCRIPTION                          | BUDGET            | Qtr 1 Totals     | Oct '15          | Nov '15          | Dec '15          | Jan '16        | Feb '16        | Year to Date     | Percentage YTD |
|----------|--------------------------------------|-------------------|------------------|------------------|------------------|------------------|----------------|----------------|------------------|----------------|
| 02-40010 | Sales - Water                        | 6,165,000         | 1,109,101        | 498,039          | 361,517          | 364,040          | 205,429        | 196,850        | 2,732,976        | 44.33%         |
| 02-40011 | Sales - Construction Water           | 20,000            | 2,524            | 1,116            | 1,055            | 726              | 370            | 9              | 5,801            | 29.00%         |
| 02-40012 | Sales - Imported Water (SGPWA)       | 250,000           | 55,743           | 16,567           | 13,722           | 11,909           | 7,645          | 7,645          | 113,231          | 45.29%         |
| 02-40013 | Sales - Imported Water (MUNI)        | 850,000           | 138,543          | 69,464           | 51,720           | 52,484           | 30,695         | 28,948         | 371,856          | 43.75%         |
| 02-40014 | Sales Disc.-Multi Units Usage Chrg.  | (130,000)         | (22,065)         | (10,054)         | (8,245)          | (9,449)          | (6,846)        | (6,673)        | (63,332)         | 48.72%         |
| 02-40015 | Water Wholesale Revenue              | 70,000            | 13,653           | 4,419            | 4,247            | 4,402            | 101,521        | 0              | 128,242          | 183.20%        |
| 02-40016 | Service Establishment Fee            | 3,000             | 1,475            | 575              | 25               | 425              | 25             | 425            | 2,950            | 98.33%         |
| 02-41000 | Service Demand Charges               | 3,000,000         | 564,332          | 255,502          | 255,700          | 256,013          | 256,287        | 256,307        | 1,844,141        | 61.47%         |
| 02-41001 | Fire Service Standby Fees            | 25,000            | 5,186            | 2,578            | 2,387            | 2,939            | 3,155          | 3,001          | 19,246           | 76.98%         |
| 02-41003 | Construction Service Charge          | 14,000            | 2,433            | 1,235            | 1,152            | 1,325            | 1,090          | 902            | 8,137            | 58.12%         |
| 02-41005 | Sales Disc-Multi Units Service Chrg. | (120,000)         | (25,302)         | (11,376)         | (11,376)         | (11,376)         | (11,376)       | (11,376)       | (82,184)         | 68.49%         |
| 02-41010 | Unauthorized Use of Water Charge     | 2,000             | 0                | 0                | 0                | 0                | 0              | 0              | 0                | 0.00%          |
| 02-41110 | Meter/Lateral Installation           | 35,000            | 21,050           | 8,625            | 0                | 5,625            | 0              | 6,375          | 41,675           | 119.07%        |
| 02-41112 | Fire Flow Test Fees                  | 3,500             | 900              | 525              | 225              | 450              | 450            | 225            | 2,775            | 79.29%         |
| 02-41113 | Disconnect/Reconnect Fees            | 130,000           | 31,365           | 9,185            | 8,575            | 12,390           | 11,515         | 7,915          | 80,945           | 62.27%         |
| 02-41121 | Penalty - Late Charges               | 150,000           | 32,104           | 10,053           | 12,295           | 8,852            | 10,577         | 8,600          | 82,482           | 54.99%         |
| 02-42123 | Management & Accounting Fees         | 160,000           | 39,994           | 13,334           | 13,334           | 13,334           | 13,334         | 13,334         | 106,664          | 66.67%         |
| 02-41124 | Bad Debt                             | (20,000)          | 0                | 0                | 0                | 0                | 0              | 0              | 0                | 0.00%          |
| 02-43010 | Interest Earned                      | 15,000            | 4,066            | 8,668            | 28               | 0                | 6,588          | 0              | 19,351           | 129.01%        |
| 02-43110 | Property Tax - Unsecured             | 110,000           | 6,630            | 0                | 103,227          | (10,541)         | (2,060)        | 89             | 97,345           | 88.50%         |
| 02-43120 | Property Tax - Secured               | 2,400,000         | 0                | 0                | 168,567          | 983,767          | 98,121         | 62,276         | 1,312,731        | 54.70%         |
| 02-43130 | Tax Collection - Prior               | 15,000            | 0                | 3,330            | 10,922           | (9,280)          | 3,717          | 553            | 9,242            | 61.61%         |
| 02-43140 | Other Taxes                          | 185,000           | (17)             | (9)              | 3,804            | 9,994            | 71,072         | 199            | 85,044           | 45.97%         |
| 02-49150 | Revenue - Misc. Non-Operating        | 80,000            | 19,002           | 3,582            | 5,712            | 9,741            | 22,422         | 3,297          | 63,755           | 79.69%         |
|          | <b>WATER OPERATING REVENUE</b>       | <b>13,412,500</b> | <b>2,000,718</b> | <b>883,359</b>   | <b>998,593</b>   | <b>1,697,769</b> | <b>823,732</b> | <b>578,901</b> | <b>6,983,072</b> | <b>52.06%</b>  |
|          | Grants                               | 0                 | 0                | 41,089           | 0                | 0                | 0              | 0              | 41,089           |                |
| 02-89901 | Facility Capacity Charges            | 0                 | 657,307          | 309,994          | 21,156           | 322,693          | 0              | 229,126        | 1,540,276        |                |
| 02-89902 | Sustainability                       | 0                 | 75,517           | 49,749           | 3,924            | 50,762           | 881            | 14,970         | 195,803          |                |
|          | <b>TOTAL WATER REVENUE</b>           | <b>13,412,500</b> | <b>2,733,543</b> | <b>1,284,191</b> | <b>1,023,673</b> | <b>2,071,224</b> | <b>824,613</b> | <b>822,997</b> | <b>8,760,240</b> |                |

## FY 2016 - Sewer Revenue

| ACCOUNT# | DESCRIPTION                          | BUDGET            | Qtr 1 Totals     | Oct '15          | Nov '15        | Dec '15          | Jan '16        | Feb '16          | Year to Date     | Percentage YTD |
|----------|--------------------------------------|-------------------|------------------|------------------|----------------|------------------|----------------|------------------|------------------|----------------|
| 03-40016 | Sales - Establish Service Fee        | 500               | 0                | 0                | 0              | 0                | 25             | 0                | 25               | 5.00%          |
| 03-41000 | Sales - Sewer Charges                | 11,675,000        | 2,170,394        | 953,641          | 942,143        | 947,505          | 938,575        | 932,687          | 6,884,945        | 58.97%         |
| 03-41005 | Sales Disc-Multi Units Service Chrg. | (200,000)         | (42,030)         | (18,246)         | (18,235)       | (18,252)         | (18,239)       | (18,221)         | (133,222)        | 66.61%         |
| 03-41110 | Meter/Lateral Installation           | 1,000             | 0                | 0                | 0              | 0                | 950            | 0                | 950              | 95.00%         |
| 03-41121 | Penalty - Late Charges               | 150,000           | 30,703           | 9,484            | 11,987         | 9,757            | 11,102         | 12,369           | 85,402           | 56.93%         |
| 03-41124 | Bad Debt                             | (20,000)          | 0                | 0                | 0              | 0                | 0              | 0                | 0                | 0.00%          |
| 03-42122 | Revenue - Other Operating            | 2,000             | 465              | 0                | 0              | 180              | 360            | 180              | 1,185            | 59.25%         |
| 03-43010 | Interest Earned                      | 15,000            | 4,062            | 8,668            | 28             | 0                | 6,713          | 0                | 19,471           | 129.81%        |
| 03-43110 | Property Tax - Unsecured             | 10,000            | 0                | 0                | 0              | 10,000           | 0              | 0                | 10,000           | 100.00%        |
| 03-43120 | Property Tax - Secured               | 125,000           | 0                | 0                | 0              | 125,000          | 0              | 0                | 125,000          | 100.00%        |
| 03-43130 | Tax Collection - Prior               | 10,000            | 0                | 0                | 0              | 10,000           | 0              | 0                | 10,000           | 100.00%        |
| 03-43140 | Other Taxes                          | 1,500             | 0                | 0                | 0              | 1,500            | 0              | 0                | 1,500            | 100.00%        |
| 03-49150 | Misc. Non-Oper Revenue               | 50,000            | 1,875            | 0                | 0              | 0                | 0              | 0                | 1,875            | 3.75%          |
|          |                                      |                   |                  |                  |                |                  |                |                  |                  |                |
|          | <b>SEWER OPERATING REVENUE</b>       | <b>11,820,000</b> | <b>2,165,469</b> | <b>953,547</b>   | <b>935,924</b> | <b>1,085,689</b> | <b>939,487</b> | <b>927,015</b>   | <b>7,007,131</b> | <b>59.28%</b>  |
|          |                                      |                   |                  |                  |                |                  |                |                  |                  |                |
|          | Grants                               | 0                 | 0                | 0                | 0              | 0                | 0              | 0                | 0                | 0              |
| 03-89901 | Facility Capacity Charges            | 0                 | 480,333          | 189,083          | 8,221          | 285,137          | 3,979          | 139,757          | 1,106,510        |                |
| 03-89903 | Contrib Capital-Front Footage Fees   | 0                 | 0                | 0                | 0              | 0                | 12,841         | 0                | 12,841           |                |
| 03-89905 | Contrib Capital-Infrastructure       | 0                 | 0                | 34,500           | 0              | 0                | 0              | 0                | 34,500           |                |
|          |                                      |                   |                  |                  |                |                  |                |                  |                  |                |
|          | <b>TOTAL SEWER REVENUE</b>           | <b>11,820,000</b> | <b>2,645,802</b> | <b>1,177,130</b> | <b>944,145</b> | <b>1,370,826</b> | <b>956,307</b> | <b>1,066,772</b> | <b>8,160,983</b> |                |

## FY 2016 - Recycled Revenue

| ACCOUNT# | DESCRIPTION                  | BUDGET  | Qtr 1 Totals | Oct '15 | Nov '15 | Dec '15 | Jan '16 | Feb '16 | Year to Date | Percentage YTD |
|----------|------------------------------|---------|--------------|---------|---------|---------|---------|---------|--------------|----------------|
| 04-40010 | Sales - Recycled Water       | 450,000 | 108,101      | 41,986  | 26,911  | 23,271  | 4,477   | 5,545   | 210,291      | 46.73%         |
| 04-40011 | Sales - Construction Water   | 10,000  | 1,270        | 472     | 600     | 587     | 373     | 26      | 3,328        | 33.28%         |
| 04-41000 | Sales - Service Demand Chrg. | 42,500  | 7,403        | 3,176   | 3,145   | 3,237   | 3,231   | 3,249   | 23,440       | 55.15%         |
| 04-41003 | Const. Water Minimum Chrg.   | 5,000   | 428          | 221     | 214     | 221     | 214     | 193     | 1,490        | 29.81%         |
| 04-41110 | Meter/Lateral installation   | 1,500   | 0            | 0       | 0       | 325     | 0       | 0       | 325          | 21.67%         |
| 04-41121 | Penalty - Late Charges       | 500     | 254          | 39      | 44      | 7       | 8       | 13      | 365          | 72.95%         |
| 04-41122 | Revenue - Other Operating    | 250     | 0            | 0       | 0       | 0       | 0       | 0       | 0            | 0.00%          |
| 04-43010 | Interest Earned              | 8,000   | 0            | 1,454   | 6       | 0       | 1,492   | 0       | 2,952        | 36.90%         |
| 04-43110 | Property Tax - Unsecured     | 1,000   | 0            | 0       | 0       | 1,000   | 0       | 0       | 1,000        | 100.00%        |
| 04-43120 | Property Tax - Secured       | 15,000  | 0            | 0       | 0       | 15,000  | 0       | 0       | 15,000       | 100.00%        |
| 04-43130 | Property Tax - Prior         | 1,000   | 0            | 0       | 0       | 1,000   | 0       | 0       | 1,000        | 100.00%        |
| 04-43140 | Property Tax - Other         | 1,000   | 0            | 0       | 0       | 1,000   | 0       | 0       | 1,000        | 100.00%        |
| 04-49150 | Misc. Non-Operating Revenue  | 1,500   | 0            | 0       | 0       | 0       | 0       | 0       | 0            | 0.00%          |
|          |                              |         |              |         |         |         |         |         |              |                |
|          | RECYCLED OPERATING REVENUE   | 537,250 | 117,454      | 47,348  | 30,921  | 45,648  | 9,794   | 9,026   | 260,191      | 48.43%         |
|          |                              |         |              |         |         |         |         |         |              |                |
|          | Grants                       | 0       | 0            |         |         |         |         |         | 0            |                |
| 04-89901 | Facility Capacity Charges    | 0       | 5,800        | 0       | 5,800   | 10,634  | 9,667   | 0       | 31,901       |                |
|          |                              |         |              |         |         |         |         |         |              |                |
|          | TOTAL RECYCLED REVENUE       | 537,250 | 123,254      | 47,348  | 36,721  | 56,282  | 19,461  | 9,026   | 292,092      |                |

## FY 2016 - Water Expenses

| ACCOUNT#      | DESCRIPTION                    | BUDGET           | Qtr 1 Totals     | Oct '15        | Nov '15        | Dec '15        | Jan '16        | Feb '16        | Year to Date     | Percentage YTD |
|---------------|--------------------------------|------------------|------------------|----------------|----------------|----------------|----------------|----------------|------------------|----------------|
| 02-5-01-50010 | Labor-Water Resources          | 884,000          | 172,040          | 91,592         | 65,105         | 63,390         | 63,221         | 61,226         | 516,574          | 58.44%         |
| 02-5-01-50011 | Labor Credit                   | 0                | 0                | 0              | 0              | 0              | 0              | 0              | 0                |                |
| 02-5-01-50013 | Benefits-Fica                  | 63,000           | 14,123           | 7,517          | 5,345          | 5,044          | 5,234          | 5,080          | 42,342           | 67.21%         |
| 02-5-01-50014 | Benefits-Life Insurance        | 3,200            | 845              | 278            | 286            | 277            | 297            | 287            | 2,270            | 70.93%         |
| 02-5-01-50016 | Benefits-Health\Defrd Comp     | 145,000          | 43,006           | 15,223         | 14,508         | 14,533         | 14,533         | 14,327         | 116,129          | 80.09%         |
| 02-5-01-50017 | Benefits-Disability Insurance  | 11,000           | 2,521            | 1,166          | 855            | 769            | 899            | 880            | 7,089            | 64.44%         |
| 02-5-01-50019 | Benefits-Workers Compensation  | 42,000           | 7,989            | 781            | 4,084          | 4,084          | 4,013          | 5,646          | 26,598           | 63.33%         |
| 02-5-01-50021 | Benefits-PERS                  | 47,000           | 10,205           | 5,747          | 3,868          | 3,831          | 3,831          | 3,831          | 31,315           | 66.63%         |
| 02-5-01-50022 | Benefits-PERS-Employer         | 100,000          | 10,954           | 6,136          | 4,091          | 4,091          | 4,091          | 4,091          | 33,453           | 33.45%         |
| 02-5-01-50023 | Benefits-Uniforms              | 3,500            | 765              | 402            | 1,516          | 425            | 231            | 215            | 3,554            | 101.55%        |
| 02-5-01-50024 | Benefits-Vacation & Sick Pay   | 7,500            | 1,577            | 892            | 459            | 595            | 821            | 821            | 5,164            | 68.85%         |
| 02-5-01-50025 | Benefits-Boot Allowance        | 2,000            | 594              | 0              | 200            | 0              | 0              | 194            | 988              | 49.42%         |
| 02-5-01-51003 | R&M - Structures               | 275,000          | 26,103           | 24,272         | 13,392         | 39,191         | 7,357          | 3,263          | 113,578          | 41.30%         |
| 02-5-01-51011 | R&M - CLA Valves               | 10,000           | 0                | 0              | 0              | 1,885          | 205            | 305            | 2,395            | 23.95%         |
| 02-5-01-51140 | General Supplies & Expenses    | 2,000            | 234              | 136            | 31             | 55             | 0              | 0              | 455              | 22.75%         |
| 02-5-01-51210 | Utilities - Power Purchases    | 1,650,000        | 425,299          | 115,268        | 44,080         | 84,658         | 105,479        | 66,085         | 840,870          | 50.96%         |
| 02-5-01-51211 | Utilities - Electricity & Fuel | 5,000            | 1,199            | 480            | 419            | 433            | 504            | 408            | 3,442            | 68.84%         |
| 02-5-01-51316 | Imported Water Purchases       | 1,100,000        | 261,701          | 93,414         | 91,779         | 81,897         | 1,786          | 0              | 530,578          | 48.23%         |
| 02-5-01-54019 | Licenses & Permits             | 25,000           | 3,133            | 0              | 1,404          | 1,404          | 708            | 0              | 6,649            | 26.59%         |
| 02-5-01-54110 | Laboratory Services            | 75,000           | 7,873            | 16,798         | 13,234         | 3,030          | 4,999          | 4,192          | 50,125           | 66.83%         |
| 02-5-01-57040 | YVRWFF Operating Expense       | 600,000          | 166,177          | 46,890         | 67,366         | 58,344         | 31,665         | 10,453         | 380,895          | 63.48%         |
|               | <b>WATER RESOURCE TOTALS</b>   | <b>5,050,200</b> | <b>1,156,338</b> | <b>426,991</b> | <b>332,021</b> | <b>367,935</b> | <b>249,874</b> | <b>181,302</b> | <b>2,714,462</b> | <b>53.75%</b>  |
| 02-5-03-50010 | Labor-Public Works             | 1,042,800        | 141,364          | 74,970         | 81,368         | 86,707         | 78,510         | 80,049         | 542,967          | 52.07%         |
| 02-5-03-50011 | Labor Credit                   | 0                | (1,076)          | (2,524)        | (4,114)        | (2,169)        | 0              | (1,623)        | (11,506)         |                |
| 02-5-03-50013 | Benefits-Fica                  | 92,000           | 11,609           | 6,193          | 6,649          | 6,929          | 6,528          | 6,642          | 44,550           | 48.42%         |
| 02-5-03-50014 | Benefits-Life Insurance        | 7,000            | 1,117            | 366            | 367            | 436            | 867            | 596            | 3,750            | 53.57%         |
| 02-5-03-50016 | Benefits-Health\Defrd Comp     | 300,000          | 60,987           | 21,469         | 22,615         | 32,430         | 35,279         | 26,482         | 199,262          | 66.42%         |
| 02-5-03-50017 | Benefits-Disability Insurance  | 16,500           | 2,427            | 1,077          | 1,086          | 1,062          | 1,516          | 1,294          | 8,463            | 51.29%         |
| 02-5-03-50019 | Benefits-Workers Compensation  | 45,000           | 7,989            | 781            | 4,084          | 4,084          | 4,013          | 5,646          | 26,598           | 59.11%         |
| 02-5-03-50021 | Benefits-PERS                  | 73,000           | 10,109           | 5,152          | 3,051          | 3,027          | 3,371          | 3,281          | 27,991           | 38.34%         |
| 02-5-03-50022 | Benefits-PERS-Employer         | 160,000          | 10,344           | 5,352          | 5,374          | 5,750          | 5,341          | 5,243          | 37,404           | 23.38%         |
| 02-5-03-50023 | Benefits-Uniforms              | 6,000            | 808              | 322            | 4,144          | 542            | 441            | 397            | 6,654            | 110.89%        |
| 02-5-03-50024 | Benefits-Vacation & Sick Pay   | 4,000            | 729              | 542            | 420            | 299            | 243            | 243            | 2,476            | 61.89%         |
| 02-5-03-50025 | Benefits-Boot Allowance        | 3,500            | 330              | 1,378          | 949            | 686            | 175            | 0              | 3,519            | 100.54%        |
| 02-5-03-51001 | R & M - Vehicles & Equipment   | 150,000          | 59,574           | 6,192          | 9,657          | 11,898         | 15,935         | 40,551         | 143,807          | 95.87%         |
| 02-5-03-51011 | R&M - Valves                   | 10,000           | 0                | 0              | 0              | 0              | 1,319          | 901            | 2,220            | 22.20%         |
| 02-5-03-51020 | R&M - Pipelines                | 275,000          | 51,027           | 29,012         | 7,743          | 18,152         | 20,996         | 15,943         | 142,873          | 51.95%         |
| 02-5-03-51021 | R&M - Service Lines            | 100,000          | 20,528           | 12,242         | 1,449          | 5,281          | 12,323         | 5,791          | 57,614           | 57.61%         |
| 02-5-03-51022 | R&M - Fire Hydrants            | 25,000           | 1,294            | (2,518)        | 2,401          | 5,086          | 7,686          | 8,690          | 22,639           | 90.56%         |
| 02-5-03-51030 | R&M - Water Meters             | 75,000           | 26,996           | 11,927         | 16,233         | 2,946          | 3,397          | 11,563         | 72,061           | 96.08%         |
| 02-5-03-51092 | Equipment Credits              | 0                | (417)            | (1,071)        | (2,919)        | (1,939)        | 0              | (1,890)        | (8,235)          |                |
| 02-5-03-51140 | General Supplies & Expenses    | 1,000            | 115              | 57             | 390            | 43             | 0              | 53             | 659              | 65.86%         |
|               | <b>PUBLIC WORKS TOTALS</b>     | <b>2,385,800</b> | <b>404,855</b>   | <b>170,918</b> | <b>160,949</b> | <b>181,249</b> | <b>197,942</b> | <b>209,851</b> | <b>1,325,764</b> | <b>55.57%</b>  |



## FY 2016 - Water Expenses

| ACCOUNT#      | DESCRIPTION                          | BUDGET    | Qtr 1 Totals | Oct '15 | Nov '15 | Dec '15 | Jan '16 | Feb '16  | Year to Date | Percentage YTD |
|---------------|--------------------------------------|-----------|--------------|---------|---------|---------|---------|----------|--------------|----------------|
| 02-5-06-50010 | Labor-Administration                 | 705,000   | 131,473      | 72,408  | 48,727  | 39,442  | 47,076  | 47,066   | 386,193      | 54.78%         |
| 02-5-06-50011 | Labor Credit                         | 0         | 2,252        | 0       | 2,925   | 0       | 0       | 0        | 5,177        |                |
| 02-5-06-50012 | Director Fees                        | 19,000    | 3,216        | 2,144   | 1,742   | 492     | 871     | 1,900    | 10,366       | 54.56%         |
| 02-5-06-50013 | Benefits-Fica                        | 47,500    | 10,307       | 5,545   | 3,298   | 2,792   | 4,246   | 4,295    | 30,483       | 64.18%         |
| 02-5-06-50014 | Benefits-Life Insurance              | 3,200     | 662          | 218     | 220     | 255     | 232     | 225      | 1,808        | 56.52%         |
| 02-5-06-50016 | Benefits-Health/Defrd Comp           | 165,000   | 37,111       | 15,288  | 13,548  | 13,451  | 13,571  | 12,795   | 105,764      | 64.10%         |
| 02-5-06-50017 | Benefits-Disability Insurance        | 7,500     | 1,626        | 655     | 357     | 355     | 647     | 638      | 4,307        | 57.43%         |
| 02-5-06-50019 | Benefits-Workers Compensation        | 15,750    | 2,000        | 781     | 1,000   | 1,000   | 1,000   | 2,000    | 7,781        | 49.41%         |
| 02-5-06-50021 | Benefits-PERS                        | 40,286    | 8,944        | 5,006   | 3,337   | 3,337   | 3,337   | 3,337    | 27,299       | 67.76%         |
| 02-5-06-50022 | Benefits PERS Employer               | 85,000    | 9,152        | 5,123   | 3,415   | 3,415   | 3,415   | 3,415    | 27,935       | 32.86%         |
| 02-5-06-50023 | Uniforms                             | 2,000     | 293          | 110     | 408     | 86      | 93      | 87       | 1,077        | 53.86%         |
| 02-5-06-50024 | Benefits-Vacation & Sick Pay         | 10,000    | 3,009        | 1,534   | 888     | 943     | 1,090   | 715      | 8,178        | 81.78%         |
| 02-5-06-50025 | Benefits-Boots                       | 1,000     | 0            | 0       | 0       | 0       | 0       | 0        | 0            | 0.00%          |
| 02-5-06-51003 | R&M - Structures                     | 20,000    | 1,068        | 11,117  | 7,020   | 824     | 13,062  | 2,318    | 35,410       | 177.05%        |
| 02-5-06-51091 | Expense Credits (overhead)           | 0         | (236)        | (1,207) | (1,972) | (494)   | 0       | (918)    | (4,827)      |                |
| 02-5-06-51120 | Safety Equipment/Supplies            | 25,000    | 6,668        | 1,501   | 1,651   | 2,267   | 2,472   | 356      | 14,914       | 59.66%         |
| 02-5-06-51125 | Petroleum Products                   | 125,000   | 23,609       | 5,894   | 6,597   | 7,148   | 5,166   | 2,037    | 50,449       | 40.36%         |
| 02-5-06-51130 | Office Supplies & Expenses           | 30,000    | 7,581        | 883     | 4,584   | 1,372   | 1,775   | 1,912    | 18,107       | 60.36%         |
| 02-5-06-51140 | General Supplies & Expenses          | 30,000    | 2,241        | 7,291   | 2,378   | 2,434   | 5,927   | 1,537    | 21,809       | 72.70%         |
| 02-5-06-51199 | Disaster Incidences                  | 0         | 0            | 0       | 0       | 0       | 0       | 0        | 0            |                |
| 02-5-06-51211 | Utilities - Electricity              | 28,000    | 9,190        | 2,742   | 1,962   | 1,858   | 1,899   | 1,669    | 19,310       | 68.96%         |
| 02-5-06-51213 | Utilities - Natural Gas              | 3,000     | 83           | 28      | 148     | 455     | 455     | 0        | 1,169        | 38.95%         |
| 02-5-06-54002 | Dues & Subscriptions                 | 10,000    | 1,346        | 3,045   | 4,500   | 2,704   | 3,080   | 492      | 15,166       | 151.66%        |
| 02-5-06-54005 | Computer Expenses                    | 65,000    | 16,704       | 14,879  | 1,860   | 14,293  | 1,439   | 300      | 49,475       | 76.11%         |
| 02-5-06-54010 | Postage                              | 6,000     | 1,769        | (493)   | 2,023   | 24      | 161     | 1,553    | 5,036        | 83.94%         |
| 02-5-06-54011 | Printing & Publications              | 7,500     | 446          | 0       | 0       | 0       | 0       | 0        | 446          | 5.95%          |
| 02-5-06-54012 | Education & Training                 | 15,000    | 1,754        | 158     | 158     | 272     | 2,530   | 284      | 5,156        | 34.37%         |
| 02-5-06-54013 | Utility Billing Expenses             | 180,000   | 35,943       | 11,972  | 12,097  | 10,198  | 13,509  | 6,771    | 90,491       | 50.27%         |
| 02-5-06-54014 | Public Relations                     | 9,000     | 467          | 853     | 0       | 236     | 249     | 0        | 1,807        | 20.07%         |
| 02-5-06-54016 | Travel Related Expenses              | 10,000    | 411          | 500     | 42      | 42      | 494     | 561      | 2,048        | 20.48%         |
| 02-5-06-54017 | Certifications & Renewals            | 6,000     | 730          | 215     | 1,780   | 212     | 470     | 445      | 3,852        | 64.19%         |
| 02-5-06-54020 | Meeting Related Expenses             | 6,000     | 667          | 600     | 60      | 1,076   | 435     | 188      | 3,027        | 50.44%         |
| 02-5-06-54024 | Utilities - Waste Disposal           | 2,750     | 530          | 177     | 241     | 177     | 177     | 145      | 1,446        | 52.58%         |
| 02-5-06-54025 | Utilities - Telephone                | 42,000    | 10,117       | 3,503   | 3,362   | 3,396   | 3,406   | 0        | 23,784       | 56.63%         |
| 02-5-06-54099 | Conservation & Rebates               | 0         | 32,162       | 7,270   | 38,628  | 42,083  | 177,346 | (24,186) | 273,302      |                |
| 02-5-06-54104 | Contractual Services                 | 65,000    | 27,284       | 10,652  | 4,645   | 15,995  | 12,749  | 3,493    | 74,817       | 115.10%        |
| 02-5-06-54107 | Legal                                | 45,000    | 8,523        | 1,838   | 3,959   | 1,853   | 1,575   | 0        | 17,747       | 39.44%         |
| 02-5-06-54108 | Audit & Accounting                   | 16,000    | 8,775        | 1,710   | 0       | 0       | 0       | 0        | 10,485       | 65.53%         |
| 02-5-06-54109 | Professional Fees                    | 150,000   | 38,660       | 7,789   | 13,020  | 6,775   | 7,161   | 14,500   | 87,904       | 58.60%         |
| 02-5-06-55500 | Depreciation Reserves                | 200,000   | 49,997       | 16,667  | 16,667  | 16,667  | 16,667  | 16,667   | 133,332      | 66.67%         |
| 02-5-06-56001 | Infrastructure Replacement Insurance | 1,265,000 | 316,249      | 105,416 | 105,416 | 105,416 | 105,416 | 105,416  | 843,329      | 66.67%         |
| 02-5-06-57030 | Regulatory Compliance                | 105,000   | 24,981       | 8,328   | 8,328   | 8,328   | 8,328   | 8,328    | 66,621       | 63.45%         |
| 02-5-06-57090 | Election Related Expenses            | 55,000    | 2,561        | 263     | 535     | 275     | 700     | 600      | 4,934        | 8.97%          |
| 02-5-06-57096 | Beaumont Basin Watermaster           | 0         | 0            | 0       | 0       | 0       | 0       | 0        | 0            |                |
| 02-5-06-57199 | Suspense                             | 60,000    | 0            | 25,451  | 0       | 0       | 0       | 20,170   | 45,621       | 76.03%         |
|               | ADMINISTRATION TOTALS                | 3,682,486 | 840,324      | 357,847 | 319,584 | 298,700 | 474,970 | 241,110  | 2,532,535    | 68.77%         |

## FY 2016 - Water Expenses

| ACCOUNT#      | DESCRIPTION                         | BUDGET            | Qtr 1 Totals     | Oct '15        | Nov '15        | Dec '15        | Jan '16        | Feb '16          | Year to Date     | Percentage YTD |
|---------------|-------------------------------------|-------------------|------------------|----------------|----------------|----------------|----------------|------------------|------------------|----------------|
|               |                                     |                   |                  |                |                |                |                |                  |                  |                |
| 02-5-40-57201 | Debt Srv-Series 2015A Princ.(25009) | 980,000           | 980,000          | 0              | 0              | 0              | 0              | 0                | 980,000          | 100.00%        |
| 02-5-40-57402 | Interest-Long-Term Debt Bonds       | 1,314,014         | 673,457          | 0              | 0              | 0              | 0              | 640,556          | 1,314,014        | 100.00%        |
|               | <b>40 - Debt</b>                    | <b>2,294,014</b>  | <b>1,653,457</b> | <b>0</b>       | <b>0</b>       | <b>0</b>       | <b>0</b>       | <b>640,556</b>   | <b>2,294,014</b> | <b>100.00%</b> |
|               |                                     |                   |                  |                |                |                |                |                  |                  |                |
| 02-5-40-57001 | Asset Acq. - Water Resources        | 0                 | 0                | 0              | 0              | 0              | 0              | 0                | 0                | --             |
| 02-5-40-57003 | Asset Acq. - Public works           | 0                 | 0                | 0              | 0              | 0              | 0              | 0                | 0                | --             |
| 02-5-40-57006 | Asset Acq. - Administration         | 0                 | 0                | 0              | 0              | 0              | 0              | 0                | 0                | --             |
|               | <b>40 - Capital Outlay</b>          | <b>0</b>          | <b>0</b>         | <b>0</b>       | <b>0</b>       | <b>0</b>       | <b>0</b>       | <b>0</b>         | <b>0</b>         | <b>--</b>      |
|               |                                     |                   |                  |                |                |                |                |                  |                  |                |
|               |                                     |                   | 4,054,974        |                |                |                |                |                  | 8,866,774        |                |
|               | <b>TOTAL WATER EXPENSES</b>         | <b>13,412,500</b> | <b>4,054,974</b> | <b>955,756</b> | <b>812,555</b> | <b>847,884</b> | <b>922,787</b> | <b>1,272,819</b> | <b>8,866,774</b> | <b>66.11%</b>  |



## FY 2016 - Sewer Expenses

| ACCOUNT#      | DESCRIPTION                   | BUDGET           | Qtr 1 Totals   | Oct '15        | Nov '15        | Dec '15        | Jan '16        | Feb '16        | Year to Date     | Percentage YTD |
|---------------|-------------------------------|------------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------|----------------|
| 03-5-02-50010 | Labor-S Treatment             | 985,300          | 158,574        | 91,656         | 65,988         | 60,926         | 66,092         | 60,831         | 504,066          | 51.16%         |
| 03-5-02-50013 | Benefits-Fica                 | 75,000           | 12,943         | 7,482          | 5,385          | 4,990          | 5,394          | 4,988          | 41,182           | 54.91%         |
| 03-5-02-50014 | Benefits-Life Insurance       | 5,000            | 942            | 302            | 310            | 309            | 313            | 310            | 2,486            | 49.72%         |
| 03-5-02-50016 | Benefits-Health\Defrd Comp    | 200,000          | 47,536         | 17,176         | 9,701          | 15,010         | 15,010         | 14,722         | 119,154          | 59.58%         |
| 03-5-02-50017 | Benefits-Disability Insurance | 15,000           | 2,472          | 1,189          | 864            | 731            | 949            | 897            | 7,102            | 47.35%         |
| 03-5-02-50019 | Benefits-Workers Compensation | 45,000           | 7,989          | 781            | 4,084          | 4,084          | 4,013          | 5,646          | 26,598           | 59.11%         |
| 03-5-02-50021 | Benefits-PERS                 | 60,000           | 10,655         | 5,903          | 3,954          | 3,954          | 3,935          | 3,749          | 32,149           | 53.58%         |
| 03-5-02-50022 | Benefits-PERS Employer        | 130,000          | 11,483         | 6,295          | 4,197          | 4,197          | 4,197          | 4,197          | 34,565           | 26.59%         |
| 03-5-02-50023 | Benefits-Uniforms             | 4,500            | 968            | 325            | 1,753          | 353            | 261            | 226            | 3,887            | 86.37%         |
| 03-5-02-50024 | Benefits-Vacation & Sick Pay  | 5,000            | 897            | 484            | 323            | 323            | 323            | 323            | 2,671            | 53.43%         |
| 03-5-02-50025 | Benefits-Boot Allowance       | 2,400            | 714            | 200            | 0              | 524            | 0              | 0              | 1,437            | 59.89%         |
| 03-5-02-51003 | R&M - Structures              | 225,000          | 137,313        | 40,879         | 56,021         | 45,509         | 17,088         | 1,948          | 298,740          | 132.77%        |
| 03-5-02-51010 | R&M - Automation Control      | 65,000           | 3,298          | 5,361          | 5,177          | 390            | 5,320          | 9,115          | 28,661           | 44.09%         |
| 03-5-02-51106 | Chemicals                     | 490,000          | 81,393         | 21,102         | 26,864         | 27,615         | 34,905         | 19,966         | 211,845          | 43.23%         |
| 03-5-02-51111 | Propane                       | 5,000            | 2,357          | 0              | 3,940          | 16,127         | 0              | 2,020          | 24,443           | 488.87%        |
| 03-5-02-51115 | Laboratory Supplies           | 30,000           | 8,856          | 939            | 277            | 4,236          | 2,051          | 915            | 17,274           | 57.58%         |
| 03-5-02-51140 | General Supplies & Expenses   | 1,000            | 88             | 31             | 321            | 0              | 0              | 65             | 504              | 50.41%         |
| 03-5-02-51210 | Utilities - Power Purchases   | 830,000          | 266,263        | 79,486         | 56,816         | 57,501         | 66,105         | 59,372         | 585,543          | 70.55%         |
| 03-5-02-54110 | Laboratory Services           | 115,000          | 13,357         | 4,277          | 9,086          | 13,057         | 10,496         | 9,631          | 59,905           | 52.09%         |
| 03-5-02-57031 | Sludge Disposal               | 300,000          | 68,598         | 21,823         | 23,579         | 24,148         | 25,487         | 0              | 163,634          | 54.54%         |
| 03-5-02-57034 | Brine Operating Expenses      | 201,616          | 133            | 1,202          | 27,852         | 786            | 128            | 27,571         | 57,673           | 28.61%         |
|               | <b>TREATMENT TOTALS</b>       | <b>3,789,816</b> | <b>836,828</b> | <b>306,894</b> | <b>306,492</b> | <b>284,767</b> | <b>262,045</b> | <b>226,491</b> | <b>2,223,517</b> | <b>58.67%</b>  |

## FY 2016 Sewer Expenses

| ACCOUNT#      | DESCRIPTION                       | BUDGET    | Qtr 1 Totals | Oct '15 | Nov '15 | Dec '15 | Jan '16 | Feb '16 | Year to Date | Percentage YTD |
|---------------|-----------------------------------|-----------|--------------|---------|---------|---------|---------|---------|--------------|----------------|
| 03-5-06-50010 | Labor-Administration              | 660,000   | 121,015      | 67,179  | 45,241  | 35,520  | 43,591  | 43,580  | 356,127      | 53.96%         |
| 03-5-06-50011 | Labor Credit                      | 0         | 2,252        | 0       | 2,925   | 0       | 0       | 0       | 5,177        |                |
| 03-5-06-50012 | Directors Fees                    | 19,000    | 3,216        | 2,144   | 1,742   | 492     | 871     | 1,900   | 10,366       | 54.56%         |
| 03-5-06-50013 | Benefits-Fica                     | 43,000    | 9,417        | 5,101   | 3,004   | 2,643   | 3,949   | 3,998   | 28,111       | 65.38%         |
| 03-5-06-50014 | Benefits-Life Insurance           | 3,600     | 650          | 211     | 217     | 182     | 222     | 214     | 1,695        | 47.08%         |
| 03-5-06-50016 | Benefits-Health\Defrd Comp        | 145,000   | 33,900       | 14,049  | 12,495  | 12,398  | 12,119  | 11,602  | 96,564       | 66.60%         |
| 03-5-06-50017 | Benefits-Disability Insurance     | 7,500     | 1,504        | 608     | 387     | 355     | 611     | 603     | 4,069        | 54.25%         |
| 03-5-06-50019 | Benefits-Workers Compensation     | 27,500    | 2,000        | 781     | 1,000   | 1,000   | 1,000   | 2,000   | 7,781        | 28.30%         |
| 03-5-06-50021 | Benefits-PERS                     | 36,000    | 8,290        | 4,640   | 3,093   | 3,093   | 3,093   | 3,093   | 25,302       | 70.28%         |
| 03-5-06-50022 | Benefits PERS Employer            | 75,000    | 8,483        | 4,748   | 3,165   | 3,165   | 3,165   | 3,165   | 25,892       | 34.52%         |
| 03-5-06-50023 | Benefits-Uniforms                 | 2,000     | 205          | 84      | 246     | 113     | 70      | 61      | 778          | 38.90%         |
| 03-5-06-50024 | Benefits-Vacation & Sick Pay      | 10,000    | 3,009        | 1,534   | 888     | 943     | 1,090   | 715     | 8,179        | 81.79%         |
| 03-5-06-50025 | Benefits-Boot Allowance           | 1,740     | 0            | 0       | 0       | 0       | 0       | 0       | 0            | 0.00%          |
| 03-5-06-51120 | Safety Equipment/Supplies         | 10,000    | 1,706        | 0       | 1,197   | 1,060   | 2,959   | 0       | 6,922        | 69.22%         |
| 03-5-06-51125 | Petroleum Products                | 22,500    | 4,621        | 1,000   | 1,000   | 1,000   | 1,268   | 3,413   | 12,301       | 54.67%         |
| 03-5-06-51130 | Office Supplies                   | 4,000     | 2,282        | 211     | 338     | 329     | 19      | 29      | 3,209        | 80.22%         |
| 03-5-06-51140 | General Supplies & Expenses       | 17,500    | 851          | 6,387   | 1,450   | 1,262   | 5,780   | 56      | 15,786       | 90.21%         |
| 03-5-06-51199 | Disaster Repairs (lift station 2) | 0         | 33,643       | 0       | 3,307   | 0       | 0       | 0       | 36,949       |                |
| 03-5-06-54002 | Dues & Subscriptions              | 10,000    | 1,240        | 3,045   | 656     | 1,115   | 3,544   | 164     | 9,763        | 97.63%         |
| 03-5-06-54003 | Management & Admin Services       | 160,000   | 39,994       | 13,334  | 13,334  | 13,334  | 13,334  | 13,334  | 106,664      | 66.67%         |
| 03-5-06-54005 | Computer Expenses                 | 95,000    | 20,363       | 15,120  | 1,460   | 13,698  | 2,442   | 600     | 53,684       | 56.51%         |
| 03-5-06-54011 | Printing & Publications           | 1,500     | 413          | 81      | 0       | 0       | 0       | 0       | 494          | 32.93%         |
| 03-5-06-54012 | Education & Training              | 7,000     | 917          | 158     | 158     | 158     | 2,508   | 232     | 4,129        | 58.99%         |
| 03-5-06-54014 | Public Relations                  | 7,500     | 467          | 825     | 0       | 0       | 0       | 0       | 1,293        | 17.24%         |
| 03-5-06-54016 | Travel Related Expenses           | 5,000     | 1,217        | 816     | 42      | 42      | 494     | 622     | 3,231        | 64.62%         |
| 03-5-06-54017 | Certifications & Renewals         | 5,000     | 406          | 340     | 1,658   | 480     | 496     | 321     | 3,701        | 74.02%         |
| 03-5-06-54019 | Licenses & Permits                | 50,000    | 10,929       | 0       | 40,242  | 3,776   | 0       | 1,315   | 56,262       | 112.52%        |
| 03-5-06-54020 | Meeting Related Expenses          | 5,000     | 538          | 605     | 30      | 953     | 59      | 124     | 2,310        | 46.19%         |
| 03-5-06-54024 | Utilities - Waste Disposal        | 12,500    | 3,161        | 1,054   | 1,054   | 1,054   | 1,054   | 144     | 7,520        | 60.16%         |
| 03-5-06-54025 | Utilities - Telephone             | 20,000    | 4,032        | 1,489   | 1,389   | 1,417   | 1,432   | 0       | 9,758        | 48.79%         |
| 03-5-06-54030 | Drinking Water                    | 1,000     | 297          | 58      | 51      | 102     | 65      | 58      | 631          | 63.08%         |
| 03-5-06-54104 | Contractual Services              | 30,000    | 16,251       | 4,791   | 993     | 13,710  | 7,126   | 2,224   | 45,095       | 150.32%        |
| 03-5-06-54107 | Legal                             | 45,000    | 3,760        | 1,275   | 1,784   | 2,266   | 3,300   | 0       | 12,385       | 27.52%         |
| 03-5-06-54108 | Audit & Accounting                | 16,000    | 8,775        | 1,710   | 0       | 0       | 0       | 0       | 10,485       | 65.53%         |
| 03-5-06-54109 | Professional Fees                 | 150,000   | 50,662       | 31,912  | 23,639  | 18,300  | 8,867   | 2,500   | 135,879      | 90.59%         |
| 03-5-06-55500 | Depreciation Reserves             | 500,000   | 124,997      | 41,667  | 41,667  | 41,667  | 41,667  | 41,667  | 333,332      | 66.67%         |
|               | Infrastructure Replacement        | 800,000   | 200,007      | 66,670  | 66,670  | 66,670  | 66,670  | 66,670  | 533,357      | 66.67%         |
| 03-5-06-56001 | Insurance                         | 105,000   | 24,981       | 8,328   | 8,328   | 8,916   | 8,328   | 8,328   | 67,210       | 64.01%         |
| 03-5-06-57030 | Regulatory Compliance             | 42,000    | 1,790        | 0       | 0       | 0       | 0       | 0       | 1,790        | 4.26%          |
|               | ADMINISTRATION TOTALS             | 3,151,840 | 752,240      | 301,955 | 284,848 | 251,213 | 241,195 | 212,731 | 2,044,181    | 64.86%         |

## FY 2016 - Sewer Expenses

| ACCOUNT#      | DESCRIPTION  | BUDGET     | Qtr 1 Totals | Oct '15 | Nov '15 | Dec '15   | Jan '16 | Feb '16 | Year to Date | Percentage YTD |
|---------------|--|------------|--------------|---------|---------|-----------|---------|---------|--------------|----------------|
| 03-5-07-50010 | Labor-Environmental Control                        | 310,000    | 82,457       | 43,991  | 31,864  | 30,771    | 37,119  | 36,410  | 262,612      | 84.71%         |
| 03-5-07-50011 | Labor Credit                                       | 0          | (310)        | 0       | (916)   | 0         | 0       | 0       | (1,225)      |                |
| 03-5-07-50013 | Benefits-Fica                                      | 28,000     | 6,482        | 3,498   | 2,503   | 2,415     | 2,889   | 2,834   | 20,622       | 73.65%         |
| 03-5-07-50014 | Benefits-Life Insurance                            | 2,000      | 426          | 139     | 142     | 142       | 297     | 203     | 1,349        | 67.43%         |
| 03-5-07-50016 | Benefits-HealthDefrd Comp                          | 75,000     | 26,352       | 9,851   | 8,978   | 8,379     | 12,449  | 12,733  | 79,341       | 105.79%        |
| 03-5-07-50017 | Benefits-Disability Insurance                      | 4,500      | 1,175        | 561     | 437     | 379       | 613     | 513     | 3,679        | 81.75%         |
| 03-5-07-50019 | Benefits-Workers Compensation                      | 30,000     | 2,394        | 781     | 1,286   | 1,286     | 1,500   | 4,332   | 11,580       | 38.60%         |
| 03-5-07-50021 | Benefits-PERS                                      | 20,000     | 4,823        | 2,749   | 1,832   | 1,832     | 1,495   | 1,823   | 14,555       | 72.77%         |
| 03-5-07-50022 | Benefits-PERS Employer                             | 45,000     | 4,935        | 2,813   | 1,875   | 1,875     | 2,284   | 2,279   | 16,062       | 35.69%         |
| 03-5-07-50023 | Benefits-Uniforms                                  | 2,000      | 320          | 105     | 1,386   | 190       | 132     | 128     | 2,261        | 113.06%        |
| 03-5-07-50024 | Benefits-Vacation & Sick Pay                       | 2,000      | 453          | 253     | 169     | 169       | 365     | 365     | 1,784        | 89.18%         |
| 03-5-07-50025 | Benefits-Boot Allowance                            | 800        | 157          | 0       | 199     | 0         | 0       | 0       | 356          | 44.52%         |
| 03-5-07-51003 | R&M - Structures                                   | 270,000    | 31,041       | 20,728  | 8,153   | 13,897    | 13,816  | 7,114   | 94,749       | 35.09%         |
| 03-5-07-51140 | General Supplies & Expenses                        | 1,000      | 34           | 172     | 147     | 6         | 497     | 0       | 857          | 85.67%         |
| 03-5-07-51241 | Lift Station #1                                    | 85,000     | 17,711       | 6,839   | 5,517   | 3,309     | 3,299   | 3,249   | 39,924       | 46.97%         |
| 03-5-07-51242 | Lift Station #2                                    | 15,000     | 4,874        | 2,826   | 1,770   | 749       | 1,076   | 985     | 12,281       | 81.87%         |
| 03-5-07-51243 | Lift Station #3                                    | 5,000      | 780          | 1,154   | 214     | 210       | 221     | 183     | 2,760        | 55.21%         |
| 03-5-07-51244 | Lift Station #4                                    | 20,000     | 7,700        | 4,046   | 468     | 10,493    | 4,386   | 590     | 27,684       | 138.42%        |
| 03-5-07-51248 | Lift Station #8                                    | 3,000      | 145          | 58      | 49      | 48        | 52      | 45      | 395          | 13.18%         |
| 03-5-07-54109 | Professional Fees                                  | 60,000     | 6,662        | 3,287   | 7,038   | 2,795     | 2,871   | 2,048   | 24,700       | 41.17%         |
| 03-5-07-54110 | Laboratory Services                                | 4,000      | 0            | 0       | 1,185   | 438       | 0       | 0       | 1,623        | 40.58%         |
|               | ENVIRONMENTAL CONTROL TOTAL                        | 982,300    | 198,623      | 103,851 | 74,297  | 79,981    | 85,360  | 75,834  | 617,947      | 62.91%         |
| 03-5-40-57202 | Debt Service - Principal - WRWRF                   | 2,097,629  | 2,097,629    | 0       | 0       | 0         | 0       | 0       | 2,097,629    | 100.00%        |
| 03-5-40-57203 | Debt Service - Principal - Brineline               | 401,939    | 0            | 0       | 0       | 401,939   | 0       | 0       | 401,939      | 100.00%        |
| 03-5-40-57204 | Debt Service - Principal - WISE                    | 125,600    | 0            | 0       | 0       | 0         | 0       | 0       | 0            | 0.00%          |
| 03-5-40-57205 | Debt Service - Principal - R 10.3                  | 36,663     | 0            | 0       | 0       | 0         | 0       | 0       | 0            | 0.00%          |
| 03-5-40-57206 | Debt Service - Principal - Grow & B12-1            | 18,357     | 0            | 0       | 0       | 0         | 0       | 0       | 0            | 0.00%          |
| 03-5-40-57403 | Debt Service - Interest                            | 1,215,856  | 826,039      | 0       | 0       | 247,335   | 0       | 0       | 1,073,374    | 88.28%         |
|               | 40 - Debt  | 3,896,044  | 2,923,669    | 0       | 0       | 649,274   | 0       | 0       | 3,572,942    | 91.71%         |
| 03-5-40-57002 | Asset Acq. - Treatment                             | 0          | 0            | 0       | 0       | 0         | 0       | 0       | 0            |                |
| 03-5-40-57006 | Asset Acq. - Administration                        | 0          | 0            | 0       | 0       | 0         | 0       | 0       | 0            |                |
| 03-5-40-57007 | Asset Acq. - EC (ADS flow monitors & smart covers) | 0          | 0            | 0       | 0       | 66,409    | 0       | 0       | 66,409       |                |
|               | 40 - Capital Outlay                                | 0          | 0            | 0       | 0       | 66,409    | 0       | 0       | 66,409       |                |
|               | TOTAL SEWER EXPENSES                               | 11,820,000 | 4,711,360    | 712,700 | 665,637 | 1,331,644 | 588,600 | 515,055 | 8,524,997    | 72.12%         |

## FY 2016 - Recycled Expenses

| ACCOUNT#      | DESCRIPTION                   | BUDGET  | Qtr 1 Totals | Oct '15 | Nov '15 | Dec '15 | Jan '16 | Feb '16 | Year to Date | Percentage YTD |
|---------------|-------------------------------|---------|--------------|---------|---------|---------|---------|---------|--------------|----------------|
| 04-5-06-50010 | Labor-Recycled Water          | 226,630 | 45,474       | 21,977  | 15,398  | 15,948  | 13,862  | 15,883  | 128,541      | 56.72%         |
| 04-5-06-50012 | Director Fees                 | 2,500   | 0            | 0       | 0       | 2,500   | 0       | 0       | 2,500        | 100.00%        |
| 04-5-06-50013 | Benefits-FICA                 | 5,000   | 3,609        | 1,695   | 1,128   | 942     | 1,169   | 1,337   | 9,880        | 197.61%        |
| 04-5-06-50014 | Benefits-Life Insurance       | 250     | (6)          | (4)     | (2)     | (2)     | (2)     | (2)     | (17)         | -6.96%         |
| 04-5-06-50016 | Benefits-Health & Def Comp    | 15,000  | 6,356        | 2,563   | 2,136   | 2,136   | 2,105   | 2,263   | 17,559       | 117.06%        |
| 04-5-06-50017 | Benefits-Disability Insurance | 500     | 409          | 179     | 81      | 64      | 138     | 157     | 1,028        | 205.59%        |
| 04-5-06-50019 | Benefits-Workers Compensation | 3,000   | 394          | 781     | 197     | 197     | 197     | 500     | 2,266        | 75.52%         |
| 04-5-06-50021 | Benefits-PERS Employee        | 2,200   | 327          | 183     | 122     | 122     | 122     | 56      | 932          | 42.36%         |
| 04-5-06-50022 | Benefits-PERS Employer        | 5,000   | 335          | 187     | 125     | 125     | 125     | 228     | 1,124        | 22.49%         |
| 04-5-06-50023 | Benefits-Uniforms             | 200     | 178          | 75      | 775     | 75      | 62      | 58      | 1,222        | 611.07%        |
| 04-5-06-50024 | Benefits-Vacation & Sick Pay  | 500     | 81           | 60      | 47      | 33      | 84      | 84      | 388          | 77.67%         |
| 04-5-06-50025 | Benefits-Boots                | 250     | 0            | 0       | 0       | 0       | 0       | 0       | 0            | 0.00%          |
| 04-5-06-51003 | R & M-Structures              | 50,000  | 3,377        | 396     | 0       | 15,796  | 0       | 87      | 19,656       | 39.31%         |
| 04-5-06-51020 | R & M-Pipelines               | 7,500   | 0            | 0       | 335     | 1,506   | 1,087   | 24      | 2,951        | 39.35%         |
| 04-5-06-51021 | R & M-Service Lines           | 15,000  | 701          | 147     | 3       | 348     | 0       | 0       | 1,199        | 7.99%          |
| 04-5-06-51022 | R & M-Fire Hydrants           | 5,000   | 0            | 0       | 0       | 0       | 0       | 0       | 0            | 0.00%          |
| 04-5-06-51030 | R & M-Meters                  | 1,500   | 5,701        | 12,010  | 2,084   | 4,824   | 924     | 68      | 25,611       | 1707.40%       |
| 04-5-06-51140 | General Supplies & Expenses   | 250     | 58           | 0       | 262     | 235     | 1,275   | 0       | 1,829        | 731.60%        |
| 04-5-06-51210 | Utilities-Power Purchases     | 77,720  | 586          | 288     | 288     | 288     | 288     | 268     | 2,007        | 2.58%          |
| 04-5-06-54002 | Dues & Subscriptions          | 4,000   | 40           | 0       | 0       | 412     | 3,104   | 0       | 3,556        | 88.90%         |
| 04-5-06-54005 | Computer Expense              | 5,000   | 355          | 3,084   | 0       | 2,781   | 0       | 0       | 6,220        | 124.39%        |
| 04-5-06-54011 | Printing & Publications       | 1,000   | 122          | 0       | 0       | 0       | 0       | 0       | 122          | 12.25%         |
| 04-5-06-54012 | Education & Training          | 3,500   | 185          | 35      | 1,225   | 35      | 465     | 12      | 1,957        | 55.91%         |
| 04-5-06-54014 | Public Relations              | 3,500   | 104          | 724     | 0       | 46      | 0       | 0       | 873          | 24.95%         |
| 04-5-06-54016 | Travel Related Expenses       | 2,000   | 0            | 250     | 1,664   | 0       | 110     | 1,524   | 3,548        | 177.42%        |
| 04-5-06-54017 | Certifications & Renewals     | 250     | 0            | 0       | 0       | 0       | 0       | 800     | 800          | 320.00%        |
| 04-5-06-54019 | Licenses & Permits            | 2,500   | 0            | 8,185   | 23,378  | 0       | 0       | 0       | 31,564       | 1262.55%       |
| 04-5-06-54020 | Meeting Related Expenses      | 250     | 30           | 0       | 0       | 184     | 0       | 63      | 277          | 110.98%        |
| 04-5-06-54025 | Telephone                     | 750     | 419          | 140     | 140     | 140     | 140     | 0       | 978          | 130.40%        |
| 04-5-06-54010 | Contractual Services          | 1,500   | 2,718        | 19      | 14      | 18      | 824     | 0       | 3,594        | 239.59%        |
| 04-5-06-54107 | Legal                         | 1,000   | 788          | 563     | 750     | 1,200   | 188     | 0       | 3,488        | 348.75%        |
| 04-5-06-54108 | Audit & Accounting            | 0       | 1,950        | 380     | 0       | 0       | 0       | 0       | 2,330        |                |
| 04-5-06-54109 | Professional Fees             | 25,000  | 32,090       | 4,606   | 15,427  | 32,051  | 9,403   | 0       | 93,576       | 374.30%        |
| 04-5-06-54110 | Laboratory Services           | 1,000   | 0            | 0       | 0       | 0       | 0       | 0       | 0            | 0.00%          |
| 04-5-06-55500 | Depreciation                  | 8,000   | 1,970        | 670     | 670     | 670     | 670     | 670     | 5,320        | 66.50%         |
|               | Infrastructure Replacement    | 25,000  | 6,249        | 2,083   | 2,083   | 2,083   | 2,083   | 0       | 14,581       | 58.33%         |
| 04-5-06-57030 | Regulatory Compliance         | 25,000  | 27           | 154     | 4,735   | 557     | 0       | 136     | 5,608        | 22.43%         |
| 04-5-06-57040 | Environmental Compliance      | 10,000  | 0            | 0       | 0       | 0       | 0       | 0       | 0            | 0.00%          |
|               | TOTAL RECYCLED EXPENSES       | 537,250 | 114,624      | 61,432  | 73,064  | 85,313  | 38,421  | 24,215  | 397,069      | 73.91%         |





## Director Memorandum 16-033

**Date:** March 16, 2016

**Prepared By:** Brent Anton, Engineering Manager

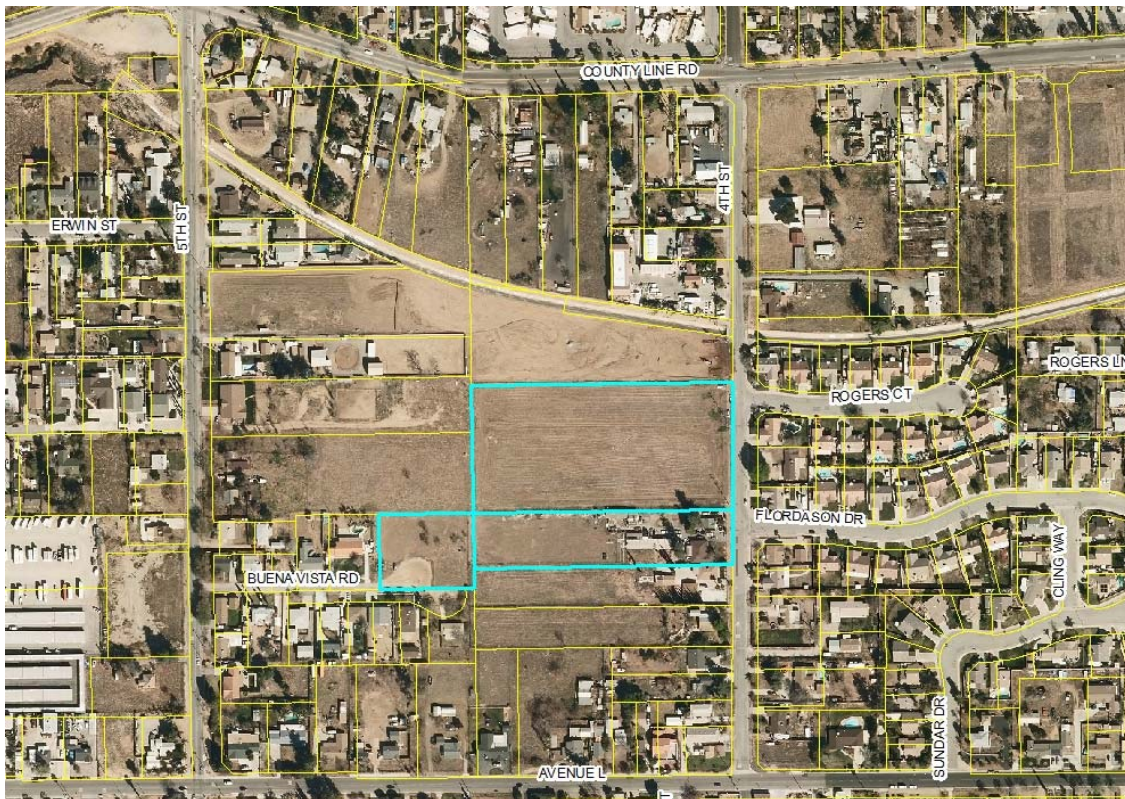
**Subject:** Consideration of Development Agreement No. 2016-03 to Provide Sewer Facilities and Service to the Private Development of Tract Map 36818, MBTK Homes, LLC (Assessor's Parcel Numbers 411-150-012, 411-160-006 and 411-160-032)

**Recommendation:** That the Board of Directors approve Development Agreement No. 2016-03 as presented.

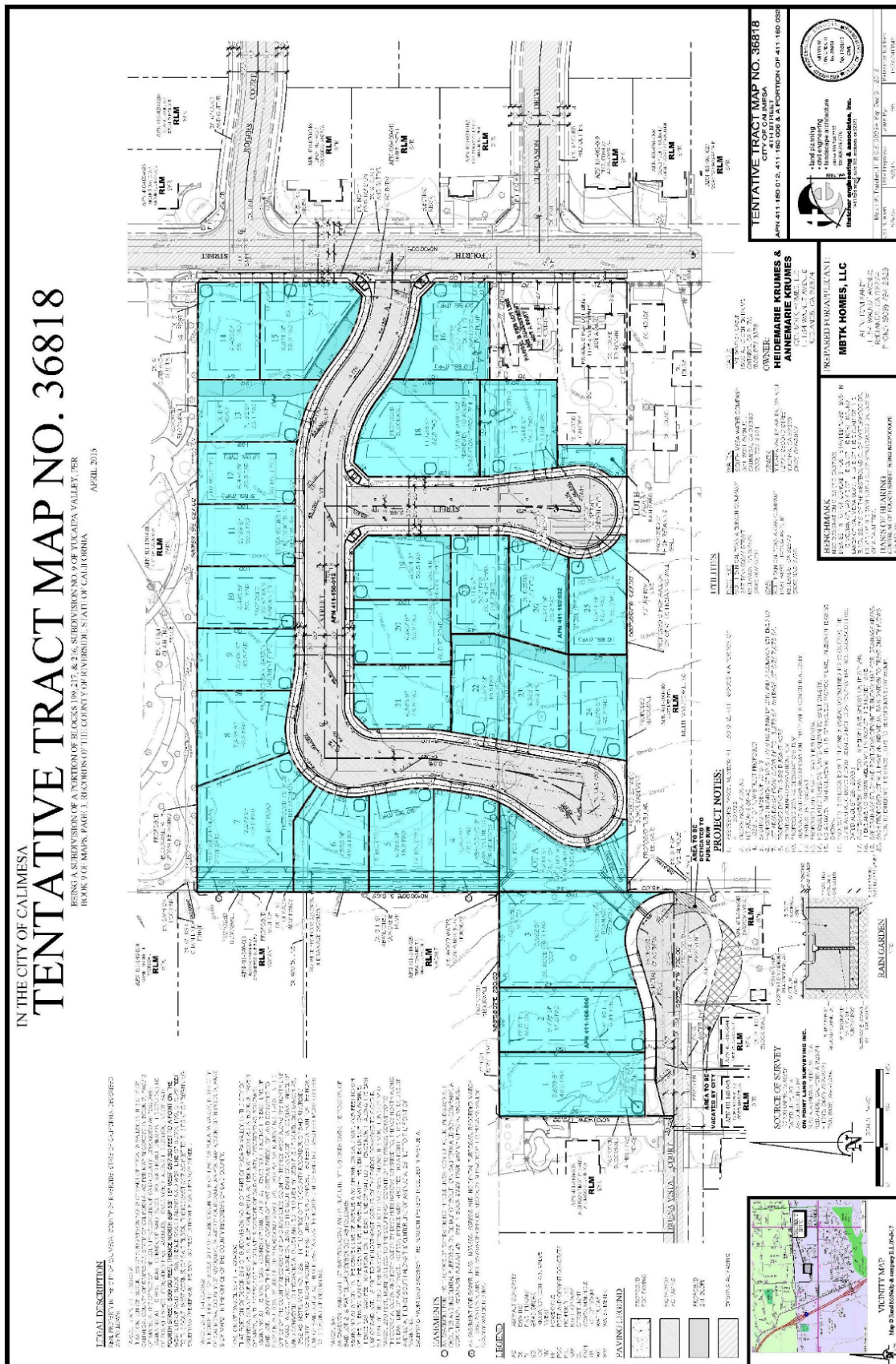
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Tract Map No. 36818 is a proposed sewer only development consisting of 27 single family residential units on approximately 7.33 acres. The project is located on the west side of 4<sup>th</sup> Street between Flordason Drive and Rogers Court, north of Avenue L in the City of Calimesa.

The District staff has been working with the developers for the preparation of a development agreement. The specific conditions of service for this project are included in Part G: Special Conditions of the attached agreement.







YVWD AGREEMENT NO. 2016-03

**AGREEMENT TO PROVIDE SEWER FACILITIES AND SERVICE  
TO THE  
PRIVATE DEVELOPMENT OF TRACT MAP 36818**

This Agreement is made and effective this 16th day of March, 2016, by and between the YUCAIPA VALLEY WATER DISTRICT, a public agency ("DISTRICT") and MBTK Homes, LLC ("DEVELOPER"). Each is sometimes referred to herein as a "Party" and jointly as the "Parties".

Contact information for the parties is as follows:

**DISTRICT:**

Yucaipa Valley Water District  
12770 Second Street  
Post Office Box 730  
Yucaipa, California 92399-0730  
Attn: Joseph B. Zoba, General Manager  
Telephone: (909) 797-5119  
Facsimile (909) 797-6381

**DEVELOPER:**

MBTK Homes, LLC  
11154 Walnut Avenue  
Redlands, California 92374  
Attn: Mark Buoye  
Telephone: (909) 499-8353  
Facsimile:

PROJECT OVERVIEW

This "Sewer Only" development consists of 27 single family residential units on approximately 7.33 acres. The project consists of APNs 411-150-012, 411-160-006 and 411-160-032 which are located on the west side of 4<sup>th</sup> Street between Flordason Drive and Rogers Court, north of Avenue L in the City of Calimesa, Riverside County. The proposed development of the Property will not include phased construction. (see "Attachment A – Project Overview Map")

The Yucaipa Valley Water District has been involved in the review process for this project and has established the following development related project files: P-65-305 Work Order 65-20857

### RECITALS

WHEREAS, DEVELOPER desires to develop its Property situated within the service area of the DISTRICT, and

WHEREAS, DEVELOPER proposes to develop the DEVELOPER's Property in the manner generally proposed and in accordance with the currently approved maps and construction drawings reviewed by the Yucaipa Valley Water District at this time, and

WHEREAS, DEVELOPER desires to obtain water (as used herein, "water" includes, but is not limited to, recycled water where applicable) and sewer service from the DISTRICT for its development in accordance with the DISTRICT's Rules, Regulations and Policies; and

WHEREAS, it is the purpose of this Agreement to set forth the terms and conditions by which the DISTRICT will provide water and sewer service to the DEVELOPER's Property.

### AGREEMENT

NOW, THEREFORE, in consideration of the mutual promises and covenants contained herein, the DEVELOPER and the DISTRICT agree as follows:

#### PART A: THE FACILITIES

1. General Description.

a. The DEVELOPER proposes to develop its Property as provided on the approved development construction drawings approved by the DISTRICT (the "Approved Plans" as defined in Paragraph 3(a) of this Agreement) which includes water and sewer facilities ("Facilities" or "Facility") necessary to serve the Property.

b. Ownership; Operation and Maintenance: Once constructed and accepted by the DISTRICT, title to the facilities (and associated right-of-way) shall be conveyed by the DEVELOPER to the DISTRICT, and the DISTRICT shall operate and maintain the facilities and shall provide water and sewer service to the DEVELOPER's Property in accordance with the DISTRICT's Rules, Regulations and Policies and the provisions of this Agreement.

#### PART B: DESIGN AND CONSTRUCTION

2. Licensed Professionals. All work, labor and services performed and provided in connection with (for example) the preparation of surveys and descriptions of real property and right-of-ways, the preparation of construction specifications, plans and drawings, and the construction of all Facilities, shall be performed by, or under the direction of, professionals appropriately licensed by the State of California and in good standing. In the event the



DISTRICT reasonably determines after conferring with the DEVELOPER that other licensed professionals are required in order to satisfy the obligations of the DEVELOPER hereunder, the DEVELOPER shall promptly retain such professionals at its sole cost and expense.

3. Plan Acceptance; Facility Acceptance.

a. The DISTRICT shall within 30 calendar days of receipt respond to all plans and specifications ("Plans") related to the construction of the Facilities. Upon its final review and approval of the Plans, the DISTRICT shall sign the construction drawings ("Approved Plans") indicating such approval ("Plan Acceptance"). Plans are subject to an annual review by the District and modifications may be required by the DISTRICT to conform to revised construction standards.

b. The DEVELOPER shall not permit, or suffer to permit, the construction of any Facility without having first obtained Plan Acceptance. In the event the DEVELOPER fails or refuses to obtain the DISTRICT's Plan Acceptance, the DISTRICT may refuse, in its sole discretion and without liability to the DEVELOPER, to issue its Facility Acceptance (as that term is defined below) as to such Facility when completed.

c. The DEVELOPER shall not deviate from any Approved Plans and/or specifications without the DISTRICT's prior written approval.

d. All construction work shall be inspected on a timely basis by DISTRICT personnel and/or by DISTRICT's consultants at the sole cost of the DEVELOPER. The DEVELOPER acknowledges that the inspector(s) shall have the authority to require that any and all unacceptable materials, workmanship, construction and/or installation not in conformance with either (i) the Approved Plans, or (ii) standard practices, qualities and standards in the industry, as reasonably determined by the DISTRICT, shall be replaced, repaired or corrected at DEVELOPER's sole cost and expense.

e. In the event the DEVELOPER's contractor proposes to work overtime and beyond normal business hours, the DEVELOPER shall obtain the DISTRICT's approval at least 24 hours in advance so that inspection services may be appropriately scheduled. The DEVELOPER shall be solely responsible for paying all costs and expenses associated with such inspection services.

f. The DISTRICT shall promptly upon request of DEVELOPER cause the final inspection of a Facility which DEVELOPER indicates is completed. If the DISTRICT finds such Facilities to have been completed in conformance with the Approved Plans for which a Plan Acceptance has been issued, then DISTRICT shall issue to DEVELOPER its letter ("Facility Acceptance") indicating satisfactory completion of the Facility and DISTRICT's acceptance thereof. Neither inspection nor issuance of the Facility Acceptance shall constitute a waiver by DISTRICT of any claims it might have against DEVELOPER for any defects in the work performed, the materials provided, or the Facility constructed arising during the one year warranty period provided for under Paragraph 8 of this Agreement.

4. Project Coordination and Designation of DEVELOPER's Representative.

a. The DEVELOPER shall be solely responsible for coordinating the provision of all work, labor, material and services associated with the planning, design and construction of the water and sewer Facilities required for the DEVELOPER's Property. The DEVELOPER shall be solely responsible for compliance with all applicable federal, state and local safety rules and regulations, and shall conduct periodic safety conferences as required by law and common sense.

b. Prior to proceeding with any Facility construction, the DEVELOPER shall schedule and conduct a preconstruction conference with the DISTRICT's General Manager and the DISTRICT Engineer and/or their designees or agents. In the event the DEVELOPER fails or refuses to conduct any such conference, the DISTRICT may refuse, in its sole discretion, to accept the Facilities constructed by the DEVELOPER.

c. The DISTRICT and the DEVELOPER hereby designate the individual identified on page 1 of this Agreement as the person who shall have the authority to represent the DISTRICT and DEVELOPER in matters concerning this Agreement. In order to ensure maximum continuity and coordination, the DISTRICT and DEVELOPER agree not to arbitrarily remove or replace the authorized representative, but in the event of a substitution, the substituting Party shall promptly advise the other Party of such substitution, in writing.

5. DISTRICT's Right to Complete Facilities. The DISTRICT is hereby granted the unqualified right to complete, construct or repair all or any portion of the water and/or sewer Facilities, at DEVELOPER's sole cost and expense in the event there is a threat to the public's health, safety or welfare.

6. Construction of Connections to DISTRICT Facilities. Unless otherwise agreed to in writing by the DISTRICT, the DISTRICT shall furnish all labor, materials and equipment necessary to construct and install connections between the DEVELOPER's Facilities and the DISTRICT's water, recycled water, and sewer systems. All costs and expenses associated therewith shall be paid by the DEVELOPER.

7. Compliance With Law and DISTRICT Regulations. The DEVELOPER hereby agrees that all Facilities shall be planned, designed and constructed in accordance with all applicable laws, and the DISTRICT'S Rules, Regulations and Policies in effect at the time of construction. The DEVELOPER shall strictly comply with all applicable law, rules and regulations, concerning the provision of services, materials and the payment of wages. The DEVELOPER shall keep fully informed of and obey all laws, rules and regulations, and shall indemnify the DISTRICT against any liability arising from DEVELOPER's violation of any such law, rule or regulation.

8. DEVELOPER's Warranties. The DEVELOPER shall unconditionally guaranty, for a period of one year following the DISTRICT's Facility Acceptance thereof, any and all materials and workmanship, at the DEVELOPER's sole cost and expense. The provision of temporary water service through any of the DEVELOPER's Facilities, prior to DISTRICT's acceptance of same, shall not nullify nor diminish the DEVELOPER's warranty obligation, nor shall the DEVELOPER's warranty obligation be voided if the DISTRICT determines, in its sole discretion,

to make any emergency repairs necessary to protect the public's health, safety or welfare or to ensure continuity of water or sewer service. The DISTRICT shall notify DEVELOPER of such emergency repairs.

9. Testing and Disinfection. Upon approval by the DISTRICT, the DEVELOPER, at its sole cost and expense, shall undertake and satisfactorily complete a testing program, including without limitation, compaction, cleaning, video and air testing, and pressurized and disinfection testing, for all Facilities prior to acceptance by the DISTRICT, and to disinfect all water Facilities in accordance with the DISTRICT's procedures and other applicable laws, rules and regulations.

10. Bond Requirements. The DEVELOPER shall provide to the DISTRICT, in a form satisfactory to the DISTRICT, the following bonds:

a. A Performance and Warranty Bond. A performance bond issued by a corporate surety or sureties licensed and permitted to do business by and within the State of California in an amount representing not less than one hundred percent (100%) of any and all construction work to be conducted or performed under this Agreement. A warranty bond issued by a corporate surety or sureties licensed and permitted to do business by and within the State of California in an amount representing not less than fifty percent (50%) of the total cost of any and all construction performed hereunder, insuring against any and all defects in the Facilities constructed hereunder, for a period of not less than one full year after the date of acceptance thereof by the DISTRICT.

b. A Labor and Materials Payment Bond issued by a corporate surety or sureties licensed and permitted to do business by and within the State of California in an amount representing not less than one hundred percent (100%) of the total cost of any and all construction performed hereunder per California Civil Code Sections 9550 and following.

c. Miscellaneous Bond Requirements. All bonds required by this Section 10 shall be provided to the DISTRICT within sixty (60) days of the date that this Agreement was approved by the DISTRICT's Board of Directors. All bonds required by this section are subject to the approval as to form and content by the General Manager and DISTRICT's Legal Counsel. All bonds required by this section shall be provided by a surety that is an "admitted" surety insurer authorized to transact surety insurance in California, with assets exceeding its liabilities in the amount equal to or in excess of the amount of the bonds, and each bond shall not be in excess of ten percent (10%) of the surety insurer's assets. The bond shall be duly executed and shall meet all of the requirements of Section 995.660 of the Code of Civil Procedure.

#### PART C: TITLE TO FACILITIES; OPERATION

11. Title to Facilities and Right-of-Way.

a. Provided that the DEVELOPER's Facilities are designed and constructed as required hereunder and the DISTRICT proposes to issue its Facility Acceptance, the DEVELOPER shall, concurrently with the DISTRICT's Facility Acceptance, convey ownership title to all Facilities (and right-of-way, if applicable) to the DISTRICT, free and clear of any and

all liens and encumbrances except those that are expressly agreed to by the DISTRICT. The DISTRICT may require fee title or an easement, depending upon the location of the Facility through action by the Board of Directors. Upon conveyance of title, the DISTRICT shall assume the responsibility of operating and maintaining the Facilities, subject to the DEVELOPER's warranty as provided herein. The DEVELOPER acknowledges and agrees that the DISTRICT shall not be obligated to operate and maintain the Facilities and to provide service to and through them until all applicable conditions imposed by this Agreement hereunder are satisfied and title to the Facilities has been conveyed and delivered to the DISTRICT in recordable form.

b. A form for the *Grant of Easement and Rights-of-Way and Bill of Sale of the Facilities* is available from the District upon request.

12. Risk of Loss. Until such time as acceptance thereof by the DISTRICT, and until good and marketable title to the easements, rights-of-way and Facilities are conveyed and delivered to the DISTRICT in recordable form, the DEVELOPER shall be solely and completely responsible for any and all losses and/or damage of every kind or nature to the easements, rights-of-way and Facilities. In the event DEVELOPER believes the loss and/or damages arose from or are related to acts performed by the DISTRICT, this provision does not preclude DEVELOPER's insurance carrier from seeking indemnity and/or reimbursement from the DISTRICT.

13. Conditions Precedent to the Provision of Water and Sewer Service. Unless the DISTRICT otherwise agrees in writing, the DISTRICT shall not be obligated to provide any water and/or sewer service to the DEVELOPER's Property or any part thereof, including model homes, until Facility Acceptance by the DISTRICT and DEVELOPER conveys to the DISTRICT the right-of-way and Facilities associated with the requested service. Upon acceptance of the right-of-way and appurtenant Facilities, the DISTRICT shall provide the service requested and assume the responsibility for operating and maintaining the affected Facilities. Service provided by the DISTRICT shall be in accordance with its Rules, Regulations and Policies and shall be comparable in quality of service to that provided all similarly situated customers.

#### PART D: FEES AND CREDITS

14. DEVELOPER's Fees, Charges, Costs and Expenses. The DEVELOPER shall be solely responsible for the payment to the DISTRICT of all fees, charges, costs and expenses related to this development.

a. DEVELOPER Cash Account Deposit: The DEVELOPER shall deposit with the DISTRICT, to be held in a Cash Account administered by the DISTRICT, the sum of 10% of the construction costs as an initial deposit within 10 business days following the DISTRICT's approval of this Agreement. The DEVELOPER acknowledges and hereby agrees that the DISTRICT is authorized, from time-to-time, to reimburse itself from the funds on deposit. The District shall provide a monthly accounting of how funds were disbursed. The DEVELOPER further agrees to periodically replenish within 30 calendar days upon the date an invoice is issued by the DISTRICT, the Cash Account in order to maintain a minimum amount as specified by the DISTRICT. The DISTRICT will not release any buildings for occupancy unless there is a balance

of at least \$1,000 in the Cash Account. Should any unexpended funds remain in the Cash Account upon termination of this Agreement, then such funds shall be reimbursed to the DEVELOPER within 90 days.

b. Current Fees and Charges: In the event of a change in the DISTRICT's schedule of fees and charges as stated in DISTRICT's existing Resolution 07-2007 adopted on March 8, 2007, such change shall automatically be incorporated into this Agreement as though set forth in full. Unless otherwise agreed to in writing by the DISTRICT, the DEVELOPER shall pay, when due, the then-current amount of the applicable fee or charge.

i. The DEVELOPER shall pay for the purchase of a quantity of imported water pursuant to the Sustainability Policy adopted by the Board of Directors as a Resolution No. 11-2008 on August 20, 2008. The imported water rate shall be the rate in effect at the time water is secured from the San Geronio Pass Water Agency. Imported water for compliance with the Yucaipa Valley Water District's Sustainability Policy may be pre-paid to lock in the Development Sustainability fee or purchased prior to the issuance of building permits and pay the fee in effect at that time.

15. DISTRICT Financial Participation; Credits. The DISTRICT may agree to participate in certain facilities for this Project. Any participation or financial contribution to construct the water and wastewater infrastructure associated with this project is contained in Part G - Special Conditions of this Agreement.

#### PART E: PERMITS AND DOCUMENTATION

16. Permits, Licenses and CEQA Documentation. The DEVELOPER shall be solely responsible for securing and paying for all permits and licenses necessary to develop its project. The DEVELOPER shall be solely responsible for complying with the California Environmental Quality Act under the auspices of the City and/or County within which the Property is situated. However, upon request, the DEVELOPER shall furnish to the DISTRICT all relevant environmental documentation and information. The DEVELOPER, at its sole cost and expense, shall be solely responsible for defending against any and all legal challenges to the DEVELOPER'S entitlements including permits, licenses and CEQA documents.

17. Documents Furnished by the DEVELOPER. The DEVELOPER shall furnish to the DISTRICT project documentation as required by the District specified below, within the time periods specified. Each and every document submittal shall consist of a fully executed original or certified copy (in recordable form, if applicable) and four copies.

| Document(s)                                     | Due Date              |
|---|-----------------------|
| Certification of Streets to Rough Grade         | Prior to Construction |
| Field Engineering Surveys ("Cut Sheets")        | Prior to Construction |
| Liability Insurance Certificate(s)              | Prior to Construction |
| Performance Bond                                | Prior to Construction |
| Labor and Materials Bond                        | Prior to Construction |
| City/County Encroachment Permits and Conditions | Prior to Construction |

|   |                                      |
|---|--------------------------------------|
| Soil Compaction Tests   | Prior to Acceptance                  |
| Grant of Easements and Rights-of-Way                          | Prior to Acceptance                  |
| Warranty Bond   | Prior to Acceptance and<br>Recording |
| Bill of Sale  | Prior to Acceptance                  |
| List of Approved Street Addresses and Assessor Parcel Numbers | Prior to Setting Meter               |
| Notice of High/Low Water Pressure                             | Prior to Setting Meter               |
| Notice of Water Pumping Facility                              | Prior to Construction                |
| Mechanic's Lien Releases                                      | Upon Request of District             |

NOTE: The DEVELOPER hereby acknowledges and agrees that the foregoing list is not intended to be exclusive; therefore, the DISTRICT reserves the right to request, from time-to-time, additional documents or documentation.

## PART F: INSURANCE AND INDEMNIFICATION

18. Indemnification and Hold Harmless. The DEVELOPER and the DISTRICT agree that the DISTRICT should, to the extent permitted by law, be fully protected from any loss, injury, damage, claim, lawsuit, cost, expense, attorneys' fees, litigation costs, defense costs, court costs or any other costs arising out of or in any way related to the performance by DEVELOPER of this Agreement. Accordingly, the provisions of this indemnity provision are intended by the Parties to be interpreted and construed to provide the fullest protection possible under the law to the DISTRICT, except for liability attributable to the DISTRICT's intentional and/or negligent acts. DEVELOPER acknowledges that the DISTRICT would not enter into this Agreement in the absence of this commitment from the DEVELOPER to indemnify and protect the DISTRICT as set forth here.

Therefore, the DEVELOPER shall defend, indemnify and hold harmless the DISTRICT, its employees, agents and officials, from any liability, claims, suits, actions, arbitration proceedings, administrative proceedings, regulatory proceedings, losses, expenses or costs of any kind, whether actual, alleged or threatened, actual attorneys' fees incurred by the DISTRICT, court costs, interest, defense costs including expert witness fees and any other costs or expenses of any kind whatsoever without restriction or limitation incurred in relation to, as a consequence of or arising out of or in any way attributable actually, allegedly or impliedly, in whole or in part in the performance by DEVELOPER of this Agreement. All obligations under this provision are to be paid by the DEVELOPER as incurred by the DISTRICT. Notwithstanding the foregoing, the DEVELOPER shall have no obligation to defend, indemnify or hold harmless the DISTRICT, its employees, agents or officials from any liability arising, in whole or in part, from the DISTRICT'S intentional and/or negligent acts.

19. Insurance. The DEVELOPER agrees to provide insurance in accordance with the requirements set forth here throughout the term of this Agreement. If the DEVELOPER uses existing coverage to comply with these requirements and that coverage does not meet the requirements set forth herein, the DEVELOPER agrees to amend, supplement or endorse the existing coverage to do so. The following coverages will be provided by the DEVELOPER and maintained on behalf of the DISTRICT and in accordance with the requirements set forth herein.

a. Commercial General Liability Insurance (Primary) shall be provided on ISO-CGL Form No. CG 00 01 10 93. Policy limits shall be no less than \$1,000,000 per occurrence for all



coverages and \$2,000,000 general aggregate. The DISTRICT and its officials, employees and agents shall be added as additional insureds using ISO Form CG 20 10 10 93. Coverage shall apply on a primary non-contributing basis in relation to any other insurance or self-insurance, primary or excess, available to the DISTRICT or any employee or agent of the DISTRICT. Coverage shall not be limited to the vicarious liability or supervisory role of any additional insured. Coverage shall contain no contractors' limitation endorsement. There shall be no endorsement or modification limiting the scope of coverage for liability arising from explosion, collapse, or underground property damage.

b. Umbrella Liability Insurance (over Primary) shall apply to bodily injury/property damage, personal injury/advertising injury, at a minimum, and shall include a "drop down" provision providing primary coverage above a maximum \$25,000 self-insured retention for liability not covered by primary policies but covered by the umbrella policy. Coverage shall be following form to any underlying coverage. Coverage shall be provided on a "pay on behalf" basis, with defense costs payable in addition to policy limits. There shall be no cross-liability exclusion and no contractor's limitation endorsement. Policy limits shall be not less than \$1,000,000 per occurrence and \$1,000,000 in the aggregate, above any limits required in the underlying policies. The policy shall have starting and ending dates concurrent with the underlying coverages.

c. Workers' Compensation/Employer's Liability shall provide workers' compensation statutory benefits as required by law. Employer's liability limits shall be no less than \$1,000,000 per accident or disease. Employer's liability coverage shall be scheduled under any umbrella policy described above. Unless otherwise agreed, this policy shall be endorsed to waive any right of subrogation as respects the DISTRICT, its employees or agents.

d. The DEVELOPER and the DISTRICT further agree as follows:

i. All insurance coverage provided pursuant to this Agreement shall not prohibit the DEVELOPER, and the DEVELOPER's employees or agents, from waiving the right of subrogation prior to a loss. The DEVELOPER waives its right of subrogation against the DISTRICT.

ii. Unless otherwise approved by the DISTRICT in writing, the DEVELOPER's insurance shall be written by insurers authorized to do business in the State of California and with a minimum "Best's" Insurance Guide rating of "A:VII". Self-insurance will not be considered to comply with these insurance specifications.

iii. The DEVELOPER agrees to provide evidence of the insurance required herein, satisfactory to the DISTRICT, consisting of certificate(s) of insurance evidencing all of the coverages required and an additional insured endorsement to the DEVELOPER's general liability and umbrella liability policies. Certificate(s) are to reflect that the insurer will provide 30 days' notice of any cancellation of coverage. The DEVELOPER agrees to require its insurer to modify such certificate(s) to delete any exculpatory wording stating that failure of the insurer to mail written notice of cancellation imposes no obligation, and to delete the word "endeavor" with

regard to any notice provisions. The DEVELOPER agrees to provide complete certified copies of policies to the DISTRICT within 10 days of the DISTRICT's request for such copies.

iv. In the event of any loss that is not insured due to the failure of the DEVELOPER to comply with these requirements, the DEVELOPER agrees to be responsible for any all losses, claims, suits, damages, defense obligations and liability of any kind attributed to the DISTRICT, or the DISTRICT's officials, employees and agents as a result of such failure.

v. The DEVELOPER agrees not to attempt to avoid its defense and indemnity obligations to the DISTRICT and its employees, agents and officials by using as defense the DEVELOPER's statutory immunity under workers' compensation and similar statutes.

#### PART G: SPECIAL CONDITIONS

20. The following conditions, being contained herein, will be required by the District in order to receive water, recycled water and sewer service for the Project.

a. Potable Water Related Facilities: This project is within the South Mesa Water Company service boundary. This project will not be required to construct potable water facilities for the Yucaipa Valley Water District.

b. Recycled Water Related Facilities: This project is within the South Mesa Water Company service boundary. This project will not be required to construct recycled water facilities for the Yucaipa Valley Water District.

c. Wastewater Related Facilities: The DEVELOPER shall bring the existing DISTRICT A.D.-11 Easement 14-P up to current DISTRICT standards of 20-feet in width and provide an all-weather drivable surface over the existing sewer mainline along the western property line of Tract Map 36818. The DEVELOPER shall also construct a new sewer mainline into and through Tract Map 36818 sufficient to serve the proposed project from the existing DISTRICT sewer system from DISTRICT A.D.-11 Easement 14-P. The DEVELOPER shall also provide new sewer easements as necessary for service.

i. The DEVELOPER shall provide adequate vehicular access across each new parcel, including the north and south property lines of Tract Map 36818, proposed along DISTRICT A.D.-11 Easement 14-P.

ii. The DEVELOPER shall provide either a removable panel or lockable gate for access at each proposed parcel line across DISTRICT A.D.-11 Easement 14-P, to provide for adequate access of DISTRICT vehicles and equipment.

iii. The DEVELOPER shall construct new sewer laterals for Lots 1, 2 and 3 off of the existing public sewer main within Buena Vista Court to provide for sewer service. The DEVELOPER shall also construct new sewer laterals for Lots 14, 15 and 16 off of the existing public



sewer main within 4<sup>th</sup> Street to provide for sewer service.

iv. The DISTRICT has identified sewer mainline deficiencies downstream of the Project in the City of Calimesa. To secure the appropriate funding for the upgrade of these sewer mainline facilities, the DEVELOPER shall pay to the DISTRICT a fee of \$1,500 per Equivalent Dwelling Unit for the construction of upgraded sewer mainline facilities. This fee shall be paid prior to the issuance of building permits.

d. Previously Constructed Facilities: The DEVELOPER shall protect the existing sewer mainline in place at all times. If, at any time, there is an actual or potential conflict with the proposed development of Tract Map 36818, including but not limited to site drainage and storm water flow control, the DEVELOPER shall be required to show and provide adequate protection or adjustment of the existing sewer facilities to be approved by the DISTRICT prior to construction of the proposed remediation.

e. The DISTRICT shall require all outstanding invoices related to the Project to be paid prior to releasing each lot for occupancy.

#### PART H: MISCELLANEOUS

##### 21. Term and Termination of Agreement.

a. Unless extended by mutual agreement of the parties in writing, this Agreement shall terminate at 5:00 p.m., on the day before the sixth (6<sup>th</sup>) anniversary date of this Agreement; provided, however, that this Agreement shall automatically terminate, without further liability to either party, as follows:

i. Within 10 business days of the effective date of this Agreement if the DEVELOPER fails or refuses to make the Cash Account deposit, or if the Cash Account is not replenished to a positive balance after the issuance of an invoice by the DISTRICT for a period of 75 calendar days; or

ii. Within 12 months of the effective date of this Agreement, if the initial construction contemplated hereunder has not commenced within such time; or

iii. Immediately, upon abandonment by the DEVELOPER of the DEVELOPER's Property and/or the work hereunder. "Abandonment" is defined as the act of bankruptcy or to fail to improve the Property in a manner consistent with the proposed development plan; and/or

iv. Within 45 days of the date of the issuance of a Notice of Default by the DISTRICT to the DEVELOPER in the event the DEVELOPER fails or refuses to perform, keep or observe any of the terms, conditions or covenants set forth in this Agreement.

b. Any termination of this Agreement shall not be construed as a waiver of any claim the DISTRICT may have against the DEVELOPER or that the DEVELOPER may have against the DISTRICT.

c. In the event of termination, and in order to counteract any threat to the public's health, safety or welfare, the DISTRICT shall have the right, without liability to complete, at the DEVELOPER's non-reimbursable expense, all or a portion of the Facilities constructed pursuant to this Agreement on the condition that a claim has been made against the performance bond issued by the DEVELOPER for this Property.

d. Notwithstanding the foregoing, the Indemnification clauses contained herein shall survive the termination of this Agreement.

22. Status of the Parties. This Agreement is not intended to create, and nothing herein contained shall be construed to create, an association, a trust, a joint venture, a partnership or other entity of any kind, or to constitute either party as the agent, employee or partner of the other.

23. Amendment; Assignment.

a. Amendment. This Agreement may be amended, from time-to-time, by mutual agreement of the DISTRICT and the DEVELOPER, in writing signed by both Parties. The DISTRICT and the DEVELOPER further agree that to the extent this Agreement does not address all aspects of the DEVELOPER's Property, the Parties shall meet and confer and negotiate in good faith, and execute a written amendment or supplement to this Agreement.

b. Assignment. This Agreement shall not be assigned, whether in whole or in part.

24. Force Majeure. If either the DISTRICT or the DEVELOPER is delayed, hindered or prevented from performing any term of this Agreement by any cause beyond either party's control including, without limitation, any strike, walkout, prohibitions imposed by law, rules or regulations, riot, war, act of God or the default of the other party, then such performance may be excused or the time of performance tolled during the period of delay.

25. Incorporation of Prior Agreements. This Agreement contains all of the agreements of the parties with respect to any matter covered or mentioned in this Agreement, and no prior agreement or understanding pertaining to any such matter shall be effective for any purpose.

26. Waiver. No waiver by either Party of any provisions of this Agreement shall be deemed to be a waiver of any other provision hereof or of any subsequent breach by either Party of the same or any other provisions.

27. Severance. If any provision of this Agreement is determined to be void by any court of competent jurisdiction then such determination shall not affect any other provision of this Agreement provided that the purpose of this Agreement is not frustrated.

28. DISTRICT's Disclaimer. Utilizing fees and Facilities provided to the DISTRICT by the DEVELOPER, the DISTRICT will supply potable water, recycled (non-potable) water, and wastewater collection and treatment services to the DEVELOPER's Property and development thereon. However, the DISTRICT shall not be obligated to utilize public funds to subsidize the DEVELOPER's Project. The DISTRICT shall not be required to authorize the issuance of grading, building or occupancy permits during the period of time that the Board of Directors have declared a 20% reduction or greater of overall water use for a portion or all of the DISTRICT's service area. The DISTRICT agrees, however, to make every effort to minimize drought impacts.

29. Preparation of This Agreement. This Agreement shall not be construed against the Party preparing it, but shall be construed as if both Parties prepared it.

30. Alternative Dispute Resolution.

a. Any dispute as to the construction, interpretation or implementation of this Agreement, or any rights or obligations hereunder, shall be submitted to mediation. Unless the Parties enter into a written stipulation to the contrary, prior to the filing of any complaint to initiate legal action, all disputes shall first be submitted to non-binding mediation, conducted by the Judicial Arbitration and Mediation Services, Inc./Endispute, or its successor, or any other neutral, impartial mediation service that the Parties mutually agree upon in accordance with its rules for such mediation. Mediation fees shall be shared equally by the DEVELOPER and the DISTRICT.

IN WITNESS WHEREOF, the parties have executed is Agreement to be effective on the day and year first above written.

YUCAIPA VALLEY WATER DISTRICT

Dated: \_\_\_\_\_

By: \_\_\_\_\_  
Lonni Granlund, Board President

DEVELOPER:

Dated: \_\_\_\_\_

By: \_\_\_\_\_

\_\_\_\_\_  
Print Name

\_\_\_\_\_  
Print Title







**Date:** March 16, 2016

**Prepared By:** Brent Anton, Engineering Manager

**Subject:** Adoption of Resolution No. 2016-13 Adopting the Standard Specifications for the Design and Processing, Furnishing of Materials, and Construction of Drinking Water, Recycled Water and Sewer Facilities

**Recommendation:** That the Board of Directors adopts Resolution No. 2016-13 as presented.

On August 20, 2014, the Board of Directors adopted Resolution No. 2014-08 related to updated Standard Specifications for drinking water, recycled water and sewer facilities. The District staff has made minor changes to the standard drawings and recommends the adoption of the entire packet. This item was presented on January 26, 2016 as Workshop Memorandum No. 16-016 and on March 8, 2016 as Workshop Memorandum No. 16-049. Both workshop sessions provided an opportunity for the Board of Directors, District staff and the public to discuss proposed modifications to the standard specifications.

Following the approval of the standard drawings, the District's website will be updated to include the entire package of standard drawings as well as individual standards for use by consultants, engineers and contractors.

The screenshot shows the Yucaipa Valley Water District website. The header includes the district logo and name, a search bar, and a navigation menu with links: HOME, ABOUT US, CALENDAR, PROGRAMS, PUBLICATIONS, SERVICES, HOW DO I..., and CONTACT US. The main content area is divided into three columns, each representing a different type of standard design drawing. Each column has a title, a brief description, and a table listing individual standards with their numbers and descriptions, each linked to a PDF file.

| Drinking Water Standard Design Drawings  |   |
|--|---|
| The entire volume of drinking water standard design drawings can be viewed as a pdf, or in a web browser. The individual standard design drawings are available below. |   |
| Standard Number  | Description   |
| W-0  | Water Standard Index - <a href="#">PDF</a>  |
| W-1  | Standard Legend - <a href="#">PDF</a>   |
| W-2  | Potable Water Pipeline Location - <a href="#">PDF</a>   |
| W-3  | Utility Locations - Sections - <a href="#">PDF</a>  |
| W-4  | Dual Plumbed Residential Properties Requiring 1" Fire Sprinkler Service - <a href="#">PDF</a> |

| Sewer Standard Design Drawings  |  |
|---|--|
| The entire volume of sewer standard design drawings can be viewed as a pdf, or in a web browser. The individual standard design drawings are available below. |  |
| Standard Number   | Description  |
| S-0   | Sewer Standard Index - <a href="#">PDF</a>             |
| S-1   | Standard Legend - <a href="#">PDF</a>                  |
| S-2   | Sewer Mainline Location - <a href="#">PDF</a>          |
| S-3   | Manhole Detail - <a href="#">PDF</a>                   |
| S-4   | Concrete Base and Joint Detail - <a href="#">PDF</a>   |
| S-5   | Adjust Existing Manhole to Grade - <a href="#">PDF</a> |

| Recycled Water Standard Design Drawings  |  |
|--|--|
| The entire volume of recycled water standard design drawings can be viewed as a pdf, or in a web browser. The individual standard design drawings are available below. |  |
| Standard Number  | Description  |
| R-0  | Recycled Water Standard Index - <a href="#">PDF</a>                  |
| R-1  | Standard Legend - <a href="#">PDF</a>                                |
| R-2  | Recycled Water Pipeline Location - <a href="#">PDF</a>               |
| R-3  | Recycled Water Notes for Non-Residential Sites - <a href="#">PDF</a> |
| R-4  | Recycled Water Notes for   |

**RESOLUTION NO. 2016-13**

**RESOLUTION OF THE YUCAIPA VALLEY WATER DISTRICT  
ADOPTING THE STANDARD SPECIFICATIONS FOR THE DESIGN AND PROCESSING,  
FURNISHING OF MATERIALS, AND CONSTRUCTION OF DRINKING WATER, RECYCLED  
WATER AND SEWER FACILITIES**

**WHEREAS**, the Yucaipa Valley Water District's Board of Directors desires to adopt revised and updated comprehensive drinking water, recycled water and sewer standard specifications that reflect technological advances, product and material availability, regulatory requirements, and District policies.

**NOW, THEREFORE, BE IT RESOLVED**, the Board of Directors of the Yucaipa Valley Water District hereby adopts the drinking water, recycled water and sewer standard specifications attached hereto as Exhibit "A".

PASSED, APPROVED and ADOPTED this 16<sup>th</sup> day of March 2016.

YUCAIPA VALLEY WATER DISTRICT

ATTEST:

---

Lonni Granlund, President Board of Directors

---

Joseph B. Zoba, General Manager

## **Exhibit “A”**





Yucaipa Valley Water District

12770 Second Street, Yucaipa, California 92399 Phone: (909) 797-5117

# **Standard Specifications for the Design and Processing, Furnishing of Materials, and Construction of Drinking Water Facilities**

March 16, 2016

**YVWD WATER FACILITY STANDARDS**  
**DRAWING INDEX (NUMERICAL)**

|      |  |
|------|--|
| W-1  | STANDARD DESIGN REQUIREMENTS AND LEGEND                                      |
| W-2  | POTABLE WATER PIPELINE LOCATION  |
| W-3  | UTILITY LOCATIONS – SECTIONS   |
| W-4  | DUAL PLUMBED RESIDENTIAL PROPERTIES REQUIRING 1" FIRE SPRINKLER SERVICE      |
| W-5  | RESIDENTIAL PROPERTIES REQUIRING 1" SPRINKLER SERVICE                        |
| W-6  | MANIFOLD ASSEMBLY FOR FOUR TO TEN 3/4" AND 1" SERVICES                       |
| W-7  | 1 1/2" AND 2" COPPER WATER SERVICE INSTALLATION                              |
| W-8  | 3" AND 4" WATER METER INSTALLATION   |
| W-9  | 6" AND 8" WATER METER INSTALLATION   |
| W-10 | DOUBLE CHECK BACKFLOW ASSEMBLY   |
| W-11 | REDUCED PRESSURE BACKFLOW ASSEMBLY   |
| W-12 | REDUCED PRESSURE BACKFLOW ASSEMBLY WITH BYPASS                               |
| W-13 | DOUBLE CHECK OR REDUCED PRESSURE DETECTOR<br>ASSEMBLY ABOVE GROUND FIRE LINE |
| W-14 | DOUBLE CHECK ASSEMBLY AND BELOW GROUND FIRE LINE                             |
| W-15 | 1" AND 2" AIR AND VACUUM VALVE ASSEMBLY                                      |
| W-16 | WATER QUALITY SAMPLING STATION   |
| W-17 | NOT IN USE   |
| W-18 | FIRE HYDRANT INSTALLATIONS   |
| W-19 | BLOW-OFF ASSEMBLY  |
| W-20 | VALVE AND VALVE BOX INSTALLATION   |
| W-21 | VALVE STEM EXTENSION   |
| W-22 | THRUST BLOCK DETAILS FOR RETROFIT ONLY                                       |
| W-23 | PRESSURE REDUCING STATION DETAILS  |
| W-24 | PREFABRICATED VAULT WITH LID AND VENT ASSEMBLY                               |
| W-25 | ADJUSTABLE PIPE SUPPORT  |
| W-26 | STEEL CASING PIPE  |
| W-27 | MORTAR LINED AND COATED STEEL PIPE JOINT DETAILS                             |
| W-28 | MORTAR LINED AND COATED STEEL PIPE CLOSURE DETAILS                           |
| W-29 | NOT IN USE   |
| W-30 | TRENCH REPAIR DETAIL   |
| W-31 | PIPE BEDDING DETAIL  |
| W-32 | WATER PIPELINE PROTECTION DETAIL   |

**WATER STANDARD INDEX**

2016




Yucaipa Valley Water District

Approved by the Yucaipa  
Valley Water District Board of  
Directors on March 16, 2016 as  
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**W-0**

Sheet 1 of 2

| <b><u>YVWD WATER FACILITY STANDARDS</u></b>               |   |
|---|---|
| <b><u>DRAWING INDEX (SUBJECT)</u></b>                     |   |
| <b><u>STANDARDS</u></b>                                   |   |
| W-1   | STANDARD DESIGN REQUIREMENTS AND LEGEND   |
| W-2   | POTABLE WATER PIPELINE LOCATION   |
| W-3   | UTILITY LOCATIONS - SECTIONS  |
| W-22  | THRUST BLOCK DETAILS FOR RETRO-FIT ONLY   |
| W-30  | TRENCH REPAIR DETAIL  |
| W-31  | PIPE BEDDING DETAILS  |
| <b><u>SERVICES</u></b>                                    |   |
| W-4   | DUAL PLUMBED RESIDENTIAL PROPERTIES REQUIRING 1" FIRE SPRINKLER SERVICE   |
| W-5   | RESIDENTIAL PROPERTIES REQUIRING 1" FIRE SPRINKLER SERVICE  |
| W-6   | MANIFOLD ASSEMBLY FOR FOUR TO TEN 3/4" AND 1" SERVICES  |
| W-7   | 1 1/2" AND 2" COPPER WATER SERVICE INSTALLATION   |
| W-8   | 3" AND 4" WATER METER INSTALLATION  |
| W-9   | 6" AND 8" WATER METER INSTALLATION  |
| W-15  | 1" AND 2" AIR AND VACUUM VALVE ASSEMBLY   |
| W-16  | WATER QUALITY SAMPLING STATION  |
| W-24  | PREFABRICATED VAULT/LID/VENT ASSEMBLY   |
| <b><u>SERVICE PROTECTION</u></b>                          |   |
| W-10  | DOUBLE CHECK BACKFLOW ASSEMBLY  |
| W-11  | REDUCED PRESSURE BACKFLOW ASSEMBLY  |
| W-12  | REDUCED PRESSURE BACKFLOW ASSEMBLY WITH BY-PASS   |
| W-13  | DOUBLE CHECK OR REDUCED PRESSURE DETECTOR<br>ASSEMBLY ABOVE GROUND FIRE LINE                                      |
| W-14  | DOUBLE CHECK ASSEMBLY AND BELOW GROUND FIRE LINE  |
| <b><u>FIRE HYDRANTS AND VALVES</u></b>                    |   |
| W-18  | FIRE HYDRANT INSTALLATIONS  |
| W-19  | BLOW-OFF ASSEMBLY   |
| W-20  | VALVE AND VALVE BOX INSTALLATION  |
| W-21  | VALVE STEM EXTENSION  |
| <b><u>PIPE AND CASING DETAILS</u></b>                     |   |
| W-22  | THRUST BLOCK DETAILS FOR RETROFIT ONLY  |
| W-25  | ADJUSTABLE PIPE SUPPORT   |
| W-26  | STEEL CASING PIPE   |
| W-27  | MORTAR LINED AND COATED STEEL PIPE JOINT DETAILS  |
| W-28  | MORTAR LINED AND COATED STEEL PIPE CLOSURE DETAILS  |
| W-31  | PIPE BEDDING DETAIL   |
| W-32  | WATER PIPELINE PROTECTION DETAIL  |
| <b><u>PRESSURE REDUCING STATION AND VAULT DETAILS</u></b> |   |
| W-23  | PRESSURE REDUCING STATION DETAILS   |
| W-24  | PREFABRICATED VAULT WITH LID AND VENT ASSEMBLY  |
| <b>WATER STANDARD INDEX</b>                               |   |
| 2016  |  Yucaipa Valley Water District |
|   | Approved by the Yucaipa Valley Water District Board of Directors on March 16, 2016 as Resolution No. 2016-13      |
| <b>W-0</b>  |   |
| Sheet 2 of 2  |   |

**STANDARD DESIGN REQUIREMENTS:**

PLAN SCALE SIZES ARE REQUIRED TO BE DESIGNED AT 1:40. SPECIAL CONSTRUCTION DETAILS MAY BE ADJUSTED AS NECESSARY FOR DESIGN AND CONSTRUCTION PURPOSES.

ALL PLAN SHEETS SHALL BE ON 24-INCH BY 36-INCH ARCHITECTURAL SHEET SIZE D.

ALL PROJECTS SHALL BE SUBMITTED TO THE DISTRICT ON MYLAR PRIOR TO CONSTRUCTION.

ALL PROJECTS, UPON COMPLETION, SHALL UPDATE THE MYLAR PLANS AND PROVIDE AUTOCAD FILES FOR DISTRICT USE AND RECORDS UPON COMPLETION.

**STANDARD LEGEND**

|  |   |  |                        |
|--|---|--|------------------------|
|  | RIGHT OF WAY (R.O.W.)                       |  |                        |
|  | CENTERLINE                                  |  |                        |
|  | EXISTING WATER LINE                         |  |                        |
|  | PROPOSED WATER LINE                         |  |                        |
|  | EXISTING RECYCLED WATER LINE                |  |                        |
|  | PROPOSED RECYCLED WATER LINE                |  |                        |
|  | EXISTING SEWER LINE                         |  |                        |
|  | PROPOSED SEWER LINE                         |  |                        |
|  | EXISTING GAS LINE                           |  |                        |
|  | PROPOSED GAS LINE                           |  |                        |
|  | SERVICE LATERAL                             |  |                        |
|  | ENCASEMENT                                  |  |                        |
|  | EXISTING ELECTRICAL CONDUIT                 |  |                        |
|  | PROPOSED ELECTRICAL CONDUIT                 |  |                        |
|  | EXISTING TELEPHONE CONDUIT                  |  |                        |
|  | PROPOSED TELEPHONE CONDUIT                  |  |                        |
|  | EXISTING FIBER OPTIC CABLE                  |  |                        |
|  | PROPOSED FIBER OPTIC CABLE                  |  |                        |
|  | PORTLAND CEMENT CONCRETE IN SECTION         |  |                        |
|  | PORTLAND CEMENT CONCRETE IN PLAN            |  |                        |
|  | POWER POLE AND GUY LINE                     |  | CLEAN-OUT              |
|  | TRAFFIC SIGNAL EXISTING                     |  | HOUSE CONNECTION SEWER |
|  | WATER WELL                                  |  | WYE BRANCH             |
|  | BUTTERFLY VALVE                             |  | CUT-OFF WALL           |
|  | GATE VALVE                                  |  | CLEAN-OUT              |
|  | FIRE HYDRANT                                |  | DUCTILE IRON PIPE      |
|  | BLOW-OFF                                    |  | DROP MANHOLE           |
|  | AIR & VACUUM VALVE ASSEMBLY (SIZE PER PLAN) |  | JUNCTION MANHOLE       |
|  | POTABLE WATER QUALITY SAMPLE STATION        |  | MANHOLE                |
|  | RECYCLED WATER QUALITY SAMPLE STATION       |  | VITRIFIED CLAY PIPE    |

**STANDARD DESIGN REQUIREMENTS AND LEGEND**

2016

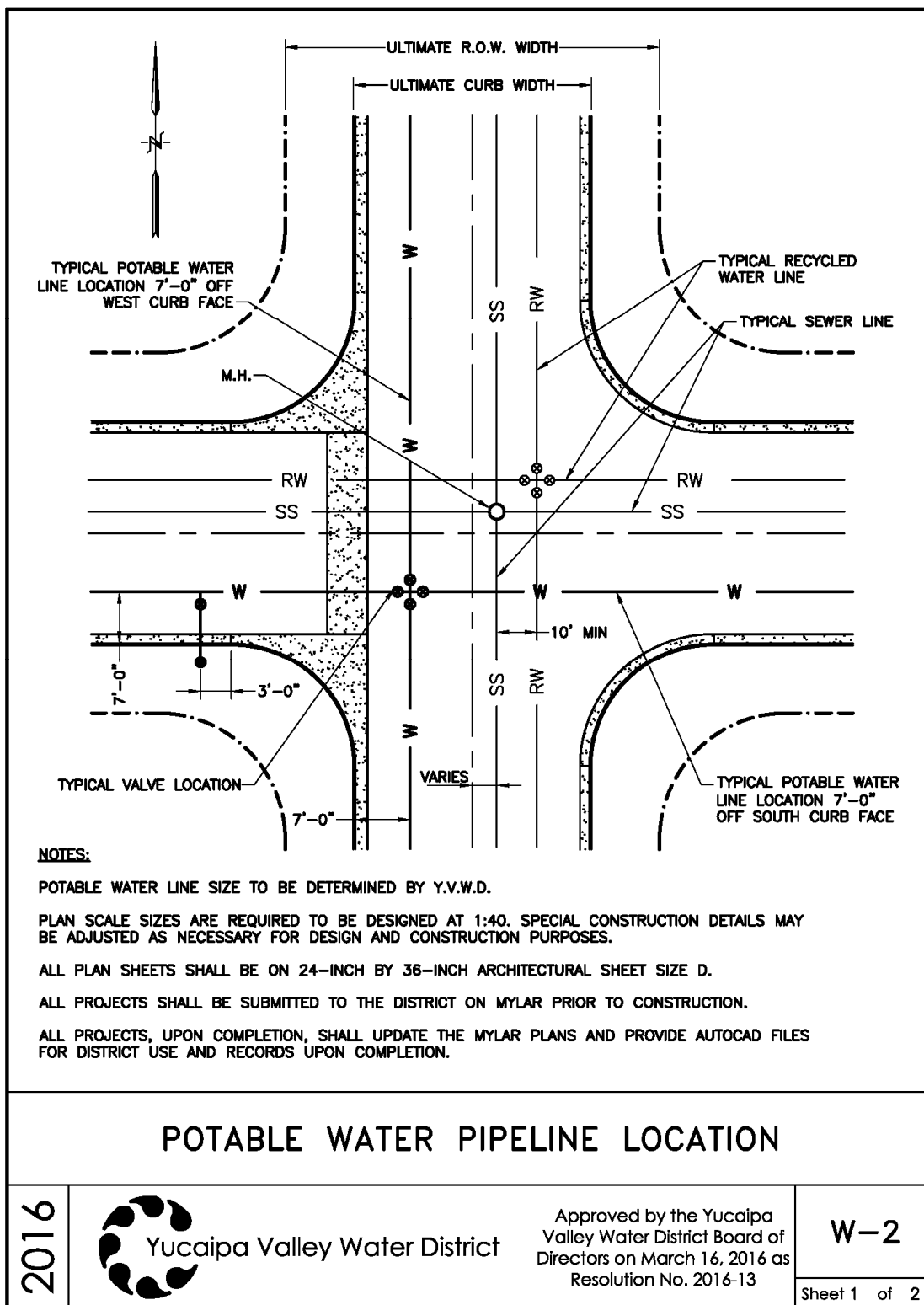


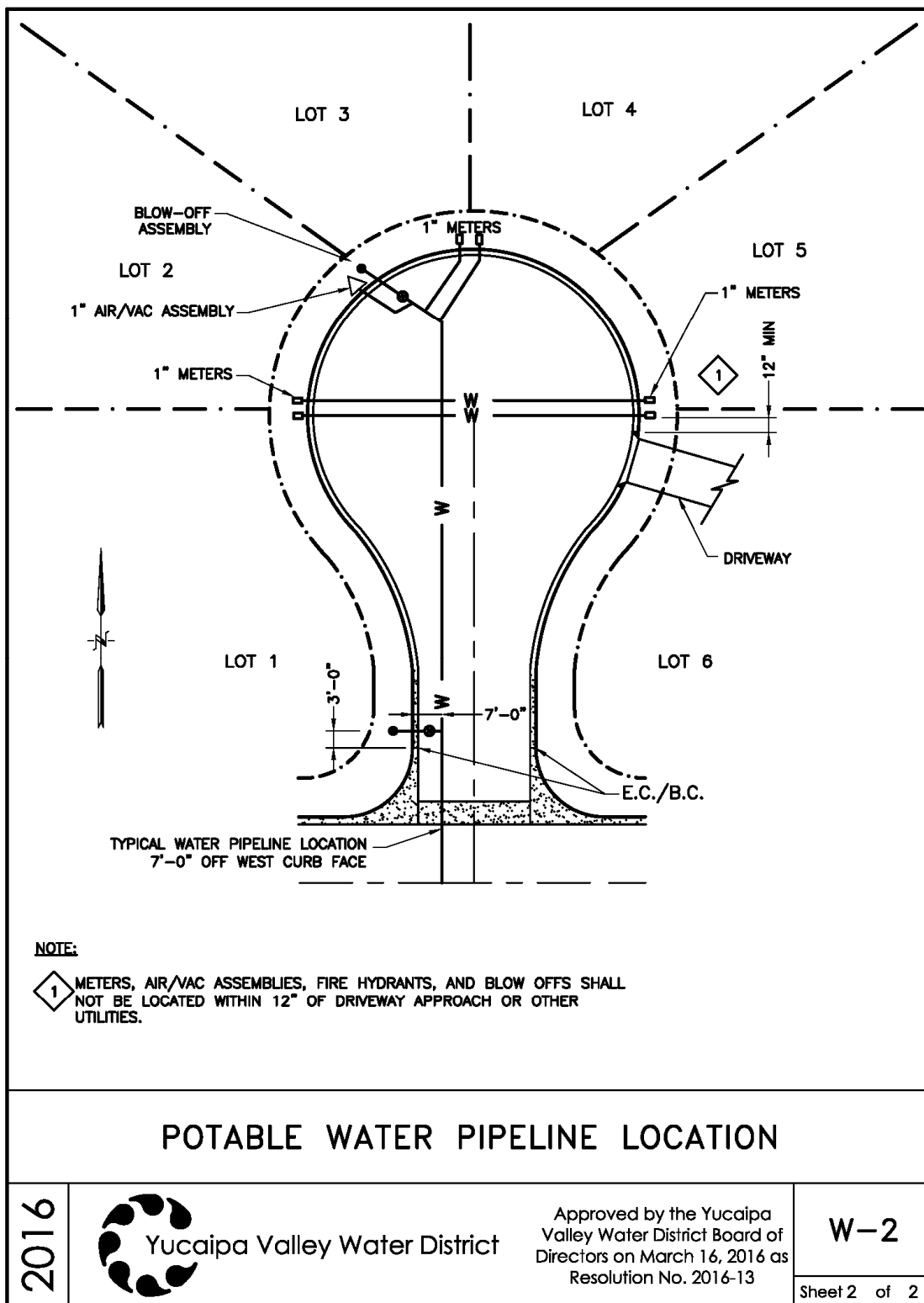
Yucaipa Valley Water District

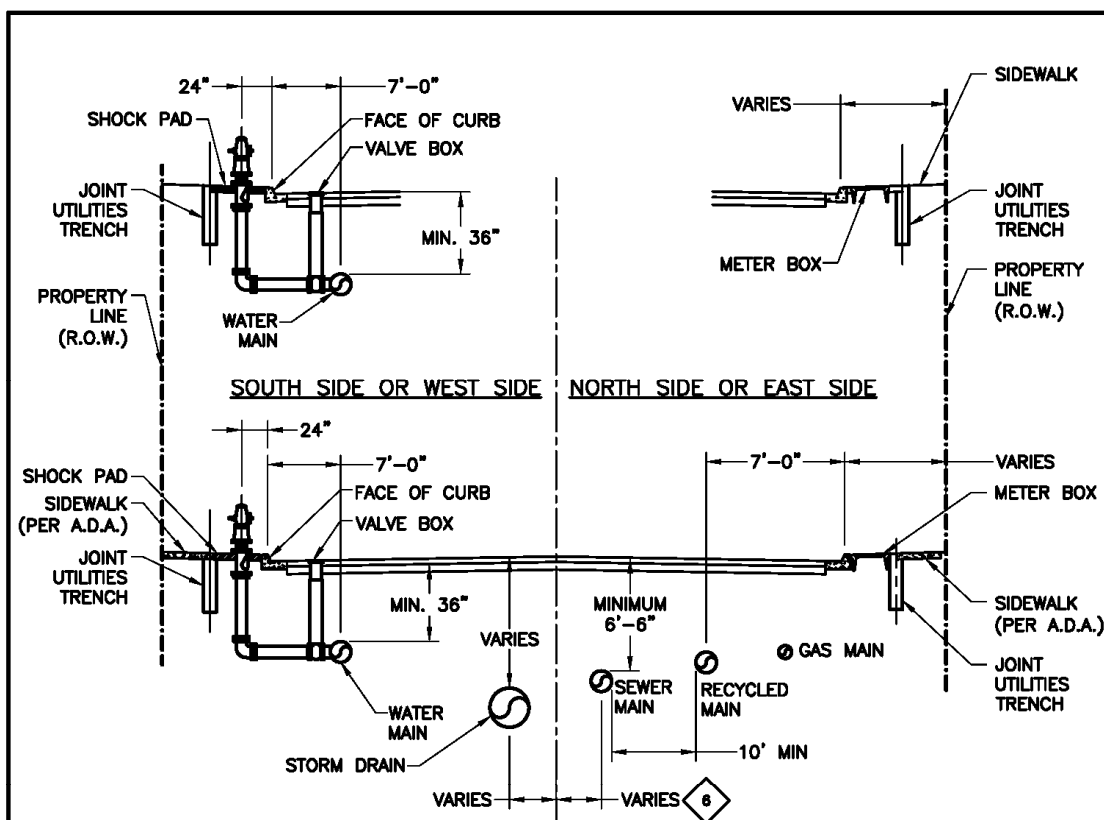
Approved by the Yucaipa  
Valley Water District Board of  
Directors on March 16, 2016 as  
Resolution No. 2016-13

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Sheet 1 of 1





**NOTES:**

1. LOCATION AND DEPTH OF EXISTING AND PROPOSED UTILITIES MUST BE PROVIDED BY THE SUBDIVIDER AND SHOWN ON ANY PLANS SUBMITTED TO Y.V.W.D. FOR APPROVAL.
2. FIRE HYDRANTS SHALL BE PLACED WITHIN THE SIDEWALK 2'-0" TO CENTER LINE OF BARREL BEHIND FACE OF CURB.
3. CHANGES MAY BE PERMITTED BY Y.V.W.D. IN CASES OF CONFLICTING FACILITIES.
4. CONFLICTS BETWEEN UTILITY COMPANIES FACILITIES, EXISTING AND PROPOSED, MUST BE MUTUALLY RESOLVED BY THE UTILITY COMPANIES.
5. BACKFILL UNDER EXISTING CURB WITHIN THE CITY OF YUCAIPA, MUST BE 2 SACK SLURRY PER CITY STANDARDS.

6 PIPING SHOULD BE LOCATED 6'-0" TO ROAD CENTERLINE WHEN POSSIBLE, EXCEPT IN DIVIDED ROADWAYS.

## UTILITY LOCATIONS – SECTIONS

2016

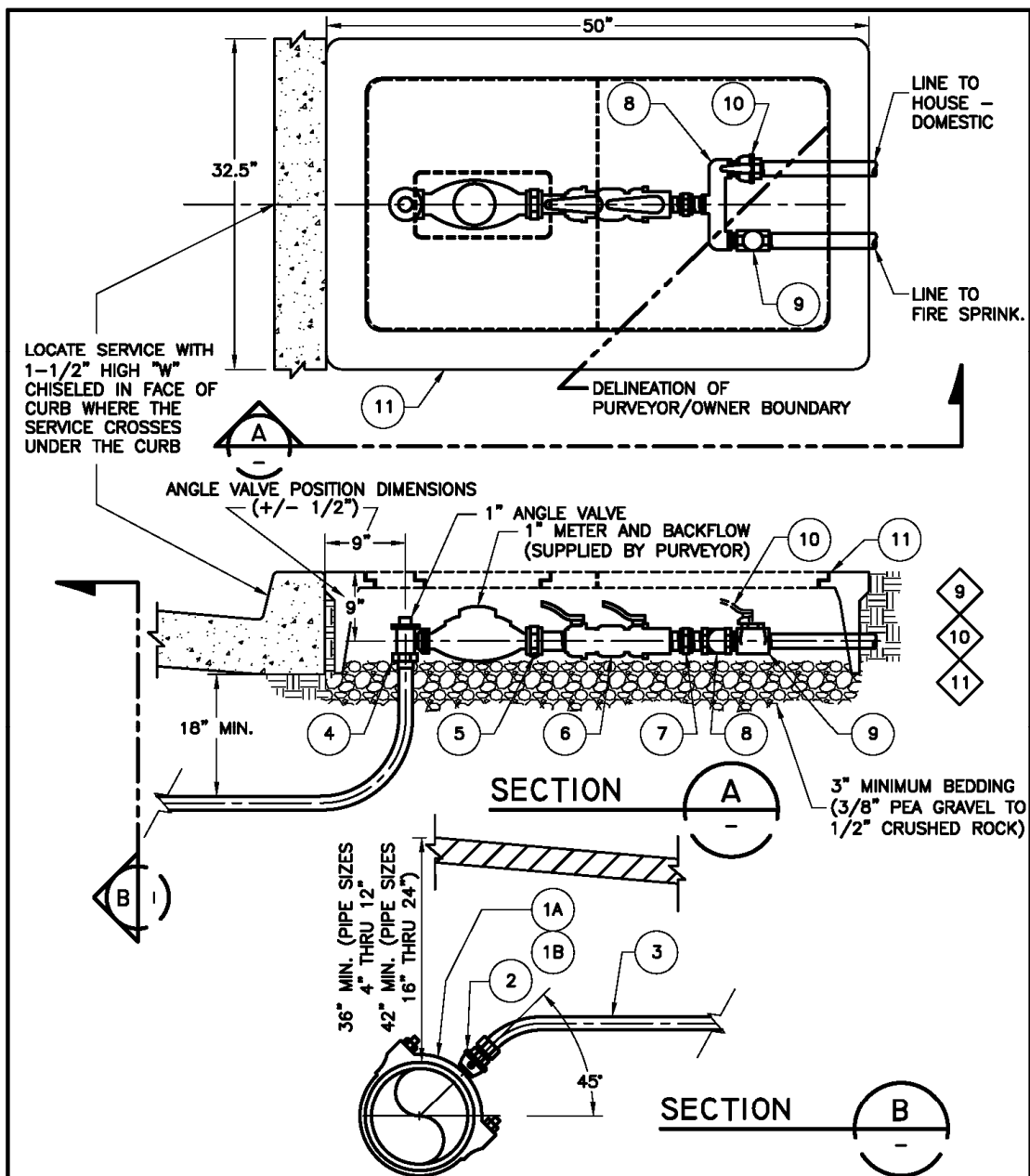


Yucaipa Valley Water District

Approved by the Yucaipa  
Valley Water District Board of  
Directors on March 16, 2016 as  
Resolution No. 2016-13

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Sheet 1 of 1



SEE SHEET 2 OF 3 FOR ADDITIONAL NOTES, SHEET 3 OF 3 FOR LIST OF MATERIALS

## DUAL PLUMBED RESIDENTIAL PROPERTIES REQUIRING 1" FIRE SPRINKLER SERVICE

2016



Yucaipa Valley Water District

Approved by the Yucaipa  
Valley Water District Board of  
Directors on March 16, 2016 as  
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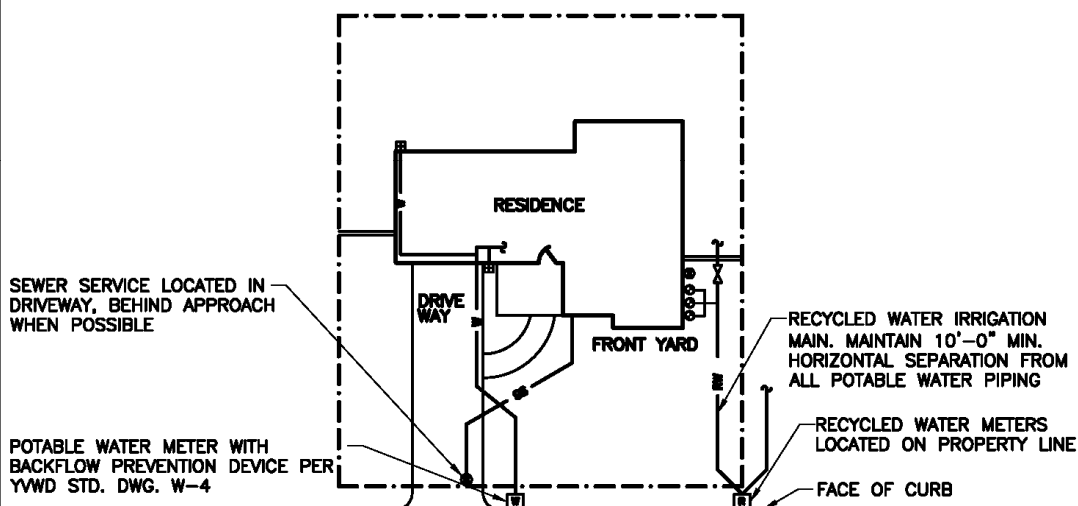
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Sheet 1 of 3



**NOTES:**

1. SERVICE SADDLE SHALL NOT BE INSTALLED WITHIN 12" OF VALVE, COUPLING, JOINT OR FITTING.
2. BLUE POLY-SLEEVE SHALL BE SECURED AT THE CORP. AND THE ANGLE VALVE WITH 10 MIL. TAPE.
3. SET TOP OF METER BOX FLUSH WITH DRIVEWAY, SIDEWALK OR CURB, AS SHOWN.
4. THE CORPORATION STOP TAP SHALL BE MADE AT A 45° DEGREE ANGLE FROM THE TOP OF THE PIPE.
5. THE WATER SERVICE SHALL EXTEND PERPENDICULAR TO THE CENTERLINE OF THE STREET FROM THE WATER MAIN TO THE METER STOP.
6. ALL CONNECTIONS TO COPPER TUBING SHALL BE COMPRESSION FITTINGS.
7. RECYCLED SERVICES WILL BE LOCATED ON THE PROPERTY LINES IN PAIRS. MINIMUM SEPARATION FROM POTABLE TO RECYCLED SERVICES IS (10').
8. METERS AND BACKFLOW BRANCH ASSEMBLY TO BE CENTERED IN METER BOXES TO ALLOW FOR ACCESS, TESTING, AND MAINTENANCE.
9. METER, METER COUPLINGS, BACKFLOW BRANCH ASSEMBLY LOCK ON/LOCK OFF BALL VALVES, AND SINGLE CHECK VALVE ARE TO BE PROVIDED BY THE PURVEYOR.
10. ALL DUAL PLUMBED SERVICES WITH A FIRE SERVICE ARE REQUIRED TO HAVE A DOUBLE CHECK BACKFLOW PREVENTION ASSEMBLY INSTALLED AND TESTED PRIOR TO SERVICES BEING TURNED ON.
11. SUBJECT TO PURVEYOR REVIEW AND APPROVAL, THE METER AND METER BOX INCLUDING THE BRANCH ASSEMBLY MAY BE INSTALLED PARALLEL TO THE CURB IF NECESSARY.



\*POTABLE WATER METER SHALL BE LOCATED A MINIMUM OF 10- FEET AWAY FROM THE RECYCLED WATER SERVICE AND SEWER LATERAL, AND 3- FEET AWAY FROM THE E.C./B.C. OF THE DRIVEWAY APPROACH. IF THESE SEPARATIONS ARE NOT POSSIBLE, THE POTABLE WATER METER MAY BE LOCATED WITHIN THE DRIVEWAY BEHIND THE APPROACH BY SPECIAL PERMISSION ONLY.

## DUAL PLUMBED RESIDENTIAL PROPERTIES REQUIRING 1" FIRE SPRINKLER SERVICE

2016



Yucaipa Valley Water District

Approved by the Yucaipa  
Valley Water District Board of  
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| LIST OF MATERIALS |  |                                      |  |
|-------------------|--|--------------------------------------|--|
| ITEM NO.          | SIZE & DESCRIPTION   | MANUFACTURER                         | SPEC. NO.  |
| 1A                | DOUBLE STRAP SERVICE SADDLE<br>1" I.P. OUTLET (FOR D.I.P. MAINS)       | JONES<br>ROMAC<br>FORD<br>MUELLER    | J-979-PIPE O.D. -1" I.P.<br>202BS-PIPE O.D. -1" I.P.<br>202BS-PIPE O.D. -1" I.P.<br>BR2B-PIPE O.D. -I.P. 100 |
| 1B                | CAST SERVICE SADDLE WITH 1"<br>I.P. OUTLET (FOR D.I.P. MAINS)          | ROMAC<br>FORD<br>MUELLER             | 202S-PIPE O.D.-1" I.P.<br>F-202-PIPE O.D.-1" I.P.<br>DR2A-PIPE O.D.-I.P. 100                                 |
| 2                 | 1" BRONZE BALL CORPORATION<br>STOP<br>(M.I.P.T. X COMPRESSION)         | JONES<br>MULLER<br>McDONALD<br>FORD  | E-1935SG<br>H-15028N<br>74704BQ  |
| 3                 | 1" BLUE PLASTIC COATED COPPER<br>TUBING                                |                                      | COPPER TYPE "K" SOFT   |
| 4                 | BRONZE BALL ANGLE METER STOP<br>W/LOCKWING (1" COMPRESSION X<br>METER) | JONES<br>MUELLER<br>McDONALD<br>FORD | 1963WSG<br>H-14258N<br>74602BQ   |
| 5                 | 1" METER x 3" "METER SPUD"   | JONES                                | J-130  |
| 6                 | 1" MINIMUM - DOUBLE CHECK<br>BACKFLOW ASSEMBLY                         | AMES<br>FEBCO<br>WILKINS<br>ARI      | 2000SS<br>850<br>950XL<br>DC-500   |
| 7                 | 1" BRASS UNION   |                                      |  |
| 8                 | 1" "U"-BRANCH<br>(M.I.P.T. X M.I.P.T.)                                 | McDONALD                             | AYM-708UMM   |
| 9                 | 1" DOUBLE CHECK<br>(INLINE DOUBLE CHECK)                               | McDONALD                             | 711-4FE 44   |
| 10                | BALL VALVE WITH LOCKWING (F.I.P.<br>X F.I.P.)                          | JONES<br>MUELLER<br>McDONALD<br>FORD | E-1900W<br>B20283 N<br>AYM76101W   |
| 11                | METER BOX AND COVER WITH<br>READING LID                                | ARMOR CAST                           | A6001430PCX12 W/<br>(1)-A6001470 - COVER<br>(1)-A6001470DZ - COVER<br>(1)-A6000482                           |

## DUAL PLUMBED RESIDENTIAL PROPERTIES REQUIRING 1" FIRE SPRINKLER SERVICE

2016

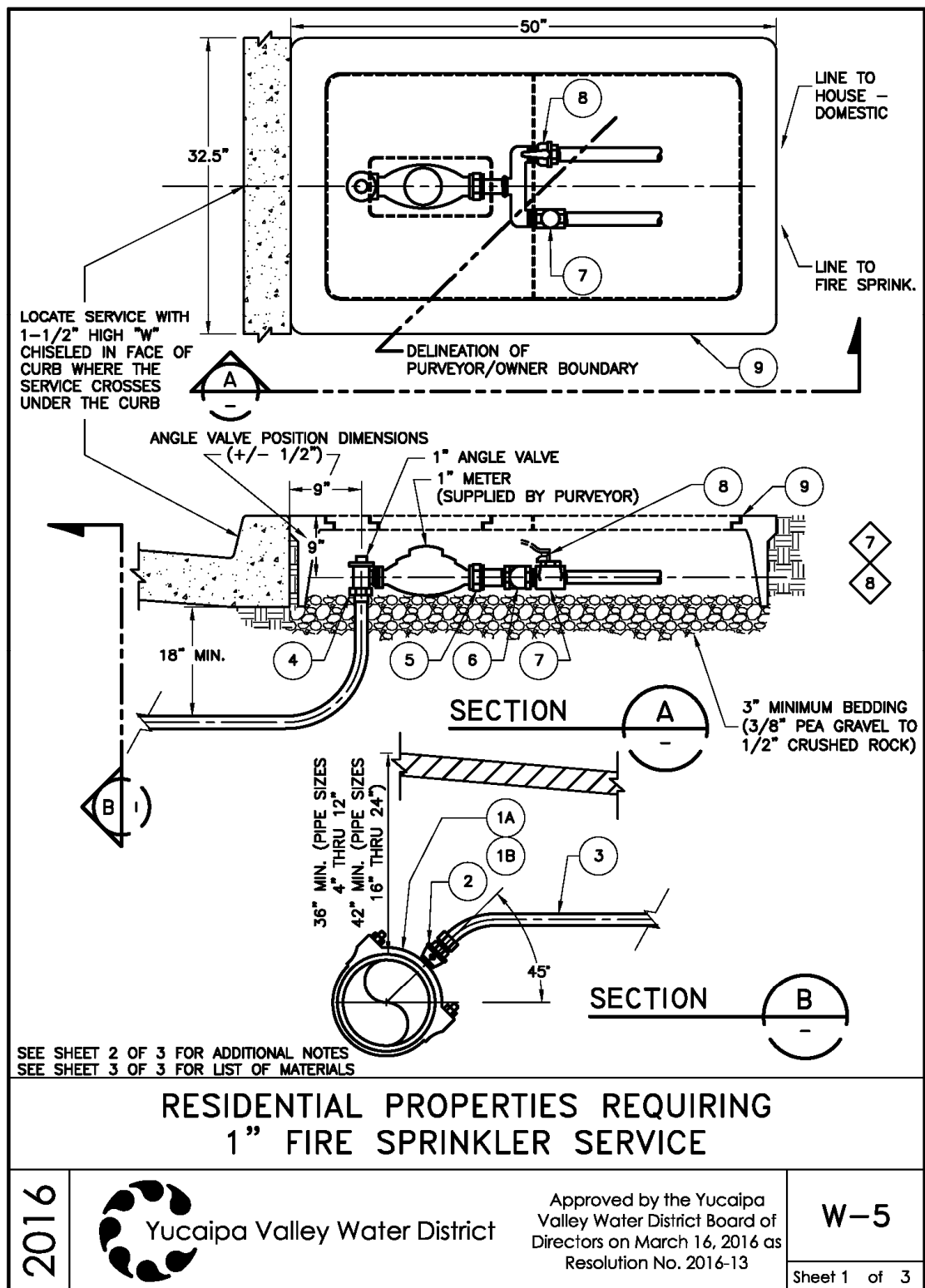


Yucaipa Valley Water District

Approved by the Yucaipa  
Valley Water District Board of  
Directors on March 16, 2016 as  
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**NOTES:**

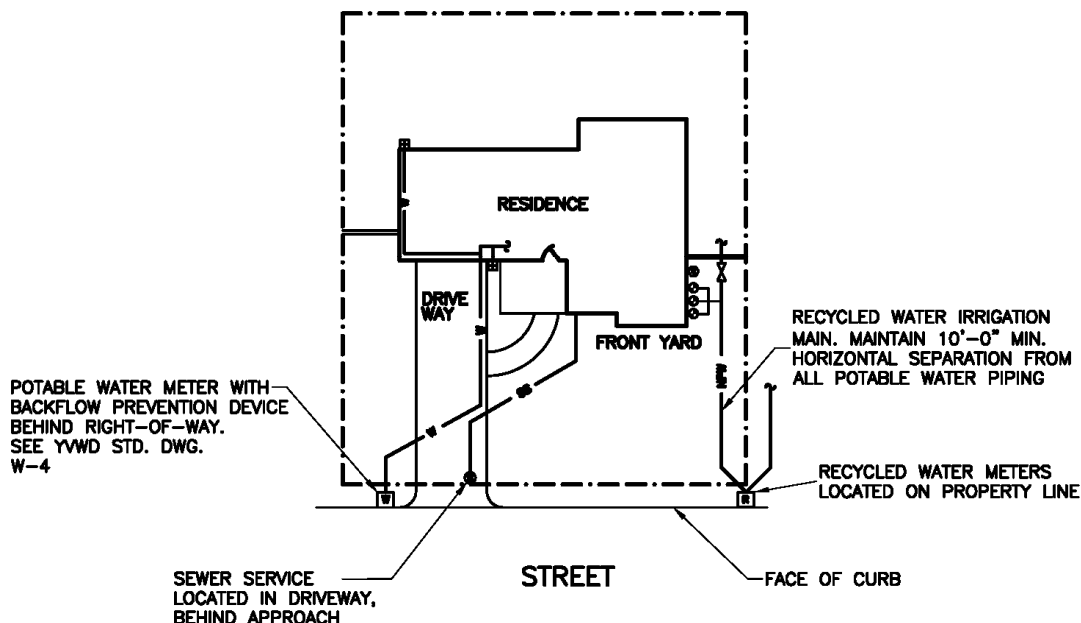
1. SERVICE SADDLE SHALL NOT BE INSTALLED WITHIN 12" OF VALVE, COUPLING, JOINT OR FITTING.
2. SET TOP OF METER BOX FLUSH WITH DRIVEWAY, SIDEWALK OR CURB, AS SHOWN.
3. THE CORPORATION STOP TAP SHALL BE MADE AT A 45° DEGREE ANGLE FROM THE TOP OF THE PIPE.
4. THE WATER SERVICE SHALL EXTEND PERPENDICULAR TO THE CENTERLINE OF THE STREET FROM THE WATER MAIN TO THE METER STOP.
5. ALL CONNECTIONS TO COPPER TUBING SHALL BE COMPRESSION FITTINGS.
6. METERS AND BRANCH ASSEMBLY TO BE CENTERED IN METER BOXES TO ALLOW FOR ACCESS AND MAINTENANCE



METER, CUSTOMER SHUT OFF VALVE, RANCH ASSEMBLY, LOCK OFF BALL VALVE, AND DUAL CHECK VALVE ARE TO BE PROVIDED BY THE PURVEYOR.



SUBJECT TO PURVEYOR REVIEW AND APPROVAL, THE METER AND METER BOX INCLUDING THE BRANCH ASSEMBLY MAY BE INSTALLED PARALLEL TO THE CURB IF NECESSARY.



## RESIDENTIAL PROPERTIES REQUIRING 1" FIRE SPRINKLER SERVICE

2016



Yucaipa Valley Water District

Approved by the Yucaipa Valley Water District Board of Directors on March 16, 2016 as Resolution No. 2016-13

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Sheet 2 of 3

| LIST OF MATERIALS |   |                                      |  |
|-------------------|---|--------------------------------------|--|
| ITEM NO.          | SIZE & DESCRIPTION  | MANUFACTURER                         | SPEC. NO.  |
| 1A                | DOUBLE STRAP SERVICE SADDLE<br>1" I.P. OUTLET (FOR D.I.P. MAINS)    | JONES<br>ROMAC<br>FORD<br>MUELLER    | J-979-PIPE O.D. -1" I.P.<br>202BS-PIPE O.D. -1" I.P.<br>202BS-PIPE O.D. -1" I.P.<br>BR2B-PIPE O.D. -I.P. 100 |
| 1B                | CAST SERVICE SADDLE WITH 1"<br>I.P. OUTLET (FOR D.I.P. MAINS)       | ROMAC<br>FORD<br>MUELLER             | 202S-PIPE O.D.-1" I.P.<br>F-202-PIPE O.D.-1" I.P.<br>DR2A-PIPE O.D.-I.P. 100                                 |
| 2                 | 1" BRONZE BALL CORPORATION<br>STOP (M.I.P.T. X COMPRESSION)         | JONES<br>MULLER<br>McDONALD<br>FORD  | E-1935SG<br>H15028N<br>74704BQ   |
| 3                 | 1" BLUE PLASTIC COATED COPPER<br>TUBING                             |                                      | COPPER TYPE "K" SOFT   |
| 4                 | BRONZE BALL ANGLE METER STOP<br>W/LOCKWING (1" COMPRESSION X METER) | JONES<br>MUELLER<br>McDONALD<br>FORD | 1963WSG<br>H14258N<br>74602BQ  |
| 5                 | 1" METER x 3" "METER SPUD"  | JONES                                | J-130  |
| 6                 | 1" "U"-BRANCH (M.I.P.T. X M.I.P.T.)                                 | McDONALD                             | AYM-708UMM   |
| 7                 | 1" DOUBLE CHECK (INLINE DOUBLE CHECK)                               | McDONALD                             | 711-4FE 44   |
| 8                 | BALL VALVE WITH LOCKWING (F.I.P. X F.I.P.)                          | JONES<br>MUELLER<br>McDONALD<br>FORD | E-1900W<br>B20283 N<br>AYM76101W   |
| 9                 | METER BOX AND COVER WITH<br>READING LID                             | ARMOR CAST                           | A6001430PCX12 W/<br>(1)-A6001470 - COVER<br>(1)-A6001470DZ - COVER<br>(1)-A6000482                           |

## RESIDENTIAL PROPERTIES REQUIRING 1" FIRE SPRINKLER SERVICE

2016

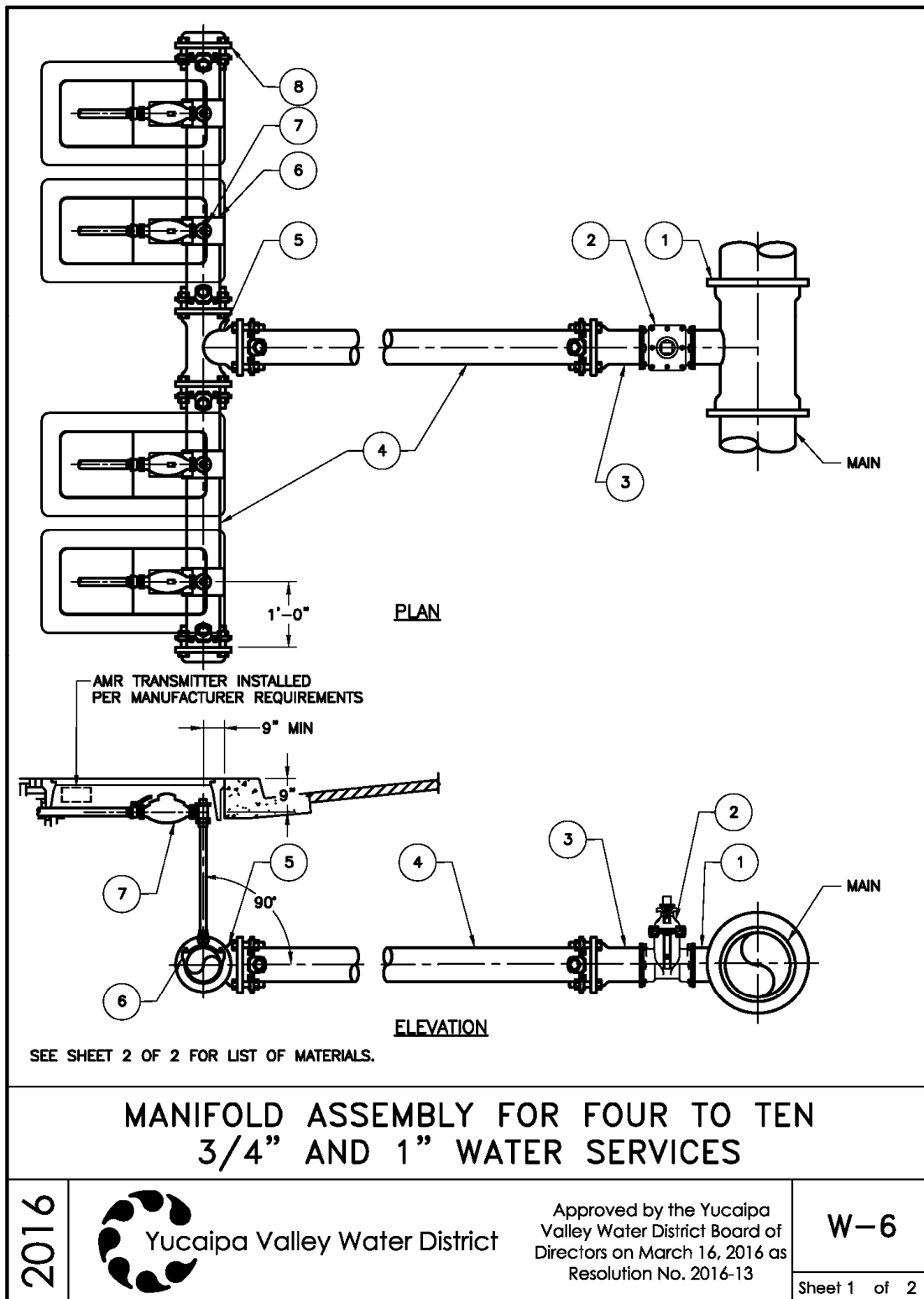


Yucaipa Valley Water District

Approved by the Yucaipa  
Valley Water District Board of  
Directors on March 16, 2016 as  
Resolution No. 2016-13

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### LIST OF MATERIALS

| ITEM<br>NUMBER | DESCRIPTION   |
|----------------|---|
| 1              | D.I. TEE, MJ X MJ X FLG, RESTRAINED   |
| 2              | 4" FLG X FLG VALVE  |
| 3              | MJ X FLG ADAPTOR, RESTRAINED  |
| 4              | 4" D.I.P. RESTRAINED  |
| 5              | D.I. TEE, MJ X MJ X MJ, RESTRAINED WITH<br>MEGA LUGS (SHORT BODY MAY BE USED) |
| 6              | CAST SERVICE SADDLE WITH I.P. OUTLET  |
| 7              | 1" COPPER SERVICE INSTALLATION – SEE<br>YVWD STD. DWG. W-5                    |
| 8              | RESTRAINED MECHANICAL JOINT END CAP<br>WITH MEGA LUG RESTRAINT                |

**NOTE:**

1. BACKFILL UNDER EXISTING CURB WITHIN CITY OF YUCAIPA, MUST BE 2 SACK SLURRY PER CITY STANDARDS.

### MANIFOLD ASSEMBLY FOR FOUR TO TEN 3/4" AND 1" WATER SERVICES

2016



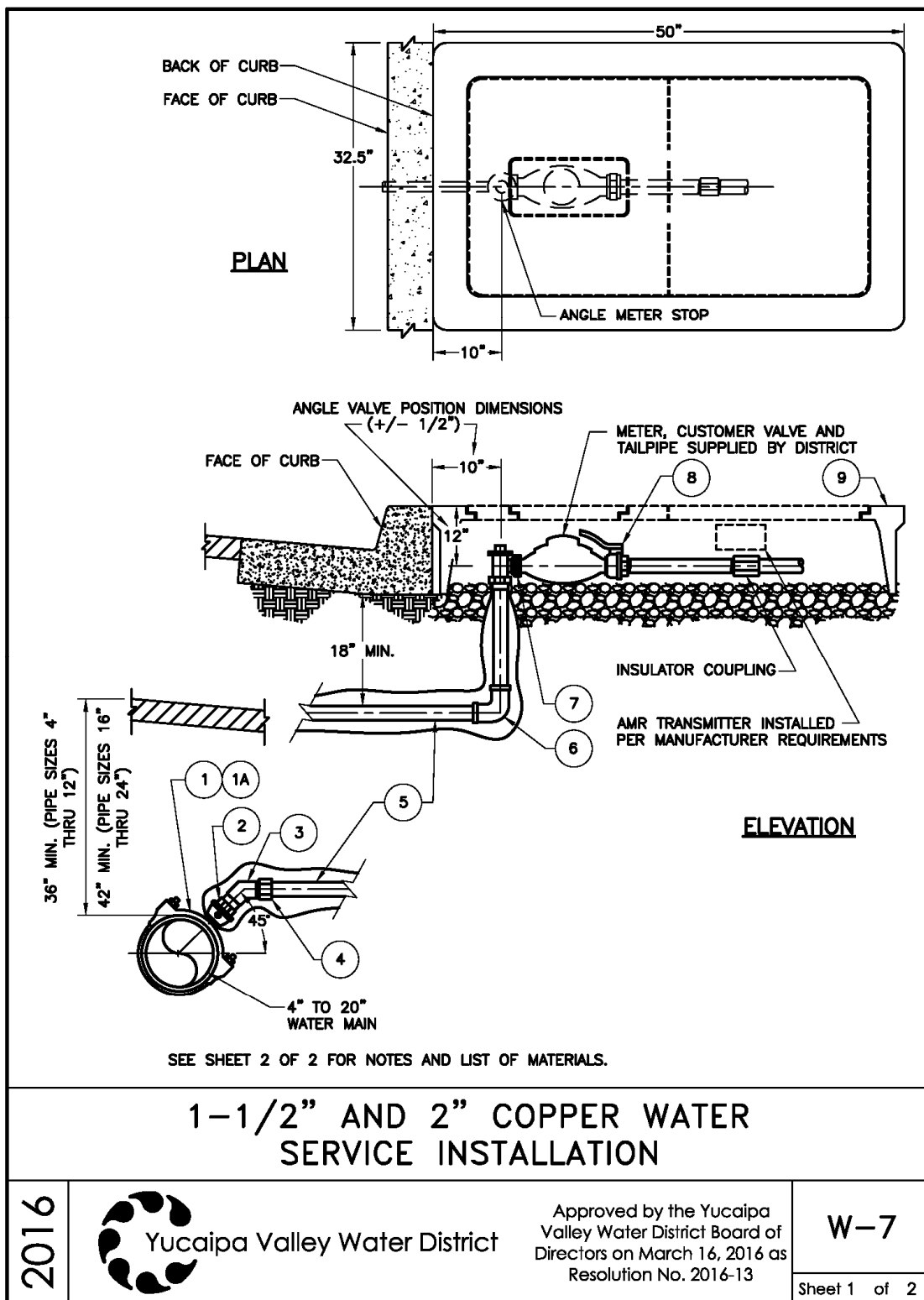
Yucaipa Valley Water District

Approved by the Yucaipa  
Valley Water District Board of  
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Resolution No. 2016-13

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**NOTES:**

1. SERVICE SADDLE SHALL NOT BE INSTALLED WITHIN 12" OF VALVE, COUPLING, JOINT OR FITTING.
2. POLY-SLEEVE (BLUE FOR POTABLE WATER, PURPLE FOR RECYCLED/IRRIGATION) SHALL BE SECURED AT THE CORP. AND THE ANGLE VALVE WITH 10 MIL. TAPE.
3. SET TOP OF METER BOX FLUSH WITH SIDEWALK OR CURB AS SHOWN.
4. THE CORPORATION STOP TAP SHALL BE MADE AT A 45° ANGLE FROM THE TOP OF THE PIPE.
5. THE WATER SERVICE SHALL EXTEND PERPENDICULAR TO THE CENTERLINE OF THE STREET FROM THE WATER MAIN TO THE METER STOP.
6. METER BOX SHALL BE SET BEHIND CURB WHERE SIDEWALK IS ADJACENT TO CURB, OR IN PARKWAY BETWEEN CURB AND SIDEWALK.
7. METER BOX READING LID FOR ALL RECLAIMED WATER SERVICE SHALL BE PAINTED PER SPECIFICATIONS.
8. A 1" BYPASS LINE WITH LOCKING CURB STOP MAY BE REQUIRED FOR INSTALLATIONS NEEDING CONTINUOUS SERVICE.
9. METER, CUSTOMER VALVE AND TAILPIPE TO BE PROVIDED BY THE DISTRICT.
10. BACKFILL UNDER EXISTING CURB WITHIN THE CITY OF YUCAIPA, MUST BE 2 SACK SLURRY PER CITY STANDARDS.

**LIST OF MATERIALS**

| ITEM NO. | SIZE & DESCRIPTION   | MANUFACTURER             | SPEC. NO.   |
|----------|--|--------------------------|---|
| 1        | DOUBLE STRAP SERVICE SADDLE I.P. OUTLET (FOR D.I.P. MAINS)                           | JONES ROMAC FORD MUELLER | J-979-PIPE O.D.-2" I.P.<br>202BS-PIPE O.D.-2" I.P.<br>202B-PIPE O.D.-2" I.P.<br>BR2B-PIPE O.D.-I.P. 200 |
| 1A       | CAST SERVICE SADDLE WITH I.P. OUTLET (FOR D.I.P. MAINS)                              | ROMAC FORD MUELLER       | 202S-PIPE O.D.-2" I.P.<br>F-202-PIPE O.D.-2" I.P.<br>DR2A-PIPE O.D.-I.P. 200                            |
| 2        | BRONZE CORPORATION STOP MIPT X MIPT  | JONES MUELLER FORD       | J-1943<br>B-2969<br>FB500-7   |
| 3        | BRASS 45° ELBOW 2" X 2" F.I.P.T. X F.I.P.T.  | -                        | -   |
| 4        | M.I.P.T. X COMPRESSION ADAPTOR   | JONES MUELLER FORD       | J-2805<br>H-15428<br>CB4-77   |
| 5        | 2" COPPER PIPE/POLY SLEEVED  | -                        | -   |
| 6        | BRASS 90° ELBOW 2" X 2" COMPRESSION X COMPRESSION.                                   | JONES MUELLER            | J-2611<br>H-15526   |
| 7        | BRONZE ANGLE METER STOP W/LOCKWING F.I.P. X FLANGE 1 1/2" THRU 2" COMBO ANGLE VALVE. | MUELLER                  | H14286N   |
| 8        | BRONZE CUSTOMER SERVICE VALVE-METER FLANGE X F.I.P.                                  | JONES FORD               | J-1913<br>BF13-777<br>W/HH-67   |
| 9        | METER BOX W/READING LID  | ARMORCAST                | A6001430PCX12 W/<br>(1)-A6001470 - COVER<br>(1)-A6001470DZ - COVER<br>(1)-A6000482                      |

## 1-1/2" THRU 2" COPPER WATER SERVICE INSTALLATION

2016

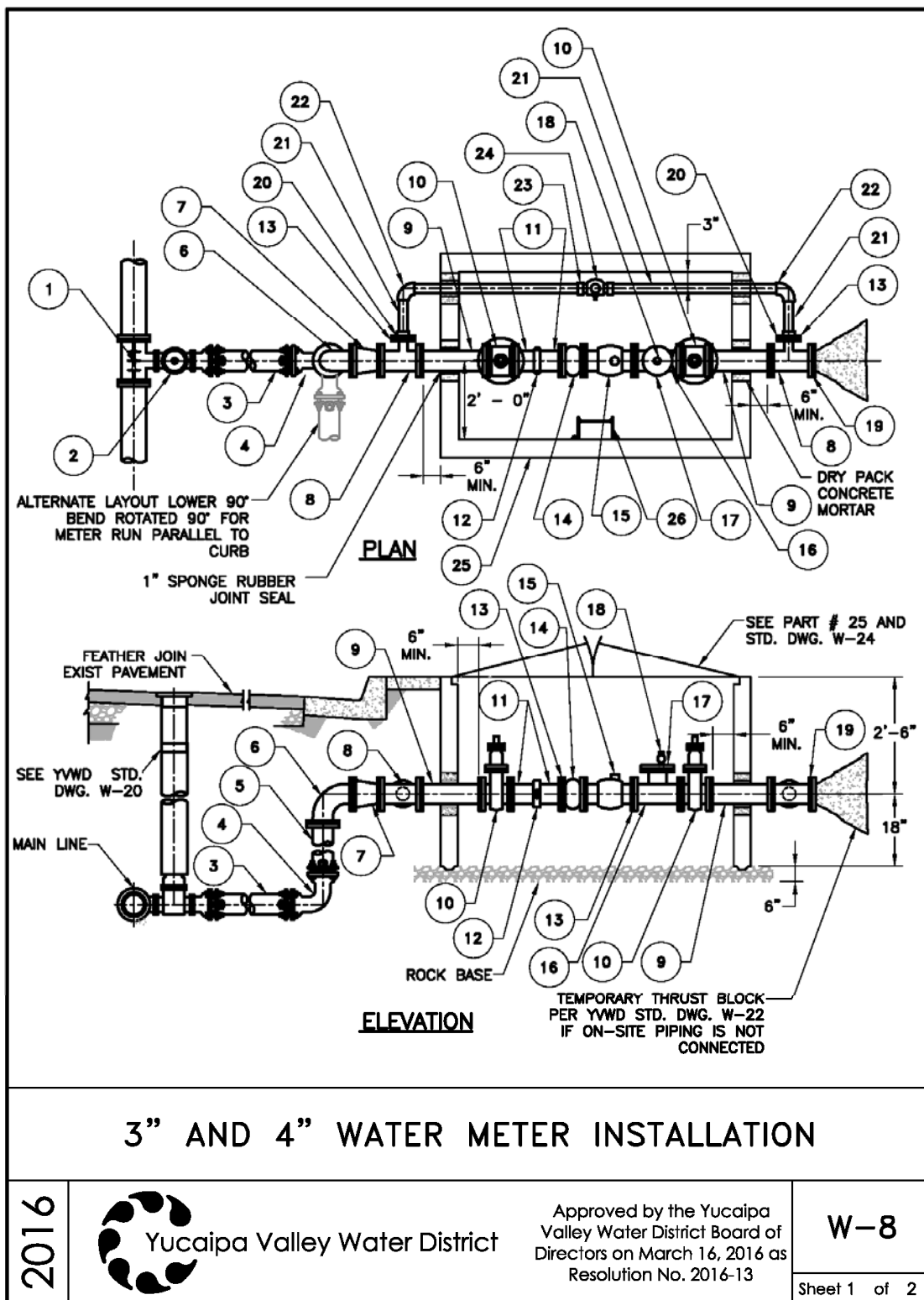


Yucaipa Valley Water District

Approved by the Yucaipa  
Valley Water District Board of  
Directors on March 16, 2016 as  
Resolution No. 2016-13

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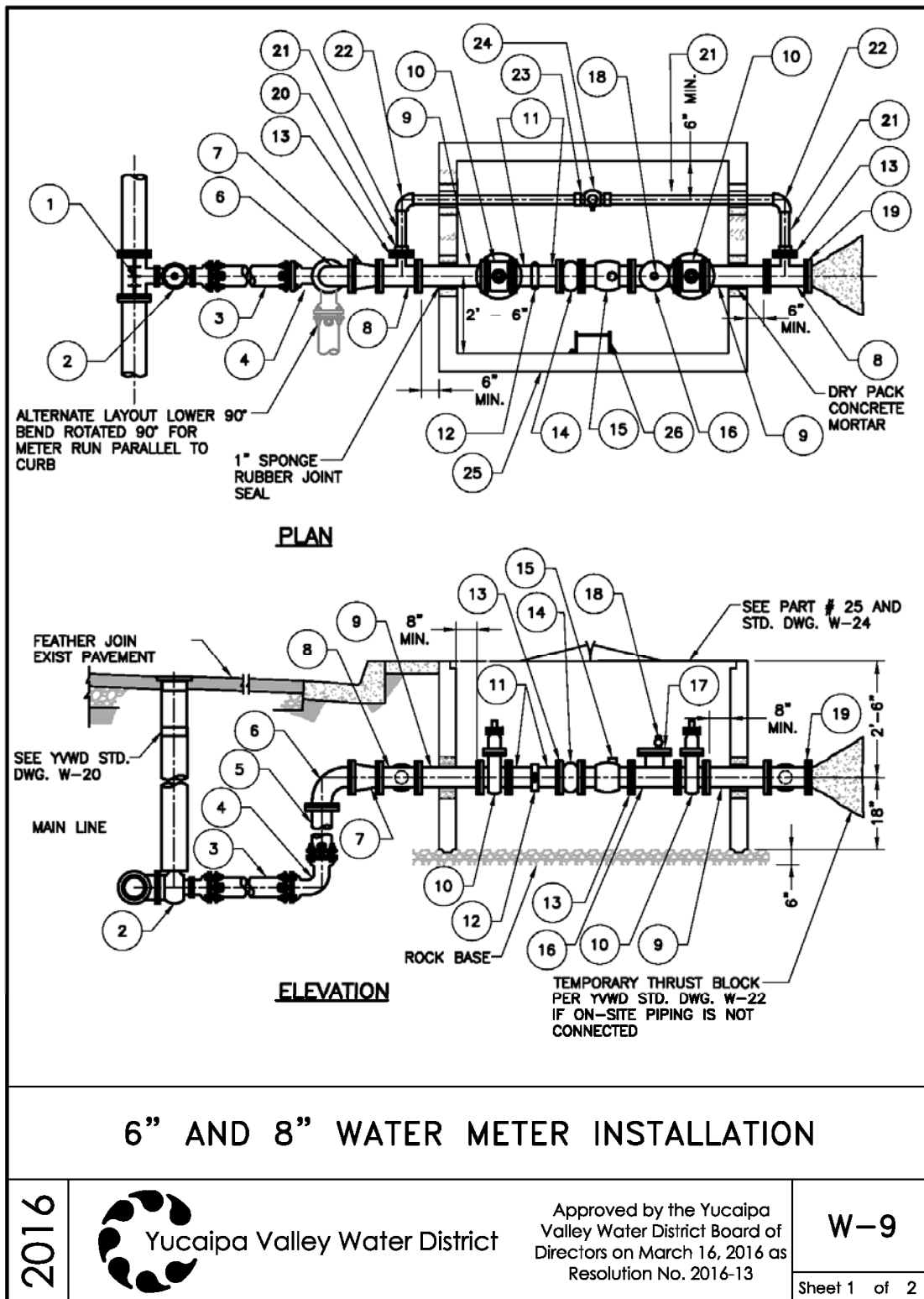
| LIST OF MATERIALS |          |  |
|-------------------|----------|--|
| ITEM              | QUANTITY | DESCRIPTION  |
| 1                 | 1 EA     | SIZE X 4" TAPPING SLEEVE (USE MJ X FLG. TEE IF HOT TAP IS NOT REQUIRED).   |
| 2                 | 1 EA     | 4" FLG. X FLG. TAPPING VALVE (USE RW OR GATE VALVE IF HOT TAP IS NOT REQUIRED).  |
| 3                 | AS REQ'D | 4" D.I. PIPE LATERAL, RESTRAINED JOINTS  |
| 4                 | 1 EA     | 4" D.I. 90° ELL, MJ. X MJ (IF REQUIRED).   |
| 5                 | 2 EA     | 4" D.I. HALF SPOOL – FLG. X PLAIN END (IF REQUIRED)  |
| 6                 | 1 EA     | 4" D.I. 90° ELL, FLG. X FLG (IF REQUIRED).   |
| 7                 | 1 EA     | 4" X 3" D.I. REDUCER FLG. X FLG. (FOR 3" SERVICE ONLY)   |
| 8                 | 2 EA     | METER SIZE FLANGED D.I. TEE  |
| 9                 | 2 EA     | FLG x FLG. D.I. SPOOL – METER SIZE X 2'-6"   |
| 10                | 2 EA     | RW OR GATE VALVE FLG. X FLG.   |
| 11                | 2 EA     | D.I.P. HALF SPOOL, VICTAULIC X FLG., 6" LENGTH   |
| 12                | 1 EA     | GROOVED-END COUPLING (VICTAULIC)   |
| 13                | 4 EA     | BOLT AND FLANGE INSULATING KIT   |
| 14                | 1 EA     | STRAINER (BY DISTRICT)   |
| 15                | 1 EA     | METER (BY DISTRICT)  |
| 16                | 1 EA     | METER SIZE D.I. TEE – FLANGED  |
| 17                | 2 EA     | METER-SIZE D.I. COMPANION FLANGE TAPPED FOR 2" I.P.  |
| 18                | 1 EA     | 2" CORPORATION STOP – MIP X MIP  |
| 19                | 1 EA     | D.I. BLIND FLANGE  |
| 20                | 2 EA     | METER SIZE COMPANION FLANGE WITH 2" THREADED I.P. OUTLET   |
| 21                | AS REQ'D | 2" GALVANIZED PIPE   |
| 22                | 2 EA     | 2" 90° ELBOW   |
| 23                | 1 EA     | 2" UNION   |
| 24                | 1 EA     | 2" BALL VALVE WITH LOCKING WING – F.I.P. X F.I.P.  |
| 25                | 1 EACH   | PRECAST CONCRETE VAULT WITH SPRING ASSIST HINGED DIAMOND PLATE ALUMINUM COVER AND RECESSED LOCKING HASP. PROVIDE 6" x 12" HINGED READING LID INSTALLED OVER METER REGISTER. (REFER TO YVWD STD. DWG. W-24) |
| 26                | 1 EA     | GALV. STEEL LADDER ( ALHAMBRA FOUNDRY A3400 )<br>W/LADDER – UP AND S.S. ANCHOR BOLTS.  |

**NOTES:**

1. VAULT SHOWN IS FOR PARKWAY USE ONLY. FOR TRAFFIC LOADING AND OTHER REQUIREMENTS, CONTACT DISTRICT REPRESENTATIVE.
2. VAULT COVER TO BE SET TO CONFORM TO PARKWAY GRADE.
3. WHEN A BY-PASS LINE IS NOT REQUIRED, DO NOT INSTALL ITEMS 21 TO 24.
4. BACKFILL UNDER EXISTING CURB WITHIN THE CITY OF YUCAIPA, MUST BE 2 SACK SLURRY PER CITY STANDARDS.

## 3" AND 4" WATER METER INSTALLATION

|      |   |  |                                |
|------|---|--|--------------------------------|
| 2016 |  Yucaipa Valley Water District | Approved by the Yucaipa Valley Water District Board of Directors on March 16, 2016 as Resolution No. 2016-13 | <b>W-8</b><br><br>Sheet 2 of 2 |
|------|---|--|--------------------------------|




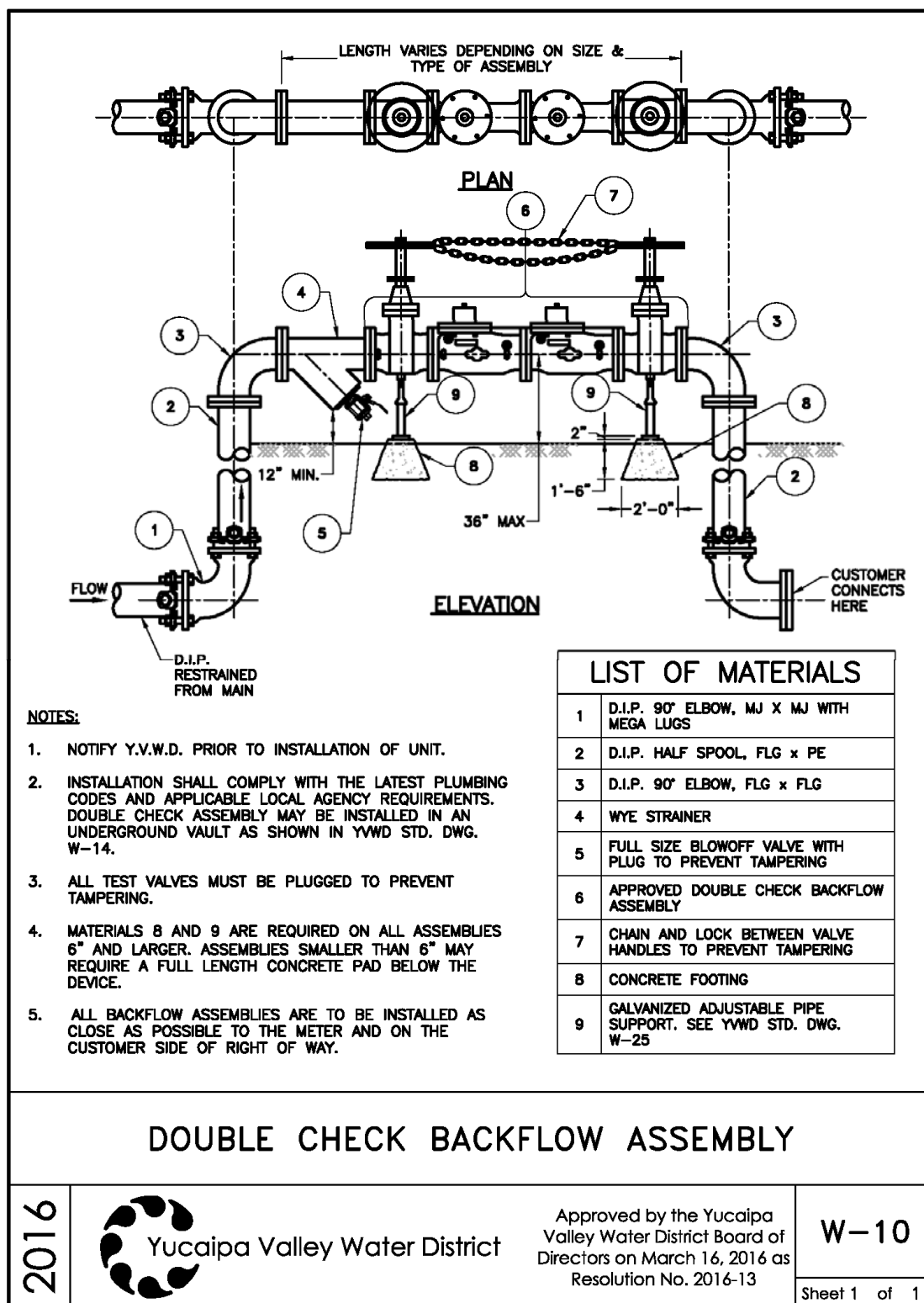
| LIST OF MATERIALS |          |  |
|-------------------|----------|--|
| ITEM              | QUANTITY | DESCRIPTION  |
| 1                 | 1 EA     | SIZE X 8" TAPPING SLEEVE (USE MJ X FLG. TEE IF HOT TAP IS NOT REQUIRED).   |
| 2                 | 1 EA     | 8" FLG. X FLG. TAPPING VALVE (USE RW OR GATE VALVE IF HOT TAP IS NOT REQUIRED).  |
| 3                 | AS REQ'D | 8" D.I. PIPE LATERAL, RESTRAINED JOINTS  |
| 4                 | 1 EA     | 8" D.I. 90° ELL, MJ. X MJ (IF REQUIRED).   |
| 5                 | 2 EA     | 8" D.I. HALF SPOOL – FLG. X PLAIN END (IF REQUIRED)  |
| 6                 | 1 EA     | 8" D.I. 90° ELL, FLG. X FLG (IF REQUIRED).   |
| 7                 | 1 EA     | 8" X 6" D.I. REDUCER FLG. X FLG. (FOR 6" SERVICE ONLY)   |
| 8                 | 2 EA     | METER SIZE FLANGED D.I. TEE  |
| 9                 | 2 EA     | FLG x FLG. D.I. SPOOL – METER SIZE X 2'-6"   |
| 10                | 2 EA     | RW OR GATE VALVE FLG. X FLG.   |
| 11                | 2 EA     | D.I.P. HALF SPOOL, VICTAULIC X FLG., 6" LENGTH   |
| 12                | 1 EA     | GROOVED-END COUPLING (VICTAULIC)   |
| 13                | 4 EA     | BOLT AND FLANGE INSULATING KIT   |
| 14                | 1 EA     | STRAINER (BY DISTRICT)   |
| 15                | 1 EA     | METER (BY DISTRICT)  |
| 16                | 1 EA     | METER SIZE D.I. TEE – FLANGED  |
| 17                | 2 EA     | METER-SIZE D.I. COMPANION FLANGE TAPPED FOR 2" I.P.  |
| 18                | 1 EA     | 2" CORPORATION STOP – MIP X MIP  |
| 19                | 1 EA     | D.I. BLIND FLANGE  |
| 20                | 2 EA     | METER SIZE COMPANION FLANGE WITH 2" THREADED I.P. OUTLET   |
| 21                | AS REQ'D | 2" GALVANIZED PIPE   |
| 22                | 2 EA     | 2" 90° ELBOW   |
| 23                | 1 EA     | 2" UNION   |
| 24                | 1 EA     | 2" BALL VALVE WITH LOCKING WING – F.I.P. X F.I.P.  |
| 25                | 1 EACH   | PRECAST CONCRETE VAULT WITH SPRING ASSIST HINGED DIAMOND PLATE ALUMINUM COVER AND RECESSED LOCKING HASP. PROVIDE 6" x 12" HINGED READING LID INSTALLED OVER METER REGISTER. (REFER TO YVWD STD. DWG. W-24) |
| 26                | 1 EA     | GALV. STEEL LADDER ( ALHAMBRA FOUNDRY A3400 )<br>W/LADDER – UP AND S.S. ANCHOR BOLTS.  |

**NOTES:**

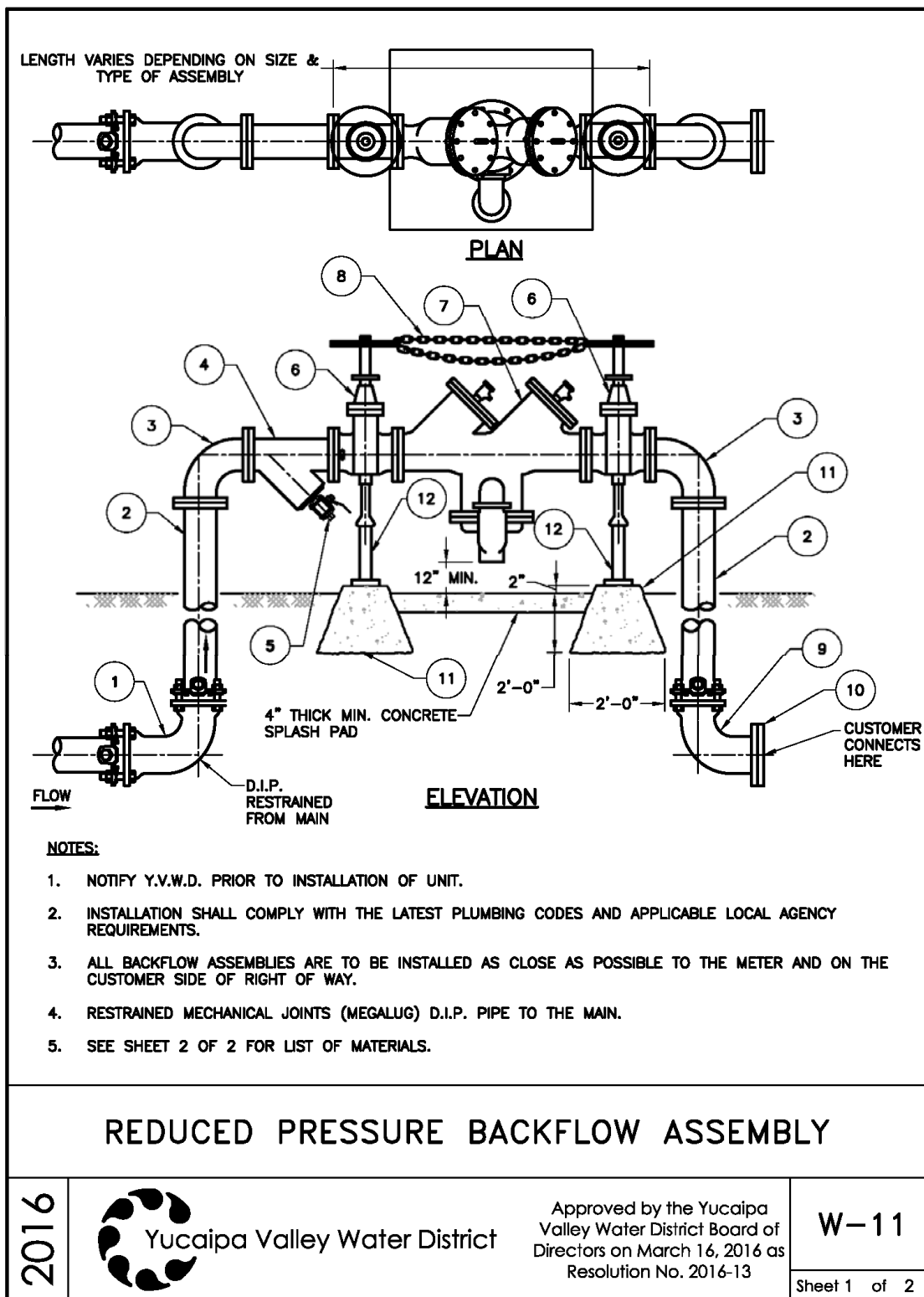
1. VAULT SHOWN IS FOR PARKWAY USE ONLY. FOR TRAFFIC LOADING AND OTHER REQUIREMENTS, CONTACT DISTRICT REPRESENTATIVE.
2. VAULT COVER TO BE SET TO CONFORM TO PARKWAY GRADE.
3. WHEN A BY-PASS LINE IS NOT REQUIRED, DO NOT INSTALL ITEMS 21 TO 24.
4. BACKFILL UNDER EXISTING CURB WITHIN THE CITY OF YUCAIPA, MUST BE 2 SACK SLURRY PER CITY STANDARDS.

**6" AND 8" WATER METER INSTALLATION**

|             |  |  |                                |
|-------------|--|--|--------------------------------|
| <b>2016</b> |  <b>Yucaipa Valley Water District</b> | Approved by the Yucaipa Valley Water District Board of Directors on March 16, 2016 as Resolution No. 2016-13 | <b>W-9</b><br><br>Sheet 2 of 2 |
|-------------|--|--|--------------------------------|







### LIST OF MATERIALS

|    |  |
|----|--|
| 1  | D.I.P. 90° ELBOW, MJ X MJ WITH MEGA LUGS                           |
| 2  | D.I.P. HALF SPOOL, FLG X PE  |
| 3  | D.I.P. 90° ELBOW, FLG x FLG  |
| 4  | WYE STRAINER   |
| 5  | FULL SIZE BLOWOFF VALVE WITH PLUG TO PREVENT TAMPERING             |
| 6  | U.S.C.-APPROVED SHUT-OFF VALVES. SEE SPECIFICATIONS FOR ASSEMBLY   |
| 7  | APPROVED REDUCED PRESSURE BACKFLOW ASSEMBLY (SIZE PER REQUIREMENT) |
| 8  | CHAIN AND LOCK BETWEEN VALVE HANDLES TO PREVENT TAMPERING          |
| 9  | D.I.P. 90° ELBOW, MJ X FLG WITH MEGA LUG                           |
| 10 | BLIND FLANGE IF NOT CONNECTING IMMEDIATELY AFTER INSTALL OF DEVICE |
| 11 | CONCRETE FOOTING   |
| 12 | GALVANIZED ADJUSTABLE PIPE SUPPORT. SEE YVWD STD. DWG. W-25        |

### REDUCED PRESSURE BACKFLOW ASSEMBLY

2016

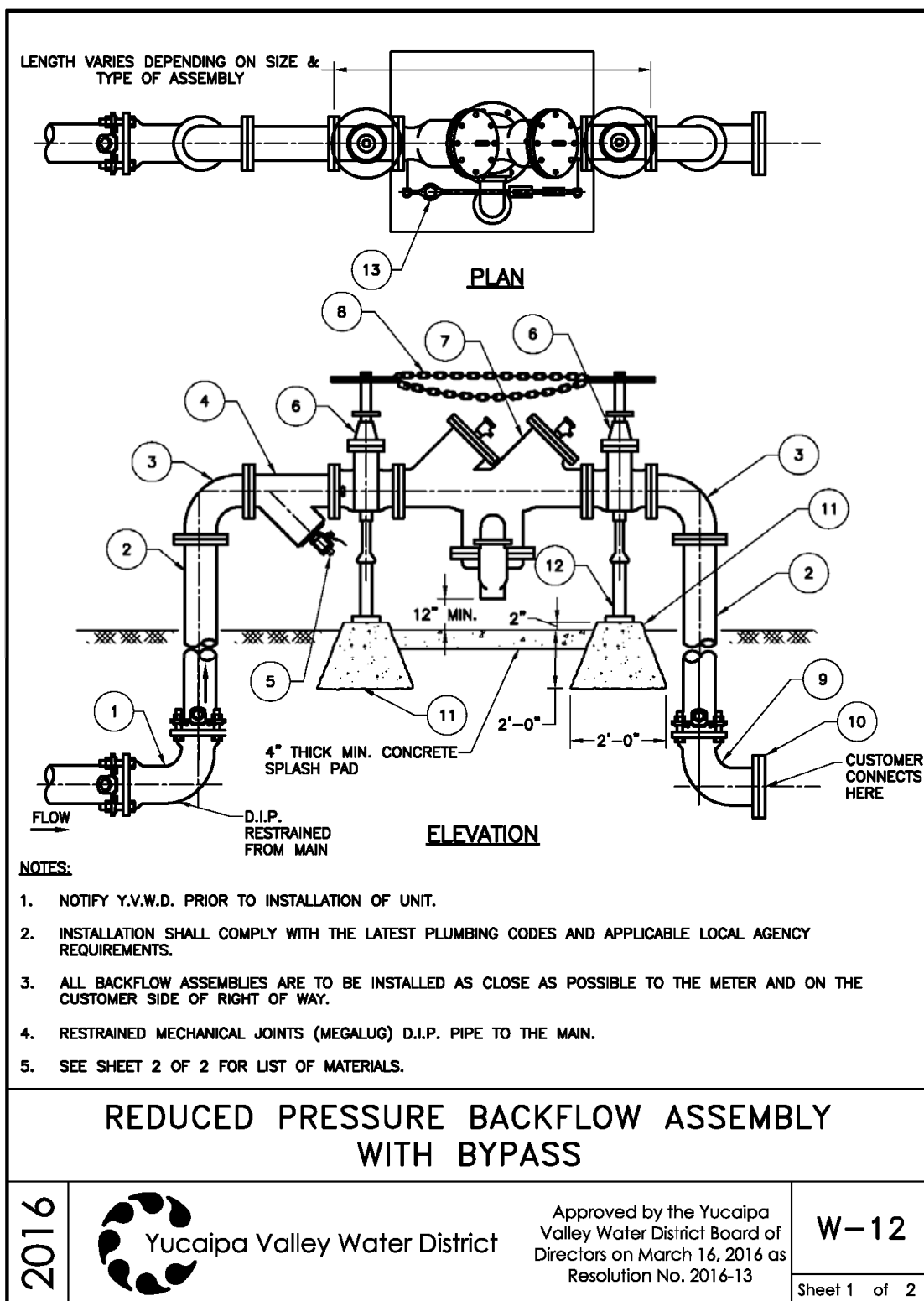


Yucaipa Valley Water District

Approved by the Yucaipa  
Valley Water District Board of  
Directors on March 16, 2016 as  
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| LIST OF MATERIALS |  |
|-------------------|--|
| 1                 | D.I.P. 90° ELBOW, MJ X MJ WITH MEGA LUGS   |
| 2                 | D.I.P. HALF SPOOL, FLG X PE  |
| 3                 | D.I.P. 90° ELBOW, FLG x FLG  |
| 4                 | WYE STRAINER   |
| 5                 | FULL SIZE BLOWOFF VALVE WITH PLUG TO PREVENT TAMPERING   |
| 6                 | U.S.C.-APPROVED SHUT-OFF VALVES. SEE SPECIFICATIONS FOR ASSEMBLY   |
| 7                 | APPROVED REDUCED PRESSURE BACKFLOW ASSEMBLY (SIZE PER REQUIREMENT)   |
| 8                 | CHAIN AND LOCK BETWEEN VALVE HANDLES TO PREVENT TAMPERING  |
| 9                 | D.I.P. 90° ELBOW, MJ X FLG WITH MEGA LUG   |
| 10                | BLIND FLANGE IF NOT CONNECTING IMMEDIATELY AFTER INSTALL OF DEVICE   |
| 11                | CONCRETE FOOTING   |
| 12                | GALVANIZED ADJUSTABLE PIPE SUPPORT. SEE YVWD STD. DWG. W-25  |
| 13                | FACTORY INSTALLED BY-PASS METER ASSEMBLY CONSISTING OF APPRIVED POSITIVE DISPLACEMENT METER, DOUBLE CHECK VALVE AND ASSOCIATED PIPING. BY-PASS METER TO BE SUPPLIED BY THE DISTRICT. |

|    |  |
|----|--|
| 1  | D.I.P. 90° ELBOW, MJ X MJ WITH MEGA LUGS   |
| 2  | D.I.P. HALF SPOOL, FLG X PE  |
| 3  | D.I.P. 90° ELBOW, FLG x FLG  |
| 4  | WYE STRAINER   |
| 5  | FULL SIZE BLOWOFF VALVE WITH PLUG TO PREVENT TAMPERING   |
| 6  | U.S.C.-APPROVED SHUT-OFF VALVES. SEE SPECIFICATIONS FOR ASSEMBLY   |
| 7  | APPROVED REDUCED PRESSURE BACKFLOW ASSEMBLY (SIZE PER REQUIREMENT)   |
| 8  | CHAIN AND LOCK BETWEEN VALVE HANDLES TO PREVENT TAMPERING  |
| 9  | D.I.P. 90° ELBOW, MJ X FLG WITH MEGA LUG   |
| 10 | BLIND FLANGE IF NOT CONNECTING IMMEDIATELY AFTER INSTALL OF DEVICE   |
| 11 | CONCRETE FOOTING   |
| 12 | GALVANIZED ADJUSTABLE PIPE SUPPORT. SEE YVWD STD. DWG. W-25  |
| 13 | FACTORY INSTALLED BY-PASS METER ASSEMBLY CONSISTING OF APPRIVED POSITIVE DISPLACEMENT METER, DOUBLE CHECK VALVE AND ASSOCIATED PIPING. BY-PASS METER TO BE SUPPLIED BY THE DISTRICT. |

## REDUCED PRESSURE BACKFLOW ASSEMBLY WITH BYPASS

2016

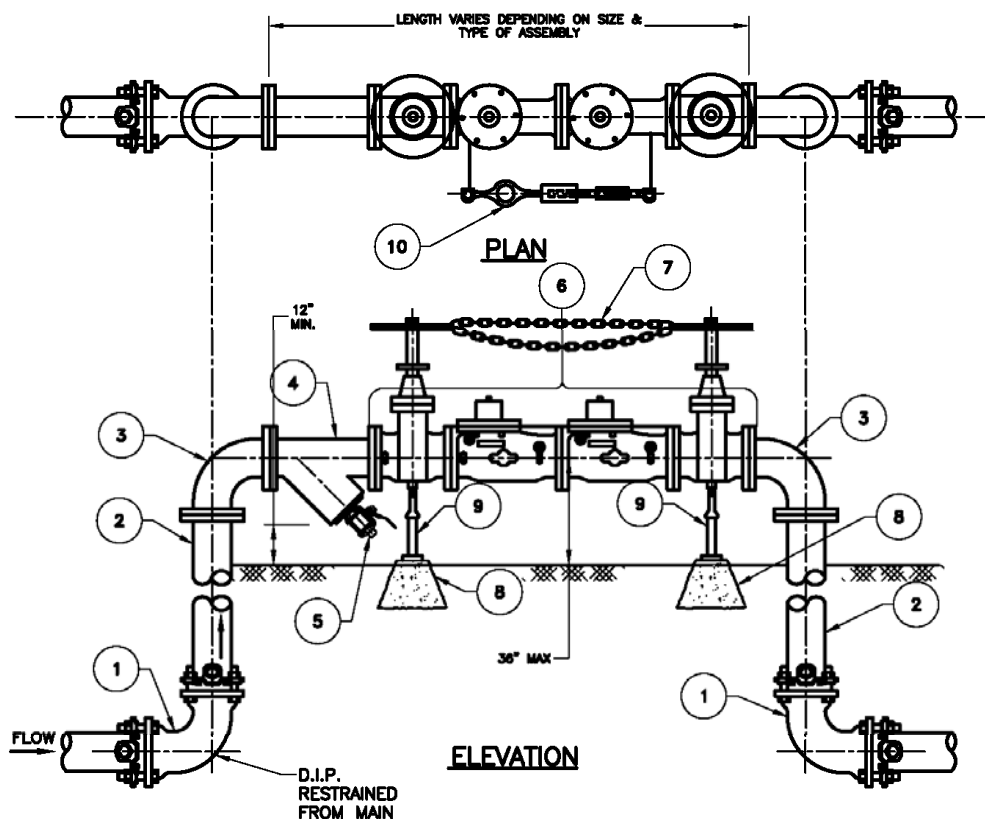


Yucaipa Valley Water District

Approved by the Yucaipa  
Valley Water District Board of  
Directors on March 16, 2016 as  
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**NOTES:**

1. NOTIFY Y.V.W.D. PRIOR TO INSTALLATION OF UNIT.
2. INSTALLATION SHALL COMPLY WITH THE LATEST PLUMBING CODES AND APPLICABLE LOCAL AGENCY REQUIREMENTS.
3. DOUBLE CHECK ASSEMBLIES MAY BE INSTALLED UNDERGROUND AS SHOWN IN STANDARD DRAWING W-14. RP ASSEMBLIES MAY NOT BE INSTALLED WITHIN A VAULT. ABOVE GROUND ONLY.
4. ALL TEST VALVES MUST BE PLUGGED TO PREVENT TAMPERING.
5. MATERIALS 8 AND 9 ARE REQUIRED ON ALL ASSEMBLIES 6" AND LARGER. ASSEMBLIES SMALLER THAN 6" MAY REQUIRE A FULL LENGTH CONCRETE PAD BELOW THE DEVICE.
6. ALL BACKFLOW ASSEMBLIES ARE TO BE INSTALLED AS CLOSE AS POSSIBLE TO THE METER AND ON THE CUSTOMER SIDE OF RIGHT OF WAY.
7. SEE SHEET 2 OF 2 FOR LIST OF MATERIALS.

## DOUBLE CHECK OR REDUCED PRESSURE DETECTOR ASSEMBLY ABOVE GROUND FIRE LINE

2016



Yucaipa Valley Water District

Approved by the Yucaipa  
Valley Water District Board of  
Directors on March 16, 2016 as  
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Sheet 1 of 2

### LIST OF MATERIALS

|    |  |
|----|--|
| 1  | D.I.P. 90° ELBOW, MJ X MJ WITH MEGA LUGS   |
| 2  | D.I.P. HALF SPOOL, FLG x PE  |
| 3  | D.I.P. 90° ELBOW, FLG x FLG  |
| 4  | WYE STRAINER   |
| 5  | FULL SIZE BLOWOFF VALVE WITH PLUG TO PREVENT TAMPERING   |
| 6  | APPROVED DOUBLE CHECK BACKFLOW ASSEMBLY  |
| 7  | CHAIN AND LOCK BETWEEN VALVE HANDLES TO PREVENT TAMPERING  |
| 8  | CONCRETE FOOTING   |
| 9  | GALVANIZED ADJUSTABLE PIPE SUPPORT. SEE YVWD STD. DWG. W-25.   |
| 10 | FACTORY INSTALLED BY-PASS METER ASSEMBLY CONSISTING OF APPROVED POSITIVE DISPLACEMENT METER, DOUBLE CHECK VALVE AND ASSOCIATED PIPING. BY-PASS METER TO BE SUPPLIED BY THE DISTRICT. |

### DOUBLE CHECK OR REDUCED PRESSURE DETECTOR ASSEMBLY ABOVE GROUND FIRE LINE

2016

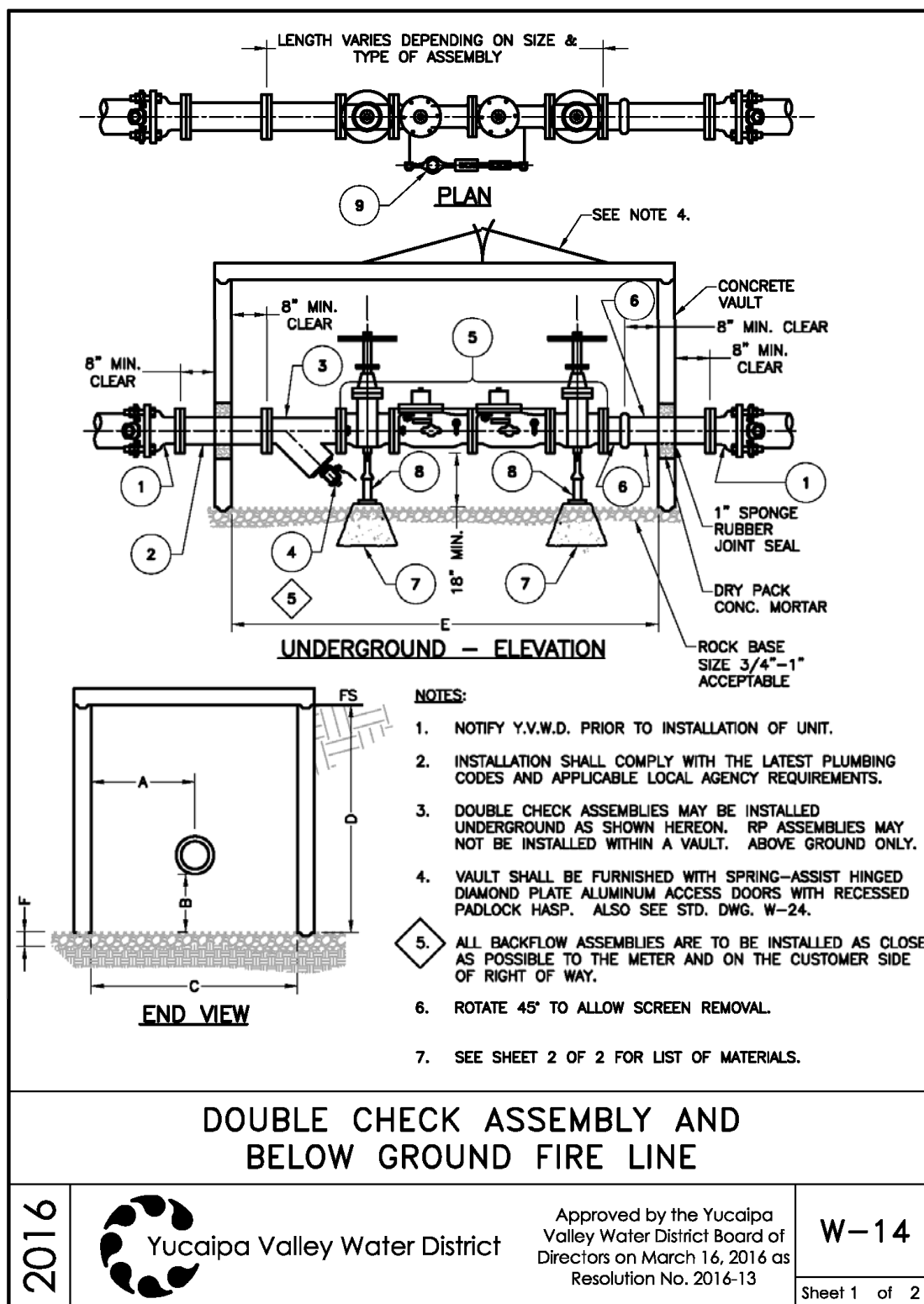


Yucaipa Valley Water District

Approved by the Yucaipa  
Valley Water District Board of  
Directors on March 16, 2016 as  
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### LIST OF MATERIALS

|   |   |
|---|---|
| 1 | MJ X FLG ADAPTOR WITH MEGA LUG  |
| 2 | D.I.P. SPOOL, FLG X FLG   |
| 3 | WYE STRAINER  |
| 4 | FULL SIZE BLOWOFF VALVE WITH PLUG TO PREVENT TAMPERING  |
| 5 | APPROVED DOUBLE CHECK BACKFLOW ASSEMBLY   |
| 6 | D.I.P. HALF SPOOL, VICTAULIC X FLG  |
| 7 | CONCRETE FOOTING  |
| 8 | GALVANIZED ADJUSTABLE PIPE SUPPORT, SEE YVWD STD. DWG. W-25   |
| 9 | FACTORY INSTALLED BY-PASS METER ASSEMBLY CONSISTING OF APPROVED POSITIVE DISPLACEMENT METER, DOUBLE CHECK VALVE AND ASSOCIATED PIPING. BY-PASS METER TO BE SUPPLIED BY THE DISTRICT |

### UNDERGROUND INSTALLATIONS

| PIPE SIZE | A   | B   | C  | D  | E   | F  | VAULT DIM |
|-----------|-----|-----|----|----|-----|----|-----------|
| 2"        | 24" | 18" | 4' | 5' | 4'  | 6" | 4'x4'     |
| 4"        | 24" | 18" | 4' | 5' | 6'  | 6" | 4'x6'     |
| 6"        | 24" | 18" | 4' | 5' | 8'  | 6" | 4'x8'     |
| 8"        | 24" | 18" | 4' | 5' | 12' | 6" | 4'x12'    |
| 10"       | 24" | 8"  | 4' | 5' | 12' | 6" | 4'x12'    |

### DOUBLE CHECK ASSEMBLY AND BELOW GROUND FIRE LINE

2016

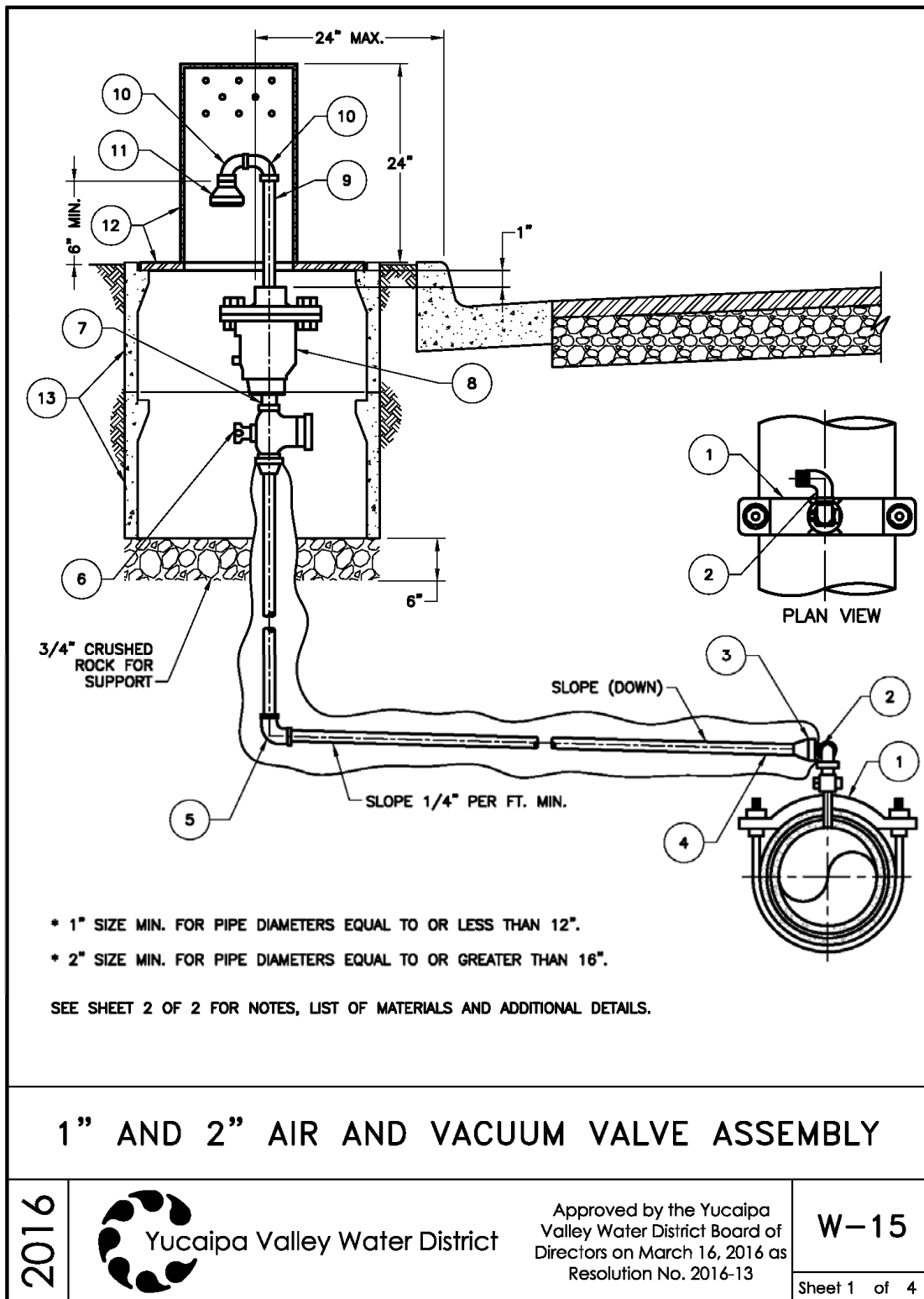


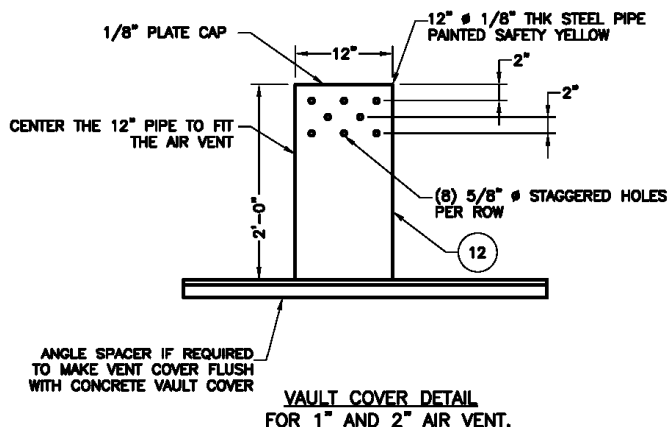
Yucaipa Valley Water District

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## LIST OF MATERIAL

| ITEM NO. | SIZE & DESCRIPTION   | MANUFACTURER       | SPEC. NO.                    |
|----------|--|--------------------|------------------------------|
| 1        | CONNECTION PER YVWD STD. DWG W-5 OR DWG. W-7 OFF THE TOP   | -                  | -                            |
| 2        | CORPORATION STOP WITH 2-90° ELBOW SWING JOINTS, BRASS  | -                  | -                            |
| 3        | F.I.P. X COMPRESSION ADAPTOR   | FORD JONES MUELLER | C14-44<br>J-2807<br>H-15451  |
| 4        | TYPE "K" COPPER TUBING, POLY SLEEVED   |                    |                              |
| 5        | COMPRESSION X COMPRESSION 90° ELBOW  | JONES MUELLER      | J-2611<br>H-15526            |
| 6        | CURB VALVE-SHUT OFF PARALLEL WITH CURB   | FORD JONES MUELLER | B41-444<br>J-1921<br>B-25172 |
| 7        | 3" X SIZE NIPPLE, BRASS  | -                  | -                            |
| 8        | CRISPIN STAINLESS STEEL TRIM, NPT OUTLET, COMBINATION, AIR & VACUUM VALVE, 1" MIN. VAULT SIZE PER PLAN | -                  | -                            |
| 9        | 18" X SIZE NIPPLE, G.I.P.  | -                  | -                            |
| 10       | 90° STREET ELL, G.I.P.   | -                  | -                            |
| 11       | BUG SCREEN   | -                  | -                            |
| 12       | VAULT COVER (SEE DETAIL, ABOVE)  | -                  | -                            |
| 13       | 2-DOUBLE STACKED #6 CONCRETE METER VAULTS  |                    | -                            |

**NOTE:**

1. ALL CONNECTIONS TO COPPER TUBING SHALL BE COMPRESSION FITTINGS.
2. THE AIR VAC BOX IS TO BE SET PERPENDICULAR TO THE BACK OF THE CURB.
3. BACKFILL UNDER EXISTING CURB WITHIN THE CITY OF YUCAIPA, MUST BE 2 SACK SLURRY PER CITY STANDARDS.

## 1" AND 2" AIR AND VACUUM VALVE ASSEMBLY

2016

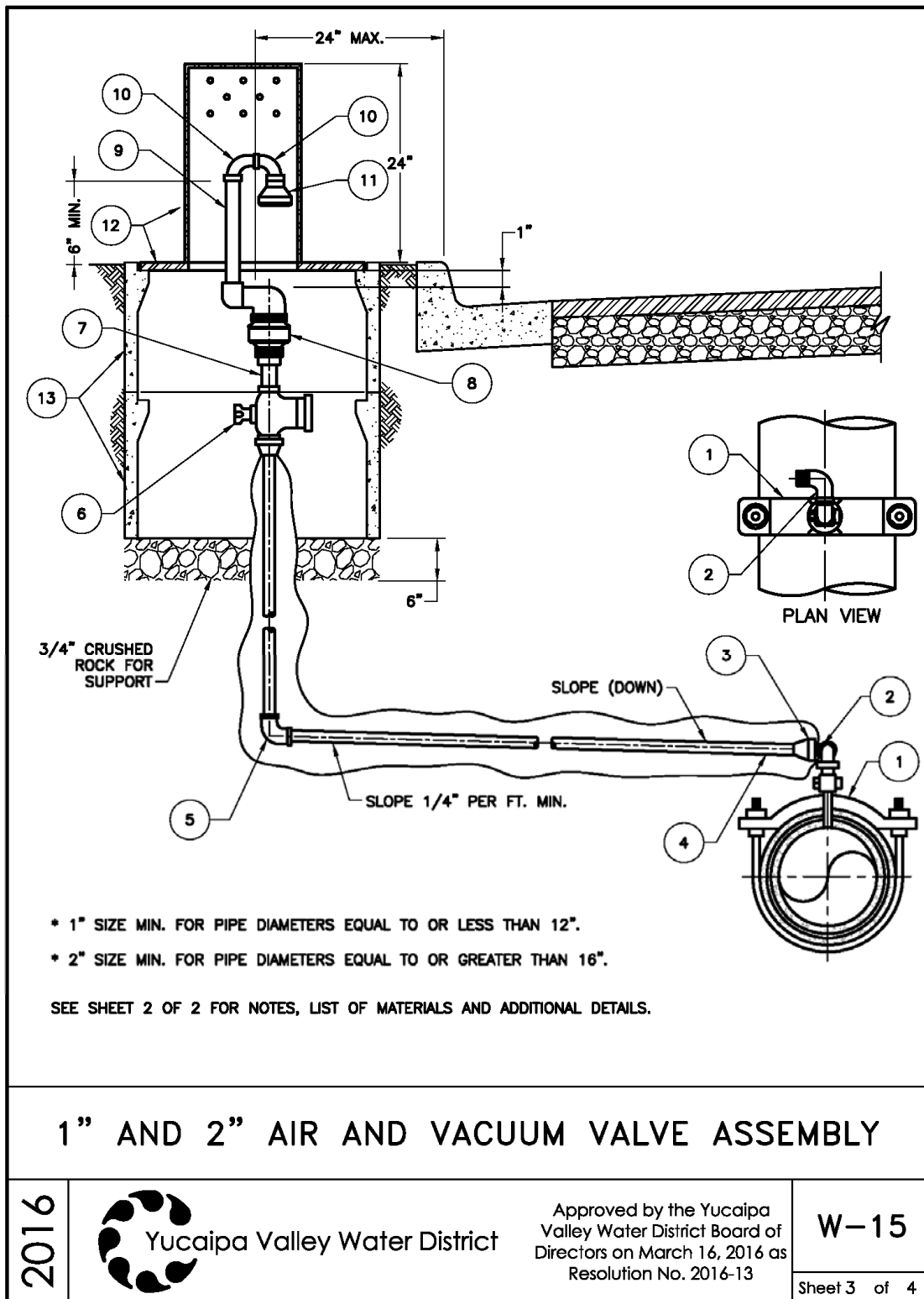


Yucaipa Valley Water District

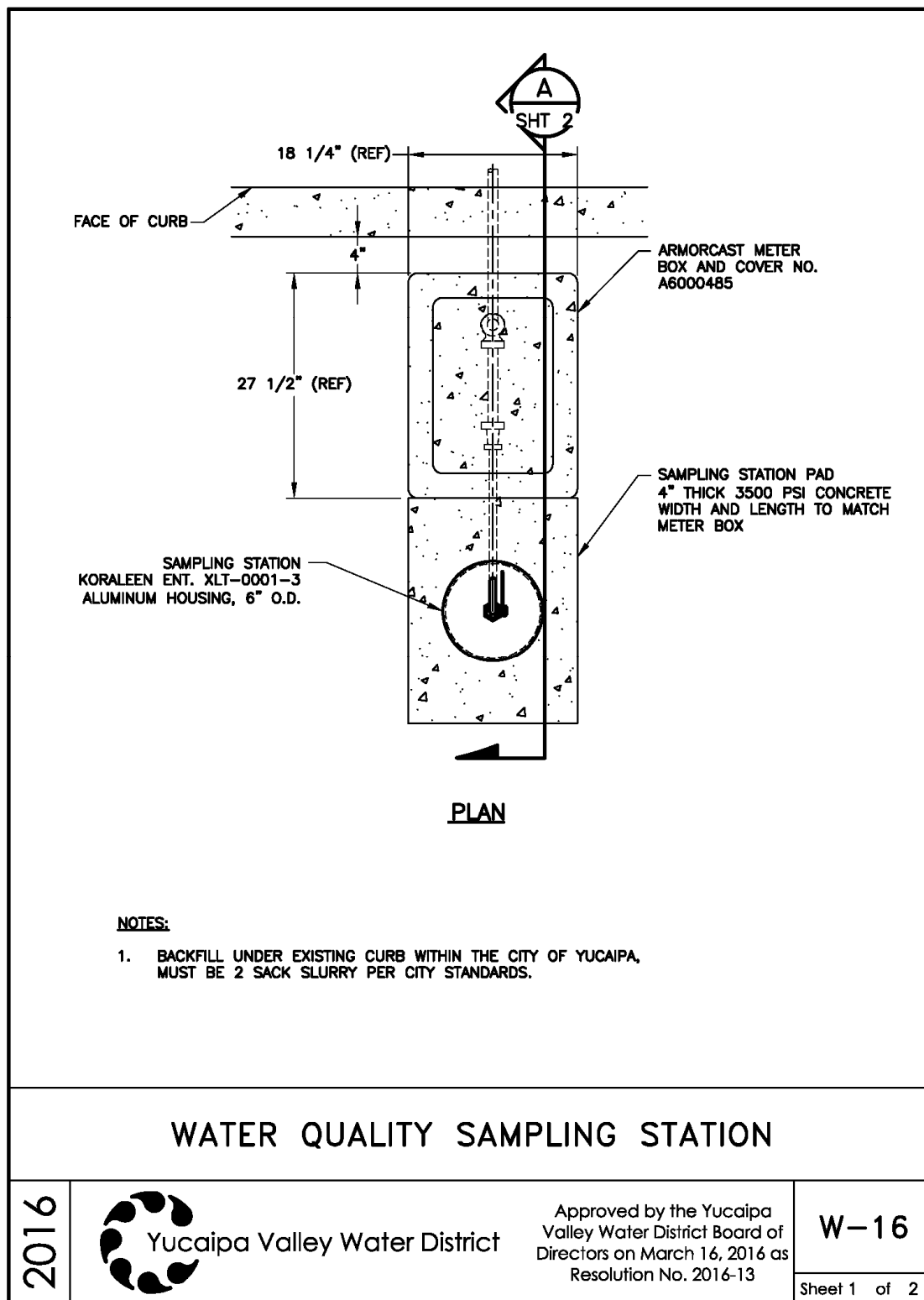
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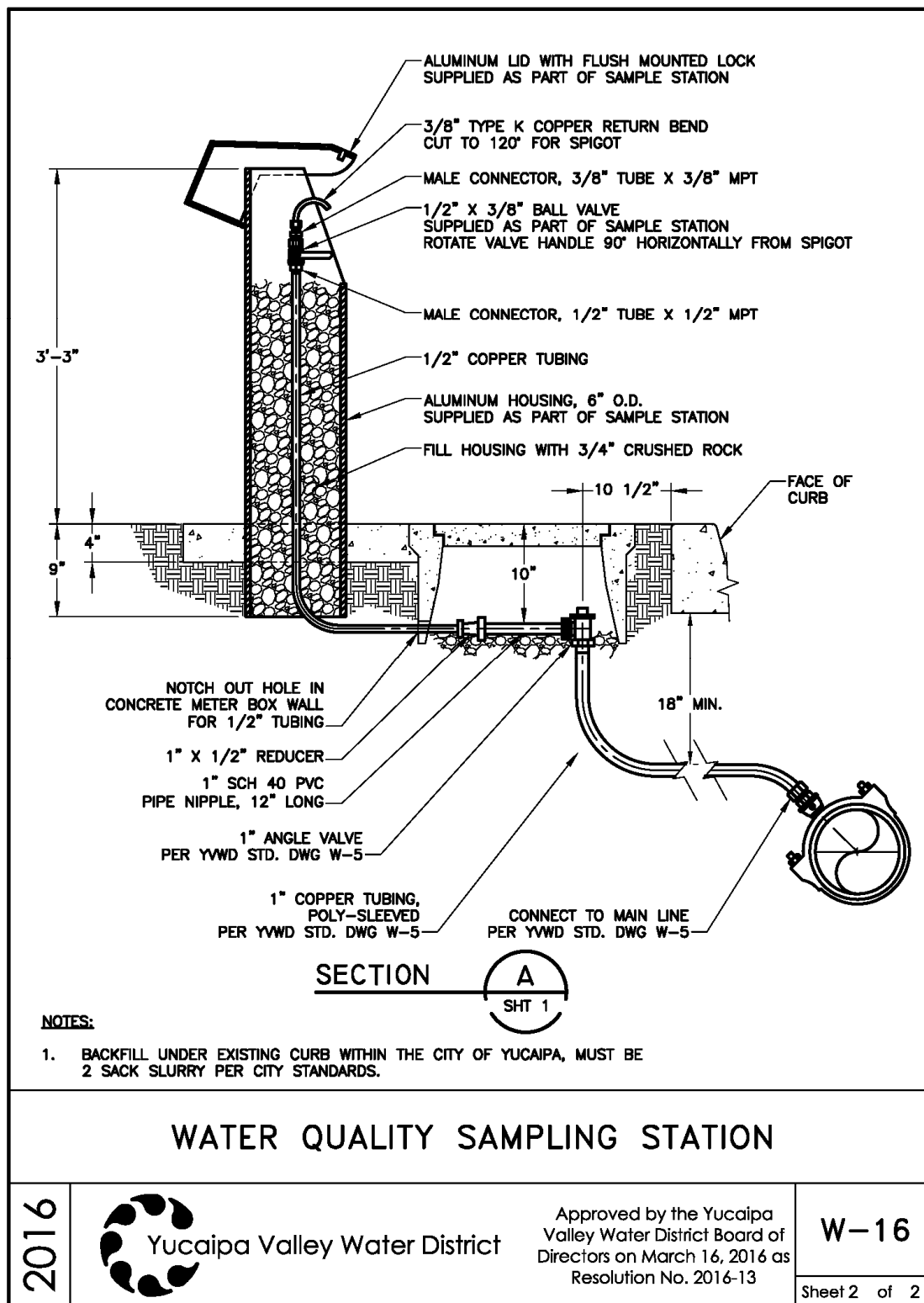
W-15

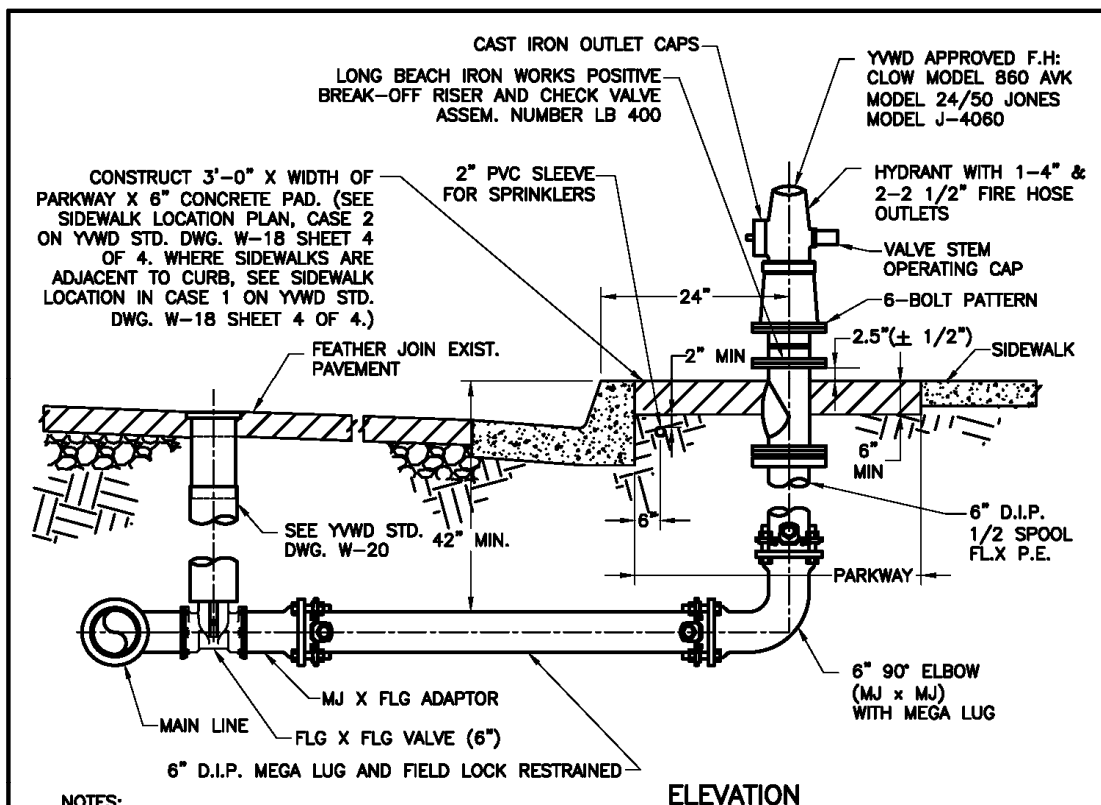
Sheet 2 of 4









**NOTES:**

1. IF A RESIDENTIAL FIRE HYDRANT IS INSTALLED AS A LONG SIDE HYDRANT, THEN IT MUST BE INSTALLED PER SPECIFICATION W-18 SHEET 2 OF 4.
2. PRIOR TO PAINTING, FIRE HYDRANTS SHALL BE PREPARED PER SSPC-SP5. PAINT WITH 2 COATS, 3 TO 5 MILS EACH, OF RUST-OLEUM 7543 SAFETY YELLOW 025F.
3. PROVIDE "BREAK-OFF" RISER AT HYDRANT FLANGE. BOLTS FROM THE "BREAK-OFF" SPOOL TO THE CHECK VALVE ASSEMBLY MUST BE INSTALLED FROM TOP TO BOTTOM.
4. HYDRANT FLANGE GASKET SHALL BE "FULL FACE" AND OF RUBBER COMPOSITION 1/8" THICK.
5. DRY BARREL HYDRANTS ARE REQUIRED AT ELEVATIONS ABOVE 3,500 FT.
6. ALL HYDRANT FLANGE BOLTS ARE TO BE INSTALLED WITH THE CAP OF THE BOLT ON TOP AND THE NUT ON THE BOTTOM.
7. BACKFILL UNDER EXISTING CURB WITHIN THE CITY OF YUCAIPA, MUST BE 2 SACK SLURRY PER CITY STANDARDS.
8. SEE SHEET 4 OF 4 FOR HYDRANT FLOW COLOR CODING.
9. ALL HYDRANTS AND BLOW-OFFS SHALL BE LOCATED A MINIMUM OF 3- FEET AWAY FROM THE E.C./B.C. OF DRIVEWAY APPROACHES AND CURB RETURNS FROM INTERSECTIONS.

## RESIDENTIAL FIRE HYDRANT INSTALLATION

2016



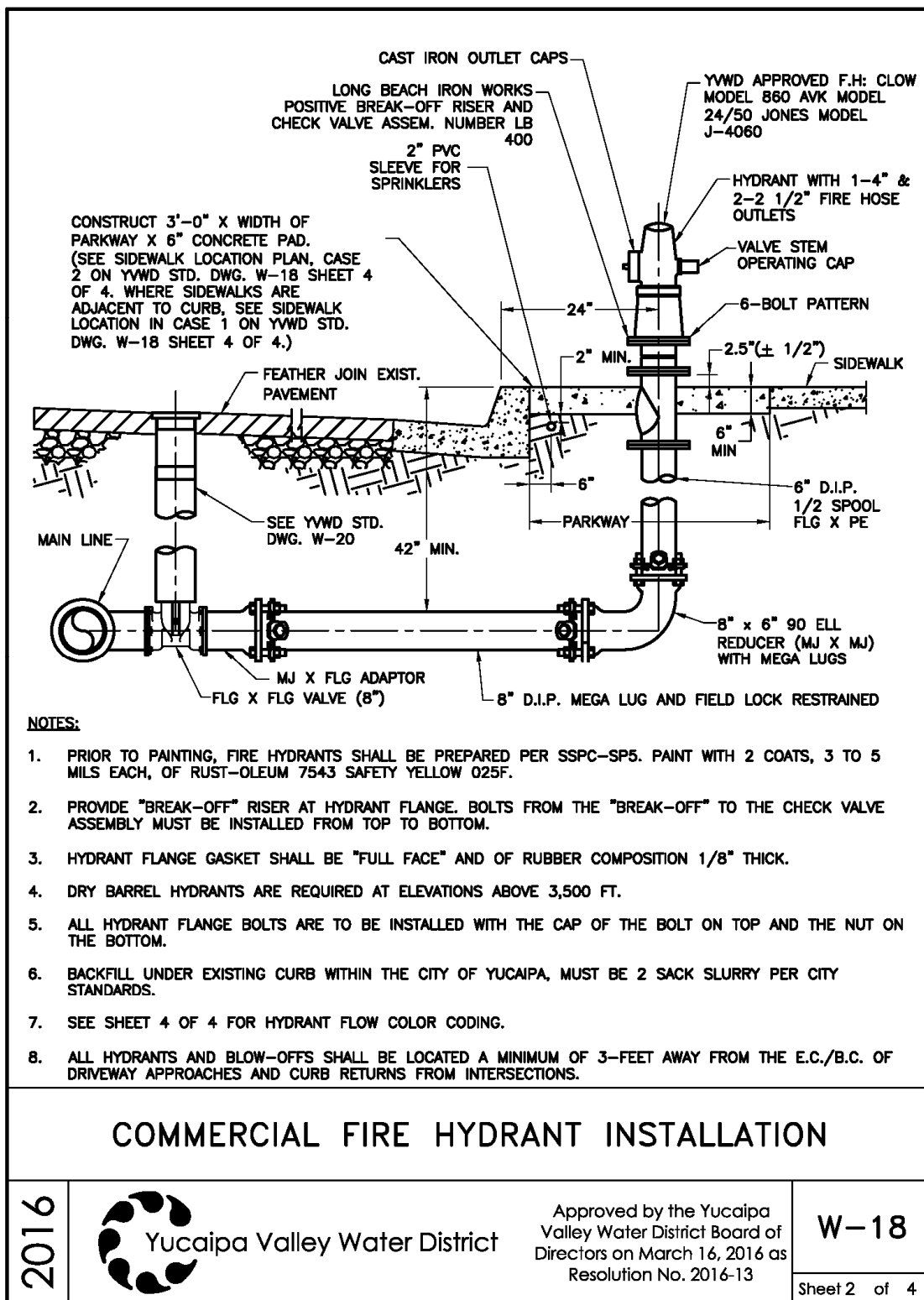
Yucaipa Valley Water District

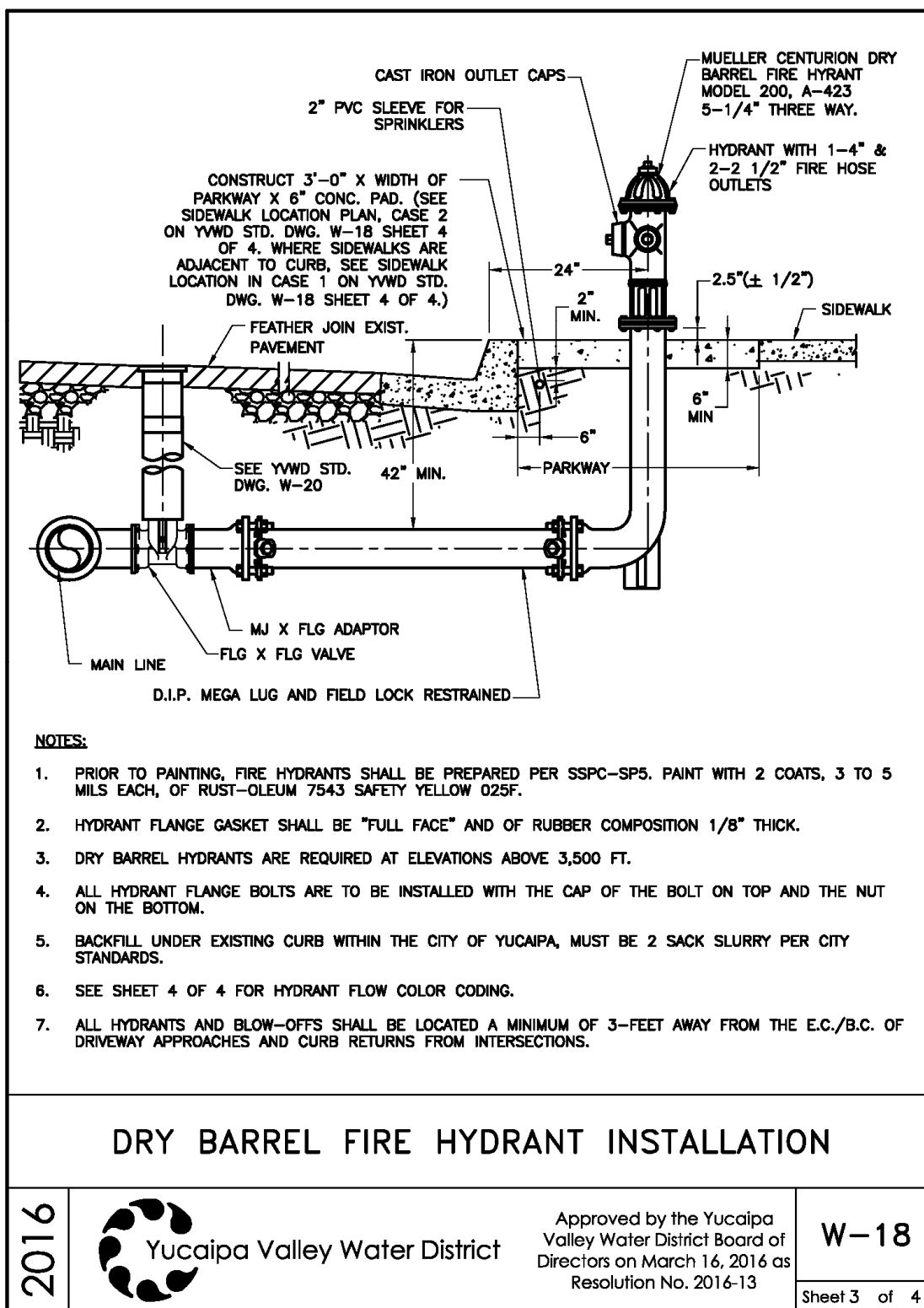
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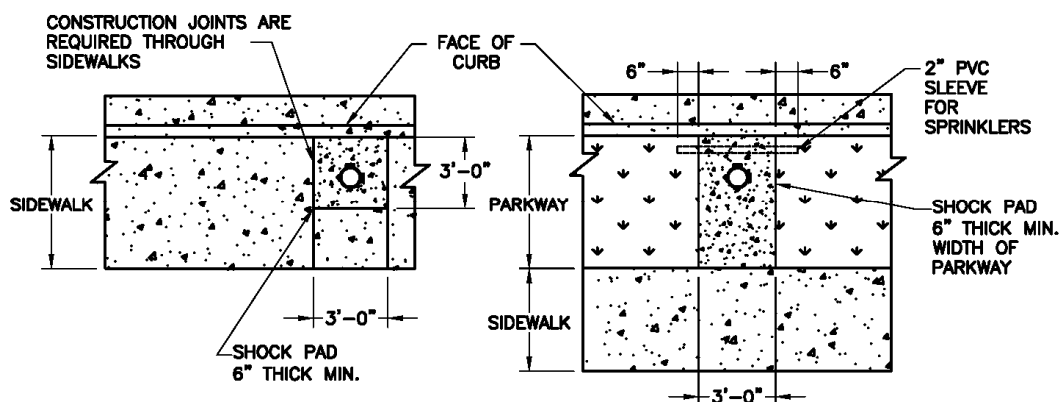
Sheet 1 of 4







### SIDEWALK LOCATION PLANS



#### CASE 1 SIDEWALK ADJACENT TO CURB

#### CASE 2 SIDEWALK NOT ADJACENT TO CURB

#### NOTES:

1. PRIOR TO PAINTING, FIRE HYDRANTS SHALL BE PREPARED PER SSPC-SP5. PAINT WITH 2 COATS, 3 TO 5 MILS EACH, OF RUST-OLEUM 7543 SAFETY YELLOW 025F.
2. PROVIDE "BREAK-OFF" RISER AT HYDRANT FLANGE.
3. HYDRANT FLANGE GASKET SHALL BE "FULL FACE" AND OF RUBBER COMPOSITION 1/8" THICK.
4. ALL HYDRANT FLANGE BOLTS ARE TO BE INSTALLED WITH THE CAP OF THE BOLT ON TOP AND THE NUT ON THE BOTTOM.
5. DRY BARREL HYDRANTS ARE REQUIRED AT ELEVATIONS ABOVE 3,500 FT.
6. ALL HYDRANTS AND BLOW-OFFS SHALL BE LOCATED A MINIMUM OF 3- FEET AWAY FROM THE E.C./B.C. OF DRIVEWAY APPROACHES AND CURB RETURNS FROM INTERSECTIONS.
7. HYDRANT FLOW COLOR CODING;
  - 1,500 + GPM = BLUE CAPS
  - 1,000 + GPM = GREEN CAPS
  - 500 to 1,000 GPM = ORANGE CAPS
  - LESS THAN 500 GPM = RED CAPS

### FIRE HYDRANT SHOCK PAD DESIGN

2016

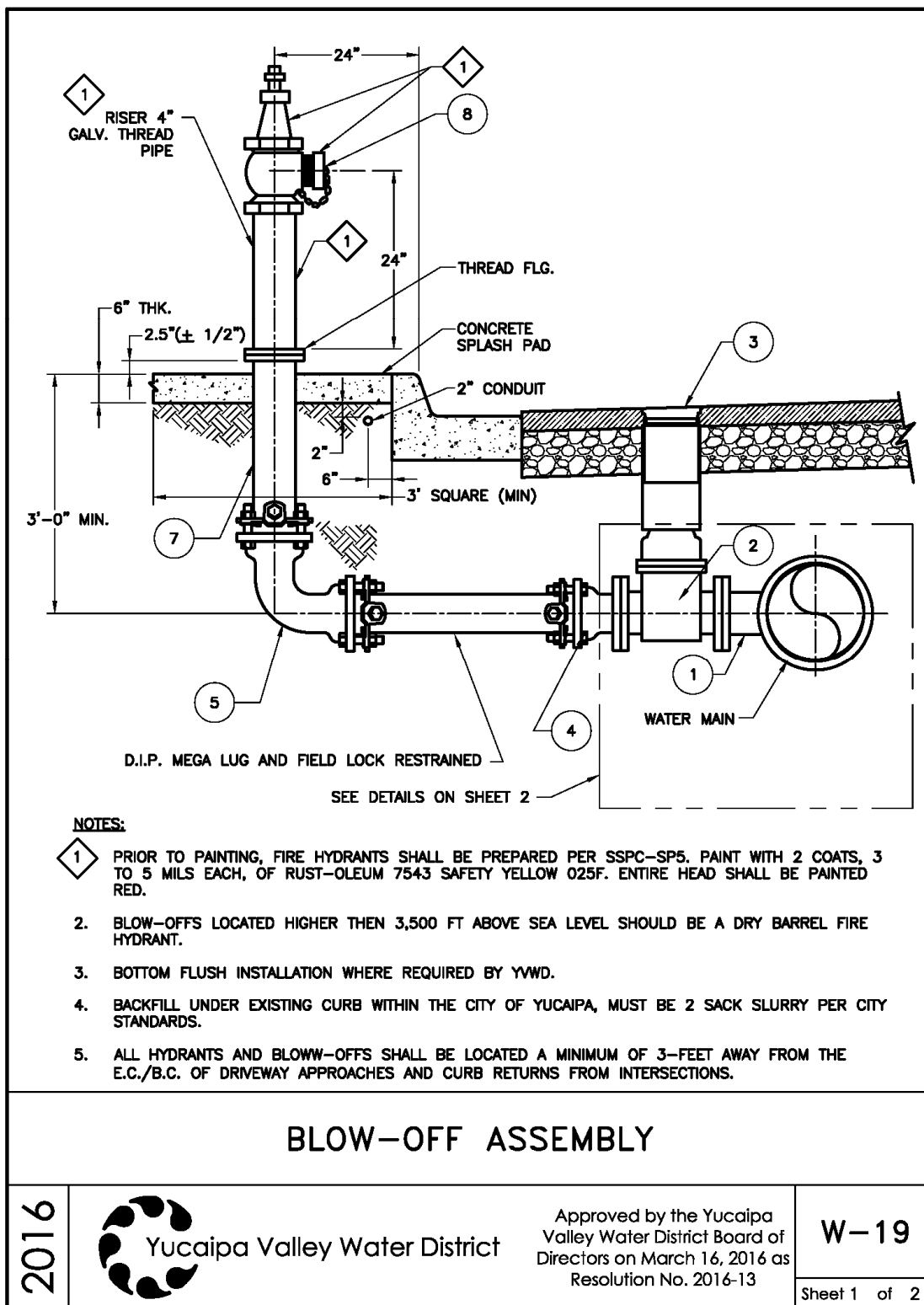


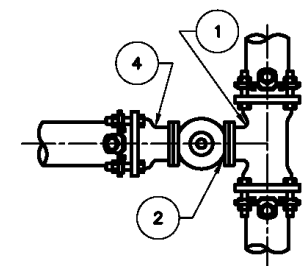
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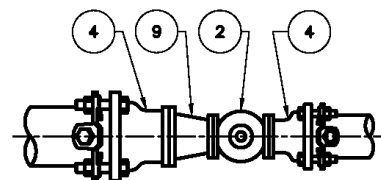
W-18

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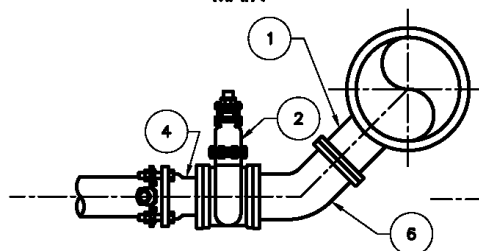




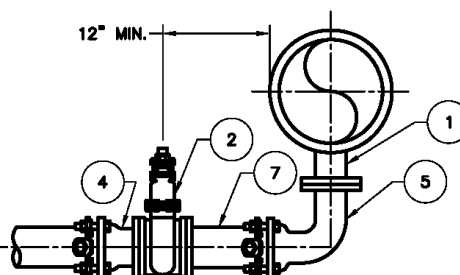
**PLAN**  
BLOW-OFF ASSEMBLY GATE VALVE,  
BRANCH CONNECTION FROM WATER  
MAIN



**PLAN**  
BLOW-OFF ASSEMBLY GATE VALVE,  
END CONNECTION FROM WATER MAIN  
(OPTIONAL)



**BRANCH CONNECTION CASE A**  
USE ON WATER MAINS THAT ARE  
8", 16" AND 18" ONLY.



**BRANCH CONNECTION CASE B**  
USE ON WATER MAINS THAT ARE  
12", 24" AND LARGER.

### LIST OF MATERIAL

| ITEM NUMBER | DESCRIPTION                                   |
|-------------|---|
| 1           | TEE - MJ X MJ X FLG                           |
| 2           | GATE VALVE - FLG X FLG                        |
| 3           | VALVE BOX PER STD. DWG. W-10                  |
| 4           | MJ X FLG ADAPTOR                              |
| 5           | 90° ELBOW - FLG X MJ WITH MEGA LUG RESTRIANTS |
| 6           | 45° ELBOW - FLG X FLG                         |
| 7           | D.I.P. HALF SPOOL - FLG x PE                  |
| 8           | CAST IRON HYDRANT CAP WITH CHAIN              |
| 9           | FLG X FLG REDUCER                             |

## BLOW OFF ASSEMBLY

2016

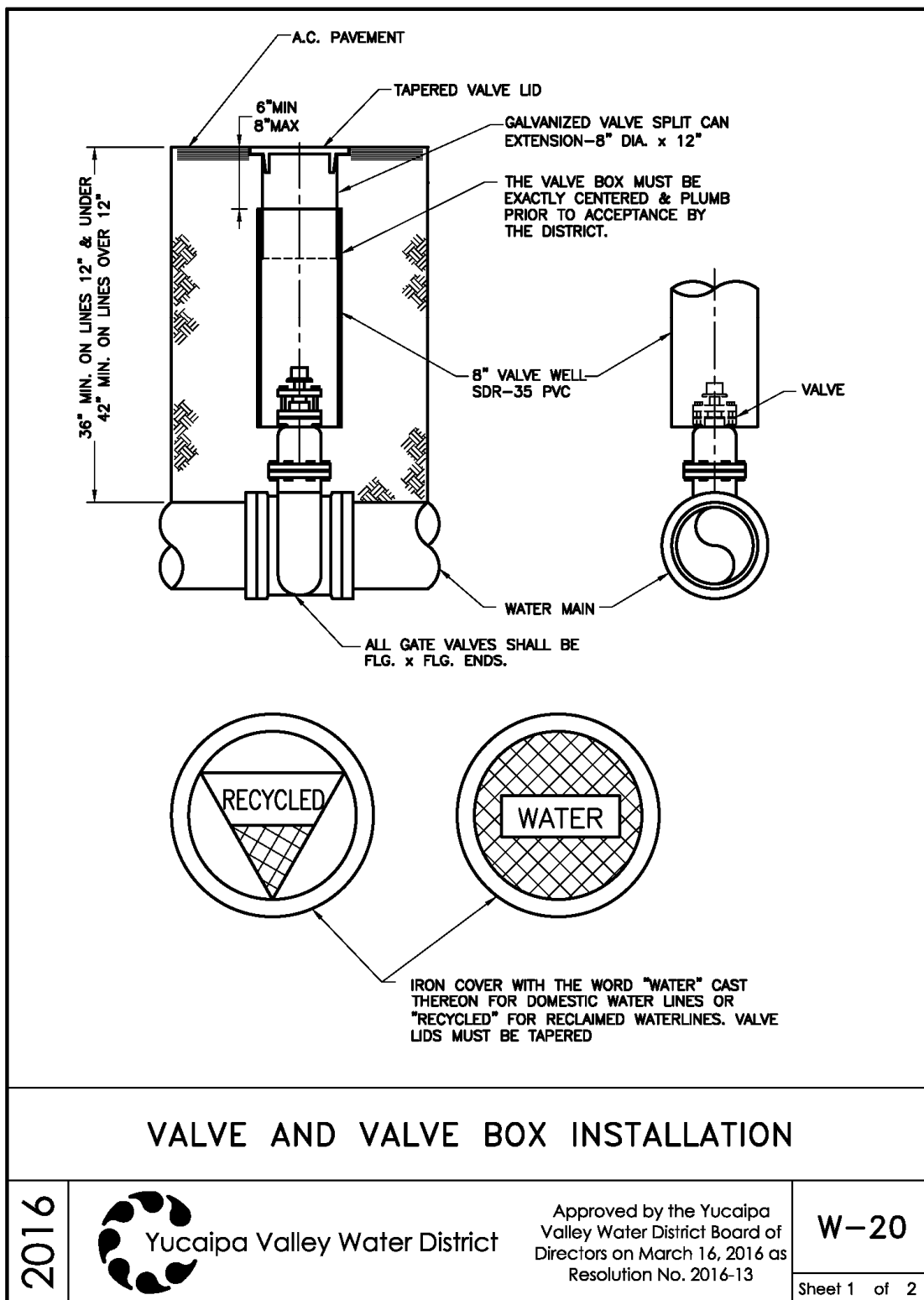


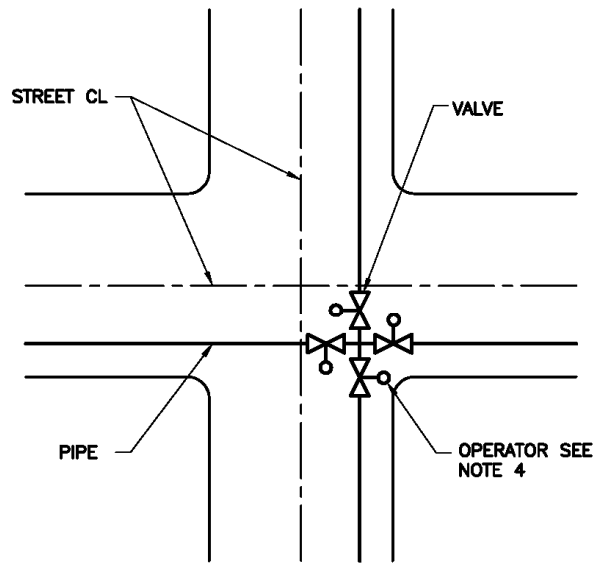
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**TYPICAL BUTTERFLY  
VALVE OPERATOR  
POSITION**

**NOTES:**

1. PROVIDE VALVE STEM EXTENSION IF DEPTH TO VALVE NUT EXCEEDS 4 FEET. SEE YVWD STD. DWG. W-21.
2. IN NEW TRACT DEVELOPMENTS EXTEND VALVE WELL PIPE 2' ABOVE GROUND ON "KEY VALVES" FOR EMERGENCY SHUTOFFS.
3. BUTTERFLY VALVE OPERATORS SHALL BE LOCATED ON THE LEFT-HAND SIDE OF THE VALVE (AT THE TEE OR CROSS), LOOKING THROUGH THE VALVE TOWARD THE PIPE END.
4. WHERE CONCRETE CROSS GUTTERS AT STREET INTERSECTIONS WILL INTERFERE WITH VALVE BOXES, THE PIPELINE SHALL BE MOVED TO A POSITION 7 FEET OFF THE CURB FACE TO CLEAR THE CROSS GUTTER.
5. VALVES TO BE LOCATED ADJACENT TO FITTINGS WHEREVER POSSIBLE.
6. VALVES BOLTED TO FITTINGS WILL NOT REQUIRE ANCHOR BLOCKS.
7. ALL GATE VALVES SHALL BE MUELLER, RESILIENT WEDGE, EPOXY COATED, FLG. X FLG. ENDS.
8. ALL BURIED METALIC SURFACES SHALL BE PROTECTED BY AN ASPHALTIC OR BITUMINUOS COATING IN ACCORDANCE WITH AWWA C151 (ANSI A21.51).

**VALVE AND VALVE BOX INSTALLATION**

2016

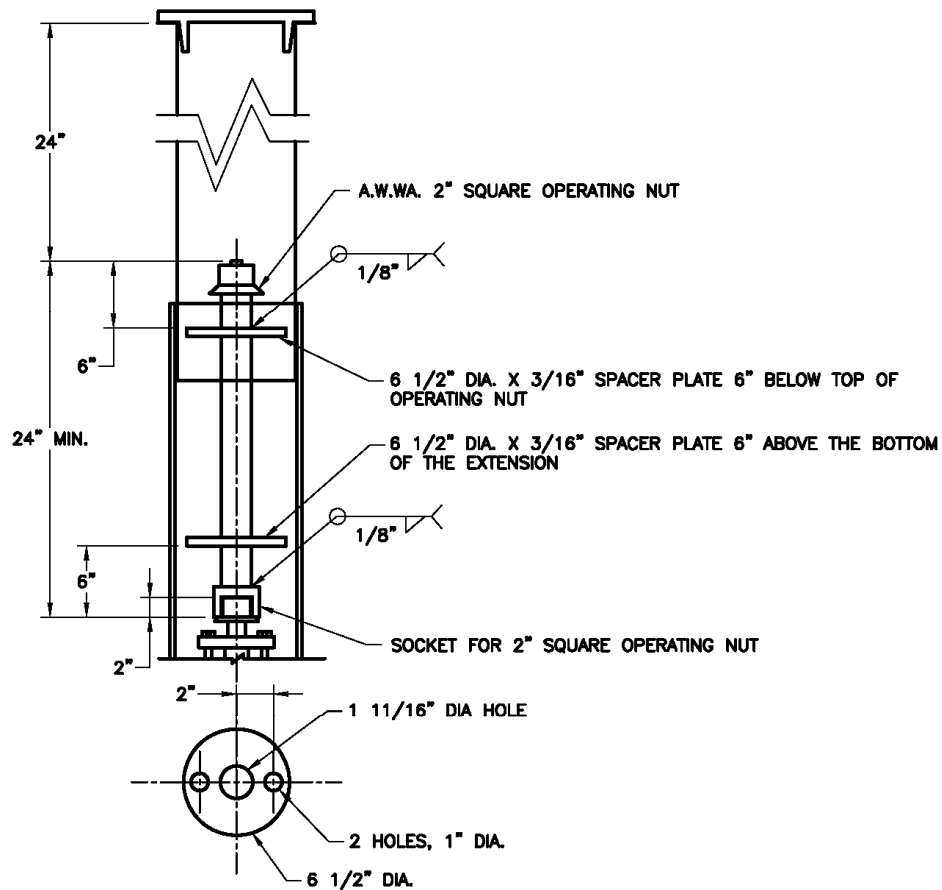


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**SPACER PLATE PLAN****NOTES:**

1. PROVIDE VALVE STEM EXTENSION WHEN DEPTH TO OPERATING NUT EXCEEDS 48" (FABRICATE EXTENSION TO FIELD MEASUREMENT – SEE NOTE 2)
2. NO VALVE STEM EXTENSION SHALL BE LESS THAN 2 FEET IN LENGTH UNLESS APPROVED BY DISTRICT ENGINEER.
3. PROVIDE TWO SPACER PLATES. FIRST PLATE IS 6" DOWN FROM TOP OF EXTENSION. SECOND PLATE IS 6" UP FROM BOTTOM OF EXTENSION

**VALVE STEM EXTENSION**

2016



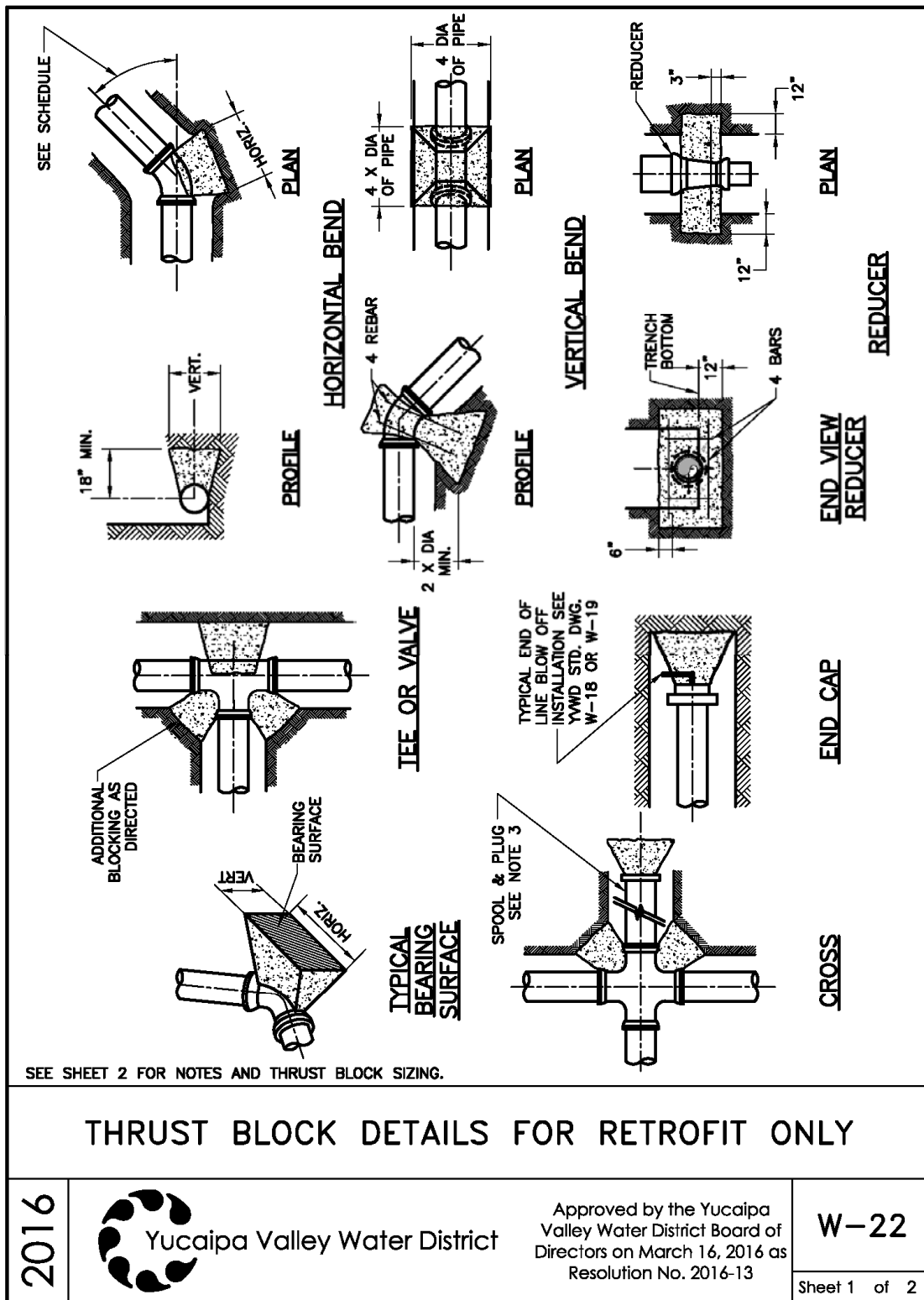
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| MINIMUM SIZE OF THRUST BLOCK BEARING SURFACE |              |              |              |              |              |              |
|--|--------------|--------------|--------------|--------------|--------------|--------------|
| PIPE SIZE                                    | END CAP.     | TEE          | 90° BEND     | 45° BEND     | 22 1/2" BEND | 11 1/4" BEND |
|  | HORIZ. VERT. | HORIZ. VERT. | HORIZ. VERT. | HORIZ. VERT. | HORIZ. VERT. | HORIZ. VERT. |
| 4"   | 1'-6" 1'-6"  | 1'-6" 1'-0"  | 2'-3" 1'-3"  | 1'-6" 1'-0"  | 1'-6" 0'-9"  | 1'-6" 0'-9"  |
| 6"   | 2'-6" 1'-9"  | 4'-0" 2'-0"  | 4'-6" 2'-3"  | 3'-6" 1'-6"  | 2'-6" 1'-0"  | 2'-6" 1'-0"  |
| 8"   | 3'-9" 2'-0"  | 5'-0" 2'-6"  | 5'-6" 3'-0"  | 4'-3" 2'-3"  | 3'-0" 1'-6"  | 3'-0" 1'-6"  |
| 10"  | 4'-6" 2'-6"  | 5'-6" 3'-3"  | 7'-0" 3'-6"  | 5'-0" 2'-9"  | 3'-9" 1'-9"  | 3'-9" 1'-9"  |
| 12"  | 5'-3" 3'-0"  | 7'-0" 3'-6"  | 8'-3" 4'-0"  | 5'-6" 3'-6"  | 4'-3" 2'-3"  | 4'-3" 2'-3"  |

**NOTES:**

1. THRUST BLOCK BEARING AREA BASED ON ALLOWABLE SOIL BEARING VALUE OF 1500 psf PRESSURE AND 225 psi LINE PRESSURE WITH 3'-0" COVER MINIMUM.  
FOR BEARING = 1000 psf, 1.5 X AREA SHOWN  
FOR BEARING = 500 psf, 3.0 X AREA SHOWN
2. ALL THRUST BLOCKS SHALL BE 3,250 PSI CONCRETE AND PLACED AGAINST UNDISTURBED SOIL. DESIGN ENGINEER SHALL DETERMINE SIZES NOT SHOWN.
3. THRUST BLOCKS ON CROSSES SHALL BE USED ONLY WHEN THERE IS A STUB-OUT ON ONE OR MORE SIDES.
4. REINFORCING STEEL SHALL CONFORM TO ASTM A15 AND A305 INTERMEDIATE GRADE.
5. CONCRETE SHALL NOT EXTEND ONTO FLANGE OR ADJOINING PIPE.
6. ALL FITTINGS SHALL BE WRAPPED WITH 10 MIL PLASTIC.
7. ALL FITTINGS SHALL BE MECHANICALLY RESTRAINED UNLESS APPROVED BY YVWD.

## THRUST BLOCK DETAILS FOR RETROFIT ONLY

2016

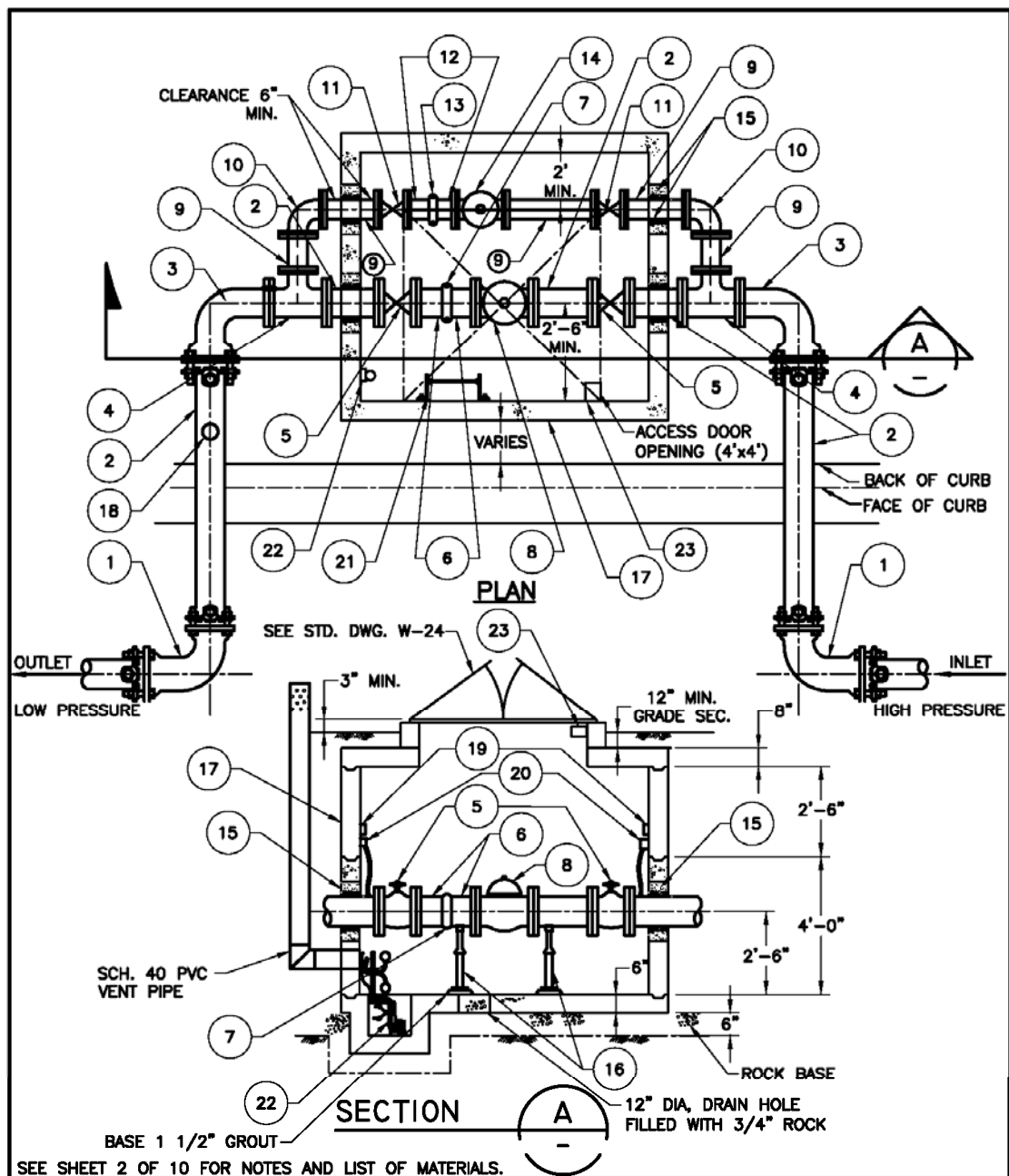


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## PRESSURE REDUCING STATION TYPICAL ASSEMBLY – FINAL DESIGN BY ENGINEER

2016




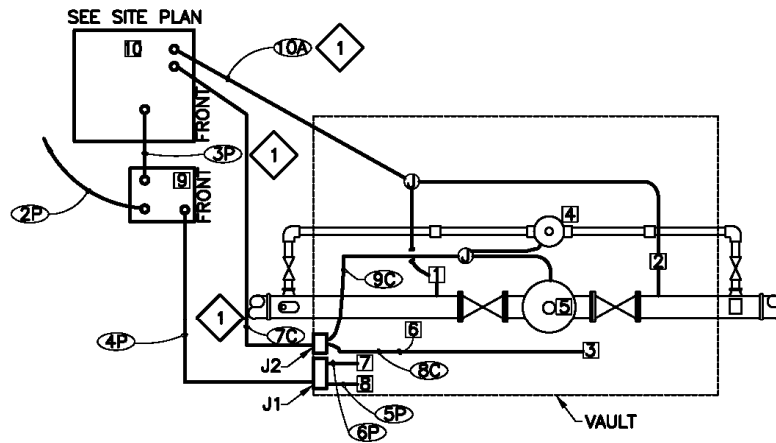
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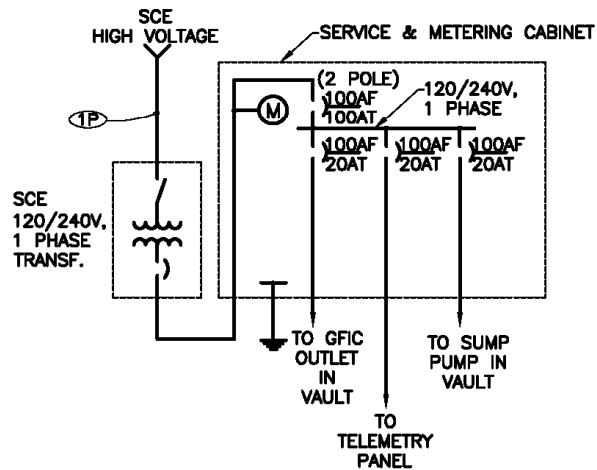
| LIST OF MATERIALS  |  |  |
|--|--|--|
| ITEM   | QUANTITY   | DESCRIPTION  |
| <b>MAIN LINE</b>   |  |  |
| 1  | 2 EA   | D.I.P. 90° ELBOW, MJ X MJ, RESTRAINED  |
| 2  | 5 EA   | D.I.P. SPOOL, LENGTH AS REQUIRED, RESTRAINED   |
| 3  | 2 EA   | D.I.P. 90° ELBOW, MJ X FLG   |
| 4  | 2 EA   | FLANGED TEE D.I.   |
| 5  | 2 EA   | RESILIENT SEAT GATE VALVE  |
| 6  | 2 EA   | FLG x GROOVED-END SPOOL, VICTAULIC   |
| 7  | 1 EA   | GROOVED-END COUPLING, VICTAULIC  |
| 8  | 1 EA   | PRESSURE REDUCING VALVE, W/FULL CLOSED POSITION SWITCH. MANUFACTURED BY CLA-VAL COMPANY ONLY.  |
| 15   | 4 EA   | 1" SPONGE RUBBER SEAL AROUND PIPE. DRYPACK WITH CONCRETE MORTAR  |
| 16   | 4 EA   | ADJUSTABLE PIPE SUPPORT. SEE YVWD STD. DWG. W-25   |
| <b>BY-PASS LINE</b>  |  |  |
| 9  | 5 EA   | D.I. SPOOL, LENGTH AS REQUIRED, FLG'D ENDS   |
| 10   | 2 EA   | FLG x FLG D.I. 90° ELL   |
| 11   | 2 EA   | RESILIENT SEATED GATE VALVE  |
| 12   | 2 EA   | FLG x GROOVED-END SPOOL, VICTAULIC   |
| 13   | 1 EA   | GROOVED-END COUPLING, VICTAULIC  |
| 14   | 1 EA   | PRESSURE REDUCING VALVE, W/FULL CLOSED POSITION SWITCH.  |
| <b>MISCELLANEOUS</b>   |  |  |
| 17   | 1 EA   | PRECAST CONCRETE VAULT 6'-0"x8'-0" OR 6'-0"x10'-0" WITH 4'x4" HATCH. PROVIDE DIAMOND PLATE ALUMINUM ACCESS DOORS WITH RECESSED PADLOCK HASP. |
| 18   | 1 EA   | 1" AIR VAC DOWNSTREAM OR LOW PRESSURE SIDE OF CLAY-VAL STATION PER YVWD STD. DWG. W-15   |
| 19   | 2 EA   | PRESSURE GAUGE (ASHCROFT 0-150 PSI)  |
| 20   | 2 EA   | PRESSURE TRANSMITTER, PER W-23 SHEET 10 OF 10  |
| 21   | 1 EA   | GALV. STEEL LADDER (ALHAMBRA FOUNDRY) W/LADDER UP AND SS ANCHOR BOLTS  |
| 22   | 1 EA   | FLOOD LEVEL SWITCH & SUMP PUMP. NO SUMP PUMP REQUIRED IF A POSITIVE CONNECTION TO STORM DRAIN IS PROVIDED.                                   |
| 23   | 1 EA   | DOOR ENTRY SWITCH, PER W-23 SHEET 9 OF 10  |
| <p><b>NOTES:</b></p> <p>1. THESE DRAWINGS ARE GENERAL IN NATURE AND MAY NEED TO BE MODIFIED TO FIT SPECIFIC SITE REQUIREMENTS.</p> |  |  |
| <p><b>PRESSURE REDUCING STATION</b></p> <p><b>TYPICAL ASSEMBLY – FINAL DESIGN BY ENGINEER</b></p>                                  |  |  |
| <p style="writing-mode: vertical-rl; transform: rotate(180deg);">2016</p>  |  <p>Yucaipa Valley Water District</p> | <p>Approved by the Yucaipa Valley Water District Board of Directors on March 16, 2016 as Resolution No. 2016-13</p>                          |
|  |  | <p><b>W-23</b></p> <p>Sheet 2 of 10</p>  |



### PRESSURE REDUCING STATION ELECTRICAL PLAN

NOT TO SCALE

SEE SITE PLAN FOR LOCATION OF  
POWER AND TELEPHONE SERVICES



### SINGLE LINE DIAGRAM

SEE SHEET 5 OF 10 FOR CONDUIT SCHEDULE AND SHEET  
6 OF 10 FOR LIST OF ELECTRICAL COMPONENTS AND  
NOTES.

## PRESSURE REDUCING STATION ELECTRICAL DIAGRAM AND DETAILS

2016

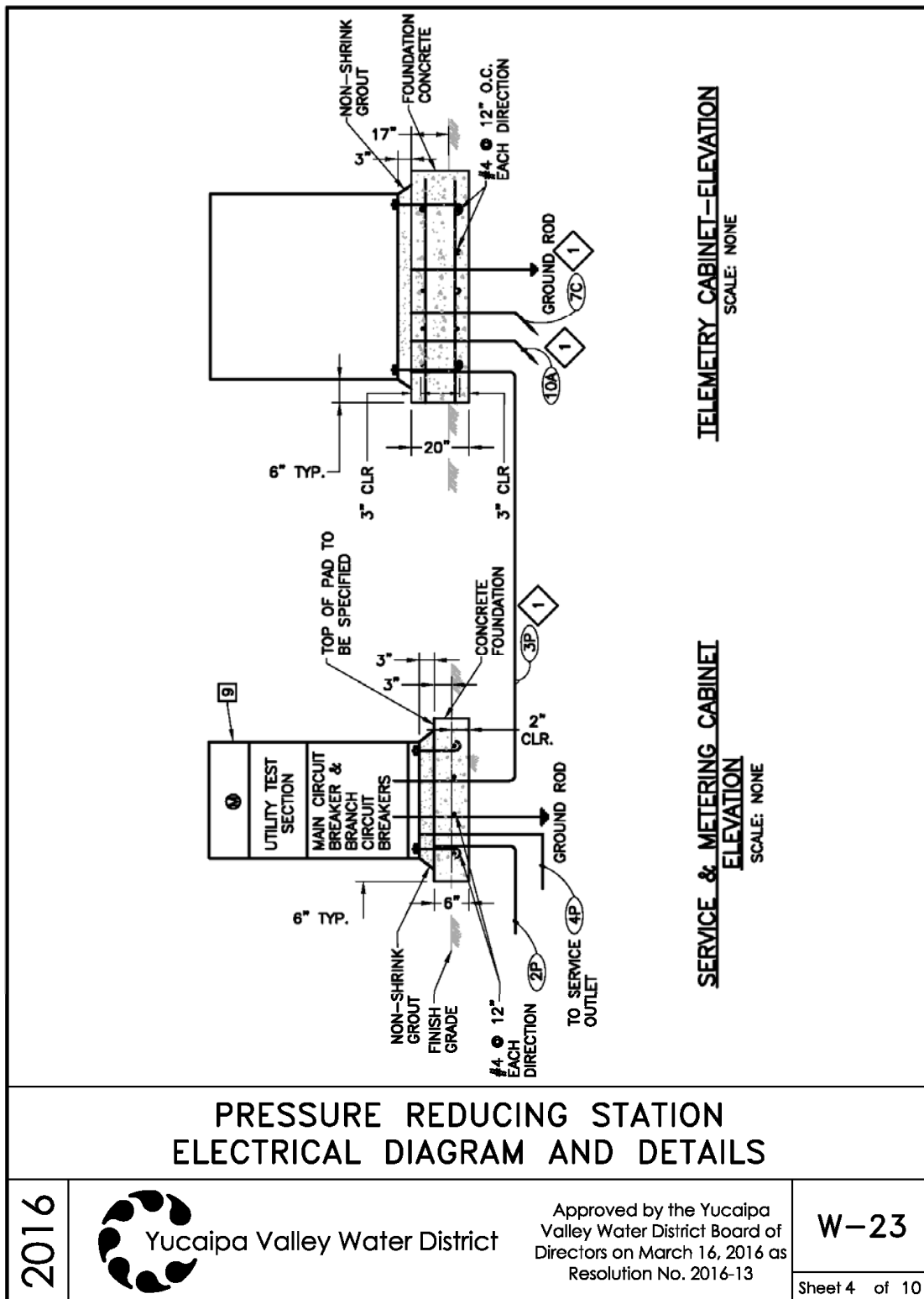


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| CONDUIT SCHEDULE |         |      |      |                      |             |               |                      |                    |  |
|------------------|---------|------|------|----------------------|-------------|---------------|----------------------|--------------------|--|
| SYMBOL           | CONDUIT |      | WIRE |                      | DESCRIPTION | LOCATION      |                      | REMARKS            |  |
|                  | QTY.    | SIZE | QTY. | SIZE                 |             | FROM          | TO                   |                    |  |
| #                |         |      |      |                      | USE         |               |                      |                    |  |
| (1P)             | 1       | 4"   |      | C.O.                 | POWER       | SCE XFMR      | EXISTING SCE POWER   | IF REQ'D           |  |
| (2P)             | 1       | 2"   |      | C.O.                 | POWER       | SCE XFMR      | SVS & MTR CAB        | 120/240 SVS FDR    |  |
| (3P)             | 1       | 3/4" |      | 2#12&1#12 GND        | POWER       | SVS & MTR CAB | TELEMETRY CAB        | SEE NOTE           |  |
| (4P)             | 1       | 3/4" |      | 4#12&1#12 GND        | POWER       | SVS & MTR CAB | PULL BOX J1          | SUMP PUMP & OUTLET |  |
| (5P)             | 1       | 3/4" |      | 2#12&1#12 GND        | POWER       | PULL BOX J1   | OUTLET W/GFI         |                    |  |
| (6P)             | 1       | 3/4" |      | 2#12&1#12 GND        | POWER       | PULL BOX J1   | SUMP PUMP & CONTROLS |                    |  |
| (7C)             | 1       | 1"   |      | 8#14&1#12 GND        | CONTROL     | TELEMETRY CAB | PULL BOX J2          | SEE NOTE           |  |
| (8C)             | 1       | 3/4" |      | 4#14&1#12 GND        | CONTROL     | PULL BOX J2   | XS-1,LS-1            |                    |  |
| (9C)             | 1       | 3/4" |      | 4#14&1#12 GND        | CONTROL     | PULL BOX J2   | XS-2,XS-3            |                    |  |
| (10A)            | 1       | 1"   |      | 2.2/C#18 SH.&1#12GND | CONTROL     | TELEMETRY CAB | PT-1,PT-2            | SEE NOTE           |  |

## PRESSURE REDUCING STATION ELECTRICAL DIAGRAM AND DETAILS

2016




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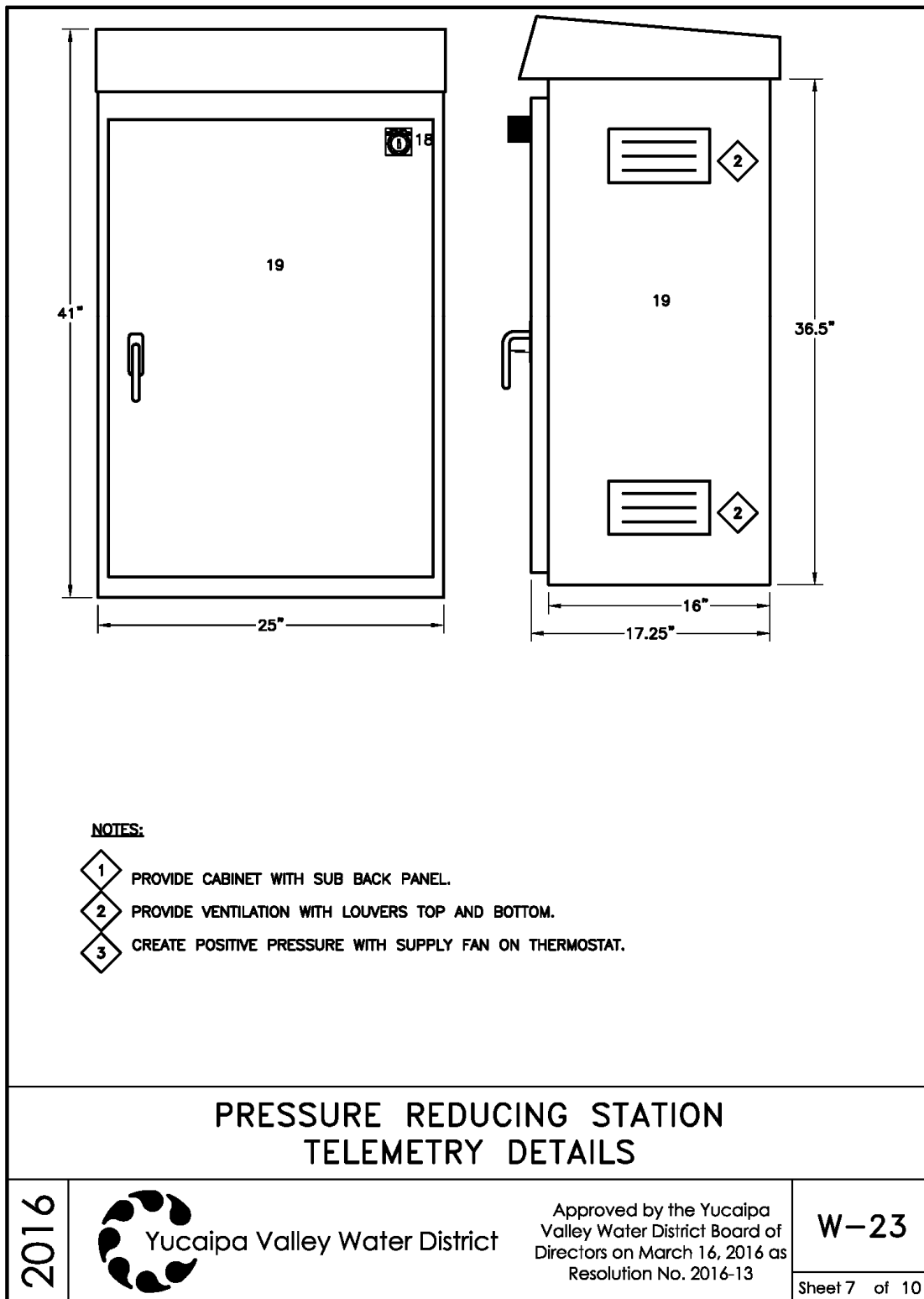
| ELECTRICAL COMPONENTS |            |                              |               |                                 |                                     |
|-----------------------|------------|------------------------------|---------------|---------------------------------|-------------------------------------|
| ITEM NO.              | DEVICE ID. | DESCRIPTION                  | MANUFACTURE   | MODEL NUMBER                    | REMARKS                             |
| 1                     | PT-1       | DOWNSTREAM PRESS. XMTR       | ROSE MOUNT    | #3051CG-X-A22<br>AU-M6210-S-140 | 150/250 PSI                         |
| 2                     | PT-2       | UPSTREAM PRESS. XMTR         | ROSE MOUNT    | #3051CG-X-A22<br>AU-M6210-S-140 | 150/250 PSI                         |
| 3                     | XS-1       | HATCH ENTRY SWITCH           | ALLEN BRADLEY | E50DRI                          | W/CUTLER HAMMER<br>ROLLER #E50KL546 |
| 4                     | XS-2       | STEM POS. SWITCH<br>(CLOSED) |               |                                 | SUP. W/VALVE                        |
| 5                     | XS-3       | STEM POS. SWITCH<br>(CLOSED) |               |                                 | SUP. W/VALVE                        |
| 6                     | LS-1       | VAULT FLOODED SWITCH         | GEMS          | LS270                           |                                     |
| 7                     | P-1        | SUMP PUMP AND CONTROLS       | ZOELLER       | GRANGER CAT.<br>#2P547          |                                     |
| 8                     | NA         | SERVICE OUTLET WITH GFI      | NA            |                                 | 20A                                 |
| 9                     | NA         | SERVICE AND METERING CAB     | MEYERS        | MEUGQ100                        | 120/240 V, 100A                     |
| 10                    | NA         | TELEMETRY CABINET            |               |                                 | SEE YWID SDT DWG<br>W-23D, DETAIL A |

**NOTE:**  
 COIL 3" OF CONDUCTORS 3P, 7C, AND 10A IN TELEMETRY PANEL.

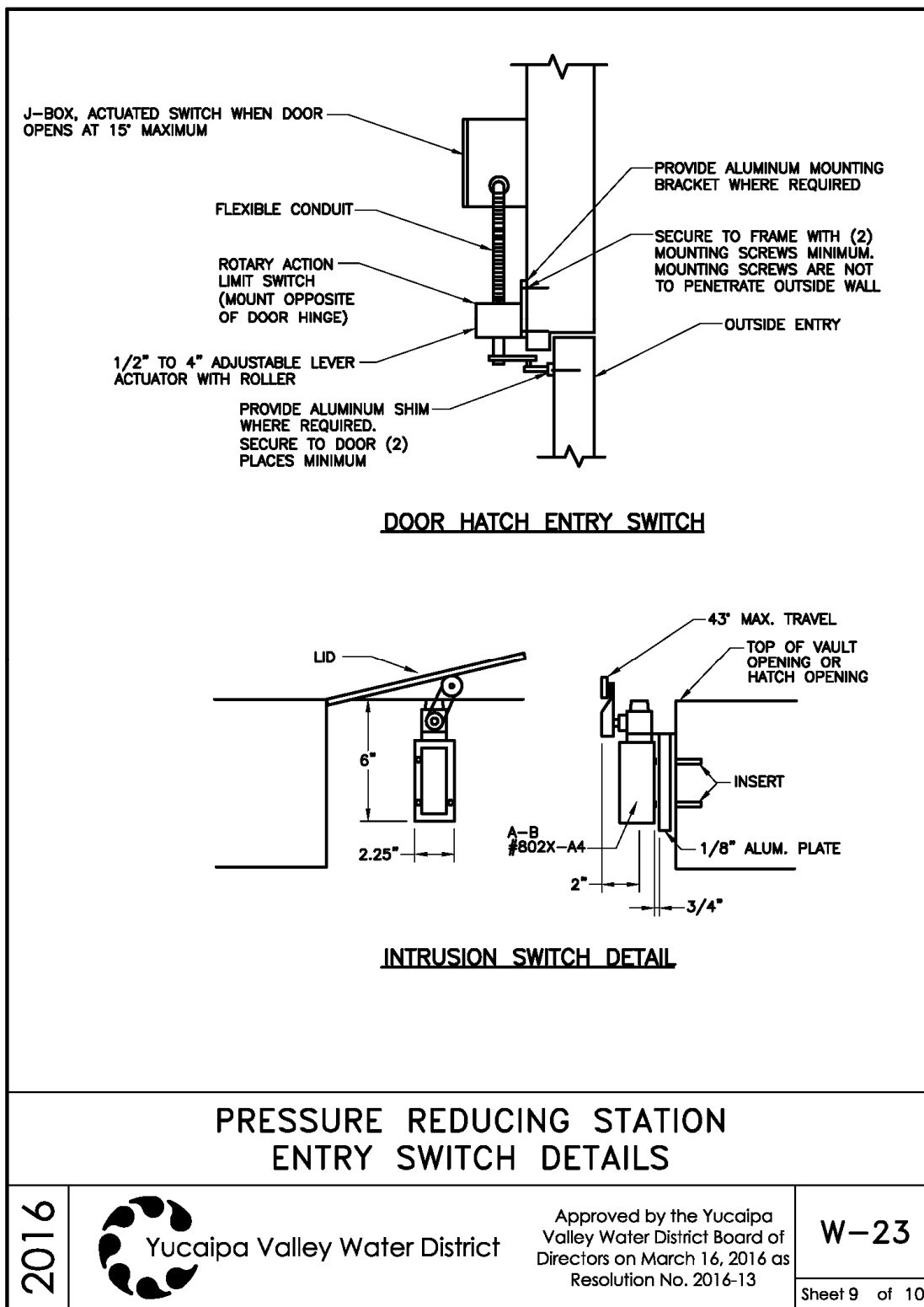
## PRESSURE REDUCING STATION ELECTRICAL DIAGRAM AND DETAILS

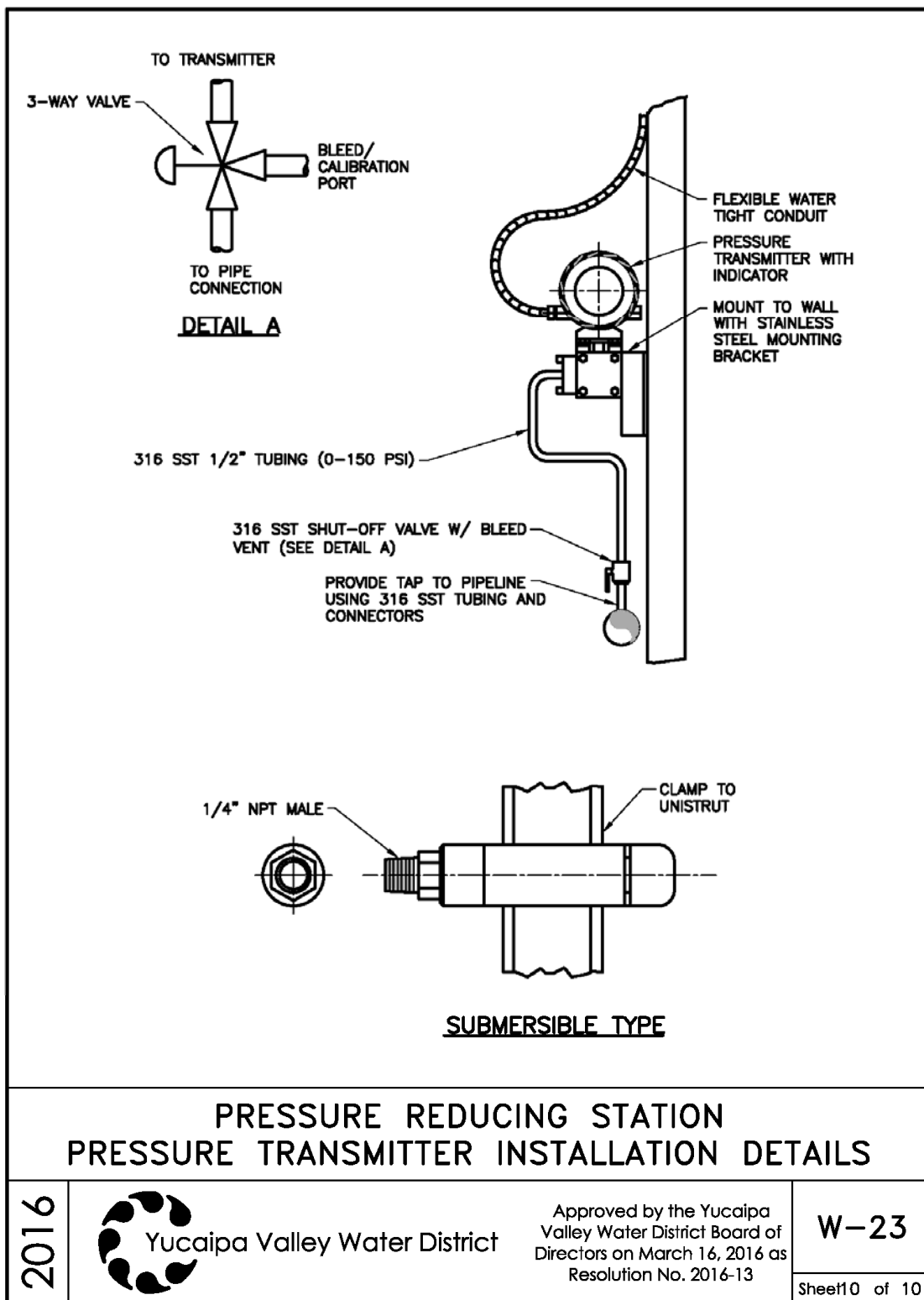
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| 2016 |  Yucaipa Valley Water District | Approved by the Yucaipa<br>Valley Water District Board of<br>Directors on March 16, 2016 as<br>Resolution No. 2016-13 | W-23          |
|      |   |   | Sheet 6 of 10 |

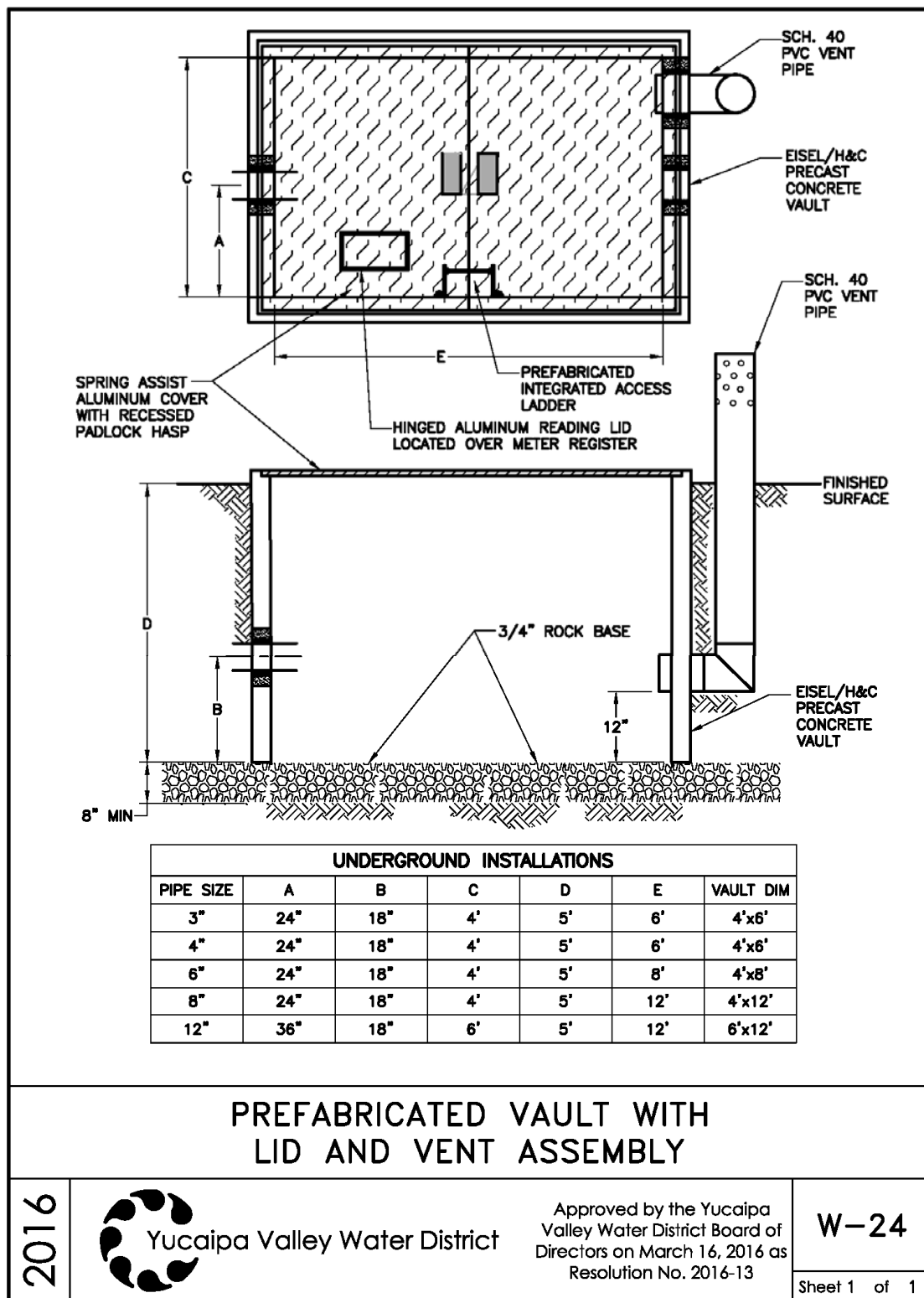


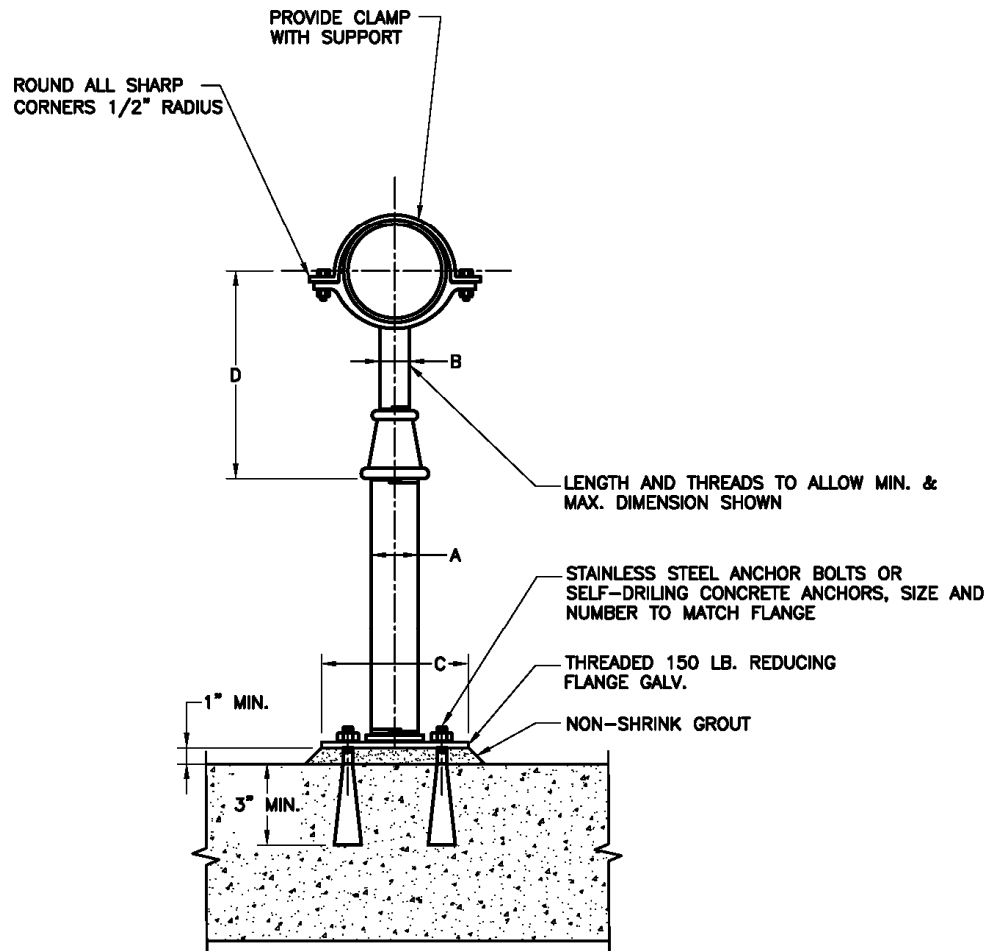


| LIST OF TELEMETRY CABINET COMPONENTS           |   |   |               |  |   |
|--|---|---|---------------|--|---|
| ITEM NO.                                       | QTY.  | DESCRIPTION   | PART NUMBER   | MANUFACTURER   | TYPE  |
| 1  | 1   |   |               |  |   |
| 1  | 2   | MULTIPLEXER   | 245-19        | BIF/AQUA   | FREQ. T.B.D.  |
| 1  | 1   | TRANSMITTER   | 245-05        | BIF/AQUA   | FREQ. T.B.D.  |
| 1  | 1   | RECEIVER  | 245-09        | BIF/AQUA   | FREQ. T.B.D.  |
| 1  | 1   | DEMULTIPLEXER   | 245-20        | BIF/AQUA   | FREQ. T.B.D.  |
| 2  | 1   | DC POWER SUPPLY   | HC-28-2-A     | POWER-ONE  | 28VDC, 2A   |
| 3  | 3   | CONTROL RELAYS  | RR2P-UL-120   | IDEC   | 2PDT  |
| 4  | 1   | TIME DELAY RELAY  | TCB-115-2-10  | R-K  | ON DELAY  |
| 4  | 2   | TIME DELAY RELAY  | TFB-115-2-180 | R-K  | OFF DELAY   |
| 5  | 1   | LOW VOLTAGE PROTECTOR   | 258-40        | BIF/AQUA   | ELECTRONIC  |
| 6  | 8   | POWER/SIGNAL TERM.  | 1492-CA1      | ALLEN-BRADLEY  | 600V, 55A   |
| 7  | 1   | LINE SURGE PROTECTOR  | 245-23        | BIF/AQUA   | ELECTRONIC  |
| 8  | 1   | POWER TRANSFER UNIT   | 258-36        | BIF/AQUA   | ELECTRONIC  |
| 9  | 8   | POWER/SIGNAL TERM.  | 1492-CA1      | ALLEN-BRADLEY  | 600V, 55A   |
| 10   | 48  | TELEMETRY TERMINALS   | UK4           | PHOENIX  | 600V, 20A   |
| 11   | 1   | UTILITY RECEPTACLE  | 1591FI        | PASS & SEYMOUR   | GFI 15A   |
| 12   | 1   | TELEPHONE CO. RECPT.  | GE5251-2      | G.E.   | SIMPLEX 15A   |
| 13   | 1   | SPACE HEATER  | D-AH4001B     | HOFFMAN  | 400 WATT  |
| 14   | 4   | GELL CELL BATTERY   | NP24-12       | YUASA-EXIDE  | 12V 24AH  |
| 15   | 1   | PLYWOOD BAT. SUPPORT  | N/A           |  |   |
| 16   | 1   | FLUORESCENT LIGHT   | 2V687/1V173   | GRAINGER   | 15 WATT   |
| 17   | 1   | INTRUSION LIGHT SWITCH  | 10316H2042    | CUTLER-HAMMER  | LIMIT SWITCH  |
| 18   | 1   | INTRUSION AL. OVERRIDE  | 10250T15113   | CUTLER-HAMMER  | 2 POS. SEL SW.  |
| <div>19</div>                                  | 1   | TELEMETRY CABINET.<br>THREE POINT PAD<br>LOCKABLE DOOR HANDLE.<br>SOLID BOTTOM. | LS412516AL    | HENNESSY   | NEMA 4X<br>5052-H32<br>ALUMINUM ALLOY<br>0.125" THICK |
| 20   | 1   | CIRCUIT BREAKER   | 1492-CB1H20   | ALLEN-BRADLEY  | 20A ONE POLE  |
| PRESSURE REDUCING STATION<br>TELEMETRY DETAILS |   |   |               |  |   |
| 2016   | <div></div> <div>Yucaipa Valley Water District</div> |   |               | Approved by the Yucaipa Valley Water District Board of Directors on March 16, 2016 as Resolution No. 2016-13 |   |
|  |   |   |               | W-23   |   |
| Sheet 8 of 10                                  |   |   |               |  |   |







**NOTE:**

1. PIPE SUPPORT SHALL BE GRINNEL FIG. 264, ELCEN FIG. 50, OR EQUAL.

## ADJUSTABLE PIPE SUPPORT

2016



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### ADJUSTABLE PIPE SADDLE SUPPORT SCHEDULE DIMENSIONS IN INCHES

| PIPE<br>SIZE | A     | B     | C      | D       |         |
|--------------|-------|-------|--------|---------|---------|
|              |       |       |        | MINIMUM | MINIMUM |
| 2 1/2        | 2 1/2 | 1 1/2 | 9      | 8       | 13      |
| 3            | 2 1/2 | 1 1/2 | 9      | 8 1/2   | 13 1/2  |
| 3 1/2        | 2 1/2 | 1 1/2 | 9      | 8 1/2   | 13 1/2  |
| 4            | 3     | 2 1/2 | 9      | 9 1/2   | 14      |
| 6            | 3     | 2 1/2 | 9      | 10 1/2  | 15 1/2  |
| 8            | 3     | 2 1/2 | 9      | 11 1/2  | 16 1/2  |
| 10           | 3     | 2 1/2 | 9      | 13 1/2  | 18 1/2  |
| 12           | 3     | 2 1/2 | 9      | 15      | 19 1/2  |
| 14           | 4     | 3     | 11     | 16 1/2  | 20 1/2  |
| 16           | 4     | 3     | 11     | 17 1/2  | 22 1/2  |
| 18           | 6     | 3 1/2 | 13 1/2 | 19 1/2  | 24      |
| 20           | 6     | 3 1/2 | 13 1/2 | 21      | 25 1/2  |
| 24           | 6     | 4     | 13 1/2 | 23 1/2  | 28 1/2  |
| 30           | 6     | 4     | 13 1/2 | 27      | 31 1/2  |
| 32           | 6     | 4     | 13 1/2 | 28 1/2  | 32 1/2  |
| 36           | 6     | 4     | 13 1/2 | 30 1/2  | 34 1/2  |

### ADJUSTABLE PIPE SUPPORT

2016



Yucaipa Valley Water District

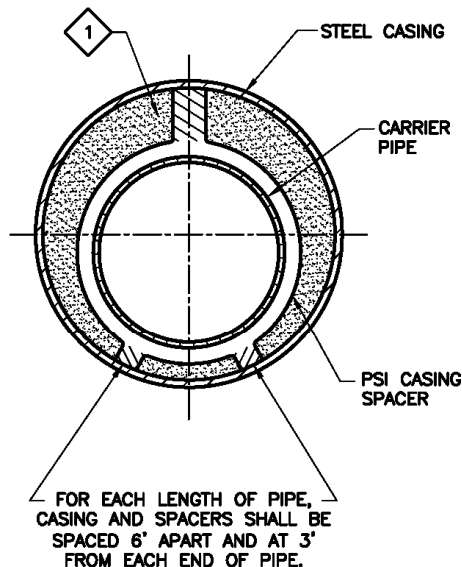
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Valley Water District Board of  
Directors on March 16, 2016 as  
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### SCHEDULE STEEL CASING

| NOMINAL<br>CARRIER<br>PIPE SIZE | MINIMUM<br>CASING SIZE | MIN.<br>WALL<br>THICK. |
|---------------------------------|------------------------|------------------------|
| 4"                              | 10 3/4" O.D.           | 1/4"                   |
| 6"                              | 12 3/4" O.D.           | 1/4"                   |
| 8"                              | 16" O.D.               | 5/16"                  |
| 12"                             | 24" O.D.               | 3/8"                   |
| 16"                             | 30" O.D.               | 3/8"                   |
| 20"                             | 36" O.D.               | 3/8"                   |
| 24"                             | 36" O.D.               | 3/8"                   |
| 30"                             | 48" O.D.               | 3/8"                   |



#### NOTES:

1. THE ANNULAR SPACE BETWEEN THE CASING AND THE CARRIER PIPE SHALL BE FILLED WITH AIR-BLOWN SAND.
2. CASING SHALL BE INSTALLED BY THE BORE, JACK AND/OR TUNNEL METHOD.
3. SIZE AND THICKNESS OF CASING SHALL BE AS SHOWN IN SCHEDULE. FOR LONG BORES OR SPECIAL SITUATIONS, GREATER WALL THICKNESS THAN SHOWN IN THE SCHEDULE MAY BE REQUIRED.
4. ALL STEEL CASING PIPE FIELD JOINTS SHALL BE WELDED FULL-CIRCUMFERENCE.
5. PSI CASING SPACERS SHALL BE PROVIDED PER DETAIL ABOVE.
6. CARRIER PIPE SHALL BE PRESSURE TESTED PRIOR TO FILLING CASING.
7. EACH END OF CASING SHALL BE SEALED WITH CONCRETE.
8. CONTRACTOR SHALL FURNISH ALL NECESSARY THRUST RESTRAINT DEVICES.
9. BACK FILL FOR CASING IN OPEN CUT SHALL BE IN ACCORDANCE WITH YVWD STD. DWG. W-30.
10. PSI CASING SPACERS REQUIRED, SIZE PER PLAN.

### STEEL CASING PIPE

2016



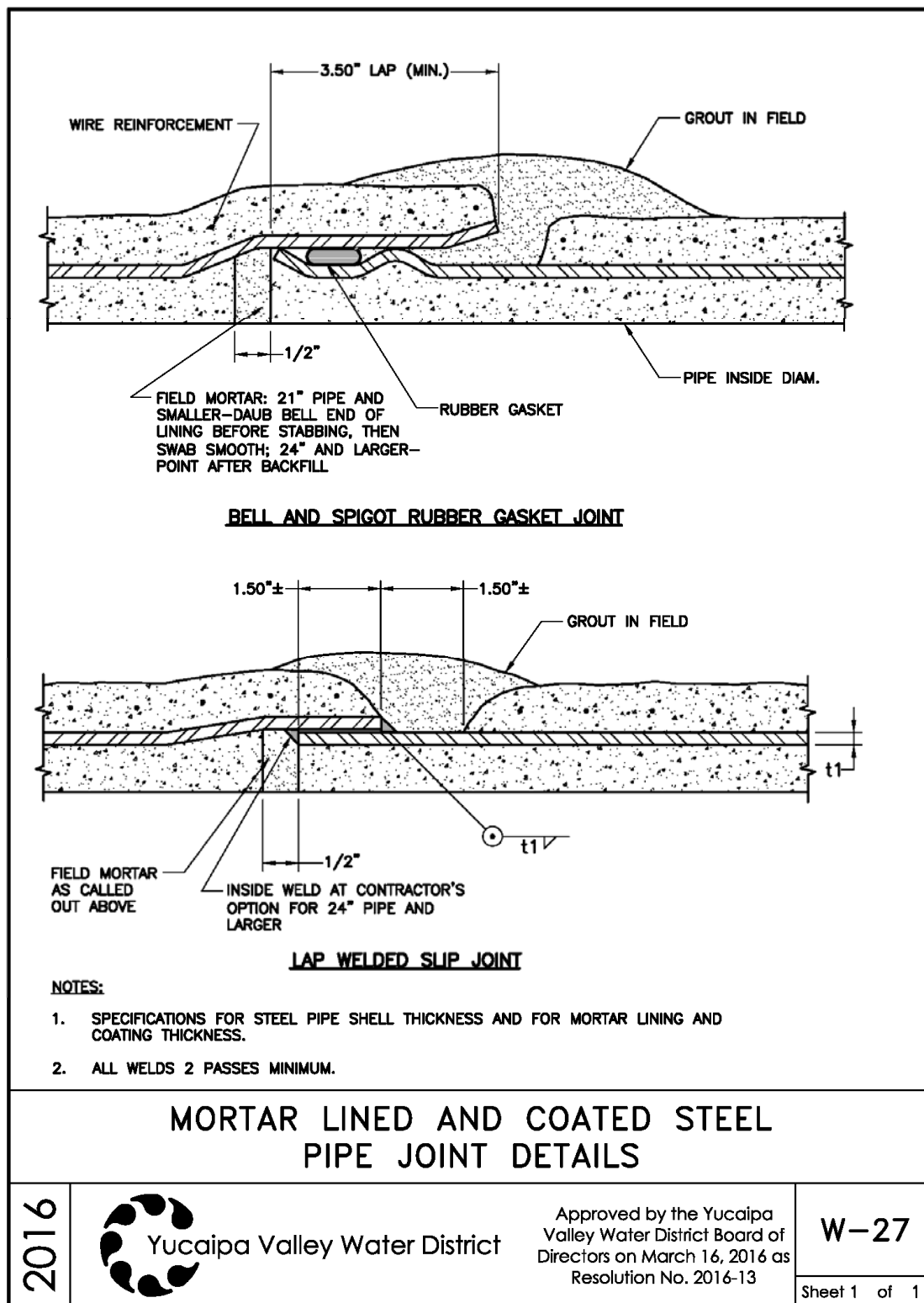
Yucaipa Valley Water District

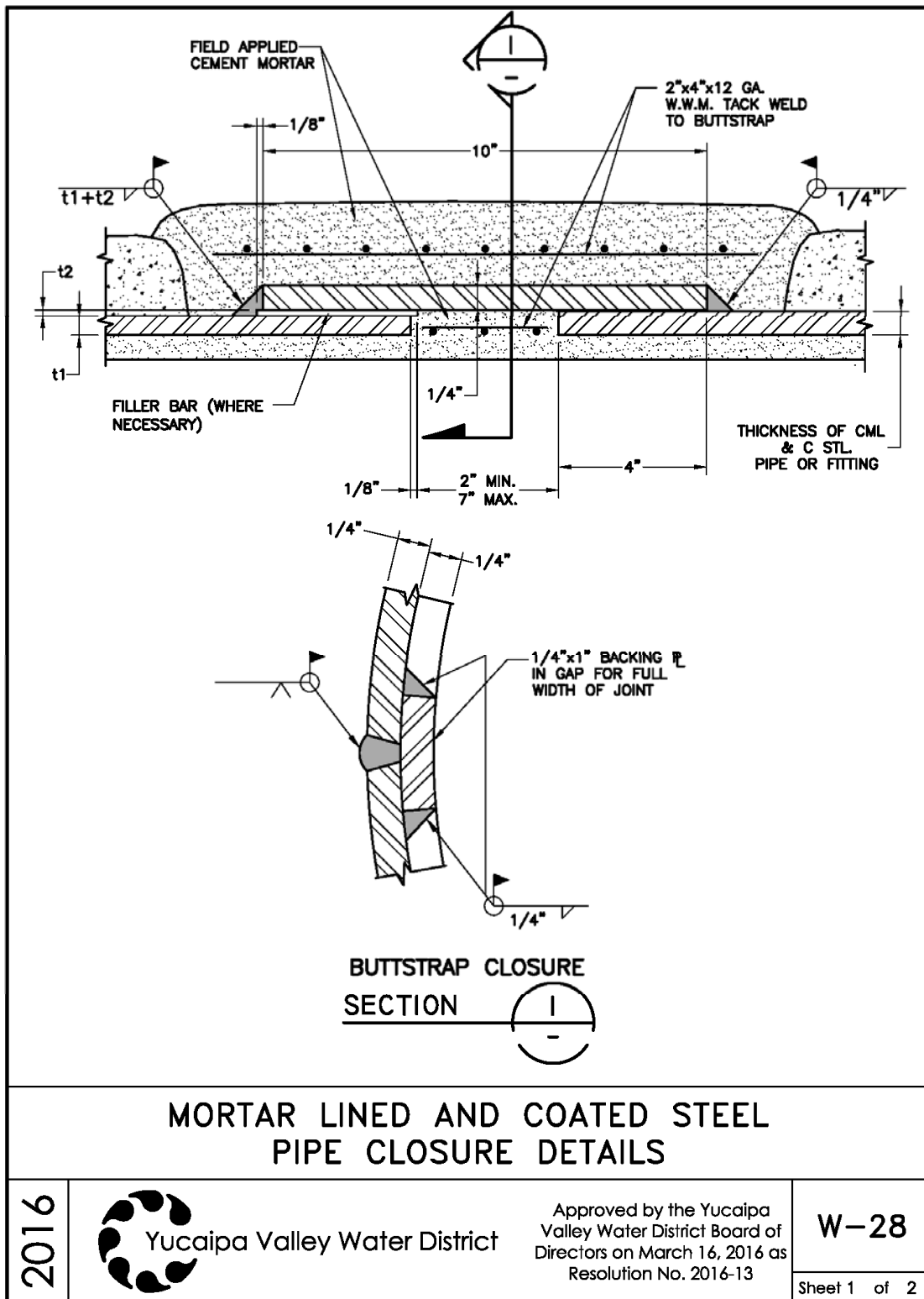
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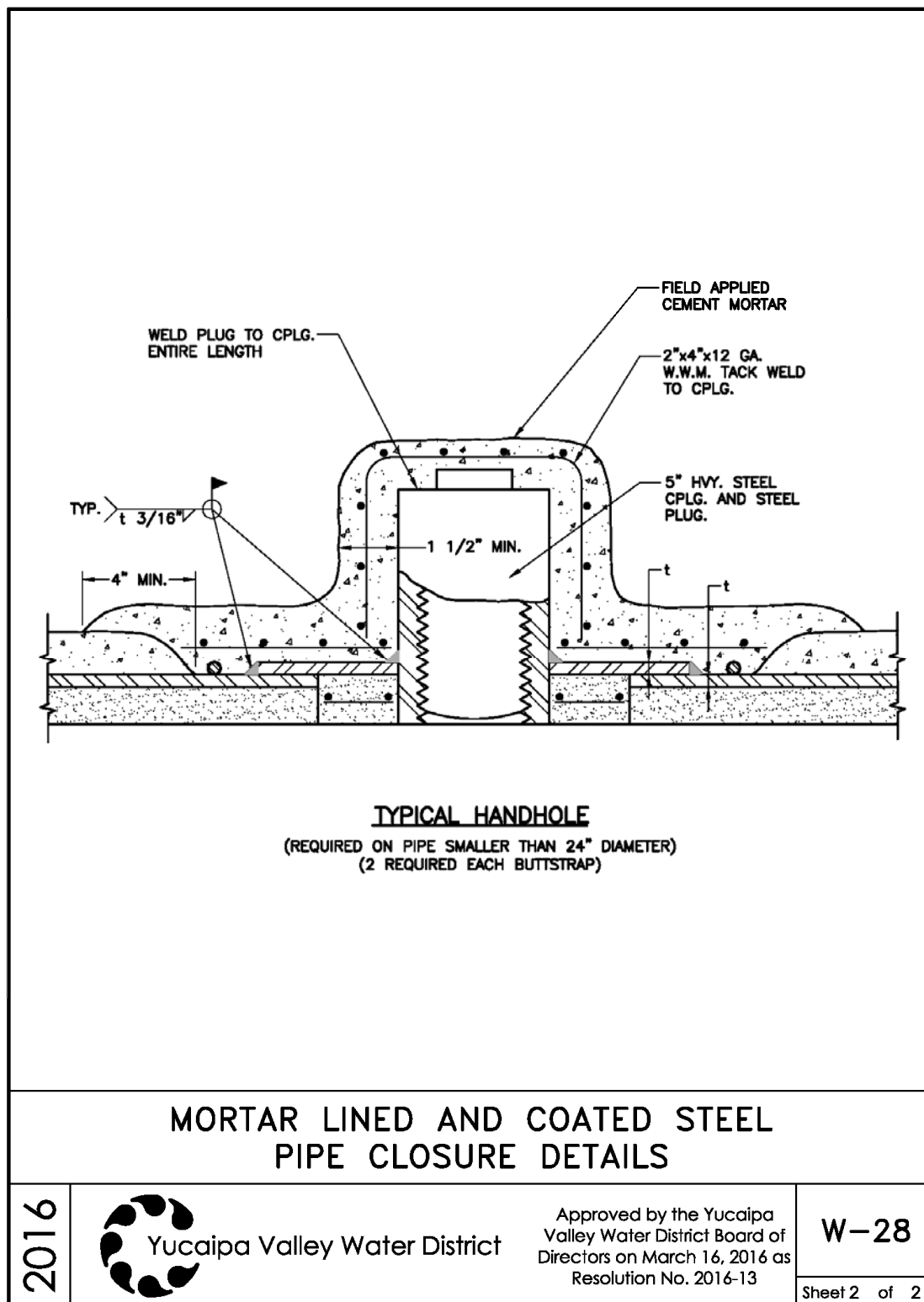
W-26

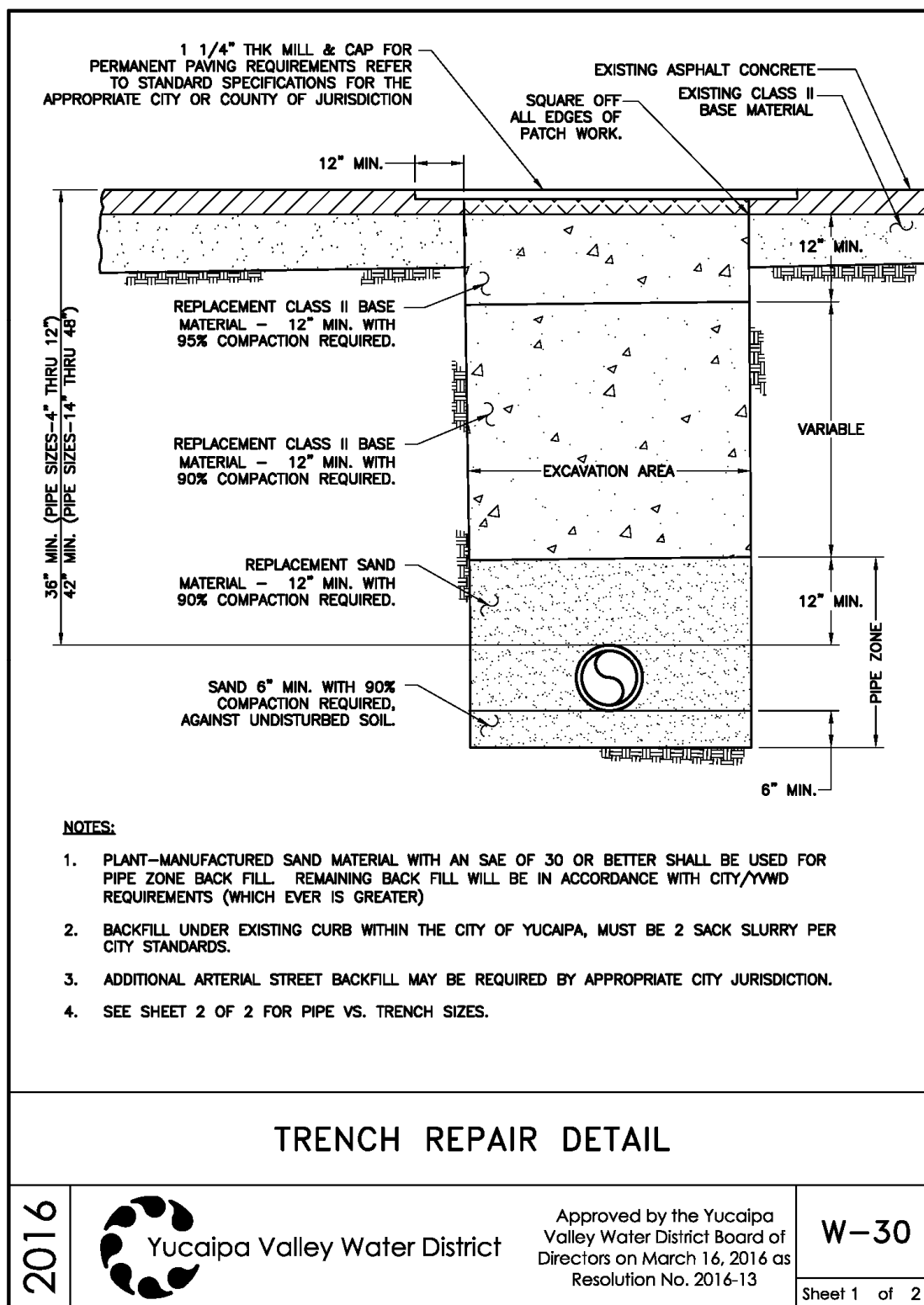
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| TRENCH REPAIR—PIPE SIZE VS TRENCH SIZE |                     |         |
|--|---------------------|---------|
| PIPE SIZE—INCHES<br>(INSIDE DIAMETER)  | TRENCH WIDTH—INCHES |         |
|  | MINIMUM             | MAXIMUM |
| 4                                      | 18                  | 24      |
| 6                                      | 20                  | 30      |
| 8                                      | 24                  | 32      |
| 10                                     | 24                  | 36      |
| 12                                     | 30                  | 36      |
| 14                                     | 32                  | 42      |
| 16                                     | 34                  | 42      |
| 24                                     | 38                  | 46      |
| 29                                     | 42                  | 46      |
| 30                                     | 46                  | 48      |
| 36                                     | —                   | —       |
| 48                                     | —                   | —       |

## TRENCH REPAIR DETAIL

2016

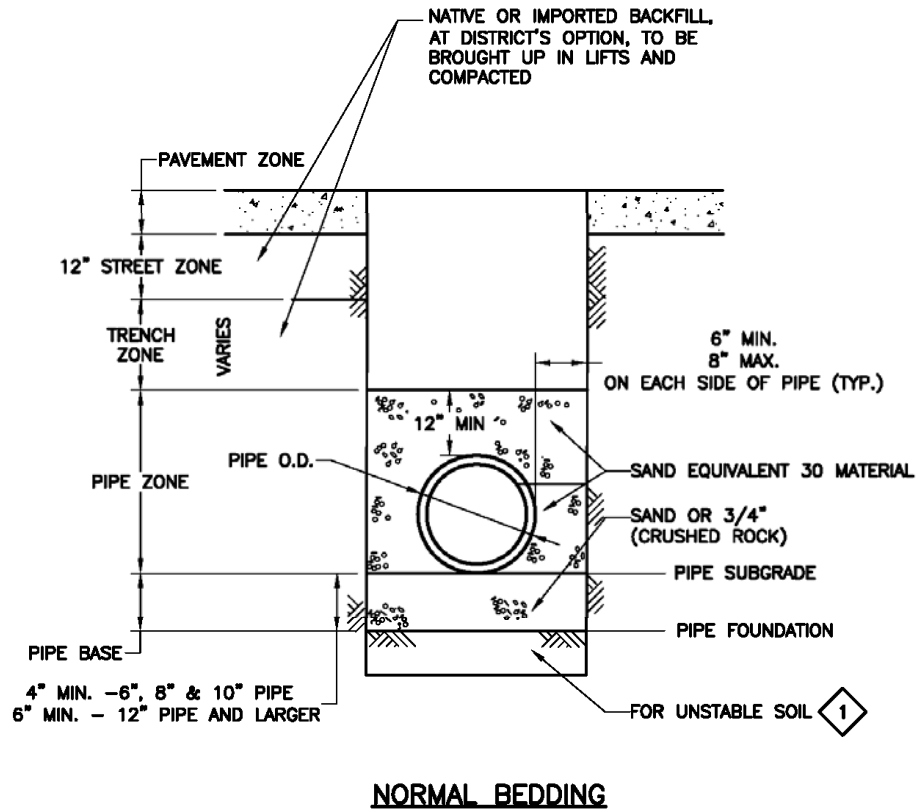


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## PIPE BEDDING DETAIL

2016

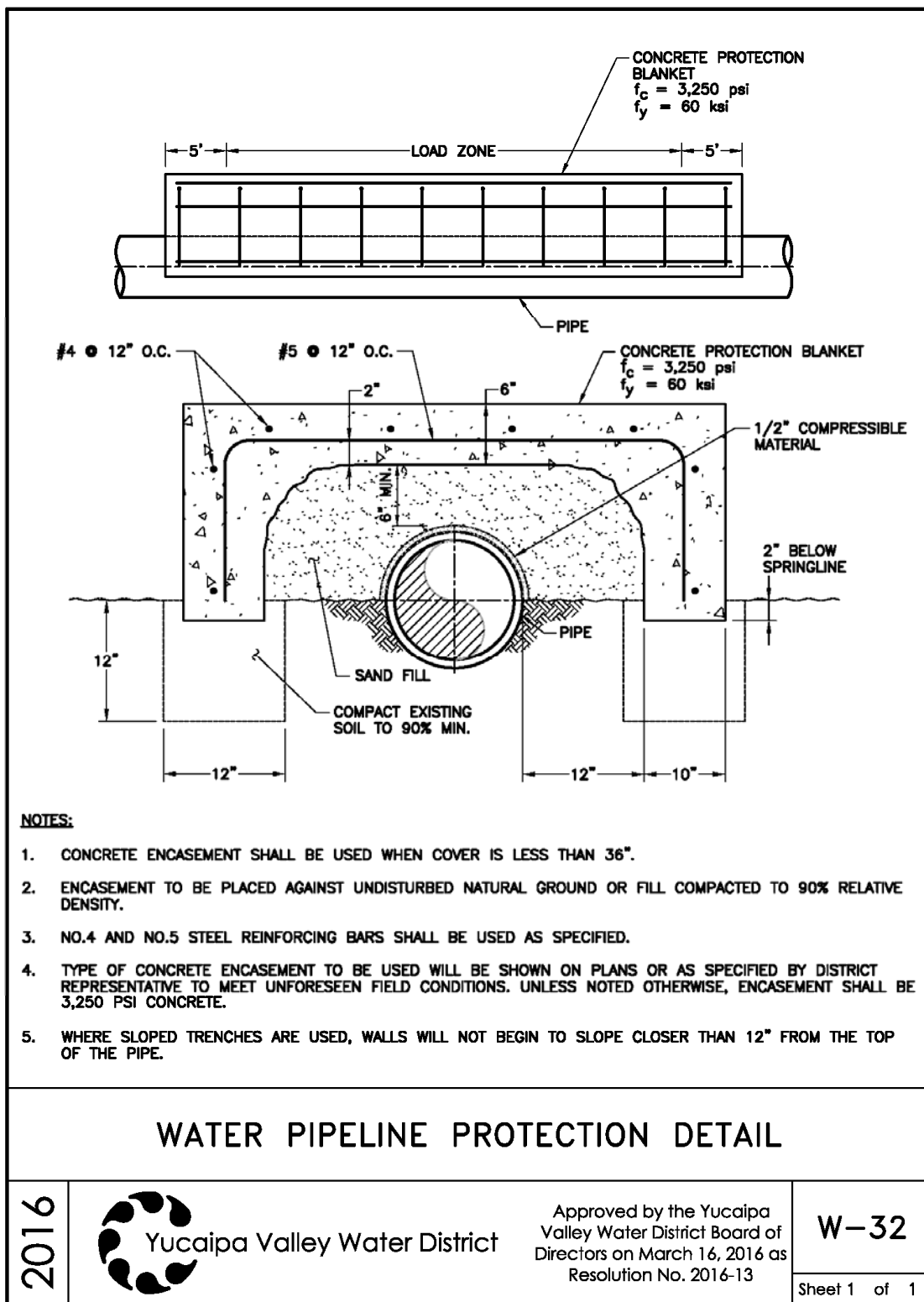


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Yucaipa Valley Water District

12770 Second Street, Yucaipa, California 92399 Phone: (909) 797-5117

# **Standard Specifications for the Design and Processing, Furnishing of Materials, and Construction of Recycled Water Facilities**

March 16, 2016



## YVWD RECYCLED WATER FACILITY STANDARDS DRAWING INDEX (NUMERICAL)

|      |   |
|------|---|
| R-1  | STANDARD LEGEND   |
| R-2  | RECYCLED WATER PIPELINE LOCATION  |
| R-3  | RECYCLED WATER NOTES FOR NON-RESIDENTIAL SITES                              |
| R-4  | RECYCLED WATER NOTES – FOR ONSITE RESIDENTIAL USE                           |
| R-5  | 3/4" DUAL RECYCLED WATER METER ASSEMBLY                                     |
| R-6  | 1" RECYCLED WATER METER ASSEMBLY  |
| R-7  | 1 1/2" AND 2" RECYCLED WATER SERVICE INSTALLATION                           |
| R-15 | 1" AND 2" RECYCLED WATER AIR AND VACUUM VALVE ASSEMBLIES                    |
| R-19 | 4" RECYCLED WATER BLOW-OFF ASSEMBLY   |
| R-20 | RESIDENTIAL DUAL PLUMBED SERVICE SCHEMATIC                                  |
| R-21 | RESIDENTIAL LOT IRRIGATION LAYOUT PLAN SUBMITAL EXAMPLE                     |
| R-22 | ONSITE IRRIGATION PIPELINE TRENCHING DETAIL FOR PLANNED RECYCLED WATER USE  |
| R-23 | NON-RESIDENTIAL RECYCLED WATER CROSS-CONNECTION CONTROL TEST STATION DETAIL |
| R-24 | ONSITE IRRIGATION AUTOMATIC CONTROLLER – WALL MOUNT                         |
| R-25 | ONSITE IRRIGATION BURIED ELECTRIC REMOTE CONTROL VALVE                      |

**NOTE:** – DRAWINGS R-8 THRU R-14 ARE NOT IN USE  
 – (W) DRAWINGS LISTED BELOW ARE YVWD WATER STANDARD DRAWINGS APPLICABLE TO RECYCLED FACILITIES.

|      |  |
|------|--|
| W-1  | STANDARD LEGEND  |
| W-3  | UTILITY LOCATIONS – SECTIONS                           |
| W-6  | MANIFOLD ASSEMBLY FOR FOUR TO TEN 3/4" AND 1" SERVICES |
| W-8  | 3" AND 4" WATER METER INSTALLATION                     |
| W-9  | 6" AND 8" WATER METER INSTALLATION                     |
| W-10 | DOUBLE CHECK BACKFLOW ASSEMBLY                         |
| W-11 | REDUCED PRESSURE BACKFLOW ASSEMBLY                     |
| W-16 | WATER QUALITY SAMPLING STATION                         |
| W-18 | RESIDENTIAL FIRE HYDRANT INSTALLATION                  |
| W-20 | VALVE AND VALVE BOX INSTALLATION                       |
| W-21 | VALVE STEM EXTENSION                                   |
| W-22 | THRUST BLOCK DETAILS FOR RETROFIT ONLY                 |
| W-23 | PRESSURE REDUCING STATION DETAILS                      |
| W-24 | PREFABRICATED VAULT AND LID WITH VENT ASSEMBLY         |
| W-25 | ADJUSTABLE PIPE SUPPORT                                |
| W-26 | STEEL CASING PIPE                                      |
| W-30 | TRENCH REPAIR DETAIL                                   |
| W-31 | PIPE BEDDING DETAIL                                    |
| W-32 | WATER PIPELINE PROTECTION DETAIL                       |

## RECYCLED WATER STANDARD INDEX

2016



Yucaipa Valley Water District

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## YVWD RECYCLED WATER FACILITY STANDARDS DRAWING INDEX (SUBJECT)

**STANDARDS**

|     |   |
|-----|---|
| R-1 | STANDARD LEGEND                                   |
| R-2 | RECYCLED WATER PIPELINE LOCATION                  |
| R-3 | RECYCLED WATER NOTES FOR NON-RESIDENTIAL SITES    |
| R-4 | RECYCLED WATER NOTES – FOR ONSITE RESIDENTIAL USE |

|      |                              |
|------|------------------------------|
| W-1  | STANDARD LEGEND              |
| W-3  | UTILITY LOCATIONS – SECTIONS |
| W-30 | TRENCH REPAIR DETAIL         |
| W-31 | PIPE BEDDING DETAIL          |

**SERVICES**

|      |  |
|------|--|
| R-5  | 3/4" DUAL RECYCLED WATER METER ASSEMBLY                |
| R-6  | 1" RECYCLED WATER METER ASSEMBLY                       |
| R-7  | 1 1/2" AND 2" RECYCLED WATER SERVICE INSTALLATION      |
| R-15 | 1" AND 2" RECYCLED WATER AIR AND VACUUM VALVE ASSEMBLY |

|      |  |
|------|--|
| W-6  | MANIFOLD ASSEMBLY FOR FOUR TO TEN 3/4" AND 1" SERVICES |
| W-8  | 3" AND 4" WATER METER INSTALLATION                     |
| W-9  | 6" AND 8" WATER METER INSTALLATION                     |
| W-16 | WATER QUALITY SAMPLING STATION                         |
| W-24 | PREFABRICATED VAULT AND LID WITH VENT ASSEMBLY         |

**SERVICE PROTECTION**

|      |                                    |
|------|------------------------------------|
| W-10 | DOUBLE CHECK BACKFLOW ASSEMBLY     |
| W-11 | REDUCED PRESSURE BACKFLOW ASSEMBLY |

**BLOW-OFF AND VALVES**

|      |                                       |
|------|---------------------------------------|
| R-19 | 4" RECYCLED WATER BLOW-OFF ASSEMBLY   |
| W-18 | RESIDENTIAL FIRE HYDRANT INSTALLATION |
| W-20 | VALVE AND VALVE BOX INSTALLATION      |
| W-21 | VALVE STEM EXTENSION                  |

**NOTE:** W- DWGS LISTED ARE YVWD WATER STANDARD DRAWINGS APPLICABLE  
TO RECYCLED FACILITIES.

## RECYCLED WATER STANDARD INDEX

2016



Yucaipa Valley Water District

Approved by the Yucaipa  
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## YVWD RECYCLED WATER FACILITY STANDARDS

### DRAWING INDEX (SUBJECT)

PIPE AND CASING DETAILS

- W-22      THRUST BLOCK DETAILS FOR RETROFIT ONLY  
 W-26      STEEL CASING PIPE  
 W-32      WATER PIPELINE PROTECTION DETAIL

PRESSURE REDUCING STATION AND VAULT DETAILS

- W-23      PRESSURE REDUCING STATION DETAILS  
 W-24      PREFABRICATED VAULT AND LID WITH VENT ASSEMBLY  
 W-25      ADJUSTABLE PIPE SUPPORT

IRRIGATION DESIGN REQUIREMENT DETAILS

- R-20      RESIDENTIAL DUAL PLUMBED SERVICE SCHEMATIC  
 R-21      HOUSE IRRIGATION LAYOUT PLAN SUBMITAL EXAMPLE  
 R-22      ONSITE IRRIGATION PIPELINE TRENCHING DETAIL FOR PLANNED RECYCLED WATER USE  
 R-23      NON-RESIDENTIAL RECYCLED WATER CROSS-CONNECTION CONTROL TEST STATION DETAIL  
 R-24      ONSITE IRRIGATION AUTOMATIC CONTROLLER – WALL MOUNT  
 R-25      ONSITE IRRIGATION BURIED ELECTRIC REMOTE CONTROL VALVE

NOTE: W- DWGS LISTED ARE YVWD WATER STANDARD DRAWINGS APPLICABLE  
TO DUAL PLUMBED FACILITIES.

## RECYCLED WATER STANDARD INDEX

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**IRRIGATION LEGEND**

|   |                                 |   |
|---|---------------------------------|---|
|    | REMOTE CONTROL VALVE            | ELECTRIC CONTROL VALVE WITH RECYCLED ID TAGS                                |
|    | PRESSURE REGULATING VALVE       | WILKINS 70 SERIES, 3/4" SIZE  |
|    | ISOLATION VALVE                 | WITH RECYCLED ID TAGS   |
|    | IRRIGATION CONTROLLER           | EXTERIOR MOUNT WITH RECYCLED WATER LABEL                                    |
|    | POTABLE WATER HOSE BIB          |   |
|    | VALVE                           |   |
|    | BACKFLOW PREVENTER              |   |
|    | RECYCLED WATER MAINLINE         | SCH. 40 PURPLE PVC PIPE, SIZE PER PLAN                                      |
|    | POTABLE WATER MAINLINE          | SCH 40 WHITE PVC WITH 3" WARNING TAPE                                       |
|    | RECYCLED WATER LATERAL          | CLASS 200 PURPLE PVC PIPE, SIZE PER PLAN<br>FOR NON-CONSTANT PRESSURE PIPE. |
|    | RECYCLED WATER SLEEVING         | 2" MIN. SCHEDULE 40 PURPLE PVC PIPE   |
|  | POTABLE WATER FEATURE FILL LINE | COPPER TUBING, TYPE K   |
|  | POINT OF CONNECTION (P.O.C.)    | LOCKED VALVE TO BACK YARD   |

|   |                                     |
|---|-------------------------------------|
|  | INDICATES CONTROLLER STATION NUMBER |
|   | INDICATES GALLONS PER MINUTE        |
|   | INDICATES REMOTE CONTROL VALVE SIZE |

**NOTE:**

1. INSTALLATION OF RECYCLED WATER IRRIGATION SYSTEM SHALL BE IN CONFORMANCE WITH YVWD ON-SITE DESIGN AND CONSTRUCTION STANDARDS.

**STANDARD LEGEND**

2016

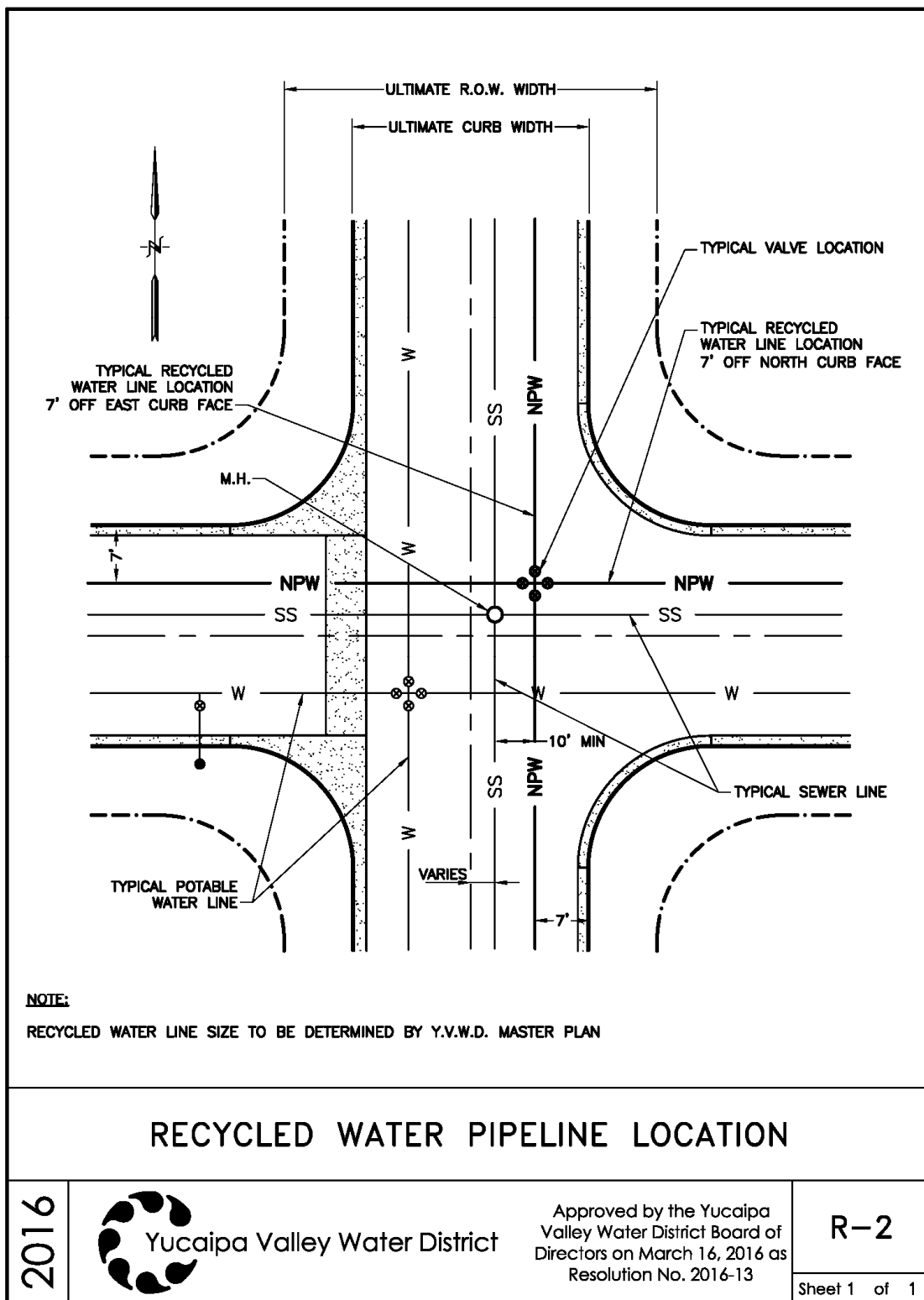


Yucaipa Valley Water District

Approved by the Yucaipa  
Valley Water District Board of  
Directors on March 16, 2016 as  
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Sheet 1 of 1



1. THE INSTALLATION OF THE RECYCLED WATER SYSTEM SHALL BE ACCOMPLISHED UNDER THE APPROVAL, INSPECTION, AND TO THE SATISFACTION OF THE YUCAIPA VALLEY WATER DISTRICT (YVWD).
2. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH YVWD AT (909)797-5117 TWO (2) WORKING DAYS IN ADVANCE OF STARTING WORK. CONSTRUCTION SHALL BEGIN NO LATER THEN FIVE (5) DAYS AFTER THE PRE-CONSTRUCTION MEETING. YVWD SHALL BE NOTIFIED OF EACH WORKDAY THEREAFTER UNTIL COMPLETION OF THE PROJECT.
3. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR PROVIDING ACCESS TO AND COOPERATION WITH THE DISTRICT INSPECTOR TO PERFORM ALL INSPECTIONS AND TESTING.
4. CONNECTIONS TO THE EXISTING RECYCLED WATER FACILITIES SHALL BE DONE BY A LICENSED CONTRACTOR PER THE YVWD RECYCLED WATER ON-SITE DESIGN AND CONSTRUCTION STANDARDS.
5. THERE SHALL NEVER BE DIRECT CONNECTIONS BETWEEN THE POTABLE AND RECYCLED WATER SYSTEMS.
6. RECYCLED WATER SHALL NOT BE USED FOR ANY PURPOSE OTHER THAN LANDSCAPE IRRIGATION AND APPROVED USES SUCH AS INDUSTRIAL USE OR IMPOUNDMENTS.
7. HOSE BIBS ARE PROHIBITED ON RECYCLED WATER SYSTEMS.
8. WATER USED IN HOSE BIBS SHALL BE POTABLE WATER AND ALL HOSE BIBS SHALL BE AFFIXED TO THE BUILDING.
9. THE POTABLE WATER SYSTEM SHALL BE PROTECTED BY AN APPROVED BACKFLOW PREVENTION DEVICE. THE RECYCLED WATER SERVICE WILL NORMALLY NOT REQUIRE BACKFLOW PROTECTION (AT YVWD DISCRETION).
10. A MINIMUM OF TEN (10) FEET HORIZONTAL SEPARATION MUST BE MAINTAINED AT ALL TIMES BETWEEN THE CONSTANT PRESSURE POTABLE AND RECYCLED WATER LINES. A MINIMUM OF ONE (1) FOOT VERTICAL SEPARATION MUST BE MAINTAINED AT ALL TIMES BETWEEN THE POTABLE AND RECYCLED WATER LINES WITH THE RECYCLED WATERLINE BELOW THE POTABLE.
11. ALL CROSSINGS BETWEEN POTABLE AND RECYCLED WATER LINES SHALL BE AS NEAR TO PERPENDICULAR AS POSSIBLE AND THE RECYCLED WATER LINES SHALL BE SLEEVED A MINIMUM OF FIVE (5) FEET ON BOTH SIDES OF THE POTABLE WATER LINE.
12. THE USE OF CONTINUOUS LETTERING ON 3-INCH MINIMUM WIDTH BLUE TAPE WITH 1-INCH BLACK OR WHITE CONTRASTING LETTERING BEARING THE CONTINUOUS WORDING "POTABLE WATER" PERMANENTLY AFFIXED AT 10-FOOT INTERVALS ATOP ALL HORIZONTAL PIPING, LATERALS, AND MAINS. REFER TO T. CHRISTY'S OR APPROVED EQUAL. IDENTIFICATION TAPE IS NOT NECESSARY FOR EXTRUDED BLUE-COLORED PVC WITH CONTINUOUS WORDING "POTABLE WATER" PRINTED IN CONTRASTING LETTERING ON OPPOSITE SIDES OF THE PIPE.
13. THE USE OF CONTINUOUS LETTERING ON 3-INCH MINIMUM WIDTH PURPLE TAPE WITH 1-INCH BLACK OR WHITE CONTRASTING LETTERING BEARING THE CONTINUOUS WORDING "CAUTION- RECYCLED WATER" PERMANENTLY AFFIXED AT 10-FOOT INTERVALS ATOP ALL HORIZONTAL PIPING, LATERALS, AND MAINS. REFER TO T. CHRISTY'S OR APPROVED EQUAL. IDENTIFICATION TAPE IS NOT NECESSARY FOR EXTRUDED PURPLE-COLORED PVC WITH CONTINUOUS WORDING "CAUTION - RECYCLED WATER" PRINTED IN CONTRASTING LETTERING ON OPPOSITE SIDES OF THE PIPE.

(CONTINUED ON SHEET 2 OF 2)

## RECYCLED WATER NOTES FOR NON-RESIDENTIAL SITES

2016



Yucaipa Valley Water District

Approved by the Yucaipa  
Valley Water District Board of  
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(CONTINUED FROM SHEET 1 OF 2)

14. ALL NEW BURIED RECYCLED WATER LINES (PRESSURE/NON-PRESSURE) MUST BE PURPLE-COLORED SCHEDULE 40 (MINIMUM) PVC PIPE WITH CONTINUOUS WORDING "CAUTION – RECYCLED WATER" PRINTED ON OPPOSITE SIDES OF THE PIPE.
15. RECYCLED WATER ISOLATION AND CONTROL VALVE BOXES SHALL BE WEATHERPROOF PURPLE PLASTIC AND MARKED "RECYCLED WATER". \*NOTE-ALL CONTROL VALVES SHALL BE BURIED BELOW GRADE AUTOMATIC CONTROL VALVES OPERATED BY A PROGRAMMABLE CONTROLLER. ABOVE GROUND ANTI-SIPHON CONTROL VALVES ARE NOT ALLOWED.
16. ALL RECYCLED WATER IRRIGATION SYSTEM CONTROL VALVES, ISOLATION VALVES, QUICK COUPLERS, REGULATORS, AND APPURTENANCES SHALL BE TAGGED. IDENTIFICATION SHALL BE WEATHERPROOF PURPLE PLASTIC, 3-INCHES BY 4-INCHES AND IMPRINTED WITH "WARNING RECYCLED WATER – DO NOT DRINK" IN BOTH ENGLISH AND SPANISH. REFER TO T. CHRISTY'S OR APPROVED EQUAL.
17. ALL AREAS WHERE RECYCLED WATER IS USED SHALL BE POSTED WITH APPROVED SIGNAGE. EACH SIGN SHALL STATE "RECYCLED WATER – DO NOT DRINK" AND DISPLAY THE INTERNATIONAL "DO NOT DRINK" SYMBOL.
18. BEFORE ACTIVATION OF THE POTABLE WATER SERVICE THE BACKFLOW DEVICE SHALL BE TESTED AND APPROVED BY A LICENSED BACKFLOW TESTER. ARRANGEMENTS WITH YVWD MUST BE MADE AT LEAST TWO (2) WORKING DAYS IN ADVANCE TO TURN ON THE POTABLE SERVICE TO ALLOW TESTING OF THE DEVICE. POTABLE WATER SERVICE WILL NOT BE ACTIVATED UNTIL THE BACKFLOW DEVICE PASSES INSPECTION.
19. BEFORE ACTIVATION OF THE RECYCLED WATER SERVICE, A CROSS CONNECTION TEST AND FINAL INSPECTION AND APPROVAL OF THE IRRIGATION SYSTEM SHALL BE PERFORMED. THE PROPERTY OWNER OR CONTRACTOR SHALL ARRANGE WITH THE DISTRICT FOR AN IRRIGATION COVERAGE TEST AND MAKE ANY MODIFICATIONS OR ADJUSTMENTS DEEMED REQUIRED BEFORE FINAL APPROVAL.
20. ALL SPRAY HEADS SHALL BE ADJUSTED TO ELIMINATE OVERSPRAY AND RUNOFF ONTO ADJACENT HARDSCAPES, DRINKING FOUNTAINS OR WATER FEATURES, AND OUTDOOR FURNITURE SUCH AS PICNIC TABLES, ETC.
21. RECYCLED WATER IRRIGATION SYSTEMS SHALL ONLY BE OPERATED BETWEEN THE HOURS OF 9:00 PM AND 6:00 AM.
22. FAILURE TO COMPLY WITH ANY OF THE YUCAIPA VALLEY WATER DISTRICT STANDARDS MAY RESULT IN TERMINATION OF RECYCLED WATER AND/OR POTABLE WATER SERVICE.

## RECYCLED WATER NOTES FOR NON-RESIDENTIAL SITES

2016



Yucaipa Valley Water District

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Valley Water District Board of  
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Sheet 2 of 2

1. THE INSTALLATION OF THE RECYCLED WATER SYSTEM SHALL BE ACCOMPLISHED UNDER THE APPROVAL, INSPECTION, AND TO THE SATISFACTION OF THE YUCAIPA VALLEY WATER DISTRICT (YVWD).
2. THE HOMEOWNER OR CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH YVWD AT (909)797-5118 TWO (2) WORKING DAYS IN ADVANCE OF STARTING WORK. CONSTRUCTION SHALL BEGIN NO LATER THEN FIVE (5) DAYS AFTER THE PRE-CONSTRUCTION MEETING. YVWD SHALL BE NOTIFIED OF EACH WORKDAY THEREAFTER UNTIL COMPLETION OF THE PROJECT.
3. THE HOMEOWNER SHALL BE RESPONSIBLE FOR PROVIDING ACCESS TO AND COOPERATION WITH THE DISTRICT INSPECTOR TO PERFORM ALL INSPECTIONS AND TESTING.
4. CONNECTIONS TO THE EXISTING RECYCLED WATER FACILITIES SHALL BE PERFORMED BY A LICENSED CONTRACTOR IN ACCORDANCE WITH THE YVWD RECYCLED ON-SITE DESIGN AND CONSTRUCTION STANDARDS.
5. THERE SHALL NEVER BE ANY DIRECT CONNECTIONS BETWEEN THE POTABLE AND RECYCLED WATER SYSTEMS.
6. RECYCLED WATER SHALL NOT BE USED FOR ANY PURPOSE OTHER THAN LANDSCAPE IRRIGATION.
7. HOSE BIBS ARE PROHIBITED ON RECYCLED WATER SYSTEMS.
8. WATER USED IN HOSE BIBS SHALL BE POTABLE WATER AND ALL HOSE BIBS SHALL BE AFFIXED TO THE HOUSE.
9. THE POTABLE WATER SYSTEM SHALL BE PROTECTED BY AN APPROVED BACKFLOW PREVENTION DEVICE. THE RECYCLED WATER SERVICE WILL NORMALLY NOT REQUIRE BACKFLOW PROTECTION (AT YVWD DISCRETION).
10. A MINIMUM OF TEN (10) FEET HORIZONTAL SEPARATION MUST BE MAINTAINED AT ALL TIMES BETWEEN THE CONSTANT PRESSURE POTABLE AND RECYCLED WATER LINES. A MINIMUM OF ONE (1) FOOT VERTICAL SEPARATION MUST BE MAINTAINED AT ALL TIMES BETWEEN THE POTABLE AND RECYCLED WATER LINES WITH THE RECYCLED WATER LINE BELOW THE POTABLE.
11. ALL CROSSINGS BETWEEN POTABLE AND RECYCLED WATER LINES SHALL BE AS NEAR TO PERPENDICULAR AS POSSIBLE AND THE RECYCLED WATER LINES SHALL BE SLEEVED A MINIMUM OF FIVE (5) FEET ON BOTH SIDES OF THE POTABLE WATER LINE.
12. THE USE OF CONTINUOUS LETTERING ON 3-INCH MINIMUM WIDTH BLUE TAPE WITH 1-INCH BLACK OR WHITE CONTRASTING LETTERING BEARING THE CONTINUOUS WORDING "POTABLE WATER" PERMANENTLY AFFIXED AT 10-FOOT INTERVALS ATOP ALL HORIZONTAL PIPING, LATERALS, AND MAINS, REFER TO T. CHRISTY'S OR APPROVED EQUAL. IDENTIFICATION TAPE IS NOT NECESSARY FOR EXTRUDED BLUE-COLORED PVC WITH CONTINUOUS WORDING "POTABLE WATER" PRINTED IN CONTRASTING LETTERING ON OPPOSITE SIDES OF THE PIPE.
13. THE USE OF CONTINUOUS LETTERING ON 3-INCH MINIMUM WIDTH PURPLE TAPE WITH 1-INCH BLACK OR WHITE CONTRASTING LETTERING BEARING THE CONTINUOUS WORDING "CAUTION - RECYCLED WATER" PERMANENTLY AFFIXED AT 10-FOOT INTERVALS ATOP ALL HORIZONTAL PIPING, LATERALS, AND MAINS. REFER TO T. CHRISTY'S OR APPROVED EQUAL. IDENTIFICATION TAPE IS NOT NECESSARY FOR EXTRUDED PURPLE-COLORED PVC WITH CONTINUOUS WORDING "CAUTION - RECYCLED WATER" PRINTED IN CONTRASTING LETTERING ON OPPOSITE SIDES OF THE PIPE.

(CONTINUED ON SHEET 2 OF 2)

## RECYCLED WATER NOTES FOR ONSITE RESIDENTIAL USE

2016



Yucaipa Valley Water District

Approved by the Yucaipa  
Valley Water District Board of  
Directors on March 16, 2016 as  
Resolution No. 2016-13

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Sheet 1 of 2



(CONTINUED FROM SHEET 1 OF 2)

14. RECYCLED WATER PIPING SHALL BE PURPLE AND IDENTIFIED AS RECYCLED WATER PIPE BY CONTINUOUS MARKING ON BOTH SIDES. THE MARKINGS SHALL INCLUDE THE FOLLOWING: "WARNING RECYCLED WATER – DO NOT DRINK", NOMINAL PIPE SIZE, PRESSURE RATING, AND ASTM DESIGNATIONS.
15. RECYCLED WATER ISOLATION AND CONTROL VALVE BOXES SHALL BE WEATHERPROOF PURPLE PLASTIC AND MARKED "RECYCLED WATER". \*NOTE – ALL CONTROL VALVES SHALL BE BURIED BELOW GRADE AUTOMATIC CONTROL VALVES OPERATED BY A PROGRAMMABLE CONTROLLER. ABOVE GROUND ANTI-SIPHON CONTROL VALVES ARE NOT ALLOWED.
16. ALL RECYCLED WATER IRRIGATION SYSTEM CONTROL VALVES, ISOLATION VALVES, QUICK COUPLERS, REGULATORS, AND APPURTENANCES SHALL BE TAGGED. IDENTIFICATION SHALL BE WEATHERPROOF PURPLE PLASTIC, 3-INCHES BY 4-INCHES AND IMPRINTED WITH "WARNING RECYCLED WATER – DO NOT DRINK". REFER TO T. CHRISTY'S OR APPROVED EQUAL.
17. ALL AREAS WHERE RECYCLED WATER IS USED SHALL BE POSTED WITH APPROVED SIGNAGE. EACH SIGN SHALL STATE "RECYCLED WATER – DO NOT DRINK" AND DISPLAY THE INTERNATIONAL "DO NOT DRINK" SYMBOL.
18. BEFORE ACTIVATION OF THE POTABLE WATER SERVICE THE BACKFLOW DEVICE SHALL BE TESTED AND APPROVED BY A LICENSED BACKFLOW TESTER. ARRANGEMENTS WITH YVWD MUST BE MADE AT LEAST TWO (2) WORKING DAYS IN ADVANCE TO TURN ON THE POTABLE SERVICE TO ALLOW TESTING OF THE DEVICE. POTABLE WATER SERVICE WILL NOT BE ACTIVATED UNTIL THE BACKFLOW DEVICE PASSES INSPECTION.
19. BEFORE ACTIVATION OF THE RECYCLED WATER SERVICE, A CROSS CONNECTION TEST AND FINAL INSPECTION AND APPROVAL OF THE IRRIGATION SYSTEM SHALL BE PERFORMED. THE PROPERTY OWNER OR CONTRACTOR SHALL ARRANGE WITH THE DISTRICT FOR AN IRRIGATION COVERAGE TEST AND MAKE ANY MODIFICATIONS OR ADJUSTMENTS DEEMED REQUIRED BEFORE FINAL APPROVAL.
20. ALL SPRAY HEADS SHALL BE ADJUSTED TO ELIMINATE OVERSPRAY AND RUNOFF ONTO ADJACENT HARDSCAPES, DRINKING FOUNTAINS OR WATER FEATURES, AND OUTDOOR FURNITURE SUCH AS PICNIC TABLES, ETC.
21. RECYCLED WATER IRRIGATION SYSTEMS SHALL ONLY BE OPERATED BETWEEN THE HOURS OF 9:00 PM AND 6:00 AM.
22. FAILURE TO COMPLY WITH ANY OF THE YUCAIPA VALLEY WATER DISTRICT STANDARDS MAY RESULT IN TERMINATION OF RECYCLED WATER AND/OR POTABLE WATER SERVICE.

## RECYCLED WATER NOTES FOR ONSITE RESIDENTIAL USE

2016

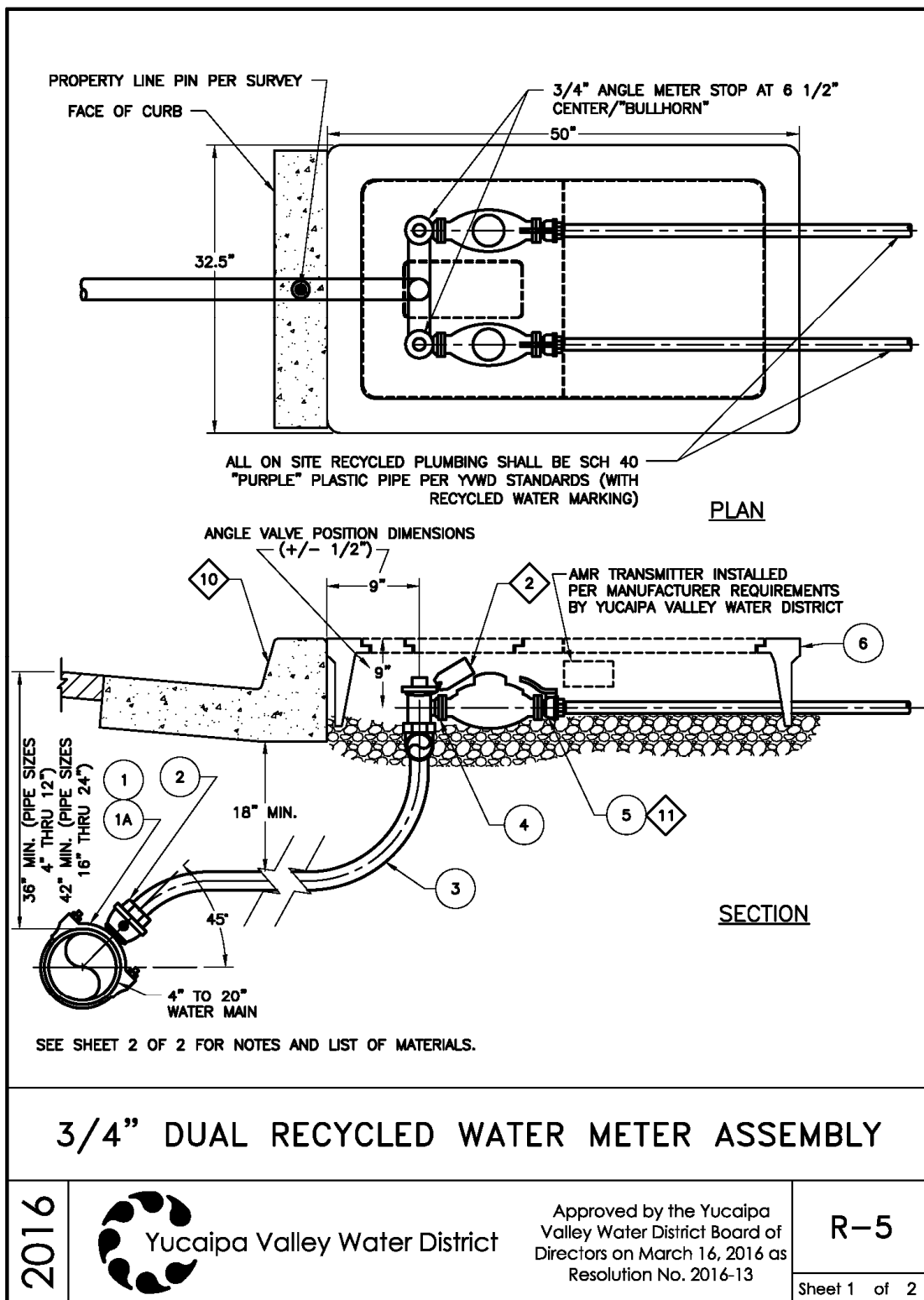


Yucaipa Valley Water District

Approved by the Yucaipa  
Valley Water District Board of  
Directors on March 16, 2016 as  
Resolution No. 2016-13

R-4

Sheet 2 of 2



**NOTES:**

1. SERVICE SADDLE SHALL NOT BE INSTALLED WITHIN 12-INCHES OF VALVE, COUPLING, JOINT OR FITTING.
2. METERS SHALL BE TAGGED. IDENTIFICATION SHALL BE WEATHERPROOF PURPLE PLASTIC, 3-INCHES BY 4-INCHES WITH THE WORDS "WARNING RECYCLED WATER – DO NOT DRINK". IMPRINTING SHALL BE PERMANENT AND BLACK IN COLOR. USE TAGS MANUFACTURED BY T. CHRISTY ENTERPRISES OR APPROVED EQUAL.
3. SET TOP OF METER BOX FLUSH WITH SIDEWALK OR TOP OF CURB AS SHOWN.
4. THE CORPORATION STOP TAP SHALL BE MADE AT A 45° DEGREE ANGLE FROM THE TOP OF PIPE.
5. THE WATER SERVICE SHALL EXTEND PERPENDICULAR TO CENTERLINE OF STREET FROM THE WATER MAIN TO THE STOP.
6. METER BOX SHALL BE SET BEHIND CURB WHERE SIDEWALK IS ADJACENT TO CURB, OR IN PARKWAY BETWEEN CURB AND SIDEWALK.
7. ALL CONNECTIONS TO "PURPLE P.E." TUBING SHALL BE 1-INCH CTS (COPPER TUBE SIZE) COMPRESSION FITTINGS.
8. METER BOX COVER AND READING LID FOR ALL RECLAIMED WATER SERVICES SHALL BE PAINTED OR CAST/FORMED "PURPLE".
9. ALL SERVICE LATERALS WILL BE LOCATED AT PROPERTY LINES.
10. LOCATE SERVICE WITH 1-1/2-INCH HIGH "RW" CHISELED IN FACE OF CURB WHERE THE SERVICE CROSSES UNDER THE CURB.
11. CUSTOMER SERVICE VALVE REQUIRED ON CUSTOMER SIDE OF METER. METER, CUSTOMER SERVICE VALVE & TAIL PIPE TO BE PROVIDED BY THE DISTRICT.

**LIST OF MATERIALS**

| ITEM NO. | SIZE & DESCRIPTION  | MANUFACTURER                          | SPEC. NO.  |
|----------|---|---------------------------------------|--|
| 1        | DOUBLE STRAP SERVICE SADDLE<br>I.P. OUTLET (FOR DUCTILE IRON<br>PIPE MAINS)                   | JONES<br>MUELLER<br>ROMAC<br>ROCKWELL | J-979 I.P.<br>H-16102 TO H-16116<br>202B-SIZE 1.P.7<br>323-SIZE-14                 |
| 1A       | CAST SERVICE SADDLE WITH I.P.<br>OUTLET   | JONES<br>ROMAC<br>FORD                | J-995<br>101S<br>S91-SIZE 04   |
| 2        | BRONZE CORPORATION STOP (MIP)<br>THREAD X COMPRESSION (CTS)                                   | JONES<br>MUELLER<br>FORD              | J-41<br>H-10013<br>F500-04   |
| 3        | 1" PURPLE POLYETHYLENE<br>TUBING-CTS  | WESFLEX                               | 1" SDR 9 LAVENDER  |
| 4        | BRONZE ANGLE METER STOP<br>BRANCH ASSEMBLY 6 1/2"<br>CENTER TO CENTER, 1" CTS X<br>3/4" M (2) | JONES<br>FORD<br>McDONALD             | J-2201<br>LVB43-42W-65<br>09U2AW   |
| 5        | BRONZE CUSTOMER SERVICE<br>VALVE-METER NUT X F.I.P.   | JONES<br>FORD                         | J-1908<br>B13-342<br>W/H-34  |
| 6        | METER BOX AND COVER WITH<br>READING LID   | ARMOR CAST                            | A6001430PCX12 W/<br>(1)-A6001470 - COVER<br>(1)-A6001470DZ -<br>COVER (1)-A6000482 |

**3/4" DUAL RECYCLED WATER METER ASSEMBLY**

2016

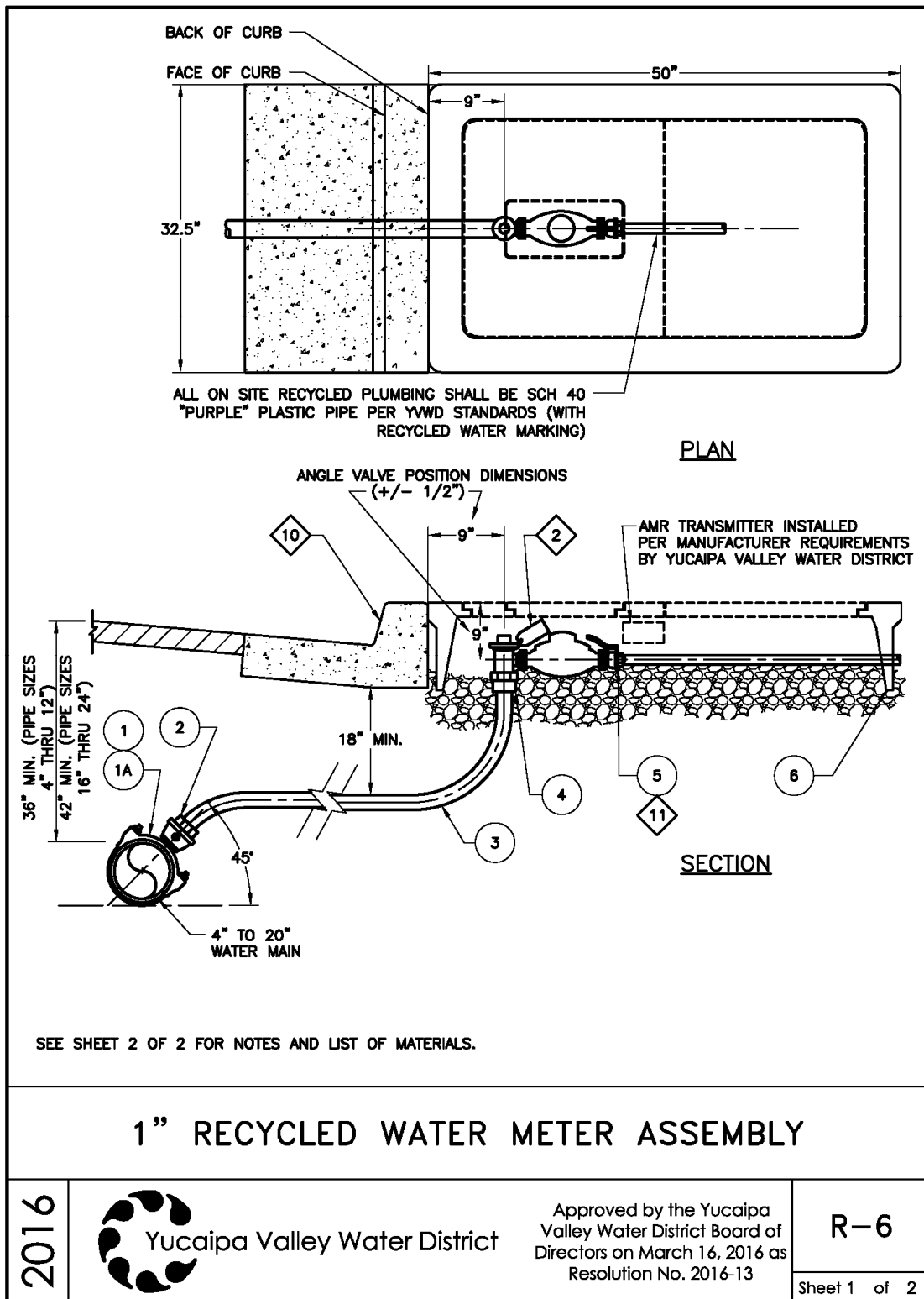


Yucaipa Valley Water District

Approved by the Yucaipa  
Valley Water District Board of  
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Resolution No. 2016-13

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Sheet 2 of 2



**NOTES:**

1. SERVICE SADDLE SHALL NOT BE INSTALLED WITHIN 12-INCHES OF VALVE, COUPLING, JOINT OR FITTING.
2. METERS SHALL BE TAGGED. IDENTIFICATION SHALL BE WEATHERPROOF PURPLE PLASTIC, 3-INCHES BY 4-INCHES WITH THE WORDS "WARNING RECYCLED WATER – DO NOT DRINK". IMPRINTING SHALL BE PERMANENT AND BLACK IN COLOR. USE TAGS MANUFACTURED BY T. CHRISTY ENTERPRISES OR APPROVED EQUAL.
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10. LOCATE SERVICE WITH 1-1/2-INCH HIGH "RW" CHISELED IN FACE OF CURB WHERE THE SERVICE CROSSES UNDER THE CURB.
11. CUSTOMER SERVICE VALVE REQUIRED ON CUSTOMER SIDE OF METER. METER, CUSTOMER SERVICE VALVE & TAIL PIPE TO BE PROVIDED BY THE DISTRICT.

**LIST OF MATERIALS**

| ITEM NO. | SIZE & DESCRIPTION  | MANUFACTURER                          | SPEC. NO.  |
|----------|---|---------------------------------------|--|
| 1        | DOUBLE STRAP SERVICE SADDLE<br>I.P. OUTLET (FOR DUCTILE IRON<br>PIPE MAINS)                   | JONES<br>MUELLER<br>ROMAC<br>ROCKWELL | J-979 I.P.<br>H-16102 TO H-16116<br>202B-SIZE 1.P.7<br>323-SIZE-14                 |
| 1A       | CAST SERVICE SADDLE WITH I.P.<br>OUTLET   | JONES<br>ROMAC<br>FORD                | J-995<br>101S<br>S91-SIZE 04   |
| 2        | BRONZE CORPORATION STOP (MIP)<br>THREAD X COMPRESSION (CTS)                                   | JONES<br>MUELLER<br>FORD              | J-41<br>H-10013<br>F500-04   |
| 3        | 1" PURPLE POLYETHYLENE<br>TUBING-CTS  | WESFLEX                               | 1" SDR 9 LAVENDER  |
| 4        | BRONZE ANGLE METER STOP<br>BRANCH ASSEMBLY 6 1/2"<br>CENTER TO CENTER, 1" CTS X<br>3/4" M (2) | JONES<br>FORD<br>McDONALD             | J-2201<br>LVB43-42W-65<br>09U2AW   |
| 5        | BRONZE CUSTOMER SERVICE<br>VALVE-METER NUT X F.I.P.   | JONES<br>FORD                         | J-1908<br>B13-342<br>W/H-34  |
| 6        | METER BOX AND COVER WITH<br>READING LID   | ARMOR CAST                            | A6001430PCX12 W/<br>(1)-A6001470 - COVER<br>(1)-A6001470DZ -<br>COVER (1)-A6000482 |

**1" RECYCLED WATER METER ASSEMBLY**

2016

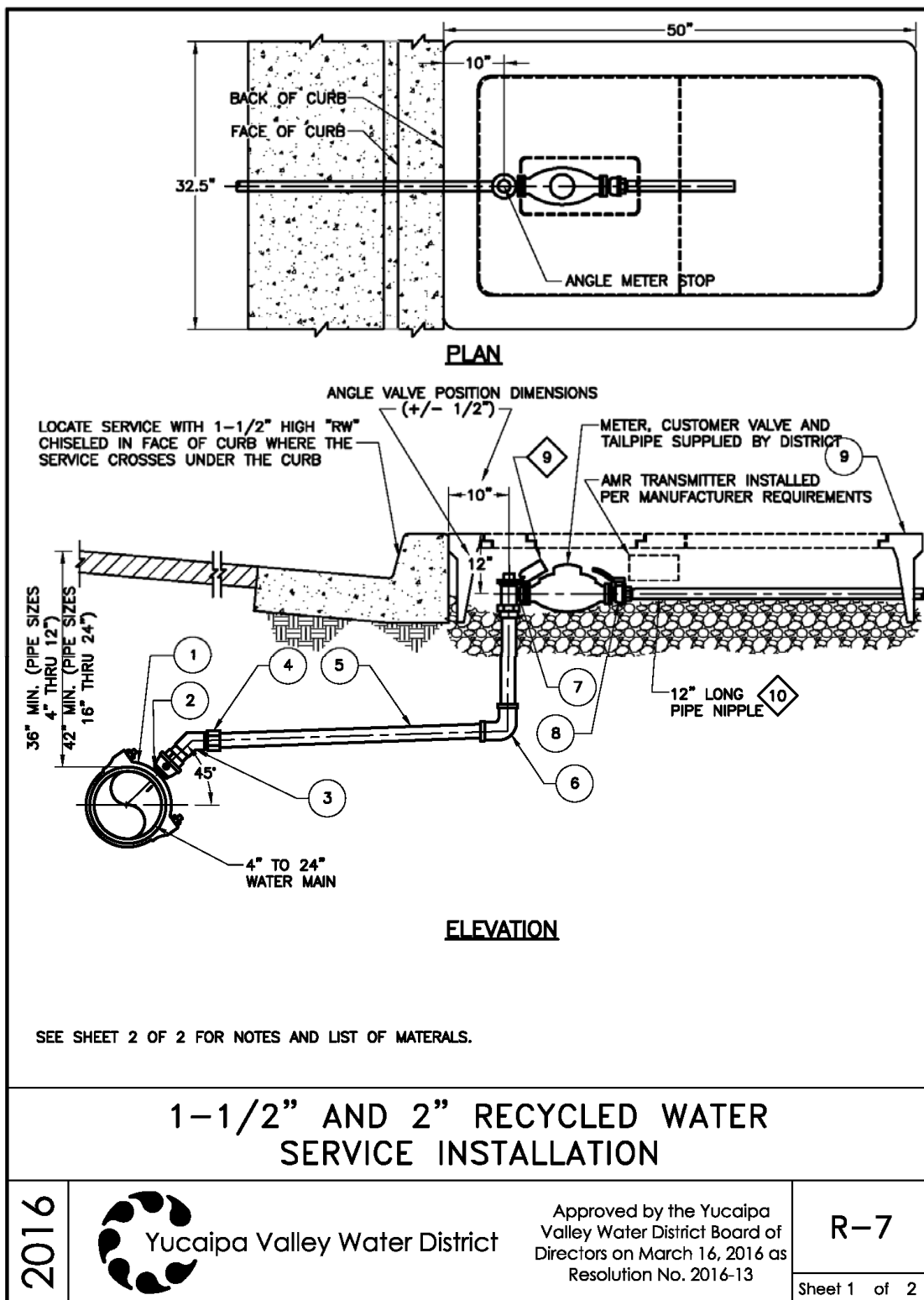


Yucaipa Valley Water District

Approved by the Yucaipa  
Valley Water District Board of  
Directors on March 16, 2016 as  
Resolution No. 2016-13

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**NOTES:**

1. SERVICE SADDLE SHALL NOT BE INSTALLED WITHIN 12-INCHES OF VALVE, COUPLING, JOINT OR FITTING.
2. IF PURPLE PE TUBING CAN NOT BE USED, PURPLE POLY-SLEEVE SHALL BE USED AND SECURED AT THE CORP. AND THE ANGLE VALVE WITH 10 MIL. TAPE.
3. SET TOP OF METER BOX FLUSH WITH SIDEWALK OR CURB AS SHOWN.
4. THE CORPORATION STOP TAP SHALL BE MADE AT A 45° DEGREE ANGLE FROM THE TOP OF THE PIPE.
5. THE WATER SERVICE SHALL EXTEND PERPENDICULAR TO THE CENTERLINE OF THE STREET FROM THE WATER MAIN TO THE METER STOP.
6. METER BOX SHALL BE SET BEHIND CURB WHERE SIDEWALK IS ADJACENT TO CURB, OR IN PARKWAY BETWEEN CURB AND SIDEWALK.
7. METER BOX COVER AND READING LID FOR ALL RECLAIMED WATER SERVICE SHALL BE PAINTED PURPLE AND STAMPED WITH "RECYCLED WATER" LOGO.
8. METER BOX COVER AND READING LID FOR ALL RECLAIMED WATER SERVICES SHALL BE PAINTED OR CAST/FORMED "PURPLE".

9 METERS SHALL BE TAGGED. IDENTIFICATION SHALL BE WEATHERPROOF PURPLE PLASTIC, 3-INCHES BY 4-INCHES WITH THE WORDS "WARNING RECYCLED WATER – DO NOT DRINK". IMPRINTING SHALL BE PERMANENT AND BLACK IN COLOR. USE TAGS MANUFACTURED BY T. CHRISTY ENTERPRISES OR APPROVED EQUAL.

10 ALL ONSITE PIPING IS PURPLE SCH 40 PVC PER YVWD RECYCLED DESIGN AND CONSTRUCTION STANDARDS.

**LIST OF MATERIALS**

| ITEM NO. | SIZE & DESCRIPTION  | MANUFACTURER                | SPEC. NO.   |
|----------|---|-----------------------------|---|
| 1        | DOUBLE STRAP SERVICE SADDLE I.P. OUTLET ( FOR DUCTILE IRON PIPE MAINS )                       | JONES MUELLER FORD ROCKWELL | J-879 I.P. H-16102 TO H-16116 202B-SIZE 1.P.7 323-SIZE-14                 |
| 2        | BRONZE CORPORATION STOP MIPT X MIPT   | JONES FORD MUELLER          | J-1943 FB500-7 B-2969   |
| 3        | 45° DEGREE BRASS ELBOW  | -                           | -   |
| 4        | M.I.P. X COMPRESSION ADAPTOR  | MUELLER FORD JONES          | H-15428 C84-77 J-2605   |
| 5        | 2" POLYETHYLENE TUBING – CTS – PURPLE OR WITH PURPLE POLY SLEEVE                              | -                           | -   |
| 6        | BRASS 90° ELBOW, 2" X 2" COMPRESSION X COMPRESSION  | JONES MUELLER               | J-2611 H-15526  |
| 7        | BRONZE ANGLE METER STOP W/LOCKWING COMPRESSION CTS X FLANGE 1 1/2" THRU 2" COMBO ANGLE VALVE. | JONES MUELLER FORD          | J-4205 P-14277 FV43-777W  |
| 8        | BRONZE CUSTOMER SERVICE VALVE-METER FLANGE X F.I.P.   | JONES FORD                  | J-1913 BF13-777 W/HH-67   |
| 9        | METER BOX AND COVER WITH READING LID  | ARMOR CAST                  | A6001430PCX12 W/ (1)-A6001470 – COVER (1)-A6001470DZ – COVER (1)-A6000482 |

## 1-1/2" AND 2" RECYCLED WATER SERVICE INSTALLATION

2016

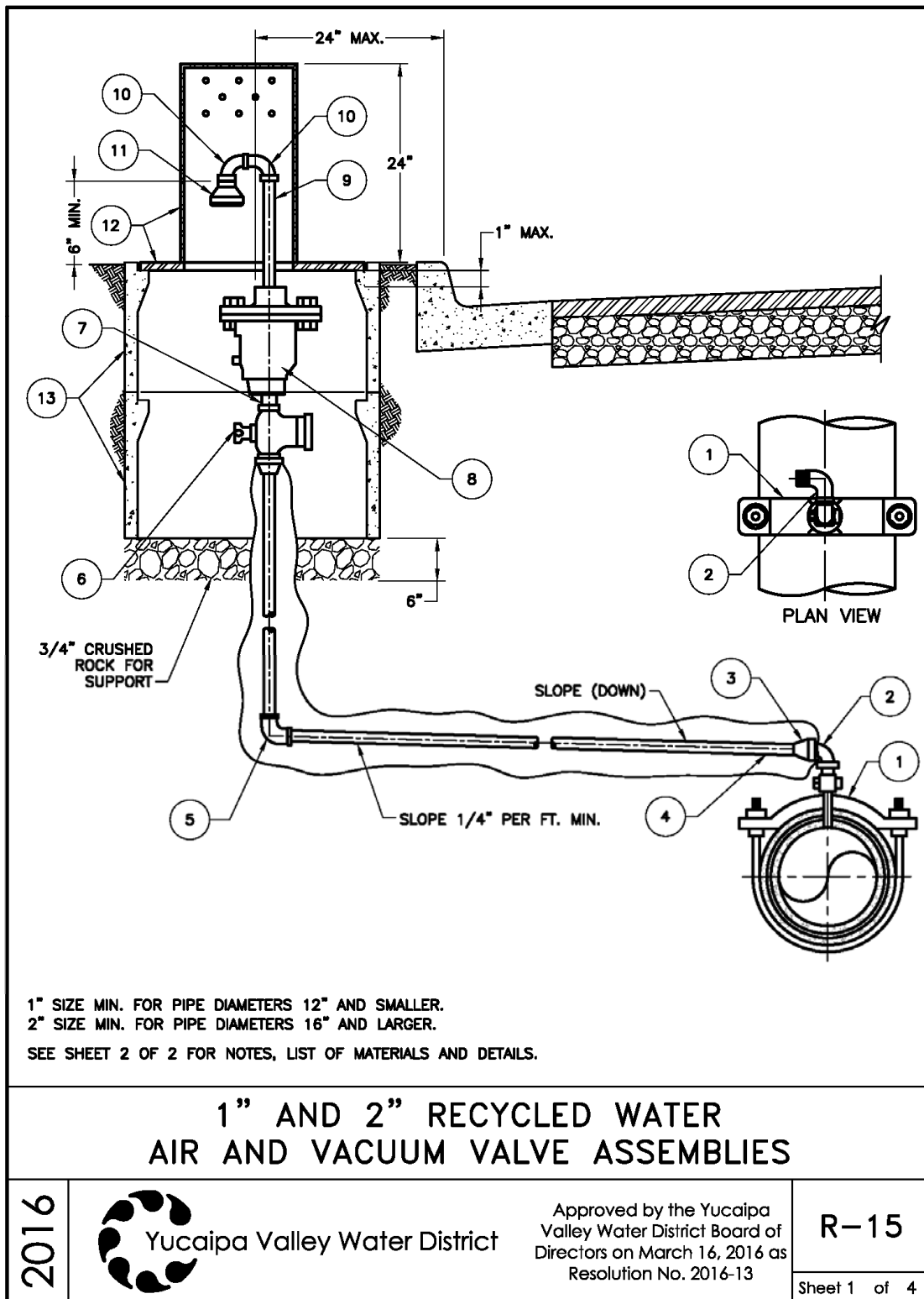


Yucaipa Valley Water District

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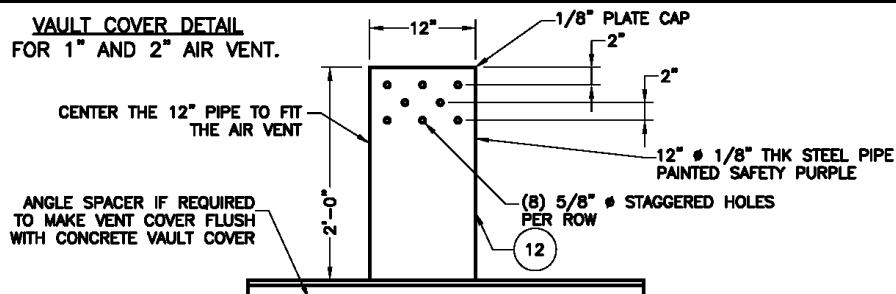
R-7

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**VAULT COVER DETAIL  
FOR 1" AND 2" AIR VENT.**



**LIST OF MATERIAL**

| ITEM NO. | SIZE & DESCRIPTION  | MANUFACTURER       | SPEC. NO.                         |
|----------|---|--------------------|-----------------------------------|
| 1        | CONNECTION PER YVWD STD. DWG. R-5 OR DWG. R-7 OFF THE TOP OF PIPE | -                  | -                                 |
| 2        | CORPORATION STOP WITH (2)-90° ELBOW SWING JOINTS, BRASS           | -                  | -                                 |
| 3        | F.I.P. X COMPRESSION ADAPTOR                                      | FORD JONES MUELLER | C14-44<br>J-2607<br>H-15451       |
| 4        | P.E. TUBING, CTS, PURPLE OR WITH PURPLE POLY SLEEVE.              |                    |                                   |
| 5        | COMPRESSION X COMPRESSION 90° ELBOW                               | JONES MUELLER      | J-2611<br>H-15526                 |
| 6        | CURB VALVE-SHUT OFF PARALLEL WITH CURB                            | FORD JONES MUELLER | B41-444<br>J-1921<br>B-25172      |
| 7        | 3" NIPPLE, BRASS  | -                  | -                                 |
| 8        | COMBINATION, AIR & VACUUM VALVE, 1" MINIMUM VAULT SIZE PER PLAN   | A.R.I. CRISPIN     | D-040<br>S.S. TRIM, N.P.T. OUTLET |
| 9        | 18" +/- G.I.P.  | -                  | -                                 |
| 10       | 90° DEGREE STREET ELL G.I.P.                                      | -                  | -                                 |
| 11       | BUG SCREEN  | -                  | -                                 |
| 12       | VAULT COVER (SEE DETAIL, ABOVE)                                   | -                  | -                                 |
| 13       | 2-DOUBLE STACKED #6 CONCRETE METER VAULTS                         |                    | -                                 |

**NOTE:**

1. THE AIR VAC BOX IS TO BE SET PERPENDICULAR TO THE BACK OF THE CURB.
2. BACKFILL UNDER EXISTING CURB WITHIN THE CITY OF YUCAIPA, MUST BE 2 SACK SLURRY PER CITY STANDARDS.
3. IF AN A.R.I. COMBINATION AIR VAC IS USED THEN ITEMS 9 AND 10 NOT REQUIRED, AND ITEM 13 ONLY REQUIRES 1 METER VAULT.

**1" AND 2" RECYCLED WATER  
AIR AND VACUUM VALVE ASSEMBLIES**

2016

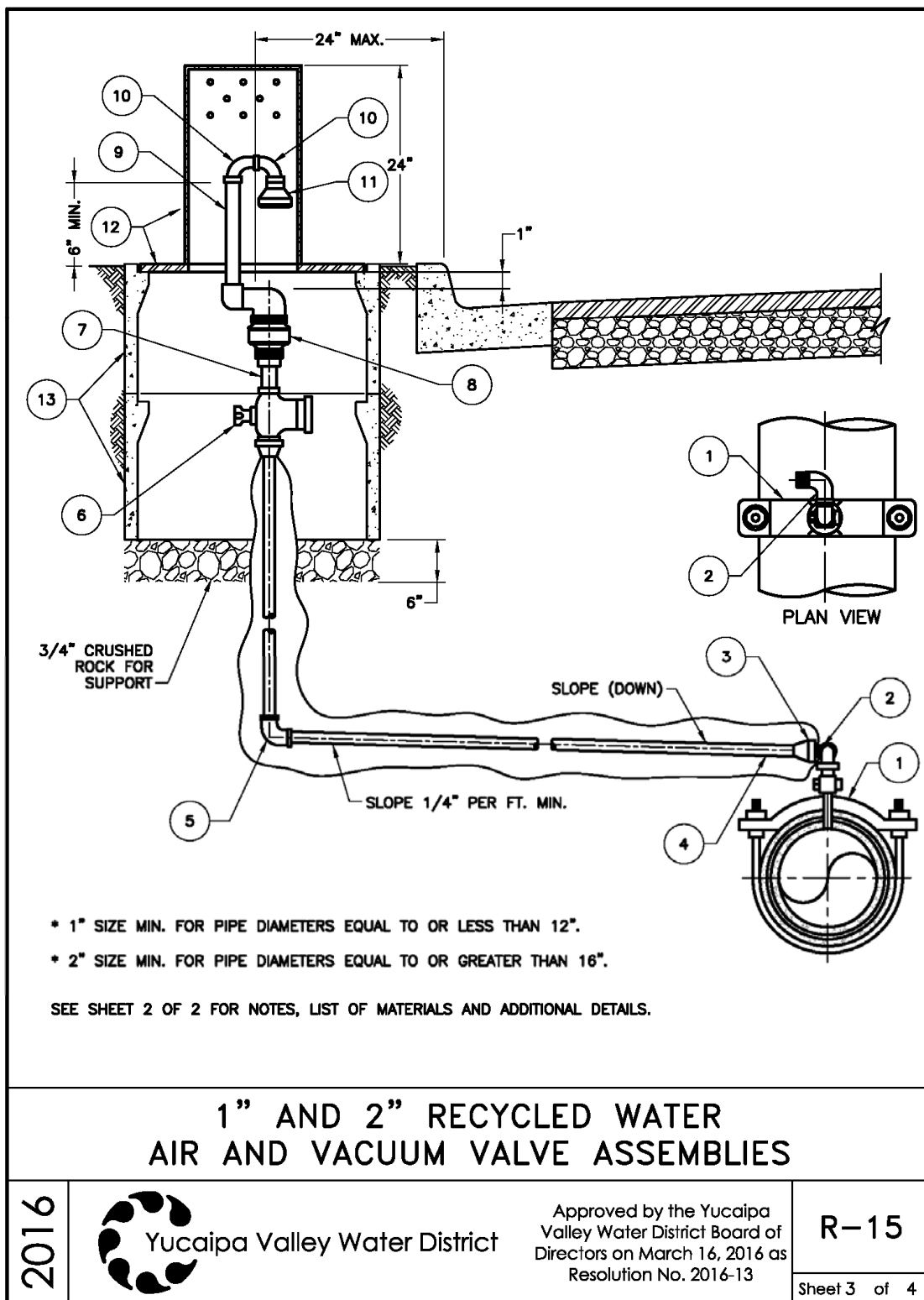


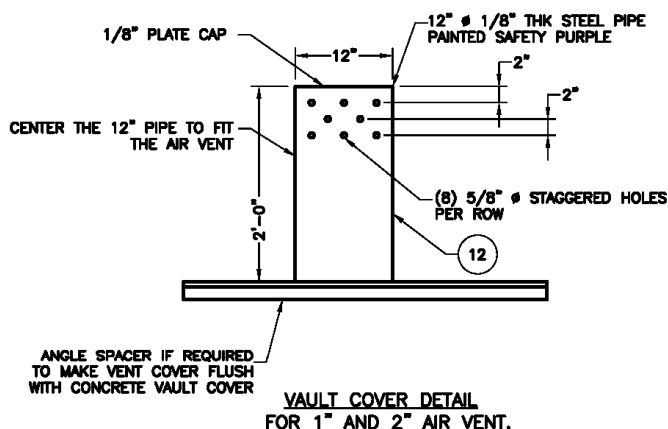
Yucaipa Valley Water District

Approved by the Yucaipa Valley Water District Board of Directors on March 16, 2016 as Resolution No. 2016-13

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### LIST OF MATERIAL

| ITEM NO. | SIZE & DESCRIPTION   | MANUFACTURER       | SPEC. NO.                    |
|----------|--|--------------------|------------------------------|
| 1        | CONNECTION PER YVWD STD. DWG W-5 OR DWG. W-7 OFF THE TOP                         | -                  | -                            |
| 2        | CORPORATION STOP WITH 2-90° ELBOW SWING JOINTS, BRASS                            | -                  | -                            |
| 3        | F.I.P. X COMPRESSION ADAPTOR   | FORD JONES MUELLER | C14-44<br>J-2807<br>H-15451  |
| 4        | P.E. TUBING, CTS, PURPLE OR WITH PURPLE POLY SLEEVE                              |                    |                              |
| 5        | COMPRESSION X COMPRESSION 90° ELBOW  | JONES MUELLER      | J-2811<br>H-15528            |
| 6        | CURB VALVE-SHUT OFF PARALLEL WITH CURB   | FORD JONES MUELLER | B41-444<br>J-1921<br>B-25172 |
| 7        | 3" X SIZE NIPPLE, BRASS  | -                  | -                            |
| 8        | A.R.I., NPT OUTLET, COMBINATION, AIR & VACUUM VALVE, 1" MIN. VAULT SIZE PER PLAN | A.R.I.             | D-040                        |
| 9        | 18" X SIZE NIPPLE  | -                  | -                            |
| 10       | 90° STREET ELL   | -                  | -                            |
| 11       | BUG SCREEN   | -                  | -                            |
| 12       | VAULT COVER (SEE DETAIL, ABOVE)  | -                  | -                            |
| 13       | 2-DOUBLE STACKED #6 CONCRETE METER VAULTS  |                    | -                            |

**NOTE:**

1. ALL CONNECTIONS TO COPPER TUBING SHALL BE COMPRESSION FITTINGS.
2. THE AIR VAC BOX IS TO BE SET PERPENDICULAR TO THE BACK OF THE CURB.
3. BACKFILL UNDER EXISTING CURB WITHIN THE CITY OF YUCAIPA, MUST BE 2 SACK SLURRY PER CITY STANDARDS.

## 1" AND 2" AIR AND VACUUM VALVE ASSEMBLY

2016

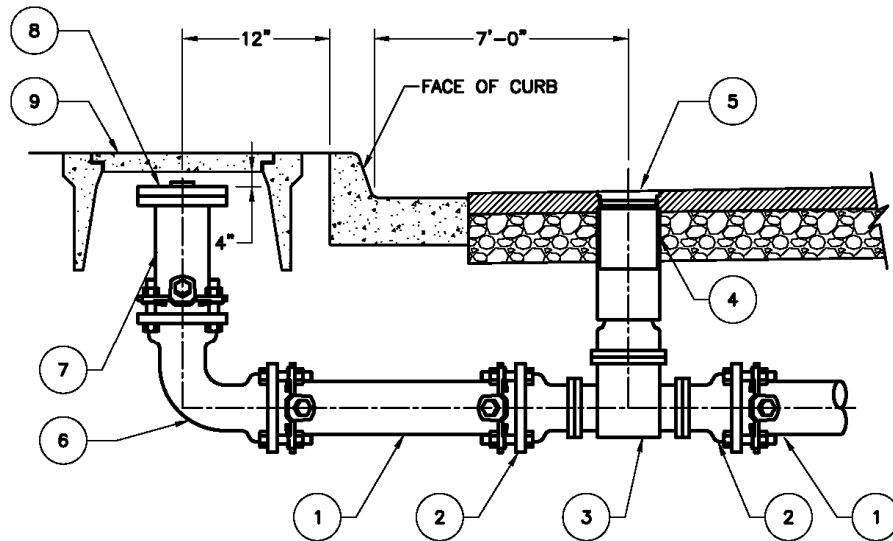


Yucaipa Valley Water District

Approved by the Yucaipa Valley Water District Board of Directors on March 16, 2016 as Resolution No. 2016-13

**R-15**

Sheet 4 of 4

**NOTE:**

1. ALL RECYCLED WATER LINES BELOW GROUND ARE TO BE FULLY BAGGED USING PURPLE POLY SLEEVE.

### LIST OF MATERIAL

| ITEM NUMBER | DESCRIPTION   | MANUFACTURER | PART NUMBER                      |
|-------------|---|--------------|----------------------------------|
| 1           | 4" DIP, RESTRAINED  |              |                                  |
| 2           | 4" MJ X FLG ADAPTER WITH MEGALUG RESTRAINTS               |              |                                  |
| 3           | 4" GATE VALVE, FLG X FLG, RESILIENT WEDGE, EPOXY COATED   | MUELLER      |                                  |
| 4           | VALVE BOX PER YVWD STD. W-20                              |              |                                  |
| 5           | VALVE CAN LID, LABELED "RECYCLED" PER YVWD STD. W-20      |              |                                  |
| 6           | 4" DIP 90° ELBOW, MJ X MJ WITH MEGALUG RESTRAINTS         |              |                                  |
| 7           | 4" DIP, FLG X PLAIN END (HALF SPOOL)                      |              |                                  |
| 8           | 4" X 2" FIP THD X COMPANION FLG W/2" BRASS PLUG           |              |                                  |
| 9           | METER BOX W/SOLID LID, PURPLE IN COLOR W/ "RECYCLED" LOGO | ARMORCAST    | BOX - A6000485<br>LID - A6000484 |

## 4" RECYCLED WATER BLOW-OFF ASSEMBLY

2016

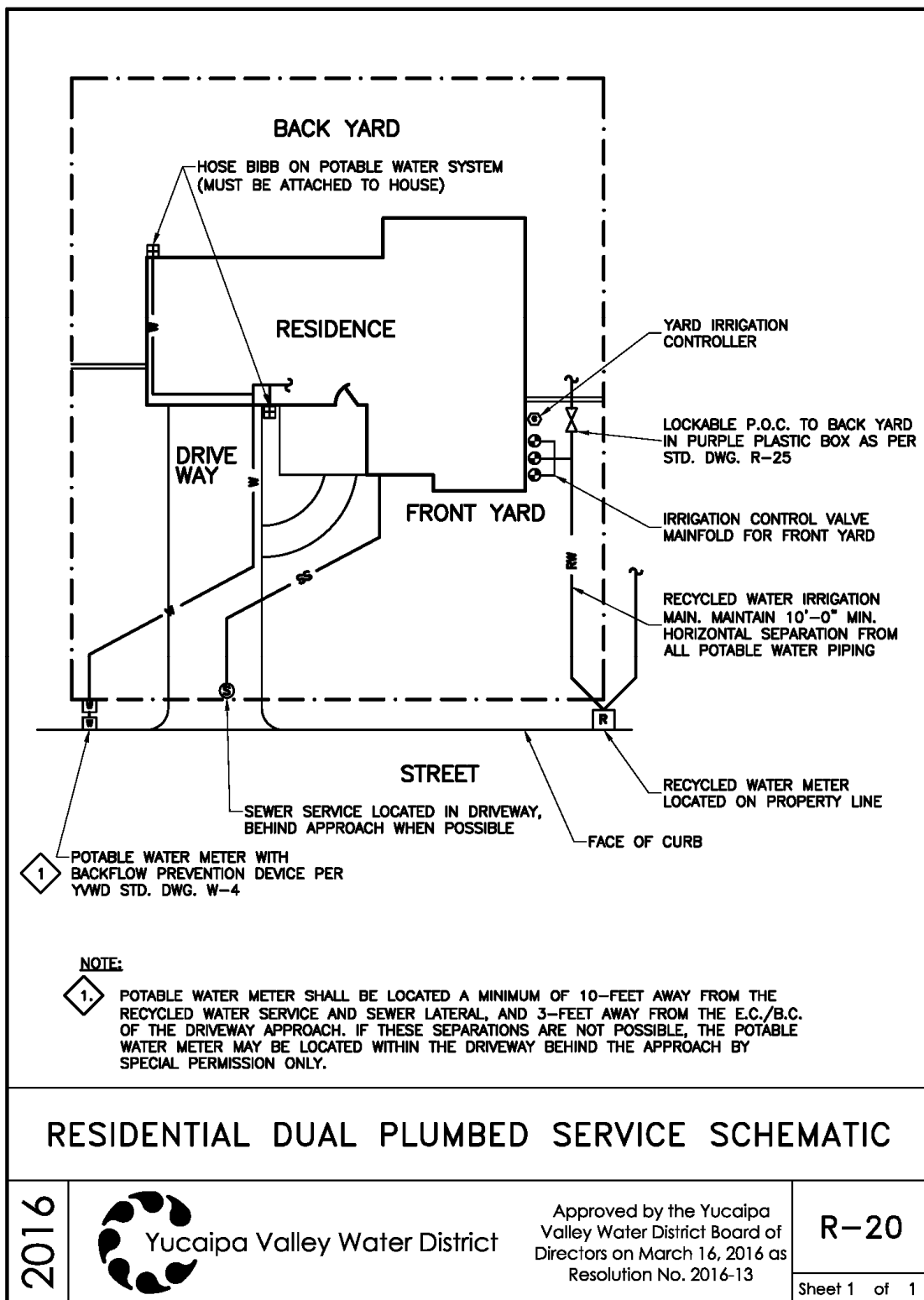


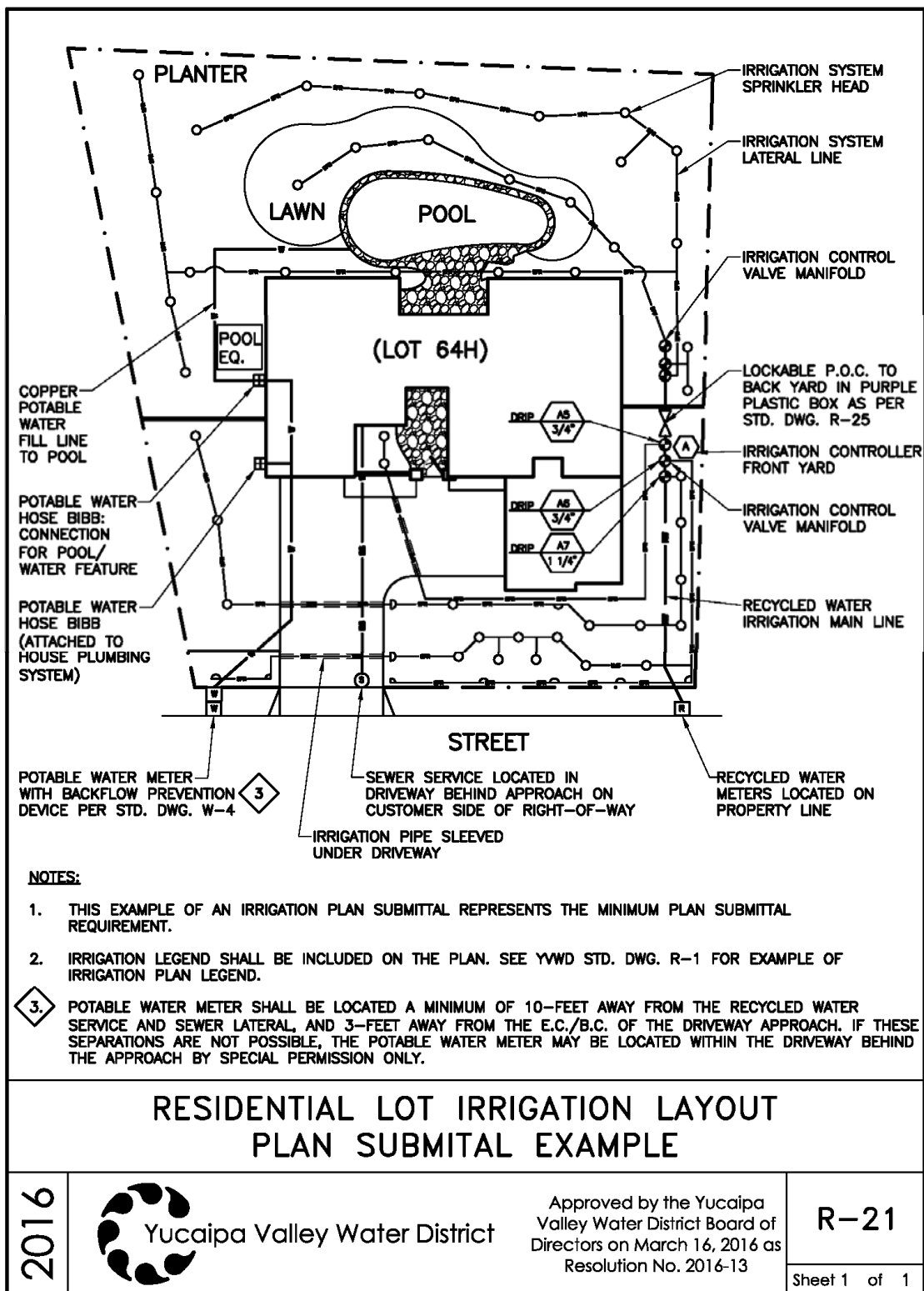
Yucaipa Valley Water District

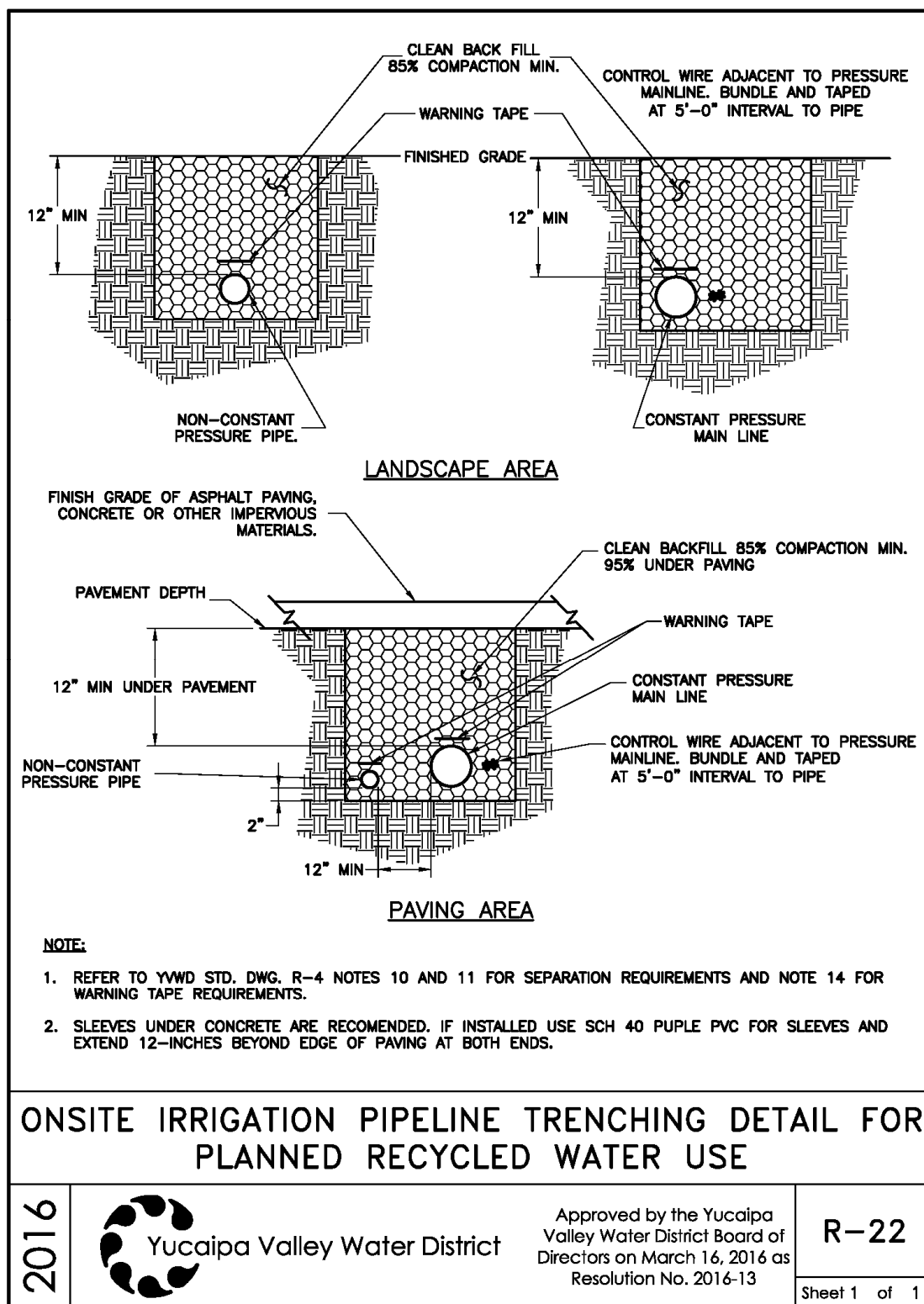
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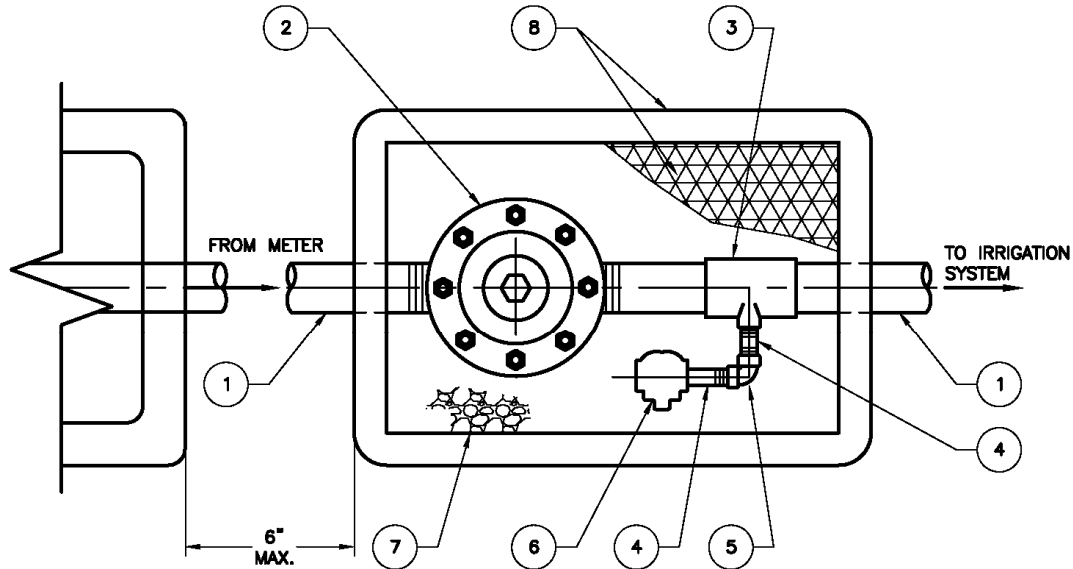
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| LIST OF MATERIALS |   |
|-------------------|---|
| ITEM NO.          | DESCRIPTION   |
| 1                 | SCH 80 MAINLINE   |
| 2                 | PRESSURE REDUCING REGULATOR AS REQUIRED                   |
| 3                 | LINE SIZE X LINE SIZE X 3/4" SCH 80 TEE (SOC X SOC X THD) |
| 4                 | 3/4" SCH 80 NIPPLE  |
| 5                 | 3/4" SCH 80 ELBOW (THD X THD)                             |
| 6                 | 1/4" BRONZE BALL VALVE (FIP X FIP)                        |
| 7                 | 3/8" DIA. PEA GRAVEL SUMP (MIN. 1 CUBIC FT.)              |
| 8                 | PURPLE COLOR JUMBO VALVE BOX AND LID                      |

## NON-RESIDENTIAL RECYCLED WATER CROSS CONNECTION CONTROL TEST STATION DETAIL

2016



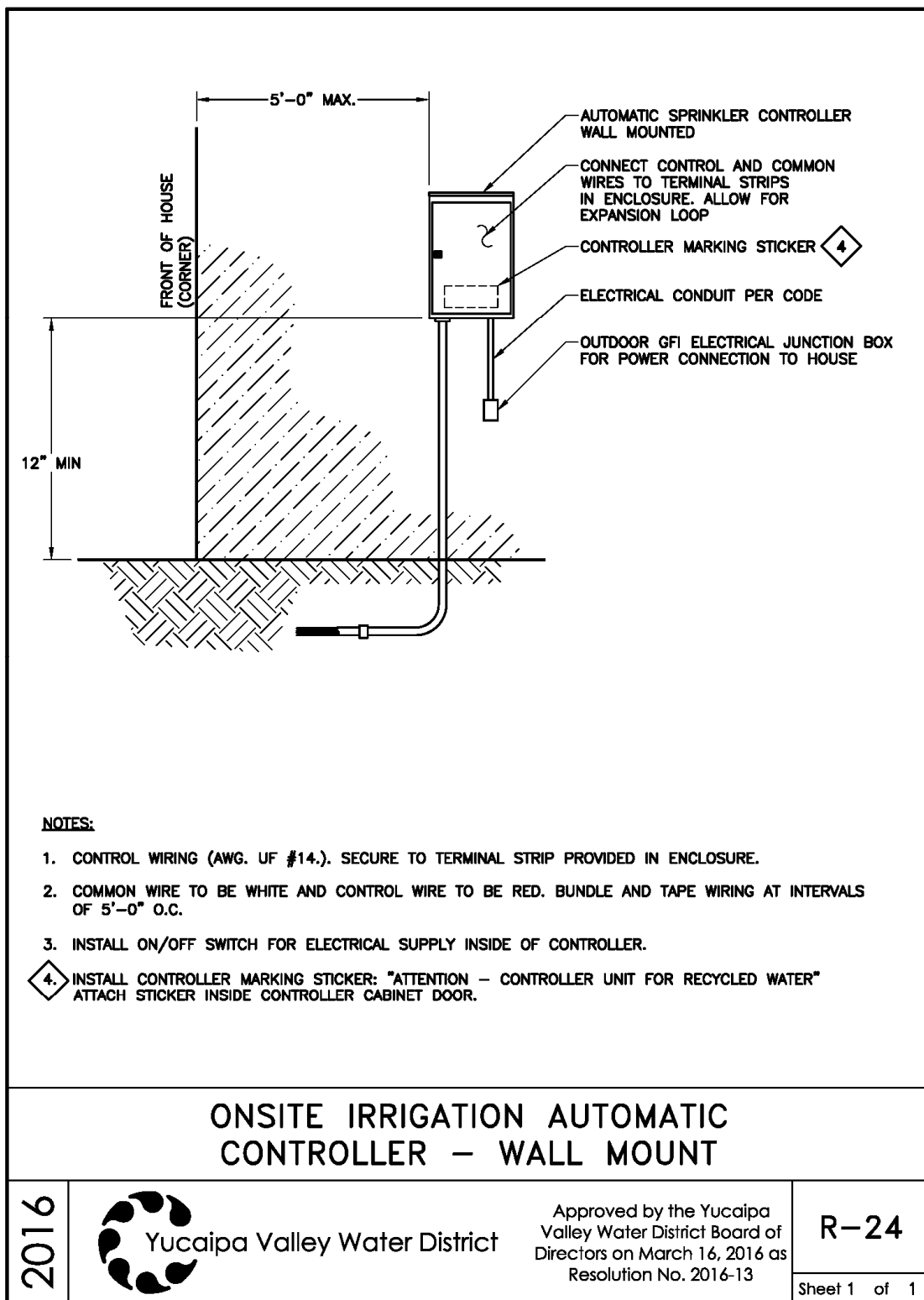
Yucaipa Valley Water District

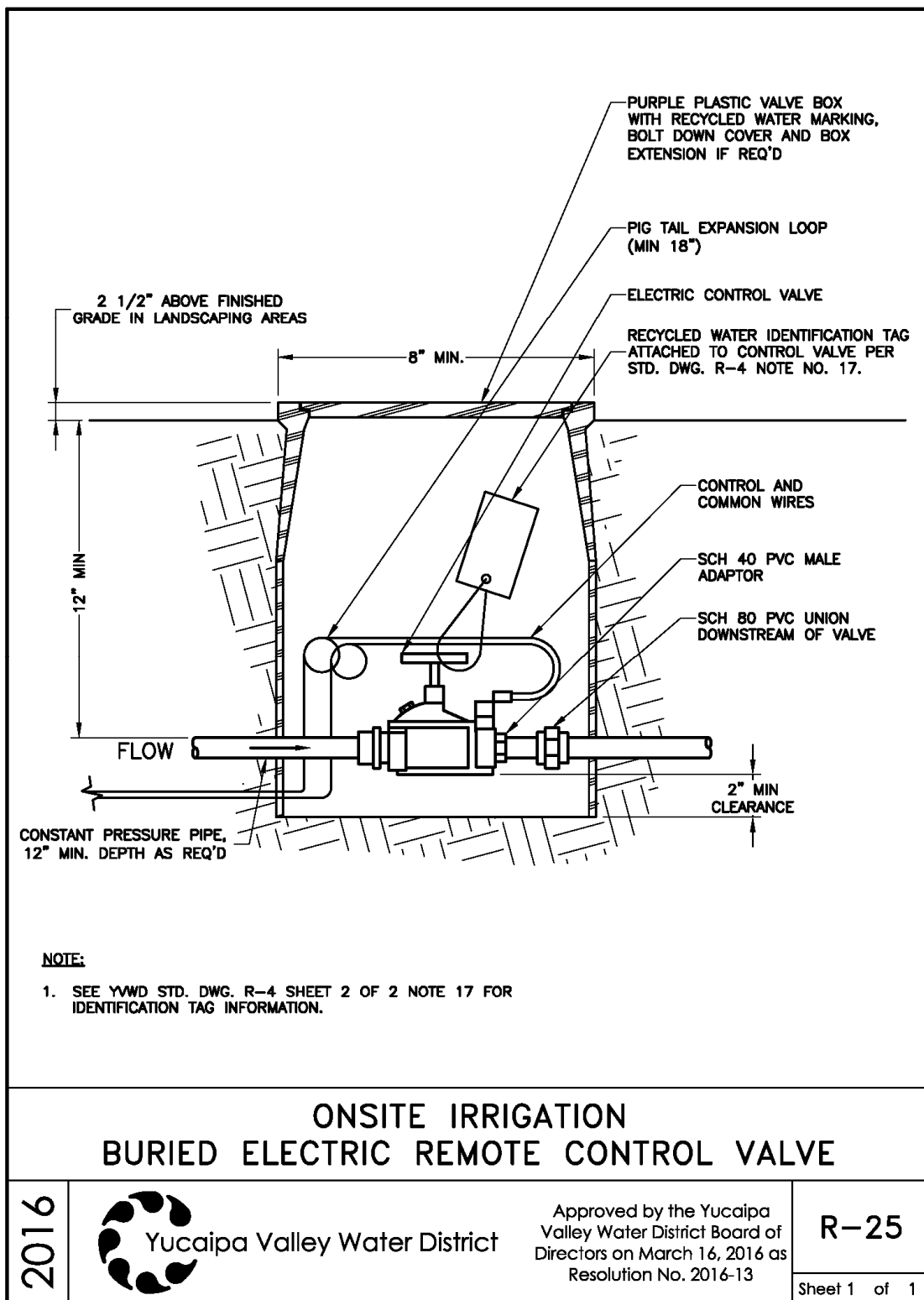
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Valley Water District Board of  
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Resolution No. 2016-13

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Sheet 1 of 1









Yucaipa Valley Water District

12770 Second Street, Yucaipa, California 92399 Phone: (909) 797-5117

# **Standard Specifications for the Design and Processing, Furnishing of Materials, and Construction of Sewer Facilities**

March 16, 2016

**YVWD SEWER FACILITY STANDARDS**  
**DRAWING INDEX (NUMERICAL)**

|      |  |
|------|--|
| S-1  | STANDARD LEGEND  |
| S-2  | SEWER MAINLINE LOCATION  |
| S-3  | MANHOLE DETAIL   |
| S-4  | CONCRETE BASE AND JOINT DETAIL                                 |
| S-5  | ADJUSTING EXISTING MANHOLE TO GRADE                            |
| S-6  | MANHOLE SHAFT LOCATION DETAILS                                 |
| S-7  | TRAFFIC MANHOLE FRAME AND COVER                                |
| S-8  | SPECIAL MANHOLE (20'-0" TO 30'-0" DEEP)                        |
| S-9  | SPECIAL MANHOLE (30'+ DEEP)                                    |
| S-10 | DROP MANHOLE DETAIL (SPECIAL ACCEPTANCE ONLY)                  |
| S-11 | GUARD POST DETAIL (EASEMENT AND OUTSIDE OF PAVING MANHOLE)     |
| S-12 | TERMINAL OR MAINLINE CLEANOUT DETAIL (SPECIAL ACCEPTANCE ONLY) |
| S-13 | TERMINUS (CUL-DE-SAC) MANHOLE                                  |
| S-14 | NOT IN USE   |
| S-15 | VITRIFIED CLAY PIPELINE BEDDING DETAIL                         |
| S-16 | PIPELINE BEDDING AND SPECIAL DETAILS                           |
| S-17 | TRENCH REPAIR DETAIL   |
| S-18 | SEWER MAINLINE PROTECTION DETAIL                               |
| S-19 | CONCRETE SLOPE ANCHORS   |
| S-20 | STEEL CASING PIPE  |
| S-21 | 4" AND 6" SEWER SADDLE CONNECTION TO EXISTING MAINLINE         |
| S-22 | TYPICAL SEWER LATERAL  |
| S-23 | DEEP SEWER LATERAL DETAIL                                      |
| S-24 | BACKWATER VALVE DETAIL   |
| S-25 | BACKWATER VALVE INSTALLATION DETAIL                            |
| S-26 | SEWER SAMPLING BOX   |
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**SEWER STANDARD INDEX**

2016



Yucaipa Valley Water District

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## SEWER STANDARD INDEX

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**STANDARD DESIGN REQUIREMENTS:**

PLAN SCALE SIZES ARE REQUIRED TO BE DESIGNED AT 1:40. SPECIAL CONSTRUCTION DETAILS MAY BE ADJUSTED AS NECESSARY FOR DESIGN AND CONSTRUCTION PURPOSES.

ALL PLAN SHEETS SHALL BE ON 24-INCH BY 36-INCH ARCHITECTURAL SHEET SIZE D.

ALL PROJECTS SHALL BE SUBMITTED TO THE DISTRICT ON MYLAR PRIOR TO CONSTRUCTION.

ALL PROJECTS, UPON COMPLETION, SHALL UPDATE THE MYLAR PLANS AND PROVIDE AUTOCAD FILES FOR DISTRICT USE AND RECORDS UPON COMPLETION.

**STANDARD LEGEND**

|  |   |  |                        |
|--|---|--|------------------------|
|  | RIGHT OF WAY (R.O.W.)                       |  |                        |
|  | CENTERLINE                                  |  |                        |
|  | EXISTING WATER LINE                         |  |                        |
|  | PROPOSED WATER LINE                         |  |                        |
|  | EXISTING RECYCLED WATER LINE                |  |                        |
|  | PROPOSED RECYCLED WATER LINE                |  |                        |
|  | EXISTING SEWER LINE                         |  |                        |
|  | PROPOSED SEWER LINE                         |  |                        |
|  | EXISTING GAS LINE                           |  |                        |
|  | PROPOSED GAS LINE                           |  |                        |
|  | SERVICE LATERAL                             |  |                        |
|  | ENCASEMENT                                  |  |                        |
|  | EXISTING ELECTRICAL CONDUIT                 |  |                        |
|  | PROPOSED ELECTRICAL CONDUIT                 |  |                        |
|  | EXISTING TELEPHONE CONDUIT                  |  |                        |
|  | PROPOSED TELEPHONE CONDUIT                  |  |                        |
|  | EXISTING FIBER OPTIC CABLE                  |  |                        |
|  | PROPOSED FIBER OPTIC CABLE                  |  |                        |
|  | PORTLAND CEMENT CONCRETE IN SECTION         |  |                        |
|  | PORTLAND CEMENT CONCRETE IN PLAN            |  |                        |
|  | POWER POLE AND GUY LINE                     |  | CLEAN-OUT              |
|  | TRAFFIC SIGNAL EXISTING                     |  | HOUSE CONNECTION SEWER |
|  | WATER WELL                                  |  | WYE BRANCH             |
|  | BUTTERFLY VALVE                             |  | CUT-OFF WALL           |
|  | GATE VALVE                                  |  | CLEAN-OUT              |
|  | FIRE HYDRANT                                |  | DUCTILE IRON PIPE      |
|  | BLOW-OFF                                    |  | DROP MANHOLE           |
|  | AIR & VACUUM VALVE ASSEMBLY (SIZE PER PLAN) |  | JUNCTION MANHOLE       |
|  | POTABLE WATER QUALITY SAMPLE STATION        |  | MANHOLE                |
|  | RECYCLED WATER QUALITY SAMPLE STATION       |  | VITRIFIED CLAY PIPE    |

**STANDARD DESIGN REQUIREMENTS AND LEGEND**

2016

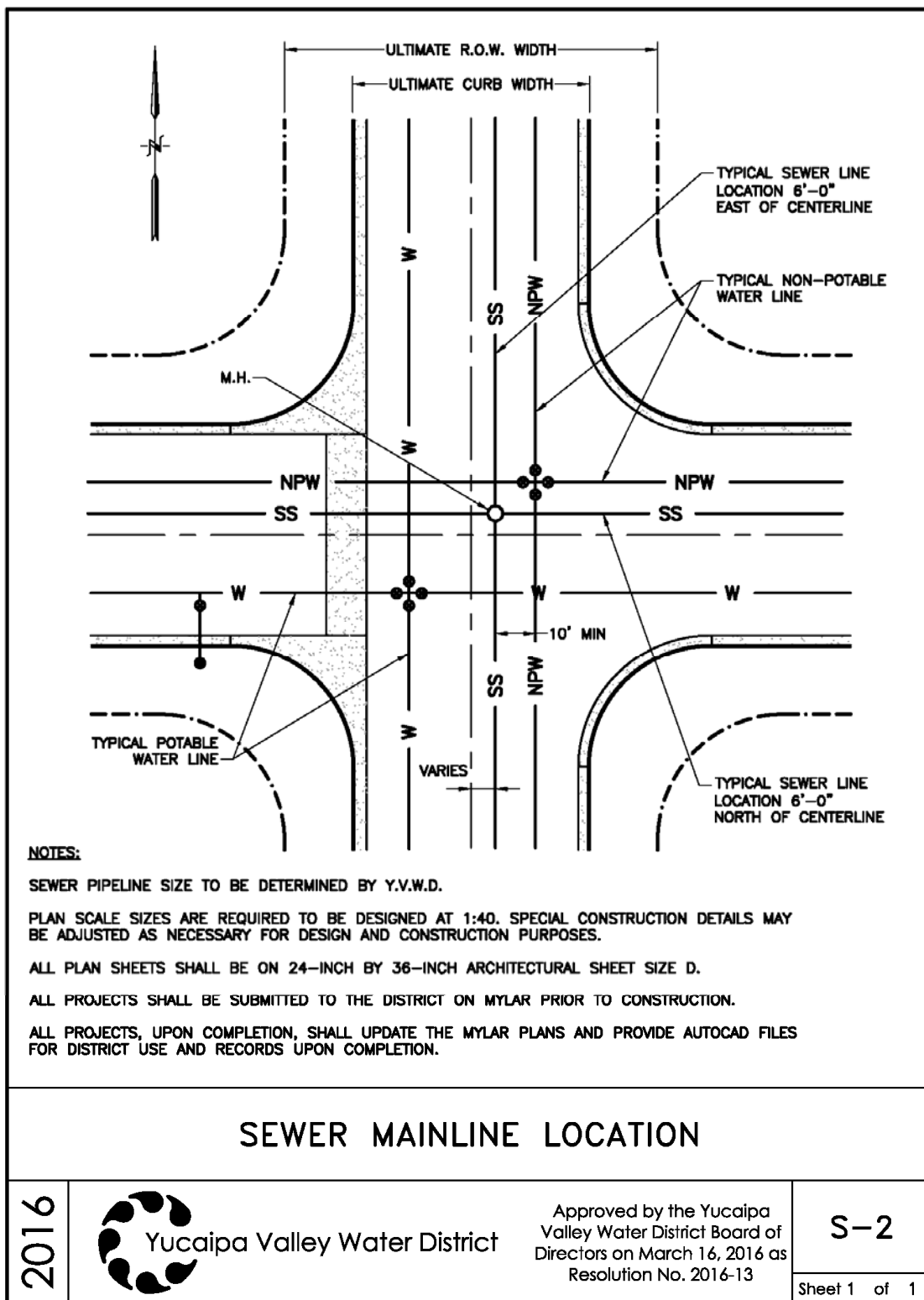


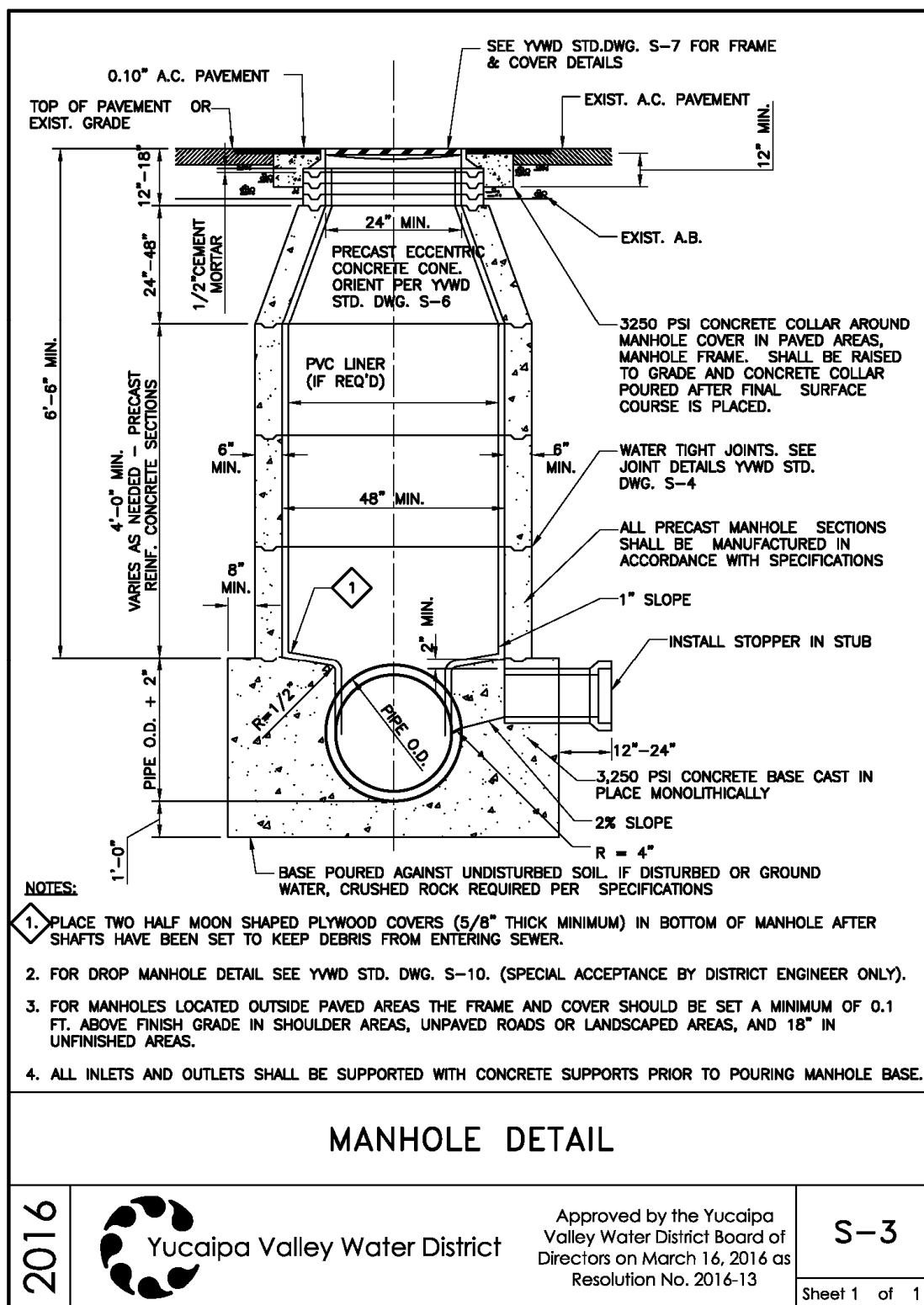
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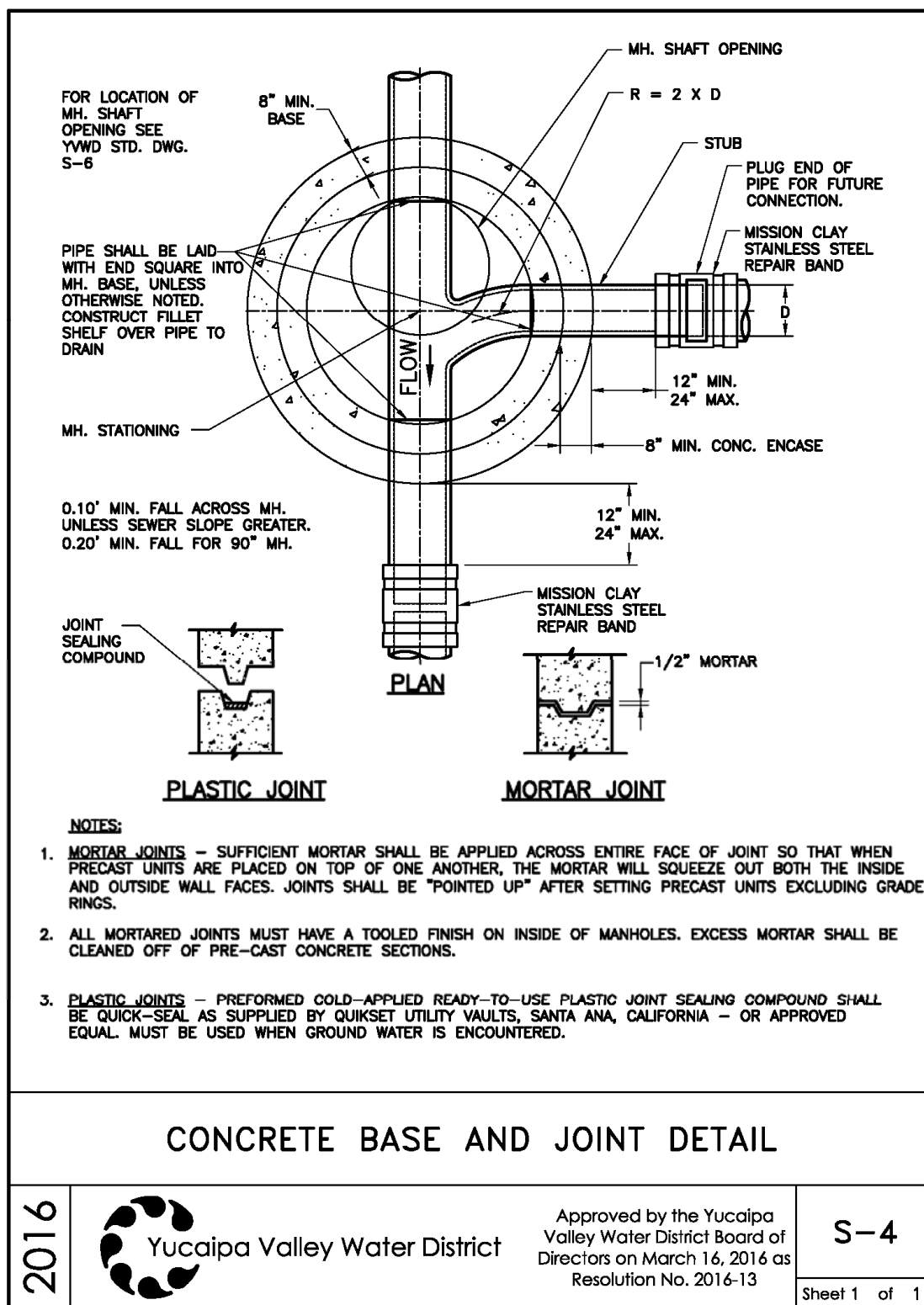
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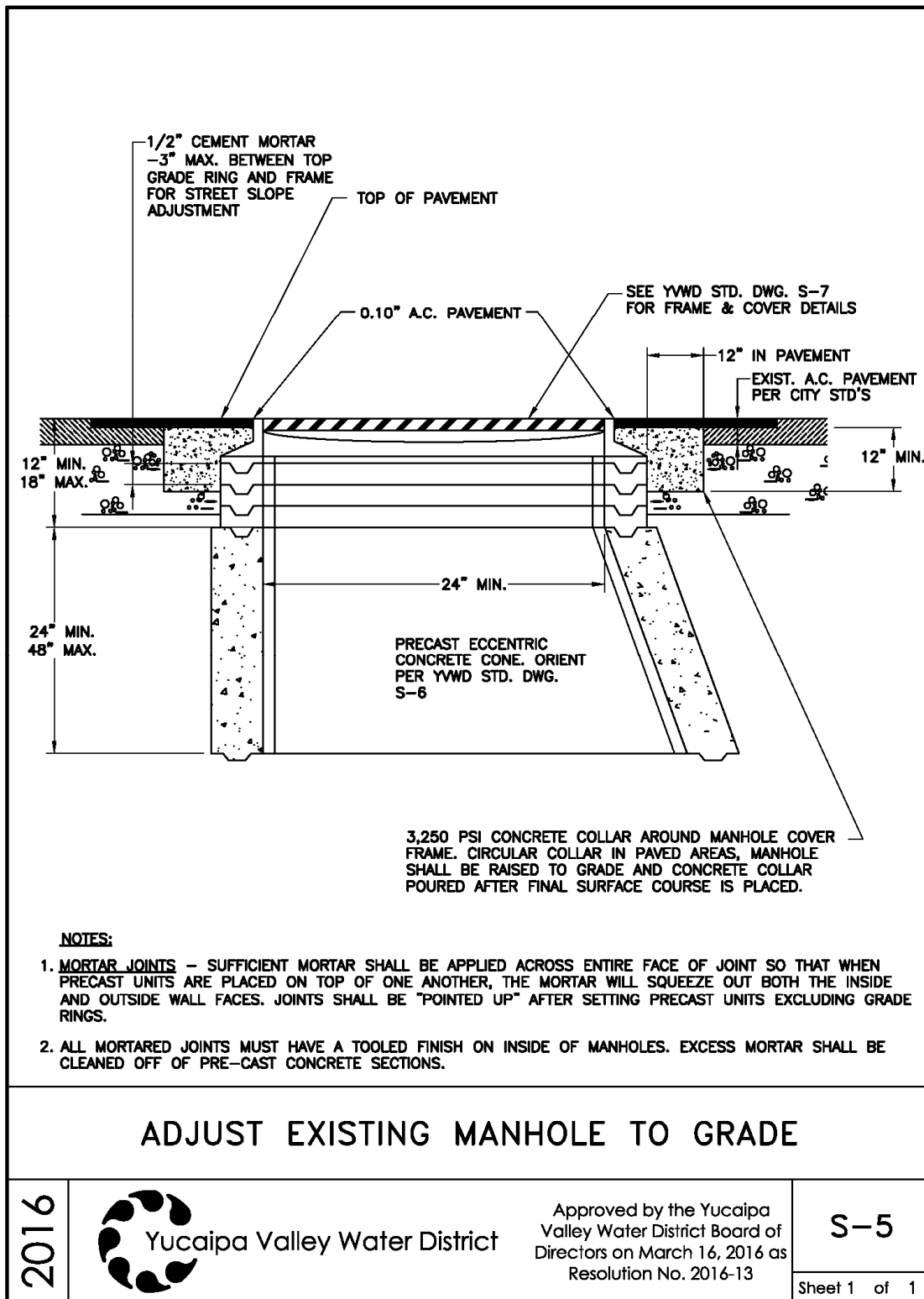
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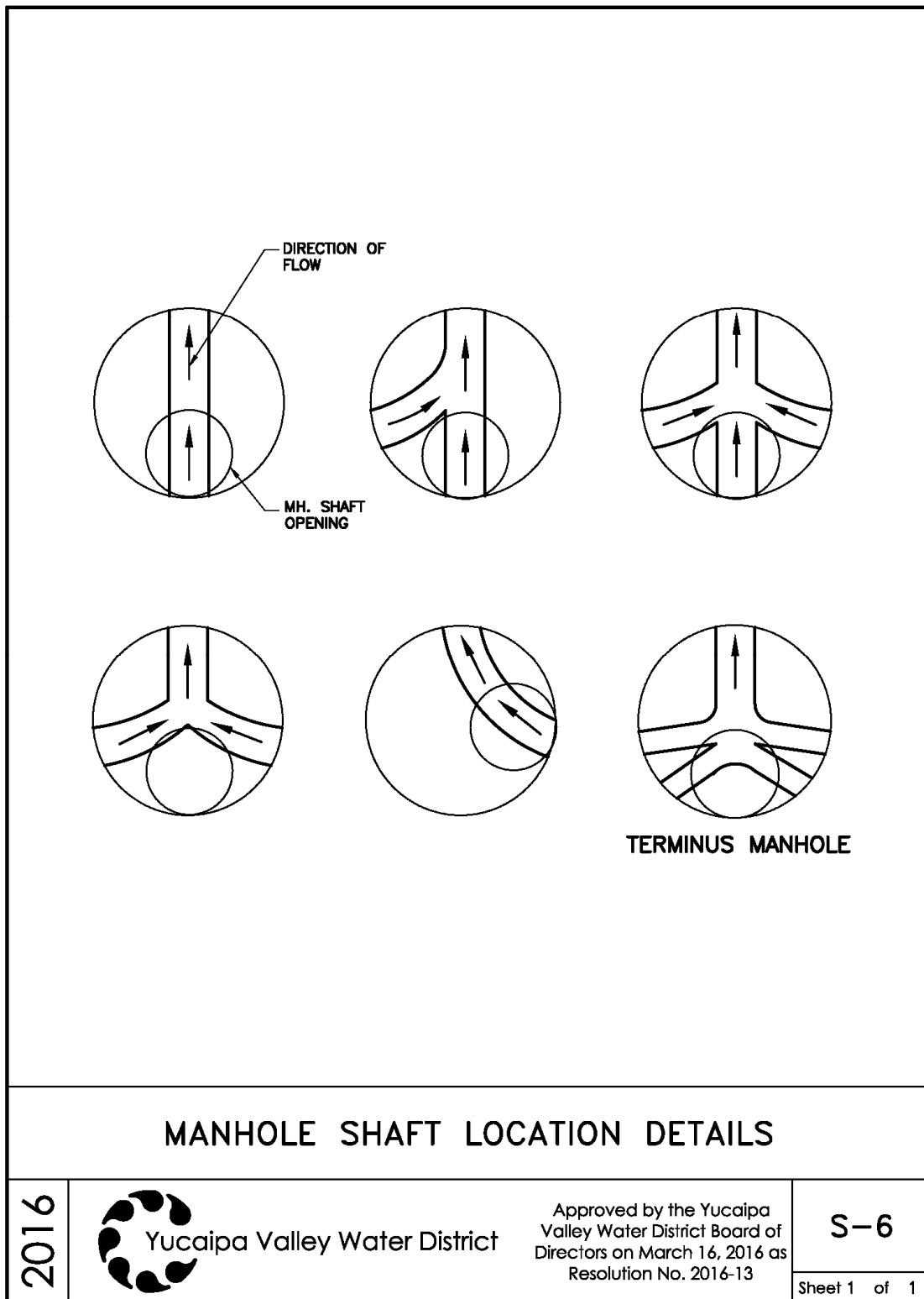


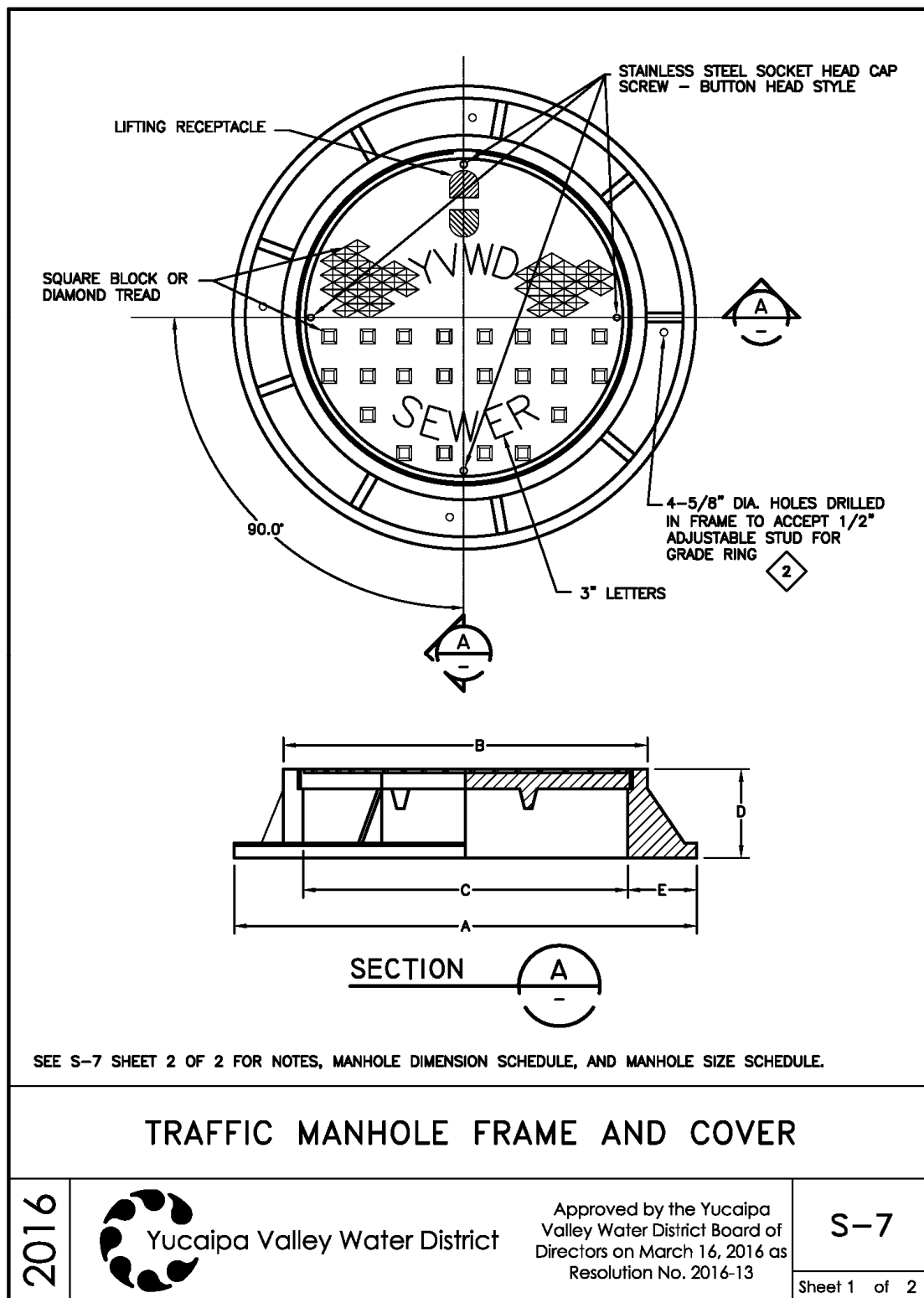












**NOTES:**

1. 48" AND 60" MANHOLES SHALL HAVE 24" COVERS. 72" MANHOLES SHALL HAVE 30" COVERS.
2. WHERE FRAME AND COVER ARE SET 18" ABOVE GRADE, 4 1/2" DIA. INSERTS FOR ADJUSTABLE STUDS SHALL BE CAST IN TOP GRADE RING, ALIGNED AS DETAILED ON SHEET 1 OF 2. FRAME SHALL BE BOLTED TO GRADE RING.
3. WHERE MANHOLE IS LOCATED WITHIN AN EASEMENT, BOLT DOWN FRAME AND COVER SHALL BE REQUIRED.

**MANHOLE DIMENSIONS**

| SIZE | 24"     | 30" |
|------|---------|-----|
| A    | 32"     | 38" |
| B    | 27 1/4" | 33" |
| C    | 24"     | 30" |
| D    | 3.5"    | 6"  |
| E    | 4"      | 4"  |

**MANHOLE SIZES**

| SEWER MAIN | MAX BRANCH SIZE | MANHOLE SIZE | FRAME AND COVER |
|------------|-----------------|--------------|-----------------|
| 8" - 15"   | 10"             | 48"          | 24"             |
| 18" - 21"  | 12"             | 60"          | 24"             |
| 24" - 36"  | 15"             | 72"          | 30"             |

**TRAFFIC MANHOLE FRAME AND COVER**

2016

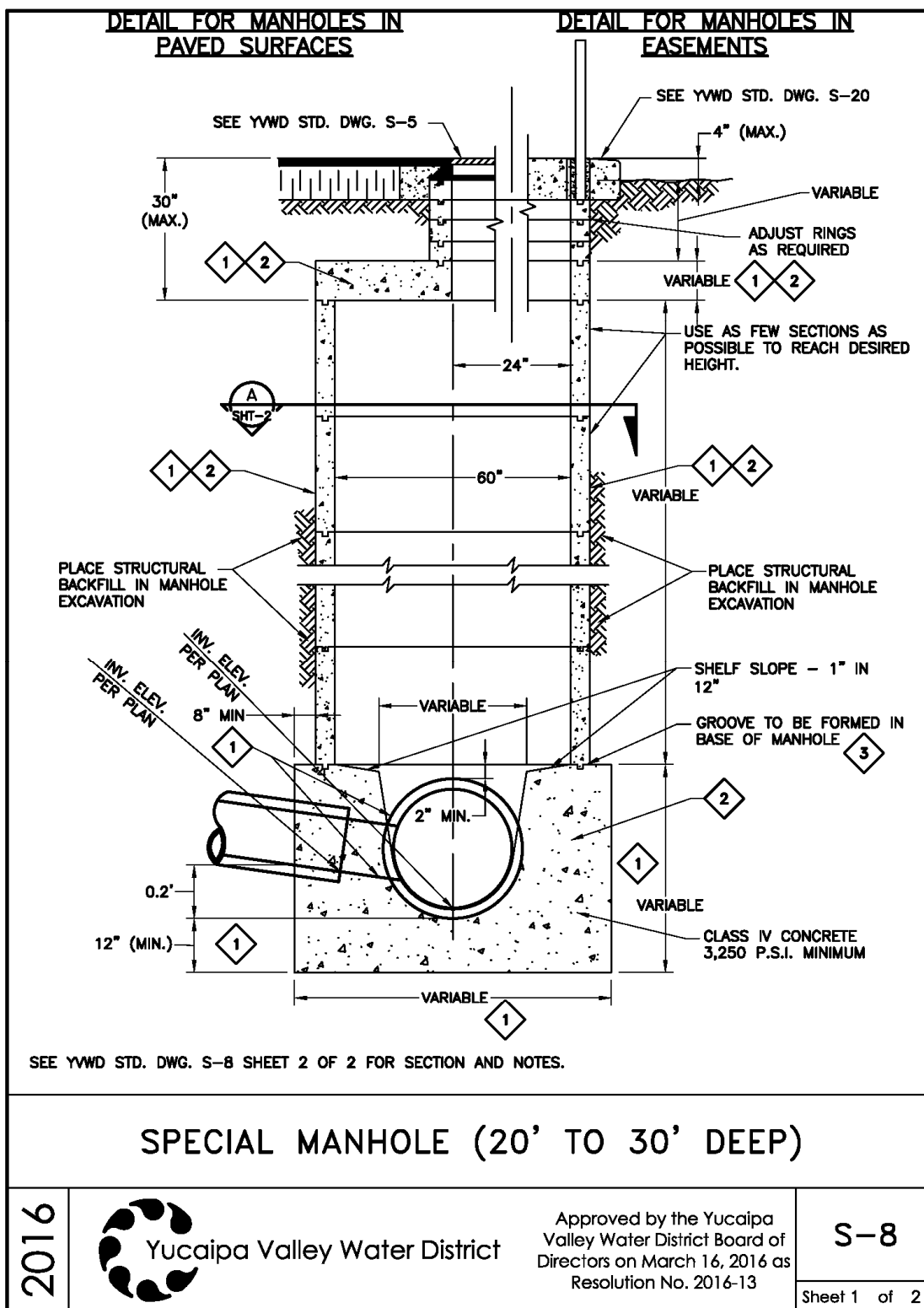


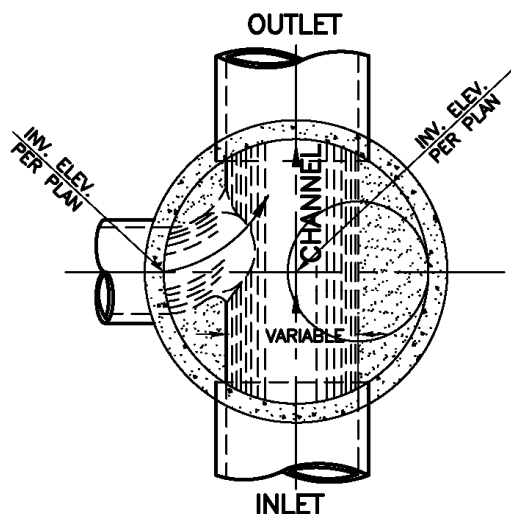
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## SECTION

NOTES:

1. DIMENSIONS PER MANHOLE MANUFACTURER'S SPEC.
2. STEEL REINFORCEMENT PER MANHOLE MANUFACTURER'S SPECIFICATIONS.
3. INVERT CHANNELS, SHELF AND GROOVE SHALL BE FORMED MONOLITHICALLY WITH THE MANHOLE BASE, NO REWORKING OF CONCRETE WHICH HAS PARTIALLY HARDENED.
4. ALL SECTIONS TO BE WASHED, TO REMOVE ANY LOOSE MATERIAL AND WHILE STILL WET, THEY ARE TO BE SET IN 1:3 MORTAR TRIMMED SMOOTH INSIDE AND OUTSIDE AT TIME OF SETTING, INCLUDING FRAME. INSIDE MORTARED JOINTS MUST HAVE A TOOLED FINISH. EXCESS MORTAR SHALL BE CLEANED OFF PRE-CAST CONCRETE SECTIONS.
5. CONCRETE FOR MANHOLE SECTION 3,250 P.S.I. MIN.
6. PROVIDE FLEXIBLE JOINT IN ALL SEWER PIPES OUTSIDE MANHOLE BUT WITHIN 12"-24" OF CONCRETE BASE. NO BELLS, USE MISSION CLAY STAINLESS STEEL BAND REPAIR COUPLINGS OR EQUAL.
7. ADJUSTMENT OF FRAME AND COVER AFTER FINAL PAVING OPERATIONS. FRAME AND COVER SHALL BE SET 1/4" BELOW PAVING TO ALLOW FOR PAVING SETTLEMENT.
8. PRECAST MANHOLE SUPPLIER TO SUBMIT STRUCTURAL CALCULATION TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.  
USE: SOIL ACTIVE PRESSURE = 49 P.C.F.  
SOIL BEARING PRESSURE = 1,500 P.S.F. (OR VALUES PER APPROVED SOIL REPORT)

## SPECIAL MANHOLE (20' TO 30' DEEP)

2016

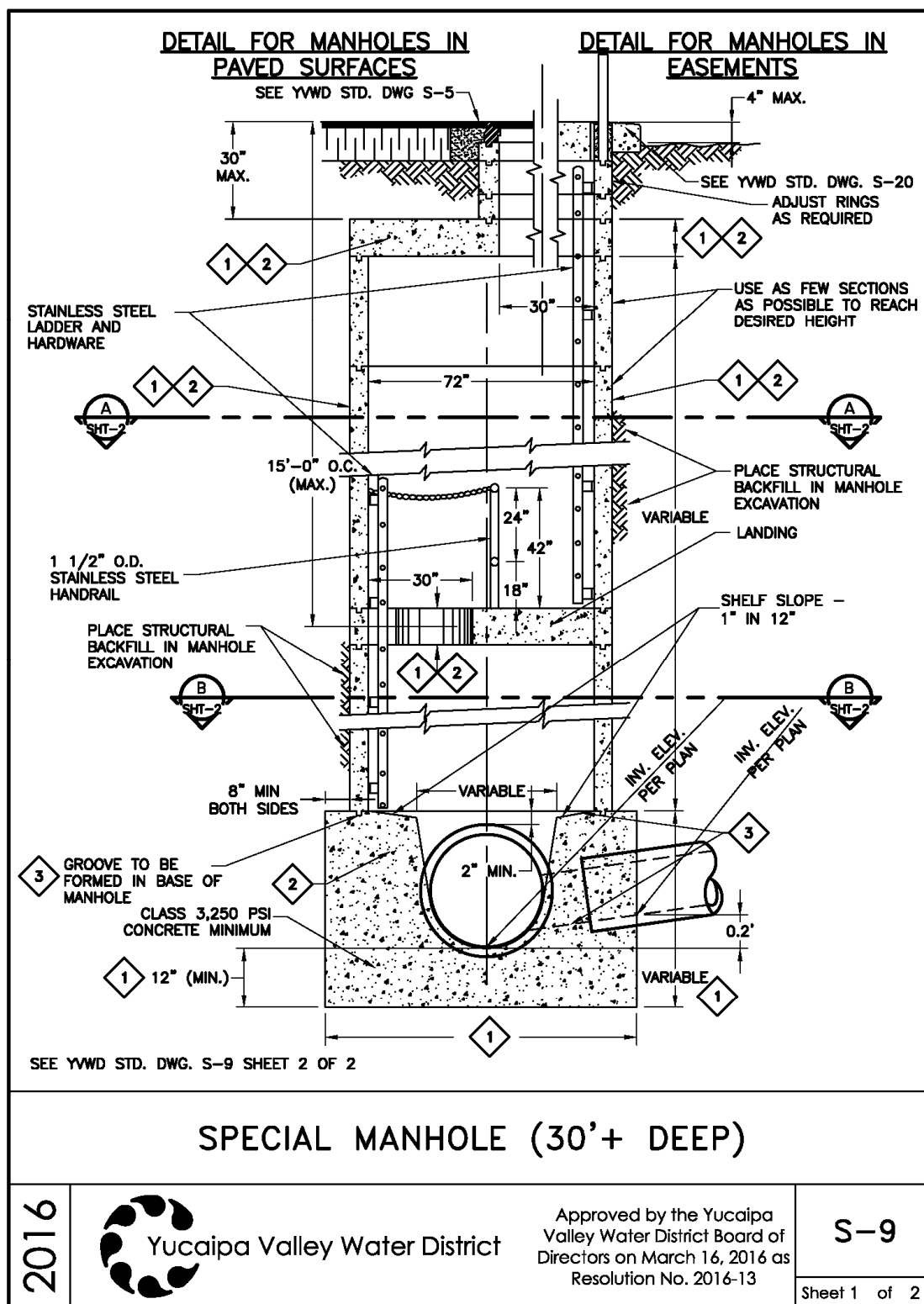


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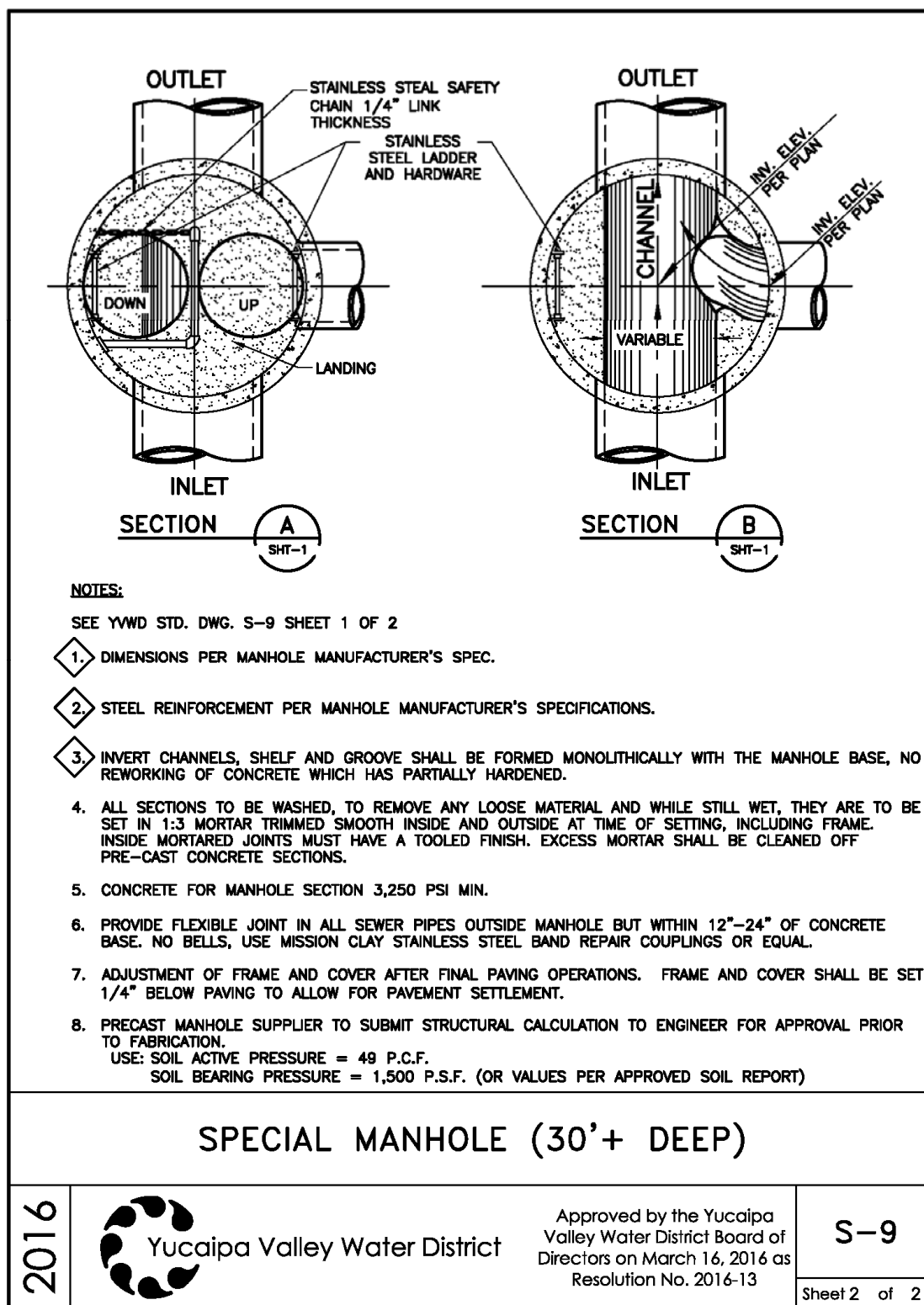
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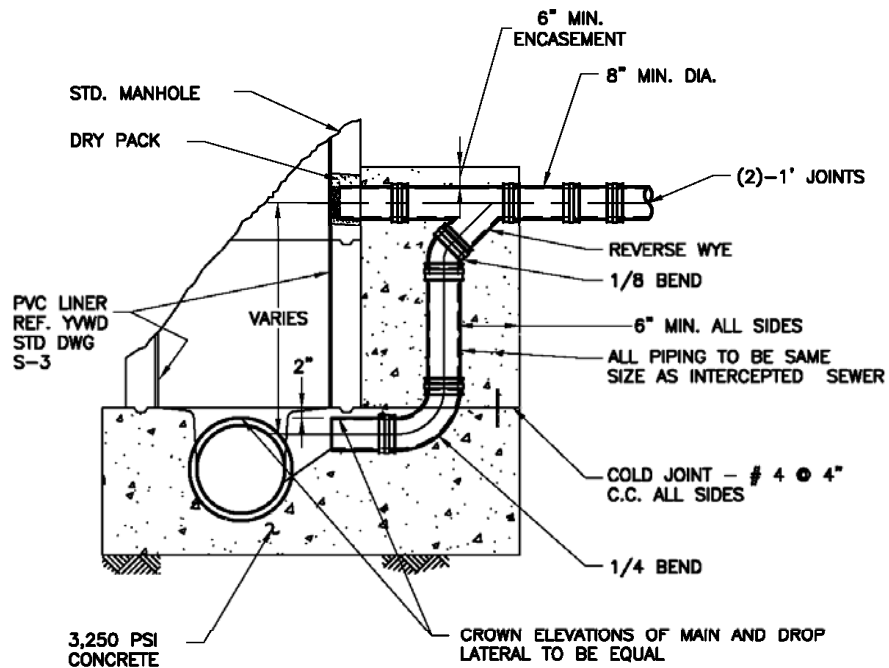
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SECTION

**NOTES:**

1. DROP MANHOLE ONLY TO BE USED FOR SPECIAL SITUATIONS, AND SHALL NOT BE CONSTRUCTED WITHOUT PRIOR APPROVAL.
2. ALL NEW OPENINGS CONSTRUCTED INTO MANHOLE SHALL BE DONE BY CORE DRILLING.
3. INTERIOR WALL OF MANHOLE TO BE LINED WITH PVC LINER PER SPECIFICATIONS.

**DROP MANHOLE DETAIL  
(SPECIAL ACCEPTANCE ONLY)**

# 2016

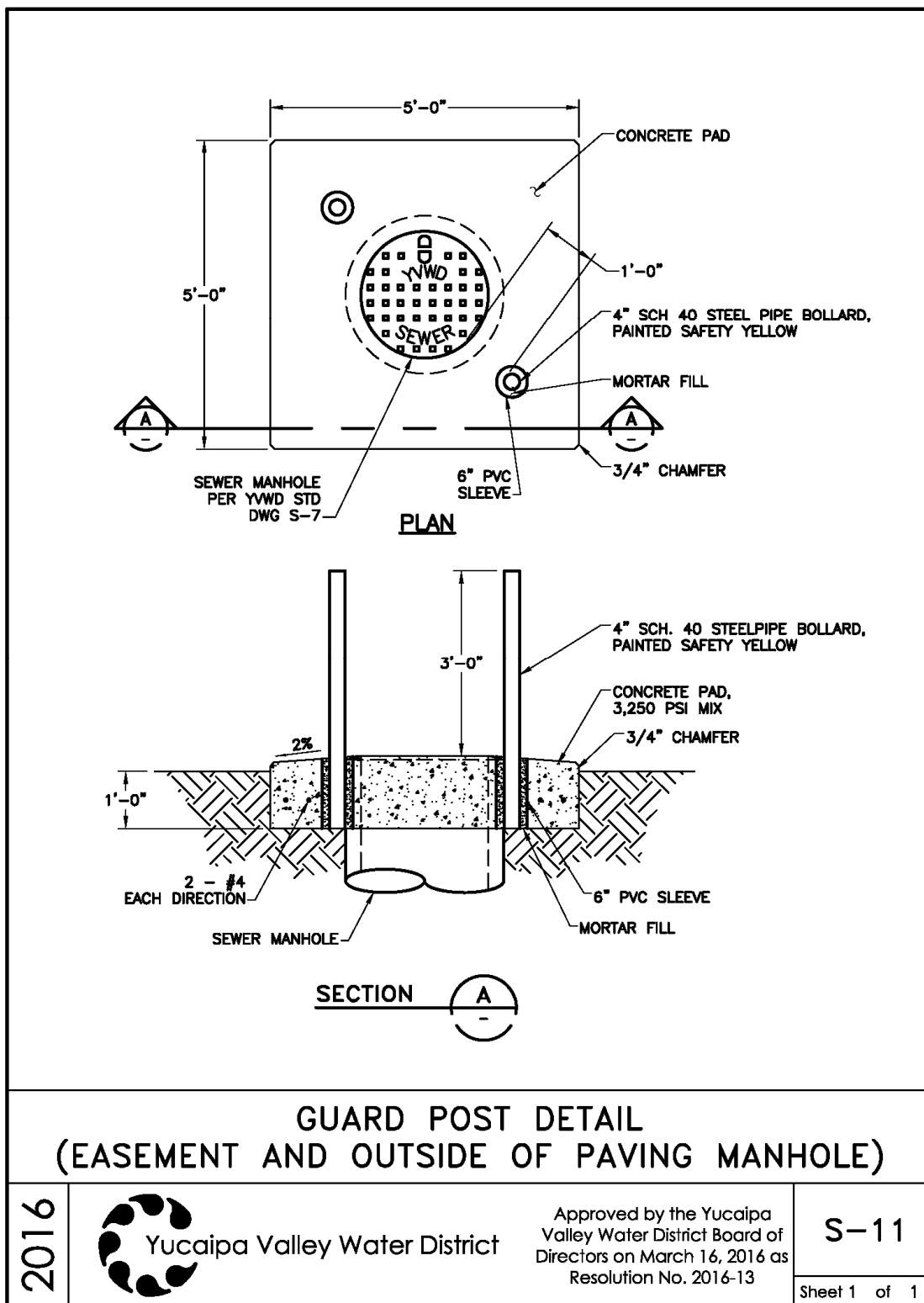


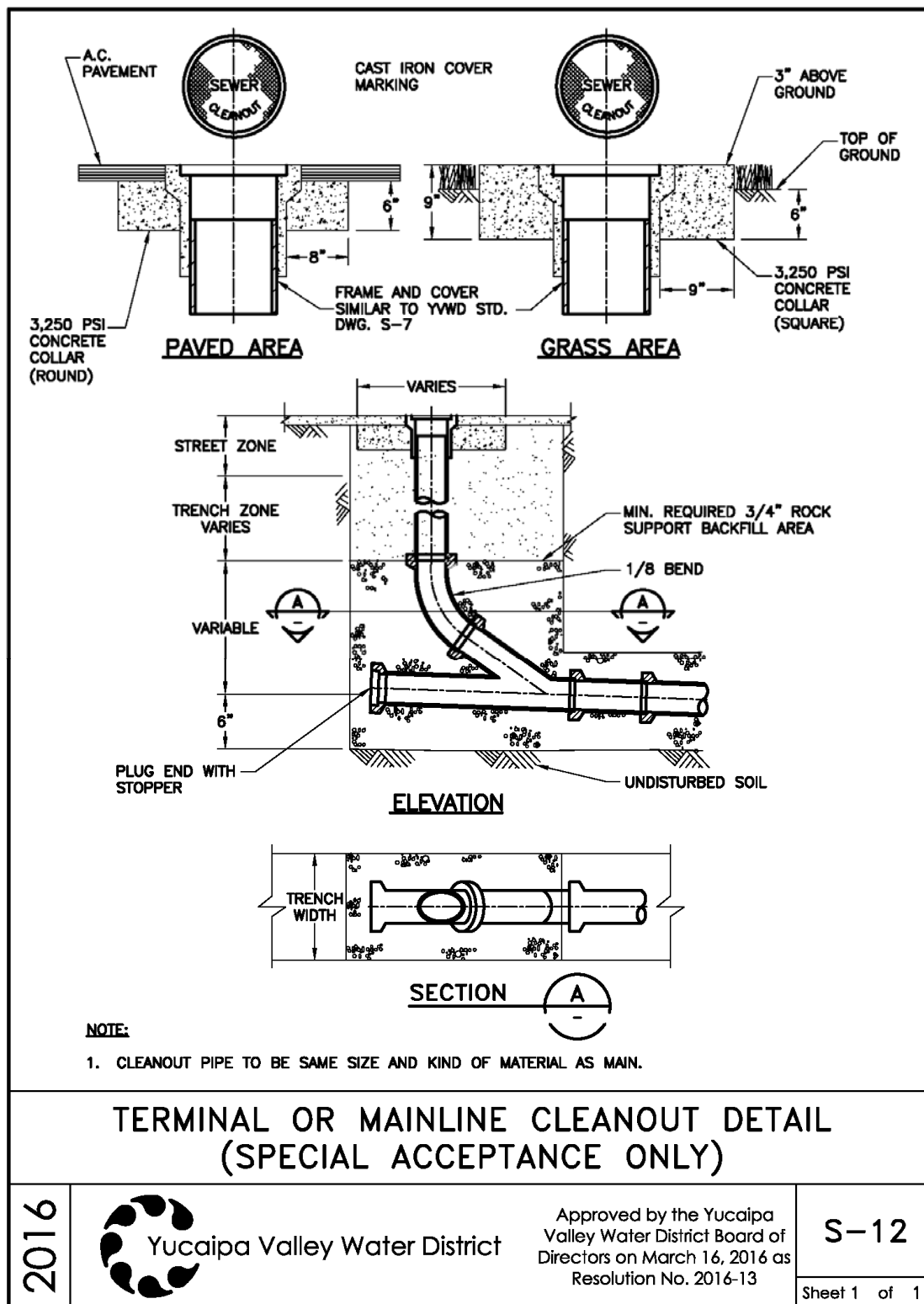
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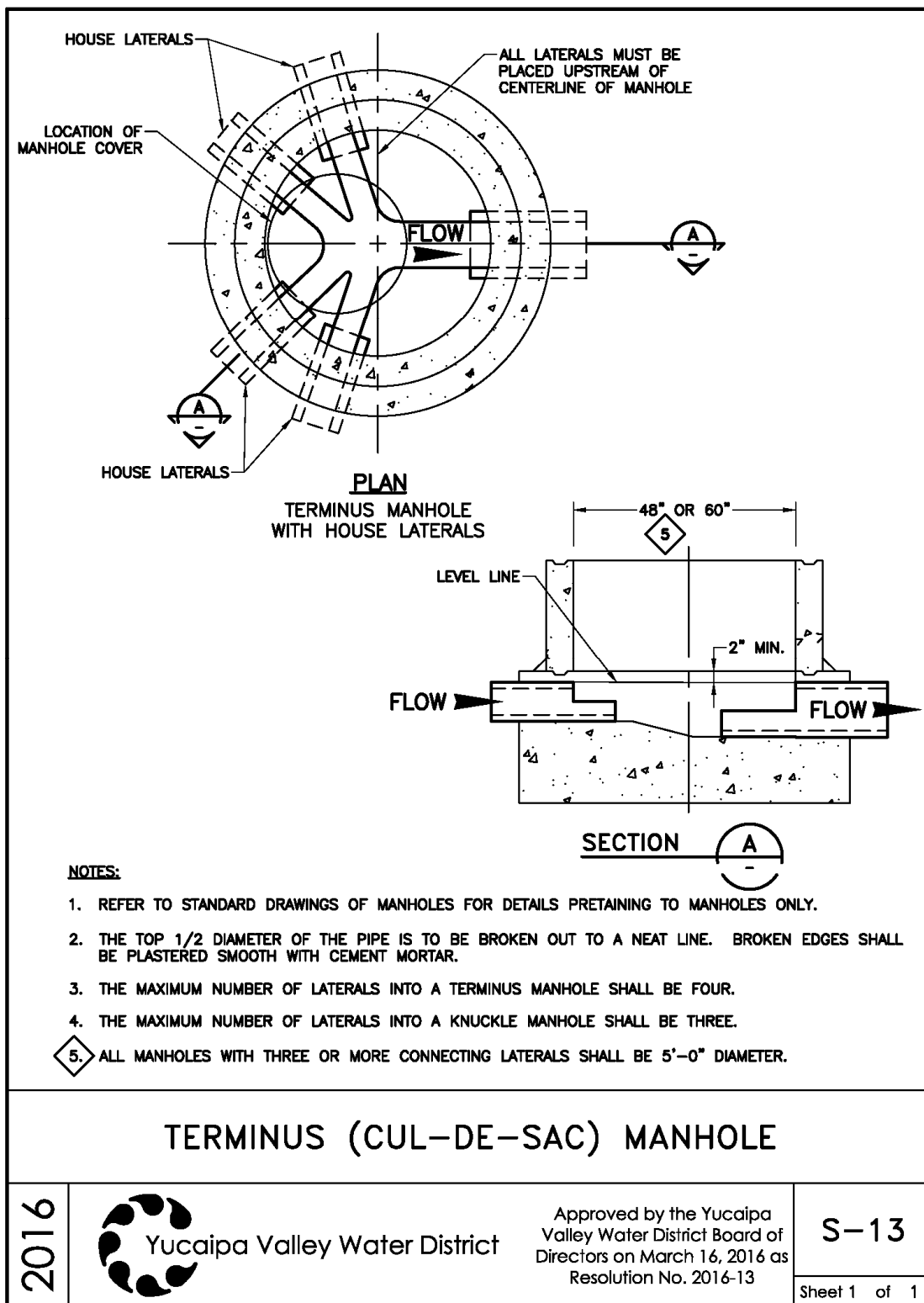
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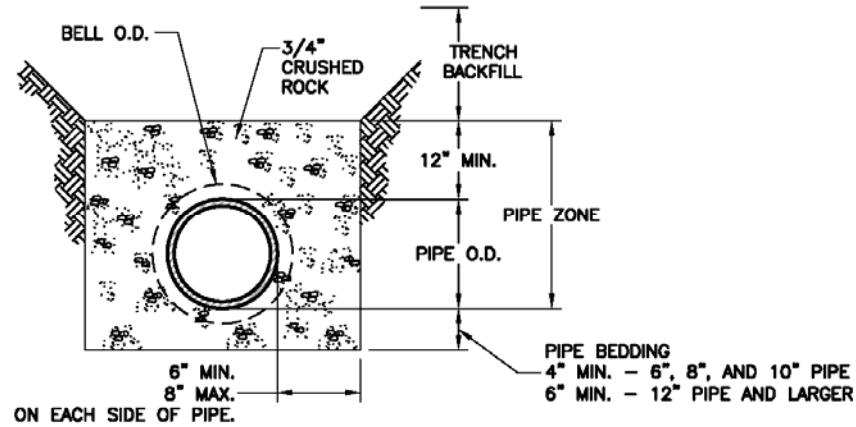
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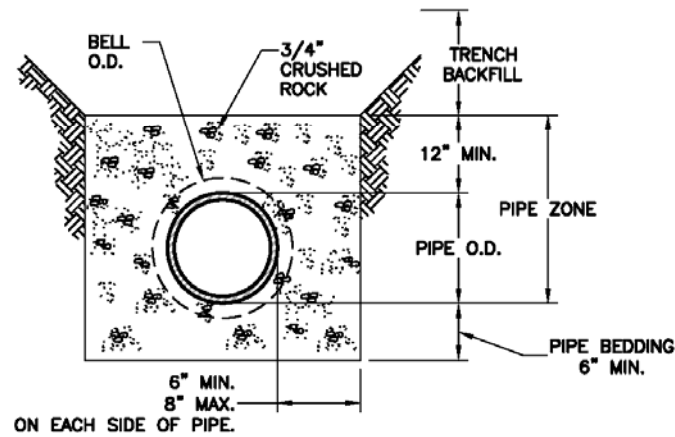








**LOAD FACTOR=1.1**



**LOAD FACTOR=2.2**

**NOTES:**

1. IF UNSTABLE SOIL IS ENCOUNTERED, DISTRICT REPRESENTATIVE SHALL DETERMINE DEPTH OF REMOVAL AND SIZE OF FOUNDATION ROCK REFILL MATERIAL.

## VITRIFIED CLAY PIPELINE BEDDING DETAIL

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| MINIMUM LOAD FACTOR — UNLIMITED TRENCH WIDTH |                |       |        |        |        |        |        |
|--|----------------|-------|--------|--------|--------|--------|--------|
| SEWER DIAMETER                               | DEPTH OF COVER |       |        |        |        |        |        |
|  | 6'-0"          | 8'-0" | 10'-0" | 12'-0" | 14'-0" | 16'-0" | 18'-0" |
| 8"   | 1.1            | 1.1   | 1.1    | 2.2    | 2.2    | 2.2    | 2.2    |
| 10"  | 1.1            | 1.1   | 2.2    | 2.2    | 2.2    | 2.2    | —      |
| 12"  | 1.1            | 2.2   | 2.2    | 2.2    | 2.2    | —      | —      |
| 15"  | 1.1            | 2.2   | 2.2    | 2.2    | —      | —      | —      |

**NOTES:**

1. 3/4" CRUSHED ROCK SHALL BE PER STANDARD SPECIFICATIONS, WITH THE FOLLOWING GRADATIONS:

| SIEVE | % PASSING |
|-------|-----------|
| 1"    | 100 %     |
| 3/4"  | 90 - 100% |
| 1/2"  | 20 - 55%  |
| 3/8"  | 0 - 15%   |
| NO. 4 | 0 - 5%    |

2. FOR SEWER DIAMETERS DIFFERENT THAN SHOWN AND FOR DEPTHS OF COVER DIFFERENT THAN SHOWN, DISTRICT SHALL APPROVE PIPE BEDDING AND PIPE ZONE BACKFILL PRIOR TO CONSTRUCTION.
3. WHEN DEPTH REACHES 10'-0", ALL PIPE ZONE BEDDING SHALL BE 3/4" CRUSHED ROCK WITH A MINIMUM DEPTH OF 6" BELOW PIPE UNLESS OTHERWISE NOTED ON PLANS.

## VITRIFIED CLAY PIPELINE BEDDING DETAIL

2016

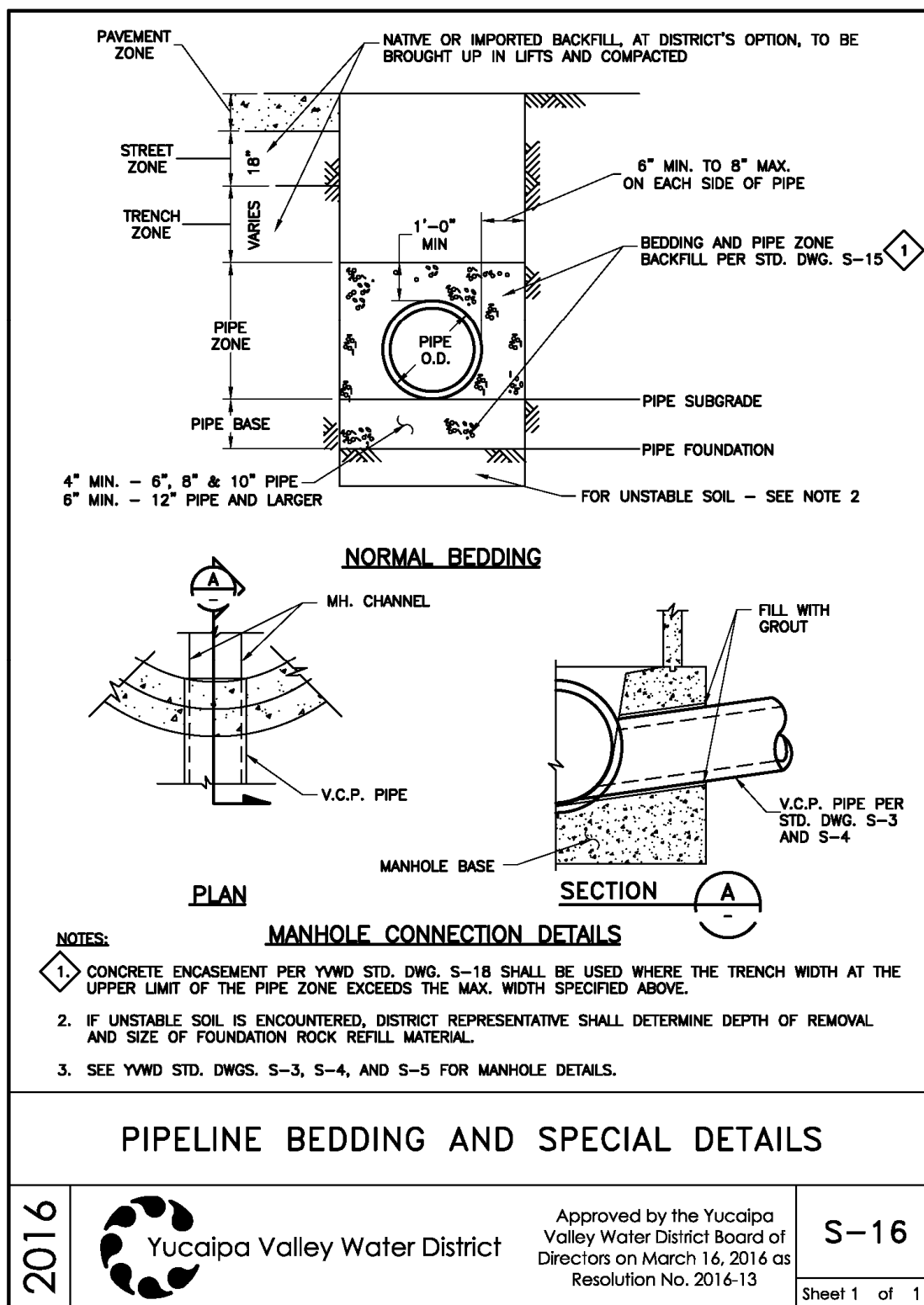


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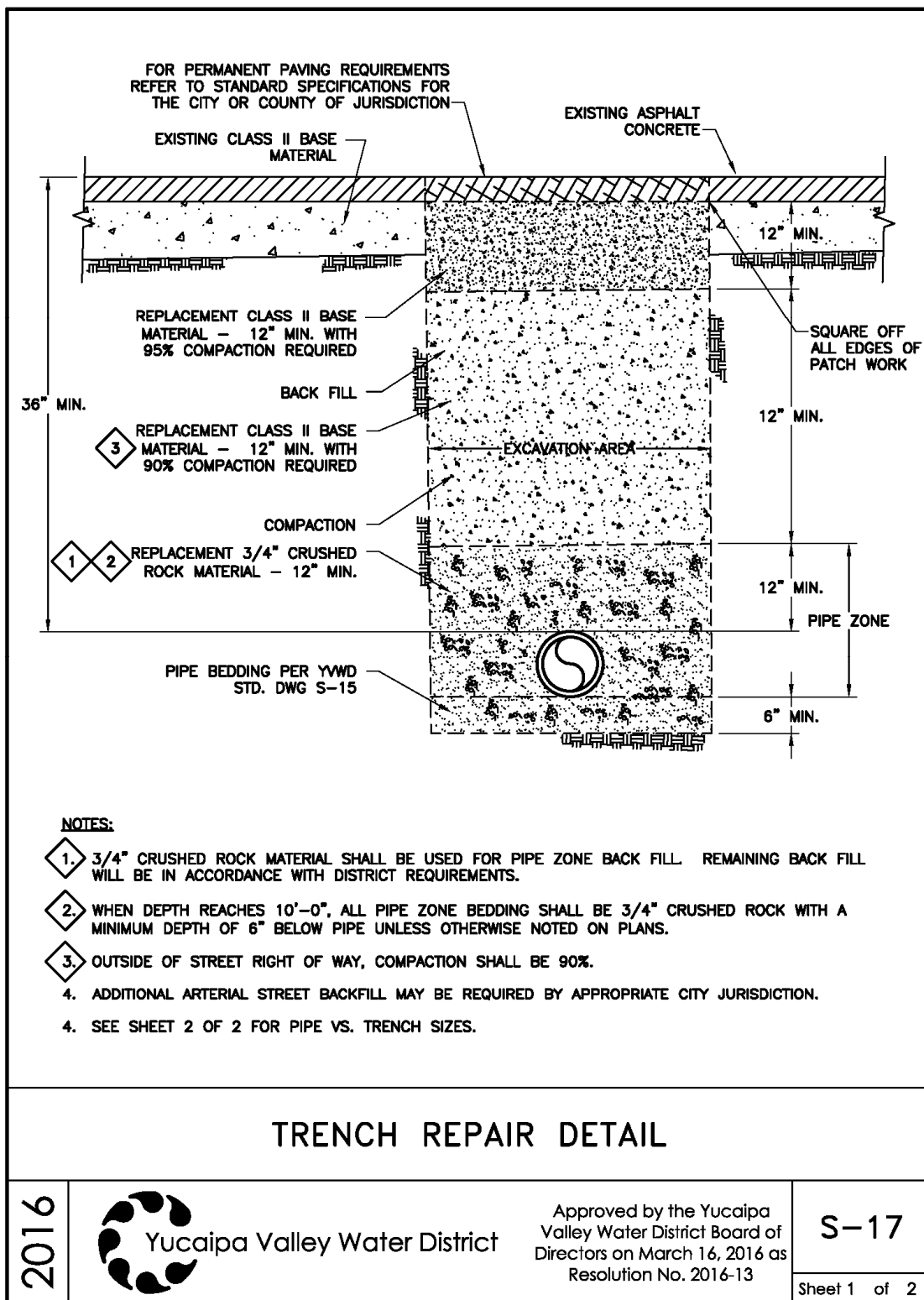
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| TRENCH REPAIR—PIPE SIZE VS<br>TRENCH SIZE |                     |         |
|---|---------------------|---------|
| PIPE SIZE—INCHES<br>(INSIDE DIAMETER)     | TRENCH WIDTH—INCHES |         |
|   | MINIMUM             | MAXIMUM |
| 4   | 20                  | 28      |
| 6   | 22                  | 32      |
| 8   | 24                  | 32      |
| 10  | 26                  | 36      |
| 12  | 30                  | 36      |
| 14  | 32                  | 42      |
| 16  | 34                  | 42      |

## TRENCH REPAIR DETAIL

2016

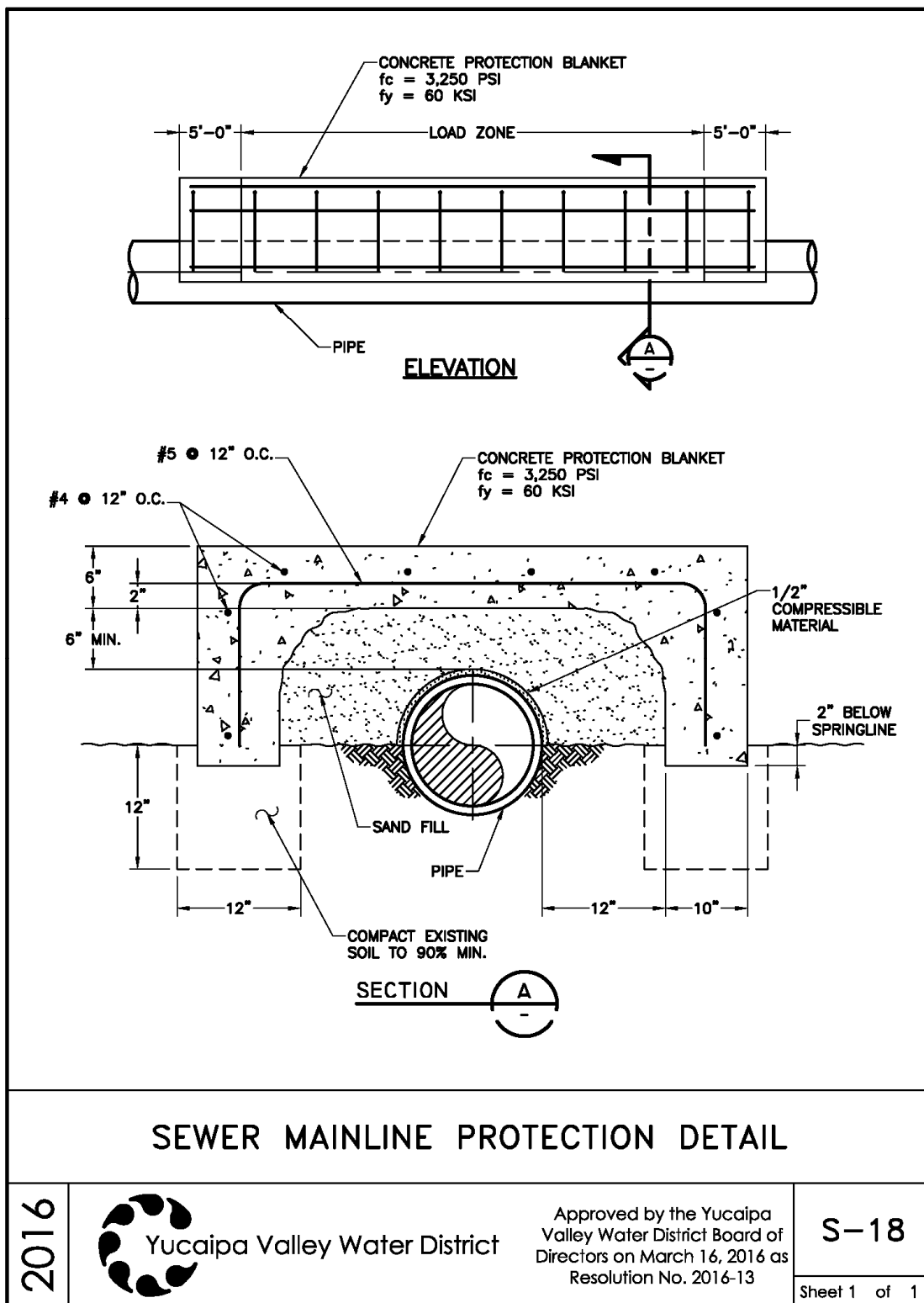


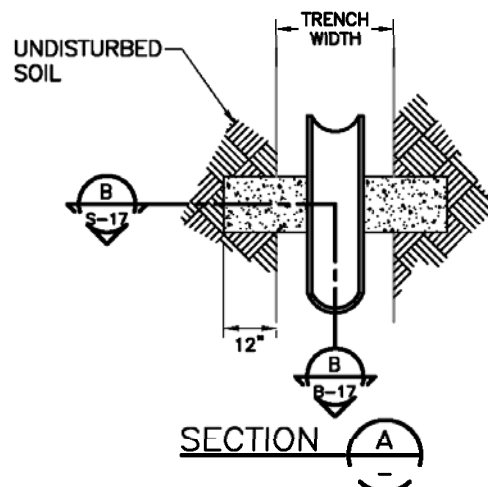
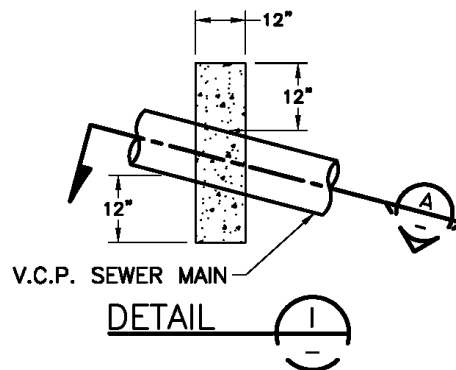
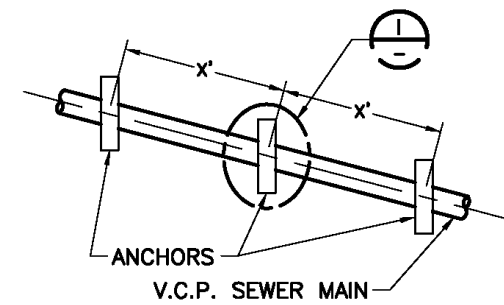
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SEE YVWD. STD. DWG. S-17 SHEET 2 OF 2 FOR SECTION B, REINFORCING STEEL PATTERN, PIPE SLOPE SCHEDULE, AND NOTES.

## CONCRETE SLOPE ANCHORS

2016

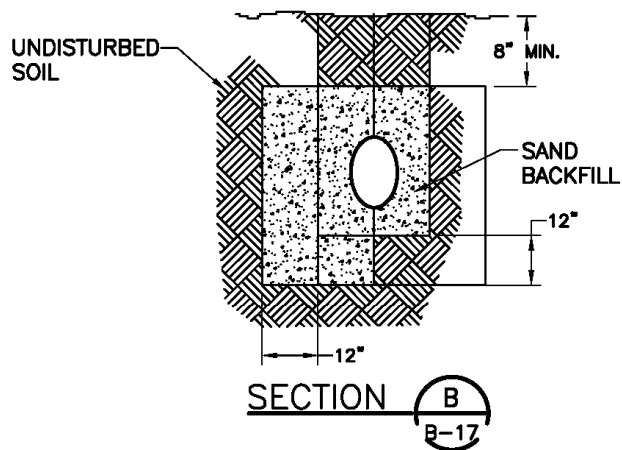


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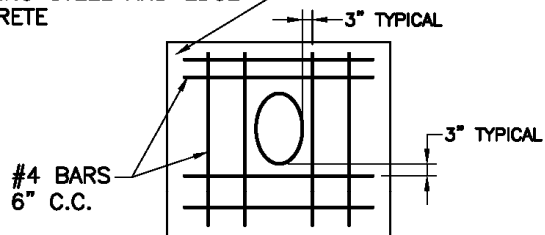
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3" MIN. CLEARANCE BETWEEN  
REINFORCING STEEL AND EDGE  
OF CONCRETE



### REINFORCING STEEL PATTERN

| PIPE<br>SLOPE | PIPE<br>SLOPE | X<br>DISTANCE |
|---------------|---------------|---------------|
| 100%          | 1:1           | 12'-0"        |
| 66.6%         | 1-1/2:1       | 14'-0"        |
| 50%           | 2:1           | 16'-0"        |
| 40%           | 2-1/2:1       | 18'-0"        |
| 33.3%         | 3:1           | 20'-0"        |

#### NOTES:

1. PIPE ANCHORS REQUIRED ON ALL SLOPES OF 3:1 OR STEEPER.
2. ANCHOR SHALL EXTEND 12" INTO NATURAL UNDISTURBED SOIL.
3. CONCRETE SHALL BE 3250 PSI MINIMUM.
4. ANCHORS FOR TRAPEZOIDAL TRENCH SECTIONS WILL CONFORM TO TRENCH CROSS SECTION AND EXTEND 12" INTO UNDISTURBED SOIL.

## CONCRETE SLOPE ANCHORS

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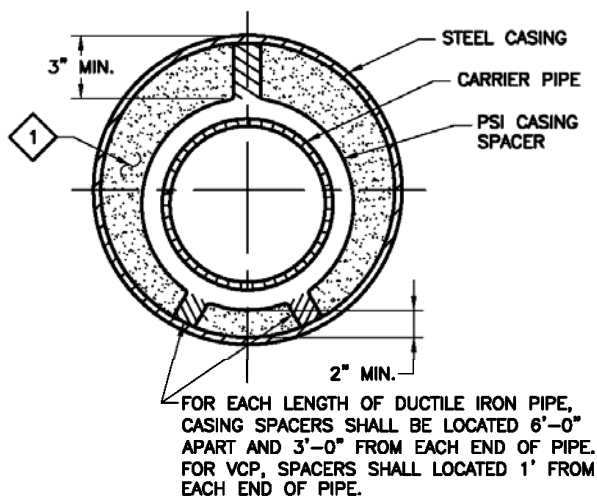


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### STEEL CASING SCHEDULE

| V.C.P. SIZE | MINIMUM CASING SIZE | MIN. WALL THICK. |
|-------------|---------------------|------------------|
| 6"          | 16" I.D.            | 1/4"             |
| 8"          | 18" I.D.            | 1/4"             |
| 10"         | 21" I.D.            | 5/16"            |
| 12"         | 24" I.D.            | 5/16"            |

#### NOTES:

1. THE ANNULAR SPACE BETWEEN THE CASING AND THE CARRIER PIPE SHALL BE FILLED WITH AIR BLOWN SAND.
2. UNLESS OTHERWISE NOTED, CASING SHALL BE INSTALLED BY THE BORE, JACK AND/OR TUNNEL METHOD. IF OPEN-CUT INSTALLATION OF CASING IS ALLOWED, BACKFILL SHALL BE IN ACCORDANCE WITH YVWD STD. DWG S-17.
3. SIZE AND THICKNESS OF CASING SHALL BE AS SHOWN IN SCHEDULE.
4. ALL STEEL CASING PIPE FIELD JOINTS SHALL BE WELDED FULL-CIRCUMFERENCE.
5. PSI CASING SPACERS SHALL BE PROVIDED PER DETAIL ABOVE.
6. CARRIER PIPE SHALL BE AIR PRESSURE TESTED PRIOR TO FILLING CASING AND AGAIN WITH ENTIRE ENTIER PIPELINE
7. UPSTREAM AND DOWNSTREAM ELEVATIONS OF CARRIER PIPE TO BE VERIFIED PRIOR TO FILLING.
8. EACH END OF CASING SHALL BE SEALED WITH CONCRETE MORTAR.

### STEEL CASING PIPE

2016

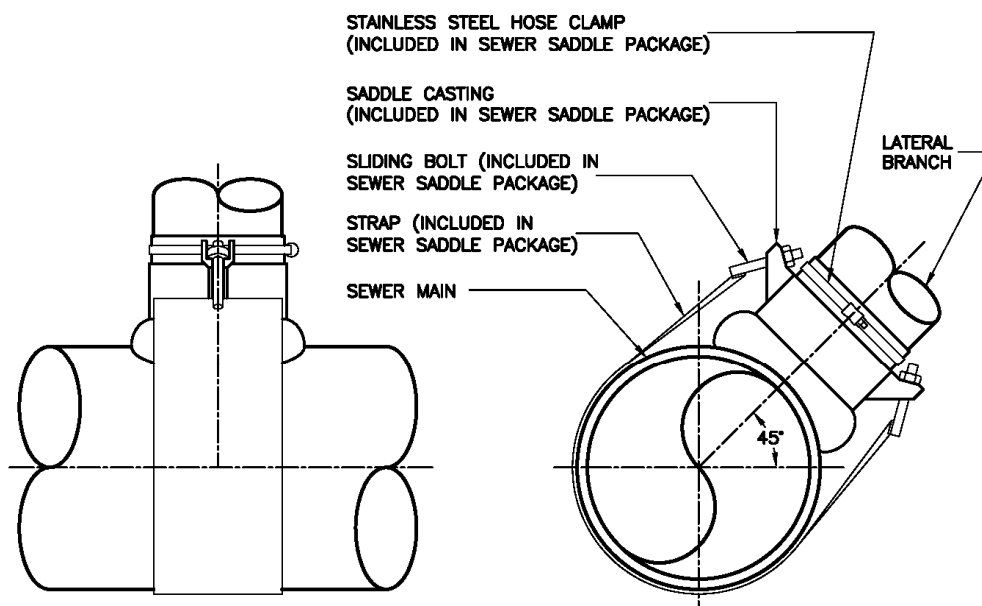


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### SEWER SADDLE FOR 4" – 6" CLAY PIPE LATERAL CONNECTION

| SEWER<br>DIAMETER | ROMAC INDUSTRIES, INC. PART<br>NUMBER |                   |
|-------------------|---------------------------------------|-------------------|
|                   | 4" LATERAL BRANCH                     | 6" LATERAL BRANCH |
| 8" – 12"          | CB-5.38                               | CB-7.56           |
| 14" – 24"         | CB-5.38LS                             | CB-7.56LS         |
| 24" – 48"         | CB-5.38XLS                            | CB-7.56XLS        |

#### NOTES:

1. LATERAL CONNECTION BY SADDLE METHOD SHALL BE USED ON PIPES 8" IN DIAMETER AND LARGER.
2. THE HOLE FOR THE COLLAR WYE FITTING FOR A SEWER SADDLE SHALL BE MADE WITH A TAPPING MACHINE. THE HOLE SHALL BE CLEANLY MACHINED, AND IF NECESSARY, WORKED BY HAND WITH A RASP OR SANDED TO ACCOMPLISH A TRUE AND NEAT OPENING FOR THE COLLAR WYE.
3. THE COLLAR WYE SADDLE SHALL BE SECURED TO THE SEWER MECHANICALLY.
4. DAMAGED PIPE SHALL BE REPAIRED AS DIRECTED BY THE DISTRICT REPRESENTATIVE.

### 4" AND 6" SEWER SADDLE CONNECTION TO EXISTING MAINLINE

2016

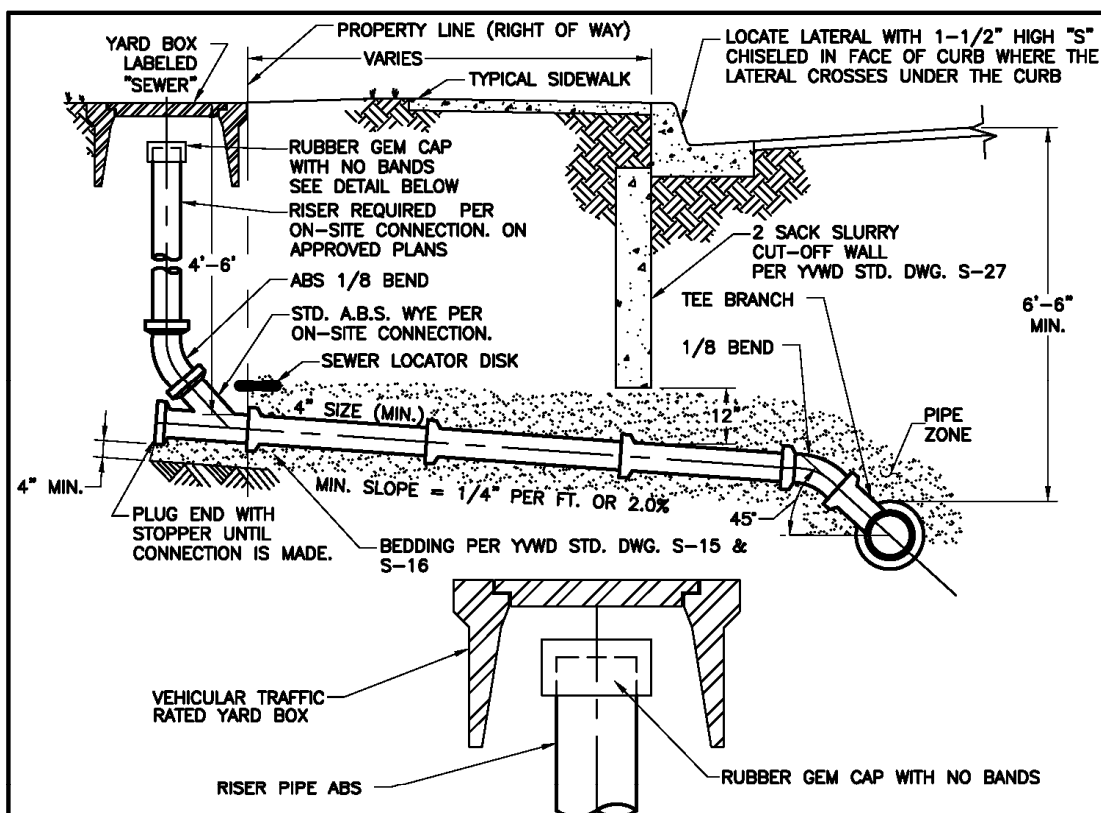


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**NOTES:****STOPPER DETAIL**

1. LATERAL SIZE TO BE DETERMINED ON THE BASIS OF TOTAL NUMBER OF FIXTURE UNITS DRAINED, BUT IN NO CASE SHALL THE LATERAL DIAMETER BE LESS THAN FOUR INCHES FOR SINGLE OR MULTIPLE FAMILY RESIDENTIAL AND SIX INCHES FOR COMMERCIAL OR INDUSTRIAL. RISERS SHALL BE THE SAME SIZE AS THE LATERAL.
2. LATERAL TO BE INSTALLED TO PROPERTY LINE. ALL LATERALS ARE TO BE CONSTRUCTED OF EXTRA STRENGTH VITRIFIED CLAY PIPE. MUST BE INSTALLED WITH A MINIMUM HORIZONTAL OFFSET OF 36" FROM ALL OTHER UTILITIES.
3. PLACE 3/4" CRUSHED ROCK A MINIMUM OF 4" BELOW THE PIPE AND 1' ABOVE THE TEE OR WYE, AND LATERAL.
4. IF RISER IS NOT BUILT, PLUG WYE BRANCH WITH STOPPER.
5. INSTALL A SEWER LOCATOR DISK AT THE END OF ALL LATERAL RUNS AT RIGHT OF WAY.
6. ONLY LATERAL RUNS ARE PERMITTED TO BE EITHER "BELL AND SPIGOT", OR "BAND SEAL".
7. WHERE LATERALS ARE INSTALLED IN DRIVEWAYS, A TRAFFIC RATED BOX IS REQUIRED.
8. IF THE LATERAL IS INSTALLED UNDER A PERMANENT HARDSCAPE SUCH AS A CONCRETE DRIVEWAY ALL THE WAY TO THE STRUCTURE, THEN A CUT OFF WALL IS NOT REQUIRED.

**TYPICAL SEWER LATERAL**

2016



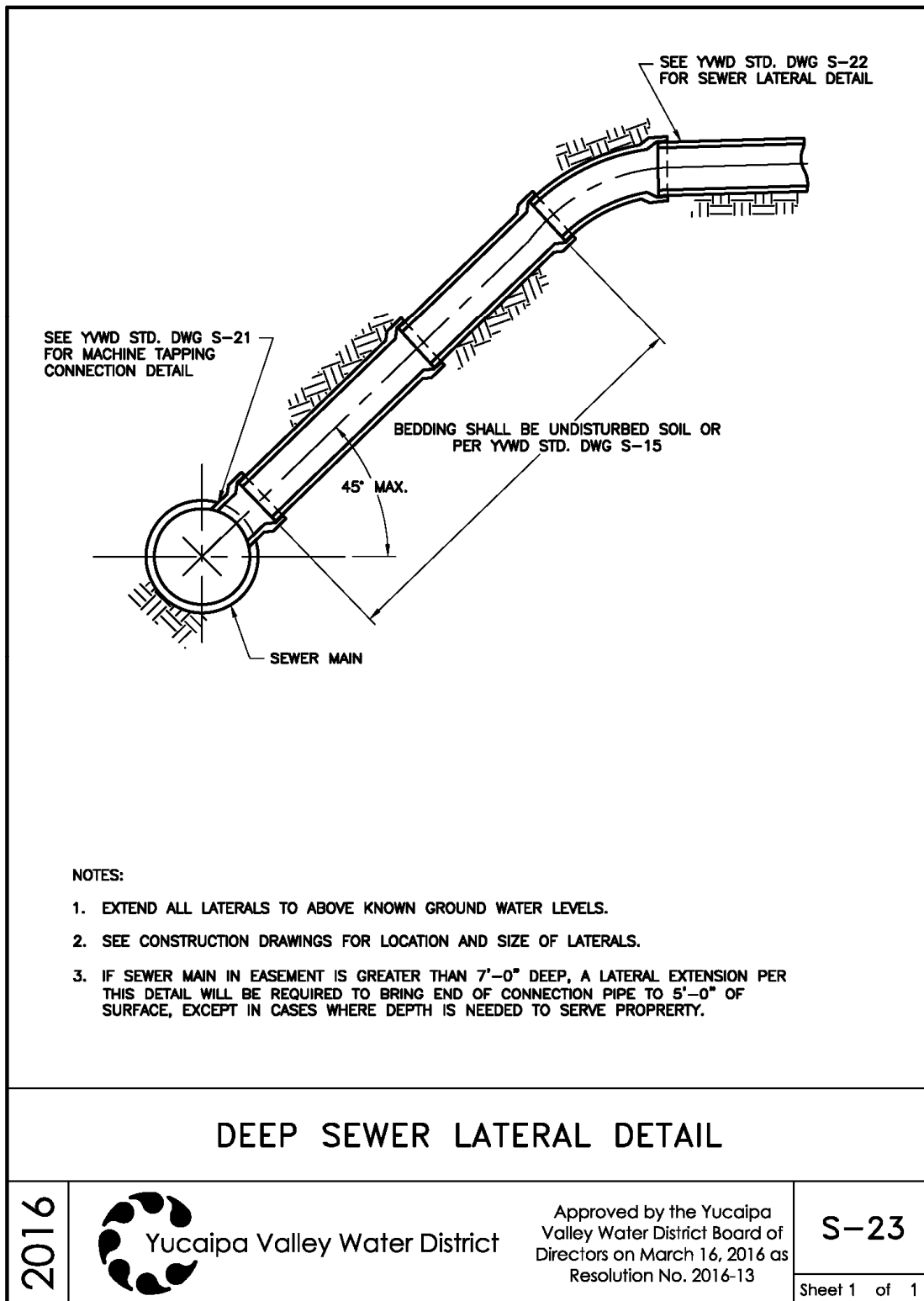
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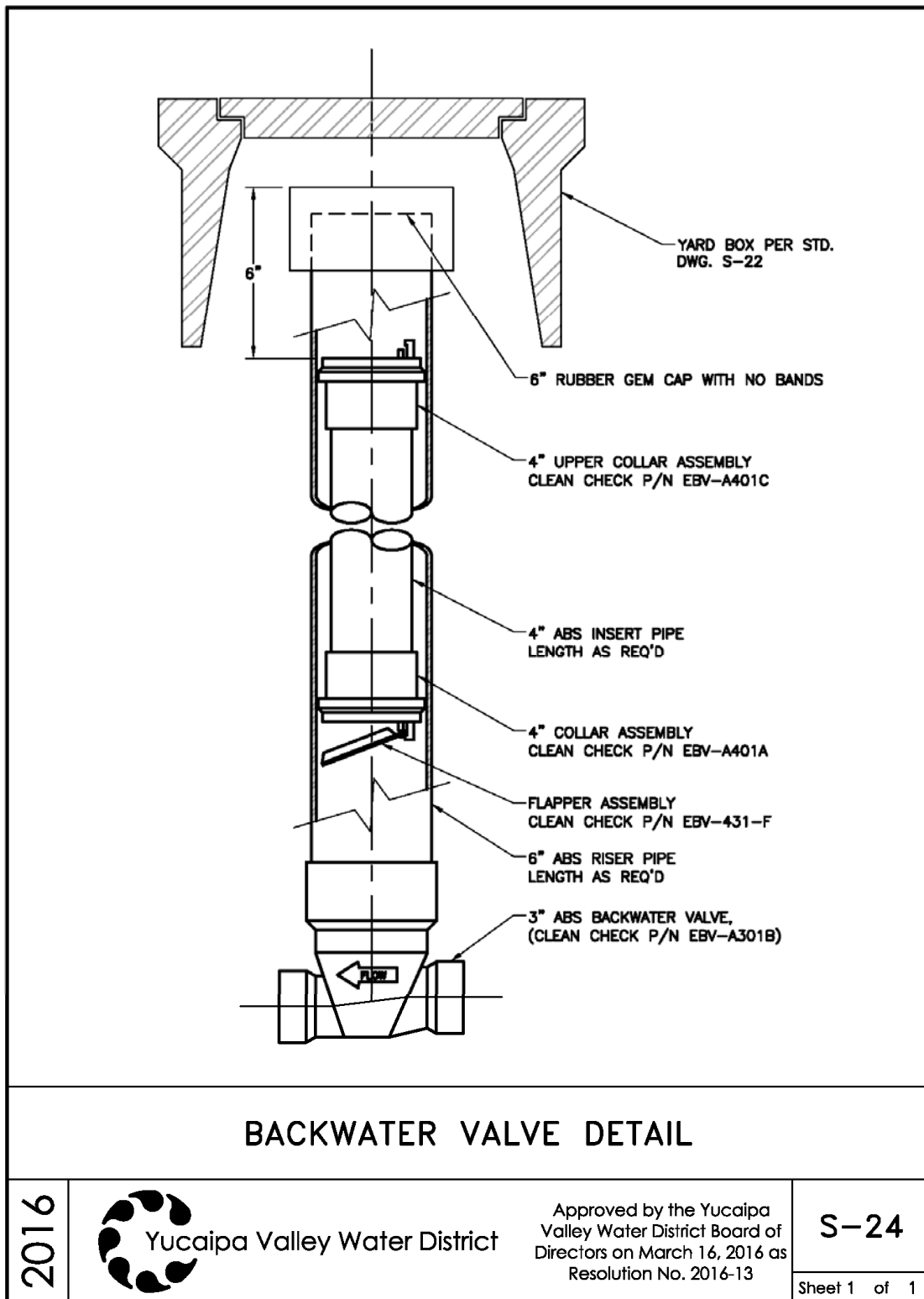
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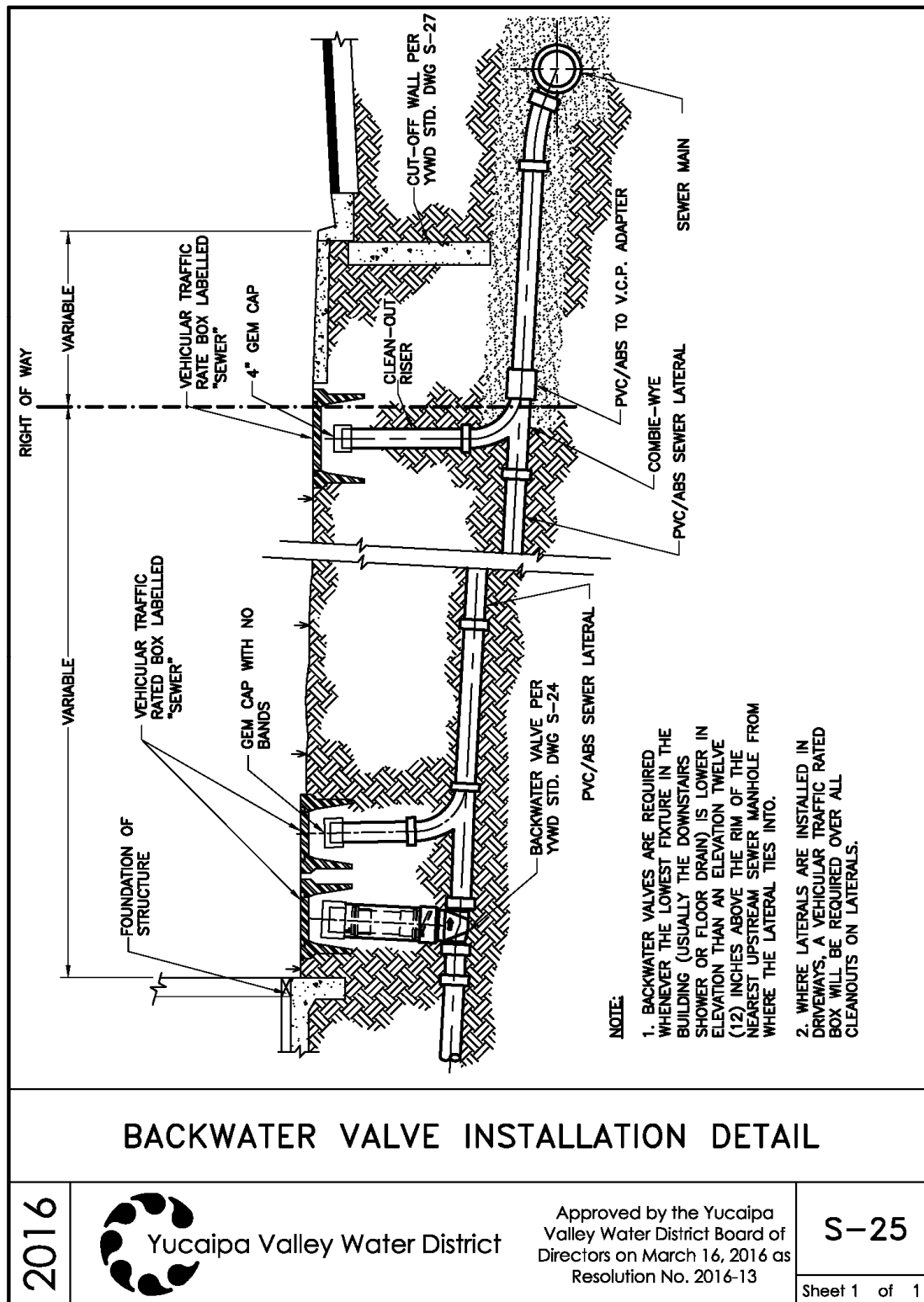
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2016

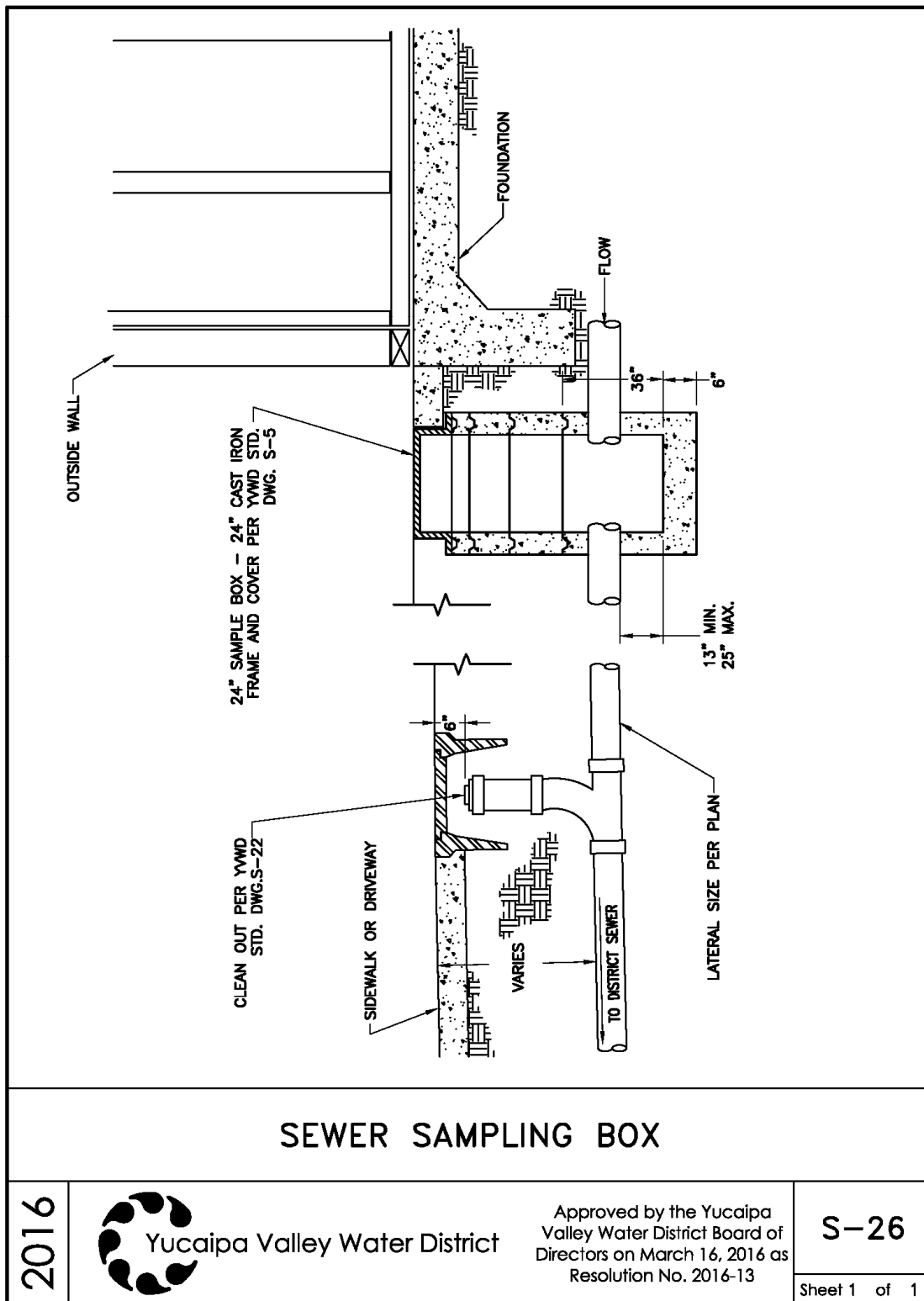


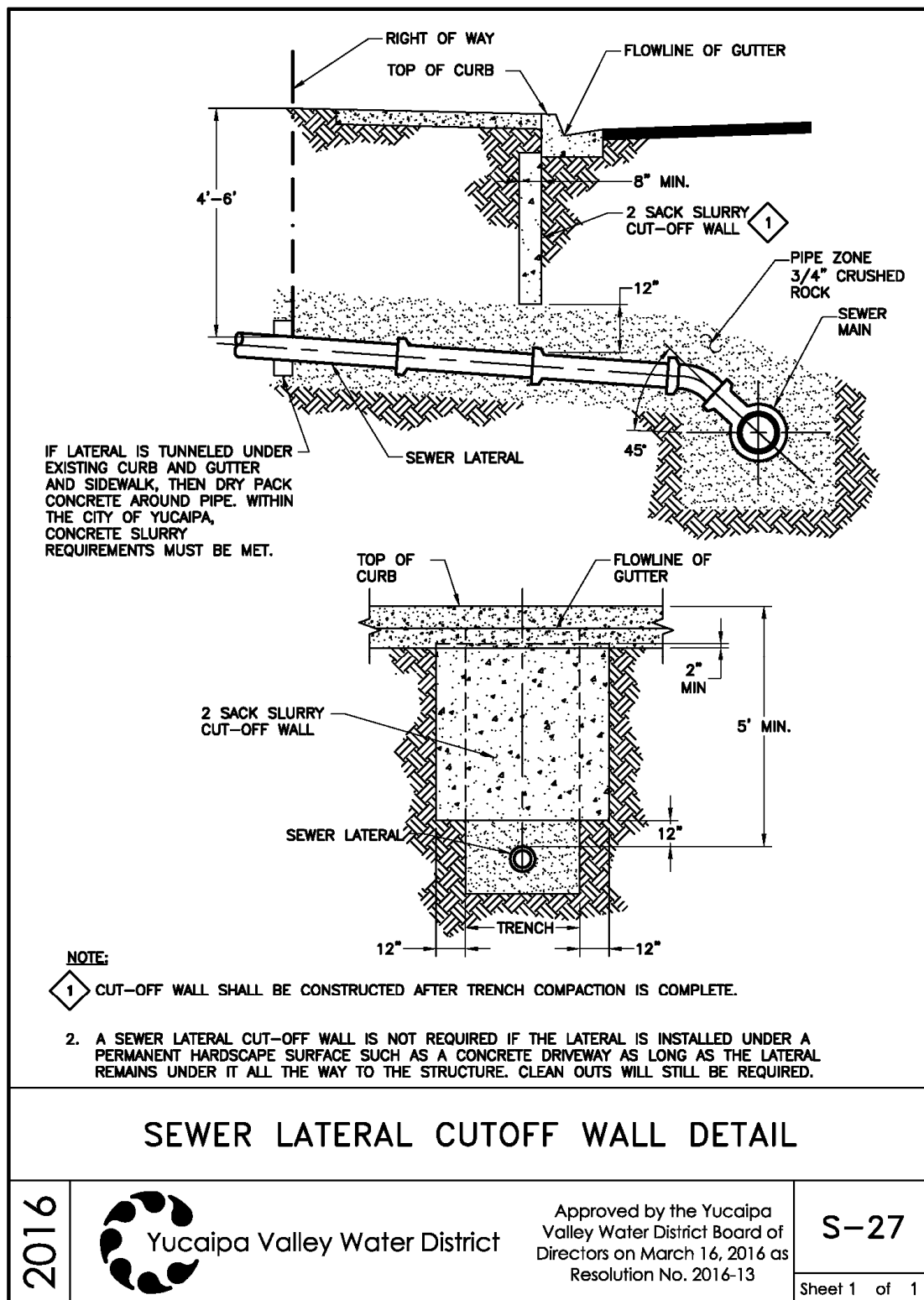
Yucaipa Valley Water District

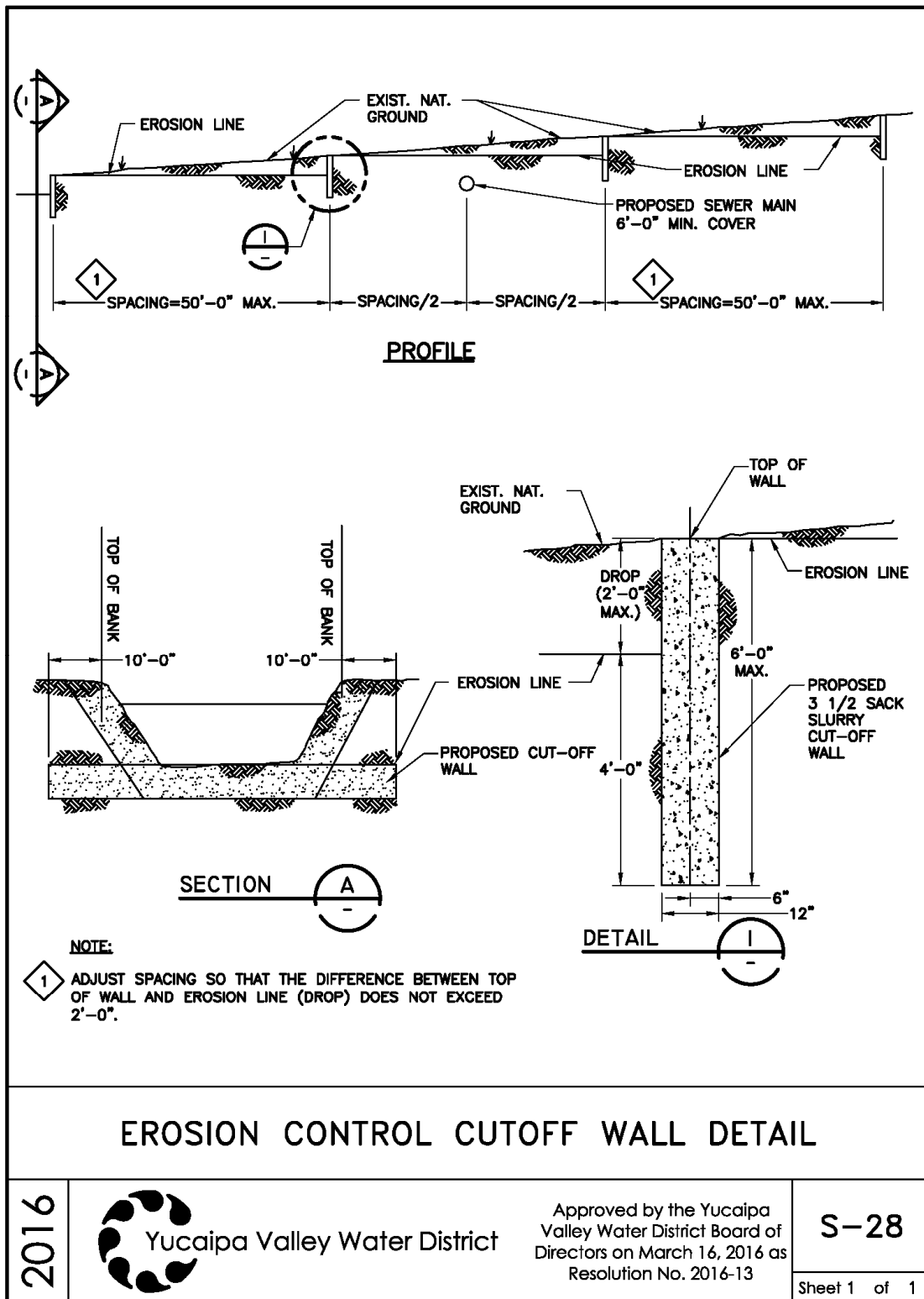
Approved by the Yucaipa  
Valley Water District Board of  
Directors on March 16, 2016 as  
Resolution No. 2016-13

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## Director Memorandum 16-035

**Date:** March 16, 2016

**Prepared By:** Jennifer Ares, Water Resource Manager

**Subject:** Adoption of Resolution No. 2016-10 Adopting an Amendment to the Environmental Impact Report and Environmental Impact Statement for the Calimesa Recycled Water Conveyance Project

**Recommendation:** That the Board adopts Resolution No. 2016-10.

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The Yucaipa Valley Water District has prepared an addendum to the Final 2006 Environmental Impact Report/Environmental Impact Statement for the Regional Non-Potable Water Distribution System Project. This addendum addresses the construction and operation of 18,500 linear feet of 24" recycled water pipeline in order to connect the existing Yucaipa Valley Water District recycled water to an existing Beaumont-Cherry Valley Water District non-potable water pipeline, allowing for the delivery of recycled water between the two agencies.

The proposed Calimesa Recycled Water Conveyance Project would not significantly alter the project analyzed in the EIR/EIS in that new environmental impacts would not occur and impacts identified in the EIR/EIS would not significantly change.

The proposed addition to the originally approved recycled water distribution infrastructure system represents a minor 12% increase in linear footage and, as with the originally proposed alignment, all construction work, staging areas, access routes and system improvements would be mainly constructed in existing disturbed rights-of-way and approximately 175 feet of a disturbed unvegetated slope.

The Cultural Resources and Biological Report have been updated recently in order to ensure the project does not affect any environmental concerns that weren't present or previously analyzed when the Addendum was drafted in 2014. The addendum was delivered to the State Clearinghouse on Friday, January 22, 2016. The review period closed on Monday February 8, 2016.

This item was previously presented on February 9, 2016 as Director Memorandum No. 16-019.

**RESOLUTION NO. 2016-10****A RESOLUTION OF THE YUCAIPA VALLEY WATER DISTRICT ADOPTING AN AMENDMENT TO THE ENVIRONMENTAL IMPACT REPORT AND ENVIRONMENTAL IMPACT STATEMENT FOR THE RECYCLED WATER DISTRIBUTION SYSTEM PROJECT**

WHEREAS, the Yucaipa Valley Water District (the "District") and the U.S. Environmental Protection Agency (EPA) have prepared a Final Environmental Impact Report / Environmental Impact Statement (EIR/EIS) for the Non-Potable Water Distribution System Project ("Project").

WHEREAS, in connection with the proposed Project, the District prepared the final EIR/EIS in compliance with the California Environmental Quality Act (CEQA) and the National Environmental Protection Act (NEPA), and incorporates changes resulting from comments submitted during the Draft EIR/EIS comment period.

WHEREAS, the District held a duly-noticed a public hearing on April 19, 2006 to determine the adequacy of the Final EIR/EIS and if adequate, to certify the document as compliant with CEQA.

NOW, THEREFORE, BE IT HEREBY RESOLVED AND ORDERED, that the Board of Directors of the Yucaipa Valley Water District does hereby determines, resolves and orders as follows:

- Section 1. Based on the Addendum to the Environmental Impact Report and Environmental Impact Statement and the record before the Board of Directors, the Board of Directors hereby finds that the environmental documentation prepared represents the independent judgment of the Yucaipa Valley Water District and that, with implementation of the mitigation monitoring, reporting and compliance program, there is no substantial evidence that the approval of the Addendum will have any significant environmental impact. The documents and other material which constitute the record on which this decision is based are located in the District's office, located at 12770 Second Street, Yucaipa, California, and are in the custody of the Secretary.
- Section 2. Based upon the foregoing, the Board hereby adopts the Addendum to the Environmental Impact Report and Environmental Impact Statement.
- Section 3. The Board hereby orders that, the Mitigation Monitoring, Reporting and Compliance Program as required by the Environmental Impact Report and Environmental Impact Statement shall be implemented as set forth.

PASSED, APPROVED and ADOPTED this 16<sup>th</sup> day of March 2016.

YUCAIPA VALLEY WATER DISTRICT

ATTEST:

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Lonni Granlund, President Board of Directors

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Joseph B. Zoba, General Manager



**ADDENDUM TO EIR**  
**REGIONAL NON-POTABLE WATER DISTRIBUTION SYSTEM PROJECT**

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**PROJECT NAME:** Calimesa Recycled Water Conveyance Project

**PROJECT LOCATION:** Calimesa and Cherry Valley – Riverside County

**PROJECT APPLICANT:** Yucaipa Valley Water District

**DATE:** **March 25, 2014**

## **1.0 INTRODUCTION**

The *Final Environmental Impact Report/Environmental Impact Statement for the Regional Non-Potable Water Distribution System Project* (EIR/EIS) contains a comprehensive disclosure and analysis of potential environmental effects associated with the implementation of the Regional Non-Potable Water Distribution System Project (YVWD and EPA 2006). The purpose of the project was to meet water quality objectives designated in the Water Quality Control Plan for the Santa Ana River Basin, meet existing and planned non-potable (recycled) water demands, and fulfill state mandates. The project analyzed in the original EIR/EIS consisted of the following non-potable water distribution system elements:

- 9,600 linear feet of 12" recycled water pipelines;
- 34,500 linear feet of 16" recycled water pipelines;
- 35,300 linear feet of 24" recycled water pipelines;
- 73,700 linear feet of 36" recycled water pipelines;
- Two, 2.0 million gallon recycled water reservoirs;
- One, 0.5 million gallon recycled water reservoir; and
- Four recycled water booster pumping plants.

A total of approximately 153,100 linear feet of pipeline, three reservoirs and four pump stations would be constructed, maintained and operated to distribute recycled water.

This Addendum addresses the construction and operation of an additional 18,500 linear feet of 24" recycled water pipeline in order to connect an existing Yucaipa Valley Water District (YVWD)

waterline to an existing Beaumont-Cherry Valley Water District (BCVWD) waterline, allowing for the delivery of recycled water to the BCVWD.

The proposed Calimesa Recycled Water Conveyance project (CRWCP or proposed project) would not significantly alter the project analyzed in the EIR/EIS such that new environmental impacts would occur, nor would impacts identified in the EIR/EIS substantially increase in severity. The proposed addition to the originally approved recycled water distribution infrastructure system represents a minor 12% increase in linear footage and, as with the originally proposed alignment, all construction work, staging areas, access routes and system improvements would be mainly in existing right-of-way (ROW) and approximately 175 feet of disturbed unvegetated slope. Additionally, any minor disturbance to unpaved surfaces would be restored to pre-construction conditions and all pipeline installation would be entirely underground; therefore, environmental conditions would not be considered substantially different from that previously analyzed in the EIR/EIS.

Although no additional significant impacts beyond those analyzed in the EIR/EIS are anticipated, the proposed modification represents new information that was not available at the time that the EIR/EIS was certified. Therefore, the District has prepared this addendum pursuant to CEQA to disclose minor changes in the project, and minor changes in some of the environmental effects as a result of proposed project modifications.

## **2.0 CEQA REQUIREMENTS**

Sections 15162 through 15164 of the CEQA guidelines discuss a lead agency's responsibilities in handling new information that was not included in a project's final environmental impact report (EIR).

Section 15162 of the CEQA Guidelines provides:

- (a) When an EIR has been certified...for a project, no subsequent EIR shall be prepared for that project unless the City determines, on the basis of substantial evidence in the light of the whole record, one or more of the following:
  - 1. Substantial changes are proposed in the project which will require major revisions of the EIR...due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects;
  - 2. Substantial changes occur with respect to the circumstances under which the project is undertaken which will require major revisions of the EIR due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects; or

3. New information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time the EIR was certified as complete, shows any of the following:
  - (A) The project will have one or more significant effects not discussed in the [Final] EIR;
  - (B) Significant effects previously examined will be substantially more severe than shown in the [Final] EIR;
  - (C) Mitigation measures or alternatives previously found not to be feasible would in fact be feasible and would substantially reduce one or more significant effects of the project, but the project proponents decline to adopt the mitigation measure or alternative; or
  - (D) Mitigation measures or alternatives which are considerably different from those analyzed in the [Final] EIR would substantially reduce one or more significant effects on the environment, but the project proponents decline to adopt the mitigation measure or alternative.

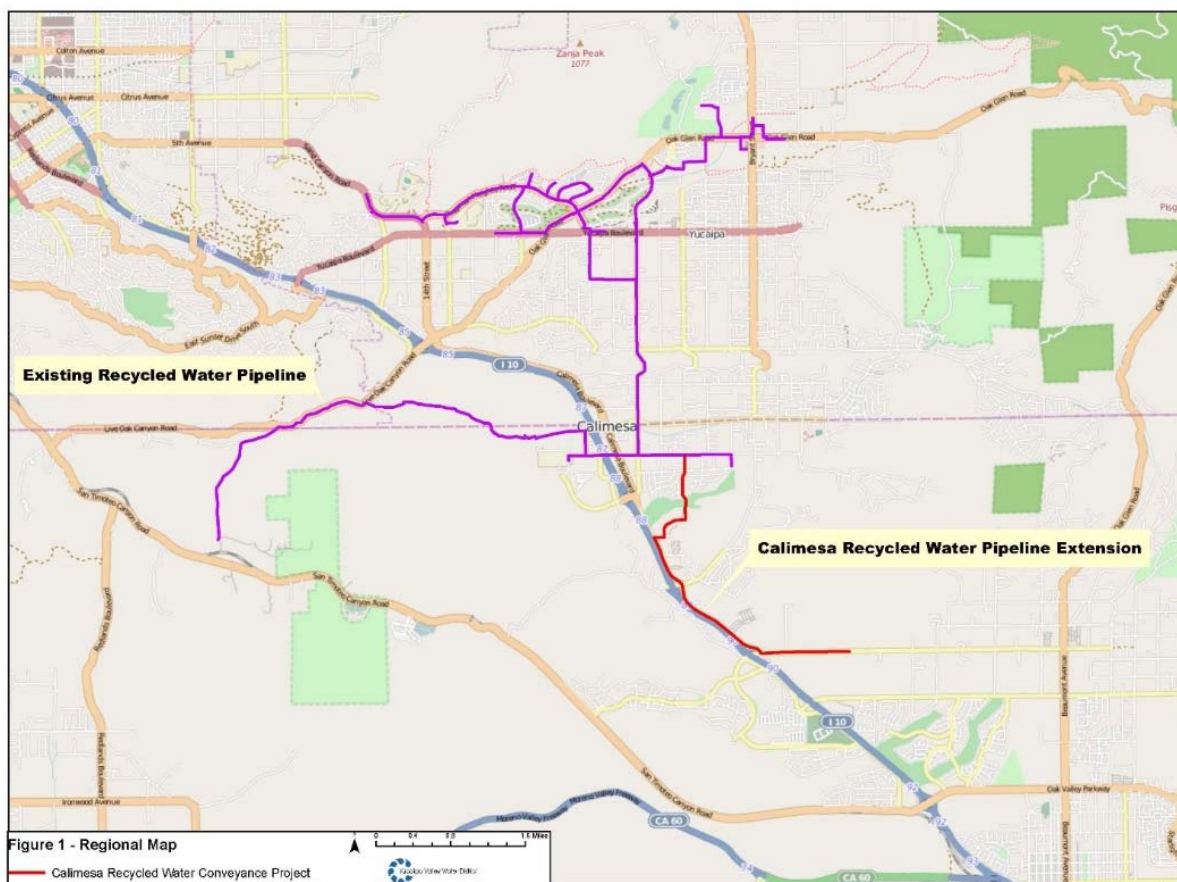
In the event that one of these conditions would require preparation of a subsequent EIR, but “only minor additions or changes would be necessary to make the [Final] EIR adequately apply to the project in the changed situation,” the YVWD could choose instead to issue a supplement to the Final EIR (CEQA Guidelines, § 15163, subd. (a)).

In the alternative, where the changes or new information will result in no new impacts, or no more severe impacts, than any that were disclosed in the Final EIR for the project, it is appropriate for the YVWD to prepare an addendum pursuant to CEQA Guideline, § 15164. That section states that an addendum should include a “brief explanation of the decision not to prepare a subsequent EIR pursuant to § 15162,” and that the explanation needs to be supported by substantial evidence (CEQA Guidelines, § 15164, subd. (e).) The addendum need not be circulated for public review, but may simply be attached to the Final EIR (Ibid.; CEQA Guideline, § 15164, subd. (c)).

Thus, in the following inquiry the YVWD considers under the standards articulated above whether each of these changed circumstances reveal or create previously-undisclosed significant environmental impacts or a substantial increase in the severity of previously disclosed impacts (CEQA Guidelines, §§15162, 15163, 15164, subd. (a); 15088.5, subds. [a], [b]). As the discussion demonstrates, it is appropriate for the YVWD to prepare this Addendum to the Final Environmental Impact Report/Environmental Impact Statement for the Regional Non-Potable Water Distribution System Project, pursuant to CEQA Guideline, § 15164.

### 3.0 PROJECT LOCATION

The project is located within the City of Calimesa and community of Cherry Valley, in Riverside County (Figure 1). The project would be located within developed areas in which the pipeline would be placed within existing roadways and one previously disturbed slope. The project site is surrounded by residential and commercial development, agricultural areas, and open space.



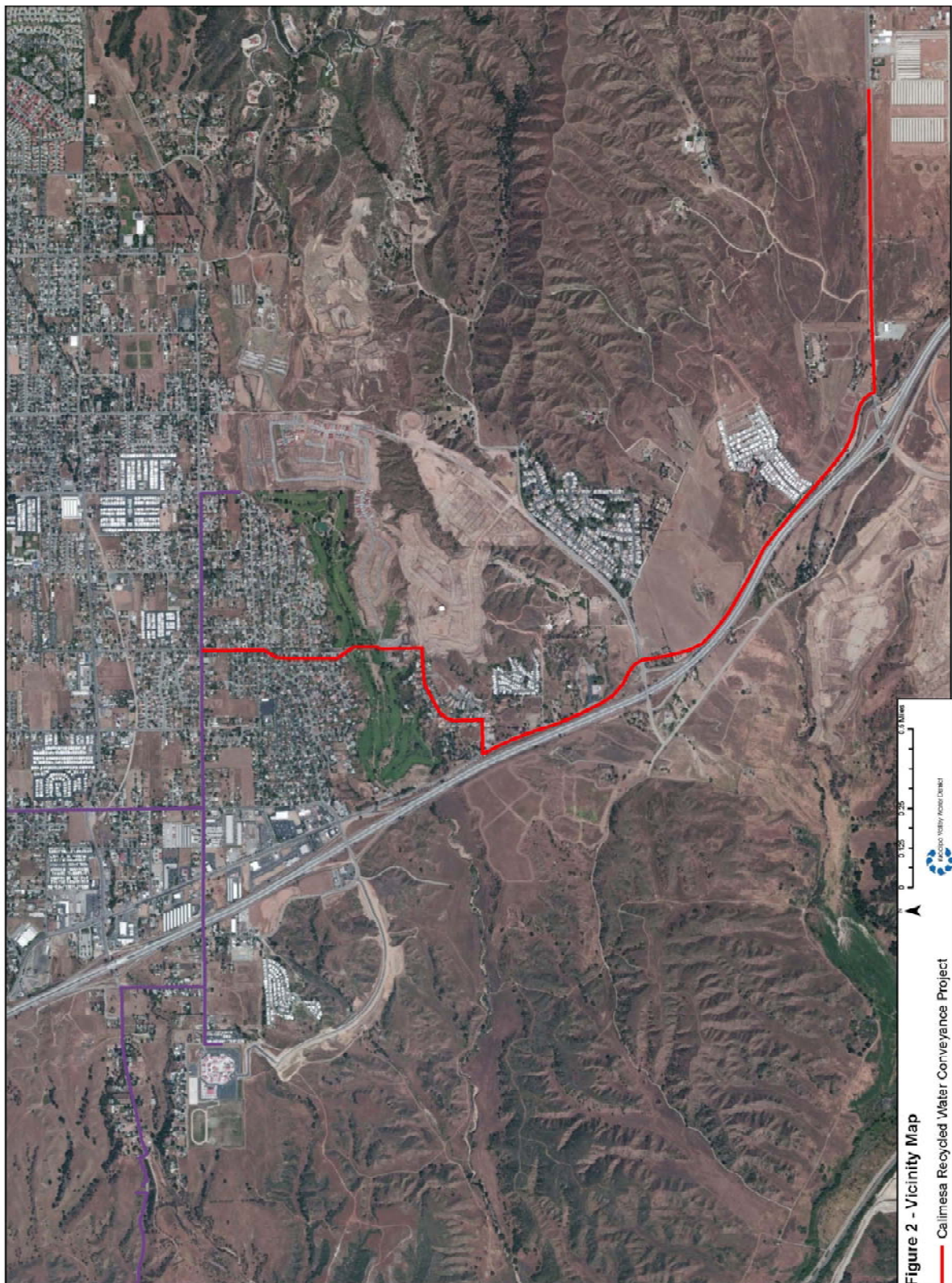
### 4.0 PROJECT DESCRIPTION

The proposed project would involve the construction of approximately 18,500 linear feet (3.5 miles) of 24" waterline to connect an existing YVWD waterline to an existing BCVWD waterline via a proposed BCVWD booster (hereafter referred to as "proposed project"). The intent of the proposed project is to deliver recycled water to the BCVWD to offset current water supply

shortages. The entire pipeline would be constructed within existing roadways and approximately 175 feet of disturbed slope. , All construction work, staging areas, and access routes would be confined to existing paved right-of-ways (ROWs). The proposed 24" pipeline alignment would extend south from an existing YVWD waterline for approximately 3,000 feet along 3rd Street, and would continue up a non-vegetated disturbed slope for approximately 162 feet. It would then turn west briefly for 2450 feet to Calimesa Boulevard for approximately 9,300 feet and continue along Cherry Valley Boulevard for approximately 5,500 feet, connecting with the BCVWD waterline. (Figure 2). Construction of the proposed project is anticipated to occur from approximately 2014 through 2014.

The proposed project represents a relatively minor increase in linear footage compared to the previously approved recycled water distribution alignment, and would not substantially change the environmental conditions from those analyzed in the EIR/EIS. All construction work, staging areas, and improvements would be located within the existing rights-of-way and any minor ground disturbance resulting from construction activities would be restored to pre-construction conditions as described in the EIR/EIS project description. Additionally, the proposed project would be subject to all project design features and mitigation measures identified in the EIR/EIS, as applicable.





## **5.0 IDENTIFICATION OF ENVIRONMENTAL EFFECTS**

The following environmental analysis provided in Section 6.0 supports a determination that approval and implementation of this project would not result in any additional significant environmental effects beyond those previously analyzed under the EIR/EIS for the Regional Non-Potable Water Distribution System Project.

## **6.0 ANALYSIS**

### **Land Use**

Impacts to land use are addressed in Chapter 4.0 of the EIR/EIS. The proposed project would not result in any land use, planning, or zoning impacts, as the proposed project would be consistent with the City of Calimesa General Plan and community of Cherry Valley existing land uses. The primary land use types within the City of Calimesa include residential and vacant land. Some manufacturing is present east of I-10, north of Avenue L and west of 5<sup>th</sup> Street. Residential land uses are located along County Line Road, 7<sup>th</sup> Place, and Avenue L. The Villa Calimesa Mobile Home Park is located southwest of Avenue L and 7<sup>th</sup> Place. Residential uses border the southernmost portion of Singleton Road; the areas bordering north Singleton Road are vacant. Land uses in the southwestern portion of the project vicinity include vacant land and agricultural land uses. Farmland of Local Importance is designated west of the mobile home park on Avenue L. Grazing Lands are identified on both the north and south side of Avenue L.

The proposed project alignment would extend approximately 3.5 miles south of Avenue L from its intersection at 3rd Street. Existing land uses immediately adjacent to the proposed project include a mix of Downtown Business District Zones, Residential Low (RL), Residential Low Medium (RLM), Residential High (RH), Commercial Neighborhood (CN), Commercial Community (CC), Commercial Regional (CR), Office-Professional (OP), Light Industrial (LI), and Open Space (OS). Additionally, Specific Plan Area 1 and Specific Plan Area 2 land uses occur on the western side of I-10 and the proposed project alignment (City of Calimesa 2010).

No change in land uses would be proposed as a result of project implementation, nor would a General Plan amendment be required. All construction for the pipeline alignment would be located within existing roadways and one unvegetated disturbed slope, and upon completion of construction, pipelines would be located underground; therefore, no homes or businesses would be displaced. Access to residences and businesses may be temporarily blocked during construction; however, construction activities would be short-term in nature and therefore would not cause a long-term impact to surrounding lands uses and permanent residents.

Recreational resources in the City of Calimesa include proposed trails along Singleton Road connecting the City with the Cherry Valley area. As analyzed in the EIR/EIS, where the pipeline crosses bike paths, multi-use trails and entrances to parks, access and throughways may be temporarily blocked during construction. Intersections of construction zones and recreational trails would be a safety concern due to the presence of open trenches and large construction equipment and vehicles. Temporary conflicts to an established recreational use during construction were considered a significant impact and therefore mitigation measures were provided in the EIR/EIS. The proposed project would be subject to these measures as well. Mitigation measures provided in Chapter 4.0 of the EIR/EIS include L-1: metal coverings for exposed trenches and flagmen at trail crossings to ensure public safety, and L-2: coordination with relevant Public Works Departments particularly during construction to avoid conflicts with planned City improvement projects. The project would also involve coordination with Caltrans to avoid conflicts. Upon completion of construction, all areas would be restored to pre-construction conditions.

Following project construction, no significant impacts to recreational resources, agricultural lands, or future proposed land uses would result. As no disruption to local residents and businesses would occur, and given that the proposed project would not require a change in land use, no additional land use impacts beyond those previously analyzed in the EIR/EIS would result. All improvements would be subject to mitigation provided in Chapter 4.0 of the EIR/EIS. Impacts to land use would remain less than significant.

### **Visual Resources**

Impacts to visual resources are addressed in Chapter 5.0 of the EIR/EIS. As previously analyzed, the pipelines would be placed in existing roadways; therefore, no long-term impacts to visual resources would occur. Pipeline construction would have short-term impacts; however, due to the temporary nature of construction activities and presence of construction equipment, impacts to visual resources due to construction are considered less than significant. The proposed project would not result in any new impacts to visual resources that were not identified in the EIR/EIS. As the aesthetic nature of the area surrounding the proposed project would be maintained following construction, significant impacts to scenic vistas or resources would not occur.

### **Biological Resources**

Impacts to biological resources are addressed in Chapter 7.0 of the EIR/EIS. A biological resources report was conducted by Dudek for the proposed project, and is included as Appendix A of this Addendum (Dudek 2011a). The biological resources report indicates that direct impacts to biological resources due to pipeline construction are considered to be temporary and would be



restored to pre-existing conditions following construction. Additionally, the proposed project would be located primarily within existing paved roadways and disturbed/developed lands where direct impacts to native plant communities would not occur. Indirect impacts result primarily from adverse “edge effects,” and may be short-term in nature, related to construction, or long-term in nature, associated with development in proximity to biological resources within natural open space. During construction activities, short-term indirect impacts may include dust, which could disrupt plant vitality, construction-related soil erosion and water runoff; and noise and lighting, which may disrupt wildlife. It is assumed, however, that standard construction Best Management Practices (BMPs) and minimization measures to control construction-related dust, erosion, and runoff will be implemented and will ameliorate these effects. All project construction will be subject to the typical restrictions and requirements that address erosion and runoff, including the federal Clean Water Act, National Pollution Discharge Elimination System (NPDES), and preparation of a Stormwater Pollution Prevention Plan.

All improvements would be subject to mitigation provided in Chapter 7.0 of the EIR/EIS. Specifically, potential indirect impacts to coastal California gnatcatcher (*Polioptila californica californica*), a federally-listed threatened species, that could occur adjacent to the proposed project due to construction-related noise would be avoided by restricting construction activities during the breeding season (February 15 through August 31) where suitable habitat areas are located within 500 feet. If construction adjacent to suitable habitat areas cannot be avoided during the breeding season, focused surveys would be required prior to construction to determine if adjacent habitat is occupied. If construction adjacent to occupied habitat during the breeding season is proposed, potential indirect impacts would be avoided by implementing noise attenuation measures to ensure that noise levels within 500 feet of occupied habitat do not exceed an hourly average of 60 dBA. Impacts to biological resources would remain less than significant.

## **Cultural Resources**

Impacts to cultural resources are addressed in Chapter 8.0 of the EIR/EIS. A records search and cultural resources survey was conducted by ASM & Affiliates for the proposed project, and is included as Appendix B of this Addendum (ASM 2011). The records search indicated that no previously recorded resources have been documented within the area of potential effect (APE) (the APE encompasses a 30-foot wide corridor centered on the proposed project alignment). In addition, no unpaved areas requiring survey exist within the proposed project alignment, so no additional previously undiscovered resources were recorded. Lastly, mitigation provided in Chapter 8.0 of the EIR/EIS is site-specific and is not applicable to the APE for this project. As such, the proposed project would not have any impacts to known cultural resources.

## **Geology and Paleontology**

Impacts regarding geologic hazards and paleontological resources are addressed in Chapter 9.0 of the EIR/EIS. As indicated in the EIR/EIS, all components of the project within the City of Calimesa are located within a County Fault Zone, while none are located in an A-P Earthquake Fault Zone. Location of a pipeline across a fault would subject the project to potentially hazardous earthquake-induced movement. As proposed in the EIR/EIS, a detailed geotechnical investigation will be conducted in order to determine the specific underlying geologic conditions along the project alignment. This will provide the engineering staff with data from which to design the foundations and components of the pipelines and associated project components. The project would be designed to withstand seismically induced ground movement, liquefaction and subsidence. Given that the proposed project would be subject to this EIR/EIS project design feature, potential impacts associated with fault movement would be less than significant.

Additionally, as stated in the EIR/EIS, an erosion control plan will be implemented during the construction phase of the project. This plan will delineate potentially erosive areas and/or materials and provide a plan for containment. Construction areas will be kept free of debris and organized such that small-scale erosion from site drainage would not occur. Given that the proposed project would be subject to this project design feature, impacts associated with erosion would be less than significant.

Regarding paleontological resources, project design features have been incorporated into the project as delineated in the EIR/EIS to reduce impacts to paleontological resources. Design features would include a paleontological monitoring program that would be developed during the design phase of the project and implemented during pipeline construction. This plan will identify areas of high paleontological sensitivity for pipeline alignments and surface facility sites, and will define procedures for evaluation of resources found during construction. The plan will define procedures that would be taken should a potential resource be discovered, the type of recovery effort that could result and the data monitoring and reporting program that would ensue.

As the proposed project would not significantly increase alignment linear footage requiring earth moving activities and excavation, and project design features have been incorporated into the project to reduce all impacts to geology and paleontological resources to a level below significance, no new significant impacts beyond those previously identified would occur. Therefore, implementation of the proposed project would not require additional analysis beyond that which is presented in Chapter 9.0 of the EIR/EIS.

## Hydrology and Water Quality

Impacts to hydrology and water quality are addressed in Chapter 10.0 of the EIR/EIS. As indicated in the EIR/EIS, the Distribution System would result in the discharge of 1.6 mgd of water blended from various sources (the Yucaipa Groundwater Basin, recycled water and state project water) to San Timoteo Creek. Thus, the proposed Regional Non-Potable Water Distribution System Project would not result in a reduction in groundwater within the San Timoteo Creek study area. Similarly, the proposed project would not reduce groundwater reserves in the San Timoteo Creek study area as the alignment would not affect discharge volumes generated by the overall Distribution System. As the proposed project would not affect outfall discharges, a volume of at least 1.6 mgd would be maintained for contribution to San Timoteo Creek following proposed project implementation.

Construction of the proposed recycled water distribution system, including the proposed project, would require the use of a variety of motorized heavy equipment including: dozers, forklifts, concrete trucks, backhoes, air compressors, graders, fuel trucks, cranes and drill rigs. This equipment requires job site replenishment of hazardous chemicals in the form of fuels, oils, grease, coolants, and other fluids. The accidental spill of these or other construction-related materials could lead to the discharge of contaminants into existing surface waters crossed by the Distribution System. Conveyance of contaminants could take place directly at the time of the spill. Alternatively, the contaminants could be held in place until a runoff event delivered them to a watercourse later or they could infiltrate into the soil and groundwater below. With implementation of project design features (erosion control measures, buffer zones, hazardous chemical restrictions within 50 feet of a stream channel, and compliance with a Storm Water Pollution Prevention Plan (SWPPP) as described in the EIR/EIS, the potential for chemical spill affecting a stream channel, wetland area, or groundwater reserve is considered a less than significant impact.

Construction activities for the proposed recycled water distribution system, including the proposed project, would include scraping, excavating, grading, backfilling, excess soil disposal, and topsoil handling and replacement. These types of construction activities could generate sediments and erosion. The potential for excavated spoils to enter the surface water drainage network is greatest near creek crossings and wetlands. Through implementation of project design features outlined in the EIR/EIS, the potential for construction-related sediment and excavated spoils to enter the surface water drainage network is less than significant.

As previously analyzed in the EIR/EIS, operations and maintenance of the proposed project would primarily entail periodic ground checks of pipelines and associated project components and would have no identifiable effect to either surface water or groundwater quality or quantity. No above-ground structures would be in the 100-year floodplain, however subterranean pipelines associated with the proposed project would traverse areas designated Zone A and Zone X within

a 100-year floodplain (FEMA 2008). The floodplain area is small in scale relative to the overall alignment, and is located directly south of the intersection of 5<sup>th</sup> Street and Calimesa Boulevard at the northern end of the proposed alignment. As all improvements would be placed entirely underground, no impacts to project components due to flood hazards would occur.

Operation of the recycled water distribution system, including the proposed project, includes the use of recycled water for irrigation purposes. Commitments described in the EIR/EIS, including limitations on TDS and total inorganic nitrogen levels for the tertiary-treated effluent, a surface water quality monitoring program, a groundwater quality monitoring program, a wastewater management plan, commitments to limiting the TDS and total inorganic nitrogen levels in the tertiary-treated effluent, commitments to construct and operate a groundwater desalter and brine disposal line and a salt management program, would ensure that the maximum benefit water quality objectives for the Yucaipa, Beaumont or San Timoteo Groundwater Management Zones are not exceeded.

As the proposed project would not result in an increase in impervious surface area and all proposed improvements would be located underground within existing right-of-way, runoff discharges and drainage facilities would not differ significantly from those previously analyzed. The proposed project would continue to comply with all applicable rules and regulations including compliance with NPDES permit requirements for urban runoff and storm water discharge. BMPs for design, implementation of a SWPPP, and treatment and monitoring for storm water quality would be implemented as delineated in the EIR/EIS. Compliance with all application rules and regulations governing water quality as well as implementation of all project design features outlined in Chapter 10.0 of the EIR/EIS would ensure no additional impacts to water quality beyond those previously analyzed would occur.

## **Transportation and Traffic**

Impacts to traffic are addressed in Chapter 11.0 of the EIR/EIS. Project construction within affected roadways would consist of excavation, laying of pipeline, and restoration of damaged roadways. The construction corridor is estimated to be 30-feet wide; therefore, temporary road and lane closures may occur in order to construct the proposed project. Mitigation measure T-1 as delineated in the EIR/EIS which restricts lane and road closures to off-peak hours would reduce this impact to a less than significant level. No road closures or lane closures would be required during routine maintenance and operation activities. No impacts associated with road or lane closures would occur post-construction.

It is expected that construction-related to traffic would not create a substantial impact on traffic volumes nor change traffic patterns in such a way that congestion and delay would substantially increase on street segments or at intersections. For example, project-related construction traffic

is not anticipated to affect the level of service (LOS) or vehicle to congestion ratio on study area roadways. EIR/EIS mitigation measure T-2, which requires implementation of a traffic control plan, would reduce impacts to a less than significant level.

Construction of the proposed project would directly impact roadways. Installation of the pipeline would require trenching within the existing roadbed. Upon completion of construction, the roadway would be restored to existing conditions. No permanent damage to roadways or sidewalks would occur as a result of construction. During routine maintenance and operation, permanent damage to roadways or sidewalks is not anticipated and no impacts associated with damage to roadways or sidewalks would occur post-construction.

Access to driveways of residences, commercial and professional offices, and entrances to agricultural lands may be temporarily blocked by construction zones. Parking along affected roadways may also be temporarily blocked by construction vehicles and equipment. Access during routine maintenance and operation activities may also limit access. Impacts to access are considered potentially significant in the EIR/EIS; therefore, mitigation measures T-3 (written notification to all property owners) and T-4 (construction scheduling to allow at least one access point at all times) would be implemented to reduce impacts to a less than significant level. Therefore, no new significant impacts would occur beyond what is analyzed in the EIR/EIS.

## **Air Quality**

Impacts to air quality are addressed in Chapter 12.0 of the EIR/EIS. The proposed project would not result in an increase in traffic volumes, and thus would not substantially change traffic generation or distribution patterns generating air pollutants. Construction-related activities would result in short-term dust and equipment exhaust emissions; however, these construction activities would not result in any substantial change in air emissions from what was assumed in the impact analysis of the EIR/EIS, as the same methods of construction, equipment and similar construction traffic patterns would be employed. Peak daily construction estimates for project development as discussed in Chapter 12.0 of the EIR/EIS indicate that none of the thresholds of significance as established by the South Coast Air Quality Management District (SCAQMD) would be exceeded during construction of the proposed project. Therefore, air quality impacts associated with construction of the proposed project are considered less than significant. Additionally, construction of the proposed project would not take place concurrently with other phases of Distribution System development such that air emissions beyond those previously analyzed would exceed established thresholds. Additionally, as the proposed project would result in a relatively minimal increase in linear square footage, emissions associated with project implementation would continue to remain at a level below significant. Once operational, estimated project emissions would be considerably less than the SCAQMD thresholds, as no increase in traffic or pipeline-related operational emissions would occur beyond minimal routine maintenance

inspections. As a result, no new air quality impacts beyond those identified in the EIR/EIS would occur.

### **Noise**

Impacts to noise are addressed in Chapter 13.0 of the EIR/EIS. As stated in the EIR/EIS, construction activities and resulting short-term noise levels would comply with the City of Calimesa Noise Ordinance for allowable hours for construction activities and therefore would not expose persons to noise levels in excess of applicable noise standards. The proposed project would not change any of the assumptions used as the basis for the noise analysis in Chapter 13.0 of the EIR/EIS, as the proposed modifications would not represent a substantial change to overall system construction, and identical construction methods would be employed. No new sensitive receptors or increases in construction-generated noise impacts beyond what is evaluated in the EIR/EIS would be generated by the proposed project. Mitigation measure N-1 as delineated in the EIR/EIS would reduce any potential impacts associated with the proposed booster pump to a less than significant level. As a result, no new or increased levels of noise impacts beyond those identified in the EIR/EIS would occur with implementation of the proposed project.

### **Public Health and Safety**

Impacts regarding public health and safety are addressed in Chapter 14.0 of the EIR/EIS. A hazardous site record report was conducted by Dudek for the proposed project, and is included as Appendix C of this Addendum (Dudek 2011b). The report indicates that it is unlikely that any of the recorded sites in the project vicinity have impacted the environmental conditions along the proposed project alignment. However, it is advisable to take precautions against encounters with fuel-impacted soils. Mitigation measures PH-1, PH-2, and PH-3 as delineated in the EIR/EIS would reduce any potential impacts to a less than significant level. As a result, no new or increased levels of public health and safety impacts beyond those identified in the EIR/EIS would occur with implementation of the proposed project.

### **Greenhouse Gases**

Impacts to greenhouse gases were not addressed in the EIR/EIS. The proposed project would result in construction-generated greenhouse gas (GHG) emissions associated with construction equipment and worker vehicle trips. Construction is expected to take approximately 12 months and therefore would be a temporary source of GHG emissions. Once operational, long-term emissions associated with travel to and from the project site for regular maintenance and

inspection would be minimal, as maintenance would not require a substantial amount of vehicle trips that would generate significant greenhouse gas emissions.

The project would not increase the severity of previously identified air quality impacts, nor would it result in any new significant effects related to air emission that were not previously identified in the EIR/EIS. Additionally, in light of the wide range of global warming activity prior to the certification of the EIR/EIS in 2006, there are no substantial changes to the circumstances under which the project will be undertaken, and no new information of substantial importance which was not known and could not have been known when the EIR/EIS was certified has since been identified. Impacts resulting from emissions of greenhouse gases would therefore be less than significant.

## **7.0 CONCLUSION**

This document has identified all changed circumstances and new information and memorializes in detail the District's reasoned conclusion that none of these changes create the conditions requiring the preparation of a Subsequent or Supplemental EIR/EIS pursuant to CEQA Guidelines, Sections 15162 and 15163.

Pursuant to Section 15164 of the State CEQA Guidelines and based upon the above discussion, I hereby find that approval and implementation of the proposed project will result in only minor technical changes or additions, which are necessary to make the FEIR/EIS adequate under CEQA.

---

Jennifer Ares, Water Resource Manager

---

Date



## REFERENCES

- ASM (ASM & Affiliates). 2011. Records Searches and Survey Results for the Beaumont Cherry Valley Recycled Waterline Project, Riverside County, California. April 30.
- City of Calimesa. 2010. General Plan Land Use Map. August. Accessed July 7, 2011 at: <http://www.cityofcalimesa.net/Forms/Calimesa%20Land%20Use%20Plan%20-%208.5x11.pdf>
- Dudek. 2011a. Biological Resources Letter Report, Beaumont-Cherry Valley Non-Potable Water Pipeline Extension, Riverside County, California. August.
- Dudek. 2011b. Memorandum: Regulatory Environmental Records Search for the Beaumont Cherry Valley Proposed Recycled Waterline. April 13.
- FEMA (Federal Emergency Management Agency). 2008. Flood Insurance Rate Maps – Riverside County. Accessed on July 8, 2011 at: <http://msc.fema.gov/webapp/wcs/stores/servlet/FemaWelcomeView?storeId=10001&catalogId=10001&langId=-1>
- YVWD and EPA (Yucaipa Valley Water District and U.S. Environmental Protection Agency). 2006. Final Environmental Impact Report/Environmental Impact Statement for the Regional Non-Potable Water Distribution System Project. SCH #2003091108. Prepared by Dudek. March



**DUDEK**

December 28, 2015

3163-31

Jennifer Ares  
Yucaipa Valley Water District  
12770 Second Street  
Yucaipa, California 92399

***Subject: Cultural Resources Records Search for the Beaumont-Cherry Valley  
Recycled Water Pipeline Extension, Riverside County, California***

Dear Ms. Ares

This letter documents a recently completed records search Dudek conducted at the Eastern Information Center (EIC) for the Beaumont-Cherry Valley Recycled Water Pipeline Extension. This records search was performed in order to update the prior records search and pedestrian survey performed by ASM Affiliates, Inc. for the project in 2011. The current study did not identify any substantial changes to the project area, and concurs with the original recommendations provided by ASM.

**PROJECT DESCRIPTION**

The Yucaipa Valley Water District (YVWD) is proposing to construct an extension to the YVWD Regional Non-Potable Water Distribution System. This extension would involve the construction of approximately 18,500 linear feet (3.5 miles) of 24" waterline to connect an existing YVWD waterline to an existing Beaumont-Cherry Valley Water District (BCVWD) waterline via a proposed BCVWD booster. The intent of this project is to deliver non-potable water to the BCVWD. The entire pipeline would be constructed within existing roadways, and all construction work, staging areas, and access routes would be confined to existing paved right-of-ways (ROWs) and disturbed/developed areas. The proposed 24" pipeline alignment would extend south from an existing YVWD waterline for approximately 3,000 feet along 3rd Street, and would continue up a non-vegetated slope for approximately 162 feet. It would then turn west for 2,450 feet to Calimesa Boulevard for approximately 9,300 feet and continue along Cherry Valley Boulevard for approximately 5,500 feet, connecting with the BCVWD waterline at the proposed booster. The project is located on the El Casco, California USGS quadrangle, in Townships 2 South, Range 1 West, Section 30; and Township 2 South, Range 2 West, Sections 14, 23, and 24.

*Mr. or Ms. Jennifer Ares*

*Subject: Cultural Resources Records Search for the Beaumont-Cherry Valley Recycled Water Pipeline Extension, Riverside County, California*

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## **Previous Study**

In 2011 ASM (Andrews 2011) performed a records search for the project alignment (30 foot wide corridor) and a 1/2 mile buffer around the alignment. The 30 foot corridor represents the area of potential effect (APE) for the project. The search identified one cultural resource, CA-RIV-7923, immediately adjacent to the APE. This resource is a historic period automobile service facility and residential development, which is no longer extant, located along the eastern side of Calimesa Boulevard. Remnants of the resource include concrete slabs, a service pit, water tower, and part of a shed. This resource was evaluated in 2005 and determined to be ineligible for listing in the National Register of Historic Places (NRHP). ASM's survey in 2011 found the site to be in the same general condition as in 2005. No new resources were identified by ASM during the pedestrian survey. The site is located outside the 30 foot APE for the project and will not be impacted.

As the APE is contained within paved roads, no areas of natural ground surface were visible during the survey. Therefore, ASM recommended having archaeological monitors present during ground disturbing activities during project construction, in case any unknown cultural resources obscured by the road are made.

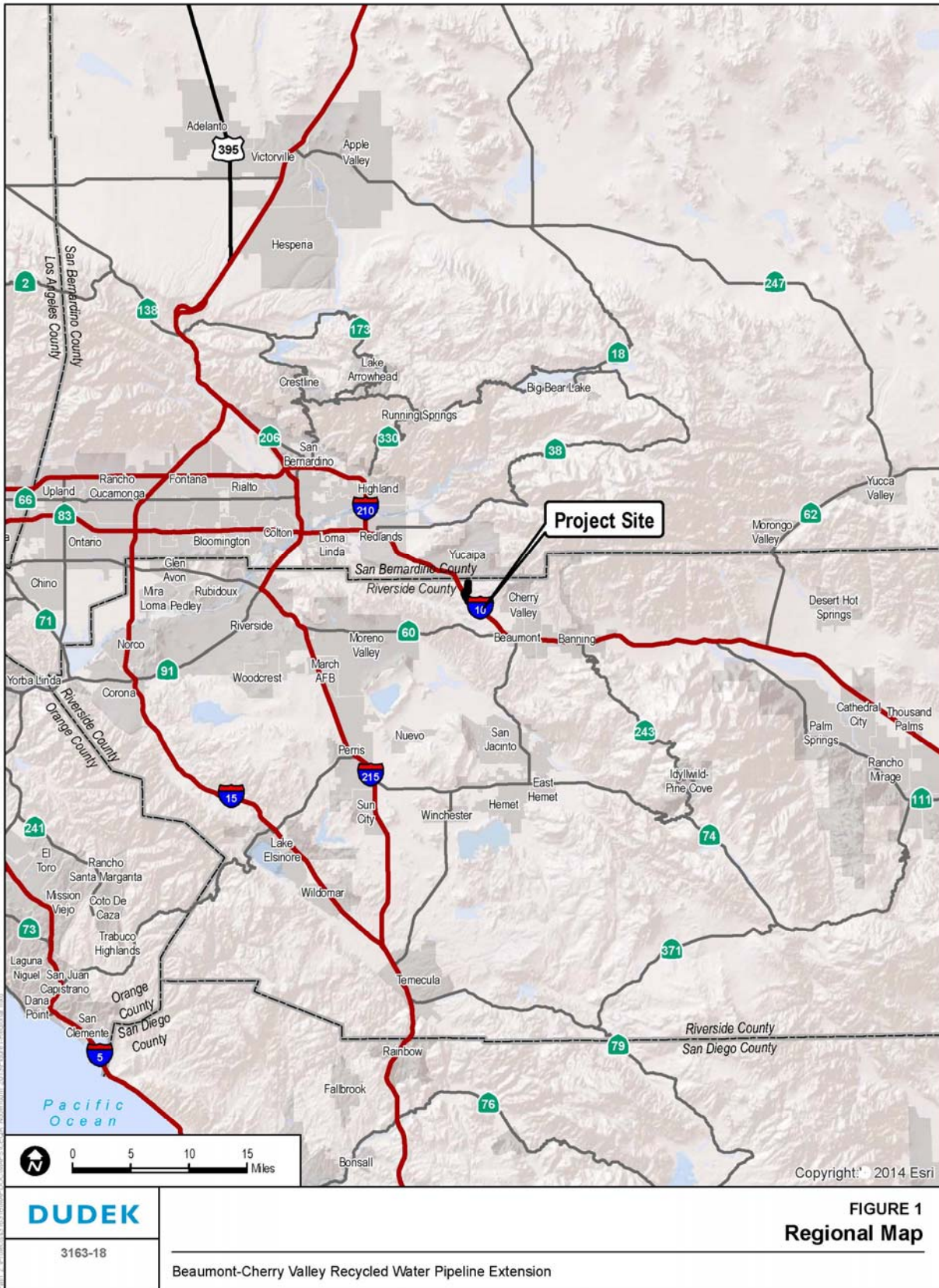
## **Updated Records Search**

Staff at the EIC performed an updated records search for the project APE in December 2015. The search identified nine previous studies that covered a portion of the APE, not including ASM's study (Table 1) and four regional overview studies. Each of the nine studies in the APE covered a small portion of the project, predominantly the southern end of the pipeline. Of the nine studies, only one was performed subsequent to the ASM study in 2011. As with most of the nine studies, the Stropes and Smith study in 2013 only covered a segment of Cherry Valley Boulevard.

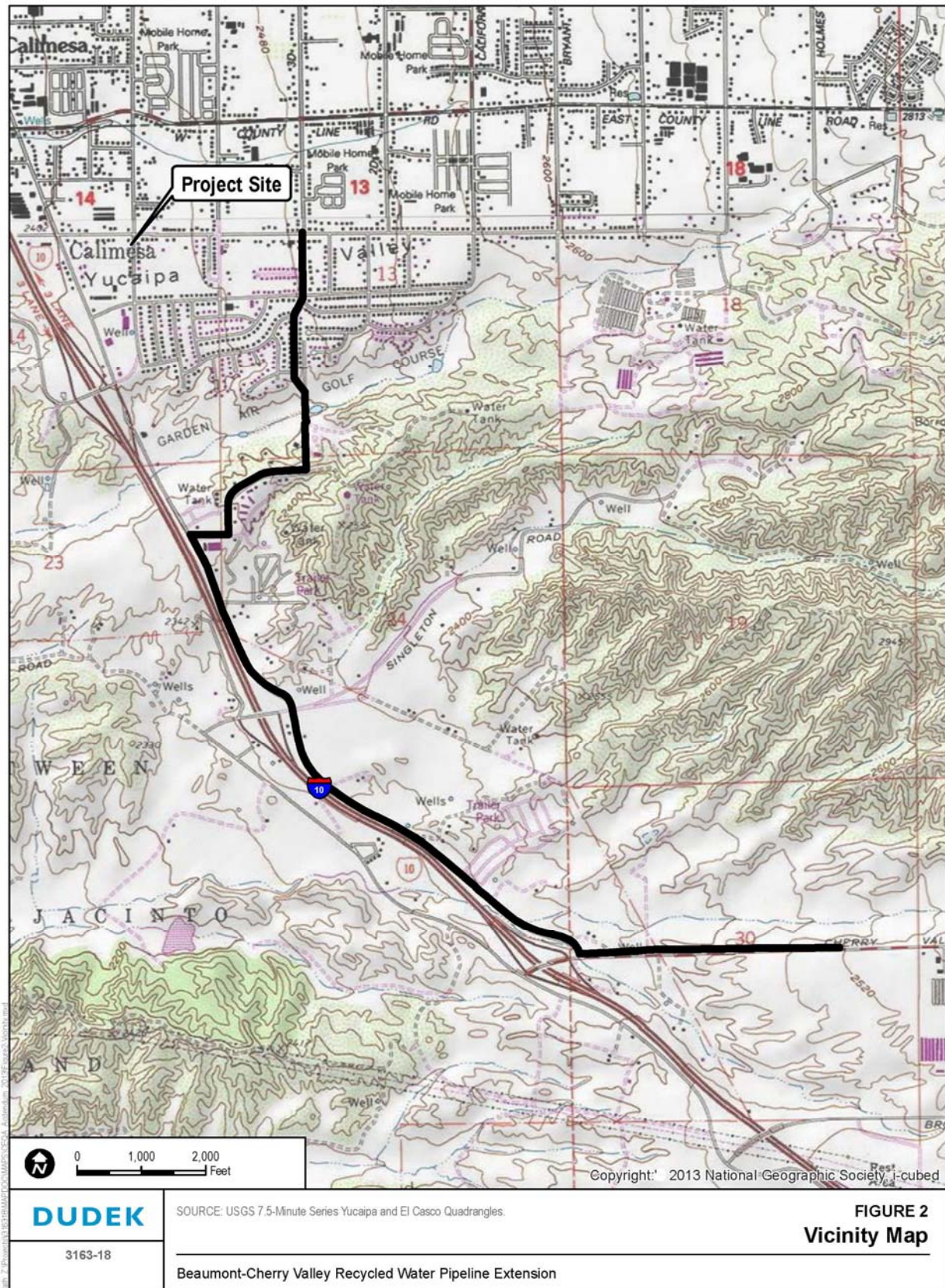
The search identified CA-RIV-7923 in the same general area as previously reported, although the mapped location is shifted slightly to the east, within Calimesa Boulevard. The entirety of the site is located west of the APE, as confirmed by topographic maps and aerial photos which depict the foundations/structures between the freeway off-ramp and Calimesa Boulevard.

The records search also consulted the National Register of Historic Places (NRHP), the Office of Historic Preservation (OHP) Archaeological Determinations of Eligibility List (ADOE), the OHP Directories of Properties in the Historic Property Data File (HPD), and historic maps. One resource, P-33-9476 was listed in the HDP as not evaluated for the NRHP; however the EIC does

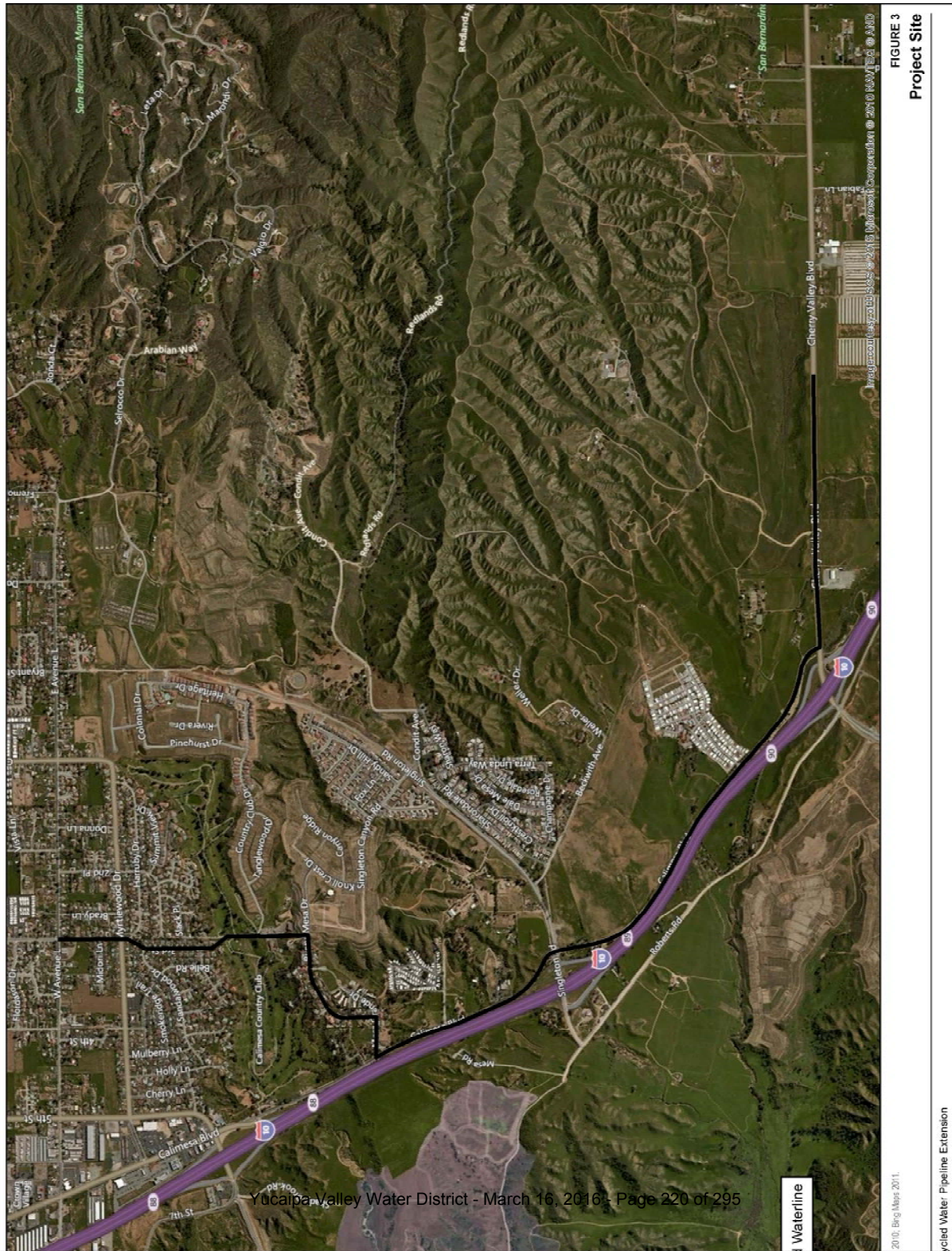












**APPENDIX A**  
*Confidential Records Search*

**EASTERN INFORMATION CENTER**  
CALIFORNIA HISTORICAL RESOURCES INFORMATION SYSTEM  
Department of Anthropology, University of California, Riverside, CA 92521-0418  
(951) 827-5745 - Fax (951) 827-5409 - eickw@ucr.edu  
Inyo, Mono, and Riverside Counties

CHRIS Access and Use Agreement No.: 10  
EIC-RIV-ST-3398  
December 16, 2015

Brad Comeau  
Dudek  
605 Third Street  
Encinitas, CA 92024

Re: Cultural Resources Records Search for the Yucaipa BVC Pipeline

Dear Mr. Comeau,

We received your request on December 18, 2015, for a cultural resources records search for the Yucaipa BVC Pipeline project located in the El Casco area in Riverside County. We have reviewed our site records, maps, and manuscripts against the location map you provided.

Our records indicate that nine cultural resources studies have been conducted within your project area. Nine of these studies involved the project area. Four additional studies provide overviews of cultural resources in the general project vicinity. All of these reports are listed on the attachment entitled "Eastern Information Center Report Listing" and are available upon request at 15¢/page plus \$40/hour for hard copies, or 15¢/page plus \$40/hour and a \$25 flat fee for PDFs.

Our records indicate that one cultural resource properties have been recorded within your project area. One of these properties involved the project area. A PDF copy of the record is included for your reference. All of these resources are listed on the attachment entitled "Eastern Information Center Resource Listing".

The above information is reflected on the enclosed maps. Areas that have been surveyed are highlighted in yellow. Numbers marked in blue ink refer to the report number (RI#). Cultural resources properties are marked in red, numbers in black refer Trinomial designations, those in green to Primary number designations. National register properties are indicated in light blue.

Additional sources of information consulted are identified below.

National Register of Historic Places: no listed properties are located within the boundaries of the project area.



Office of Historic Preservation (OHP), Archaeological Determinations of Eligibility (ADOE); no listed properties are located within the boundaries of the project area.

Office of Historic Preservation (OHP), Directory of Properties in the Historic Property Data File (HPD): One property 33-9476 is listed and is not evaluated for inclusion on the National Register of Historic Places. However, the Eastern Information Center does not know exactly where 33-9476 is located on our map. The Eastern Information Center never received a map with the exact location from the company who searched this resource. The applicable portion of this directory is enclosed for your study needs.

*Note: not all properties in the California Historical Resources Information System are listed in the OHP ADOE and HPD; the ADOE and HPD comprise lists of properties submitted to the OHP for review.*

Copies of the relevant portions of the 1901 USGS Elsinore 30' and 1943 USGS Perris 15' topographic maps are included for your reference.

As the Information Center for Riverside County, it is necessary that we receive a copy of all cultural resources reports and site information pertaining to this county in order to maintain our map and manuscript files. Confidential information provided with this records search regarding the location of cultural resources outside the boundaries of your project area should not be included in reports addressing the project area.

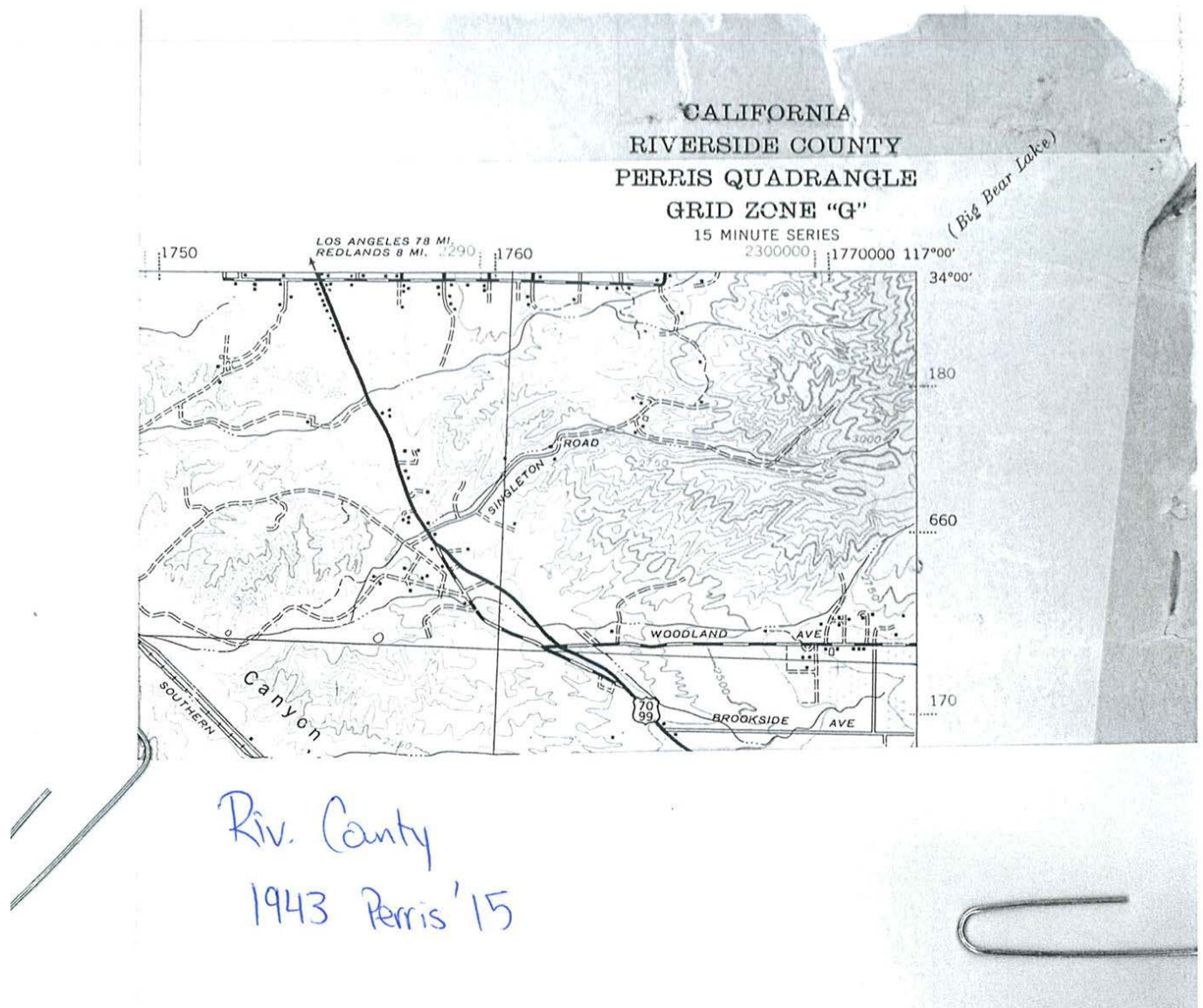
Sincerely,

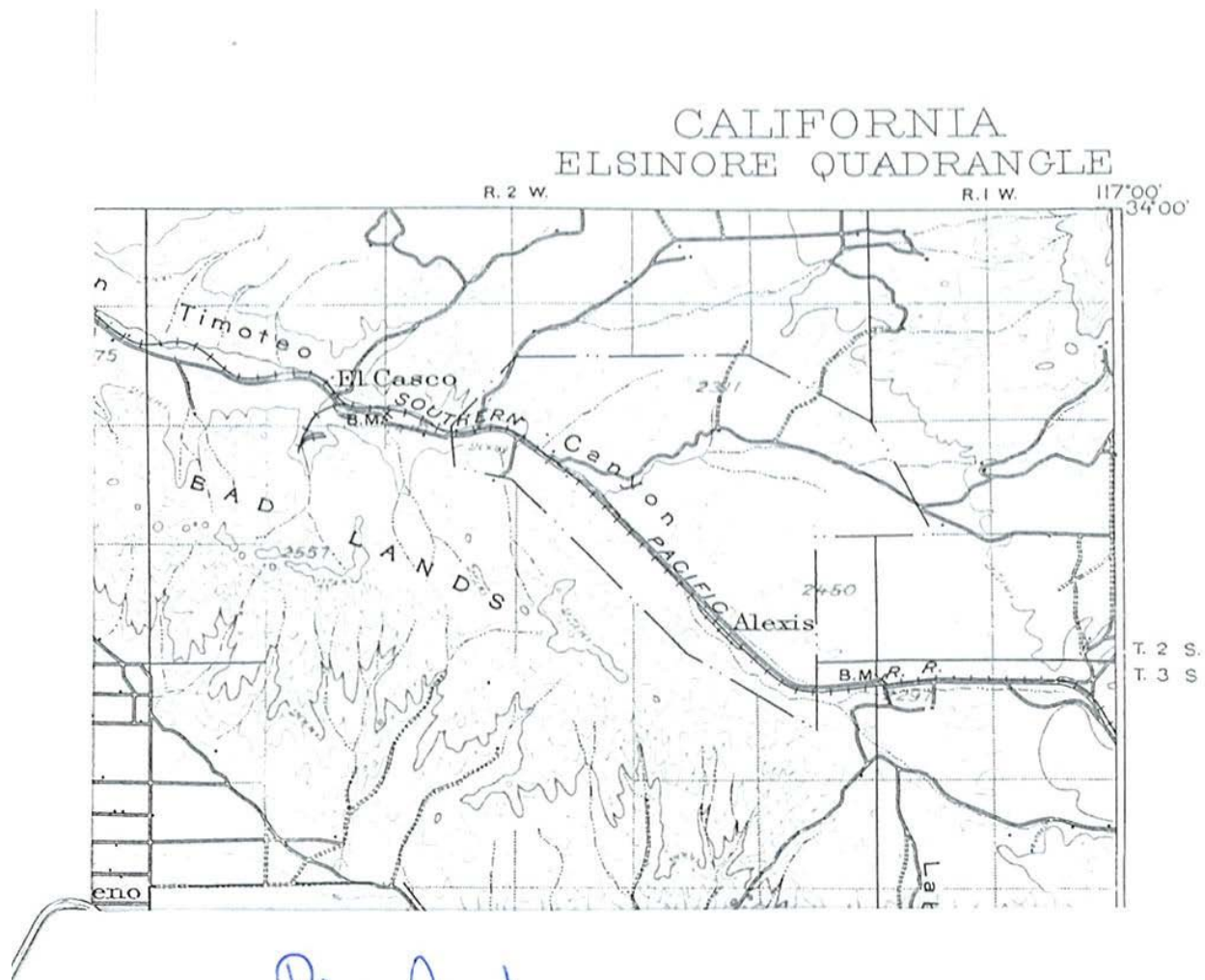


Jose Jimenez  
Information Officer

Enclosures





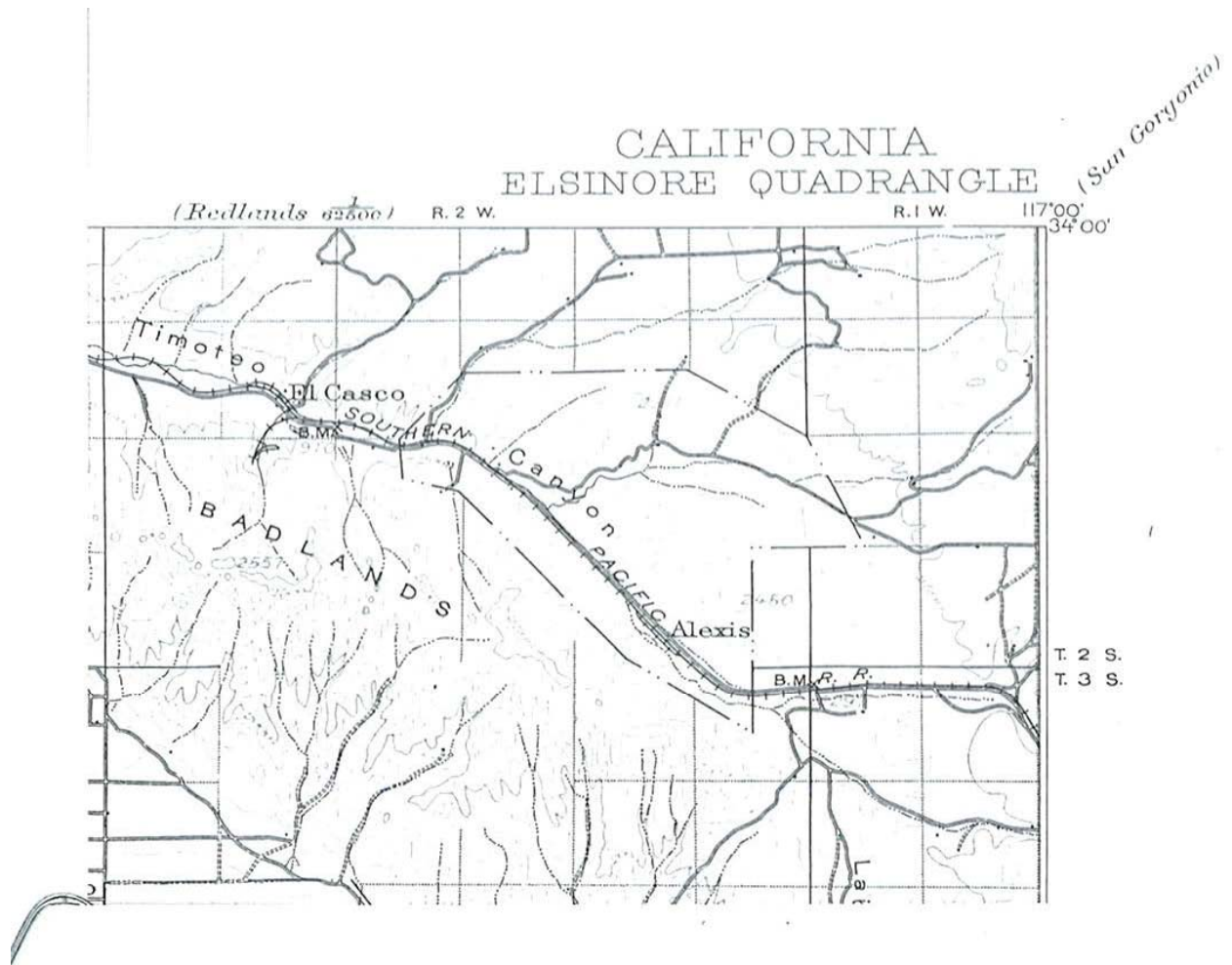


Riv. Conty

~~1901~~ Edition of Feb. 1901

Reprinted 1948

Elsinore 30'



Riv. County  
Edition of Feb. 1901  
Elsinore 30'

**Resource List**

| Primary No. | Trinomial     | Other IDs | Type | Age      | Attribute codes | Recorded by                                   | Reports |
|-------------|---------------|-----------|------|----------|-----------------|---|---------|
| P-33-014869 | CA-RIV-007924 |           |      | Historic |                 | 2005 (Goodwin, Riordan, LSA Associates, Inc.) |         |



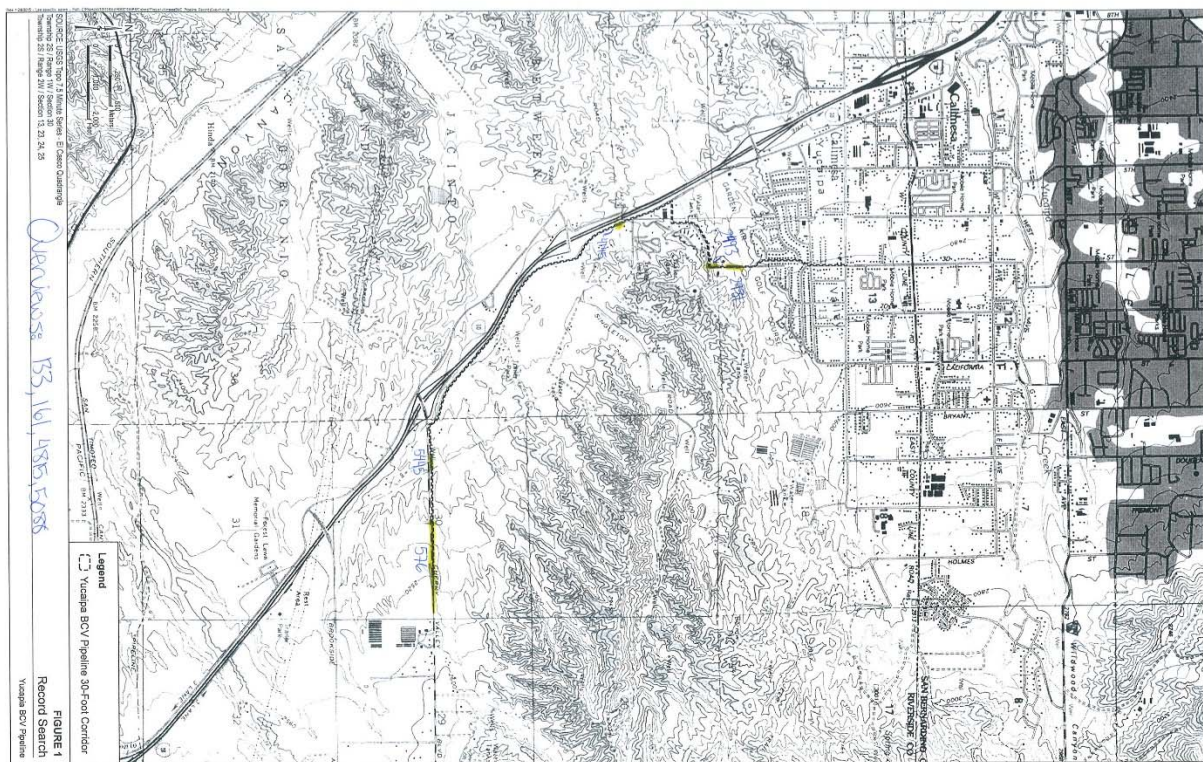
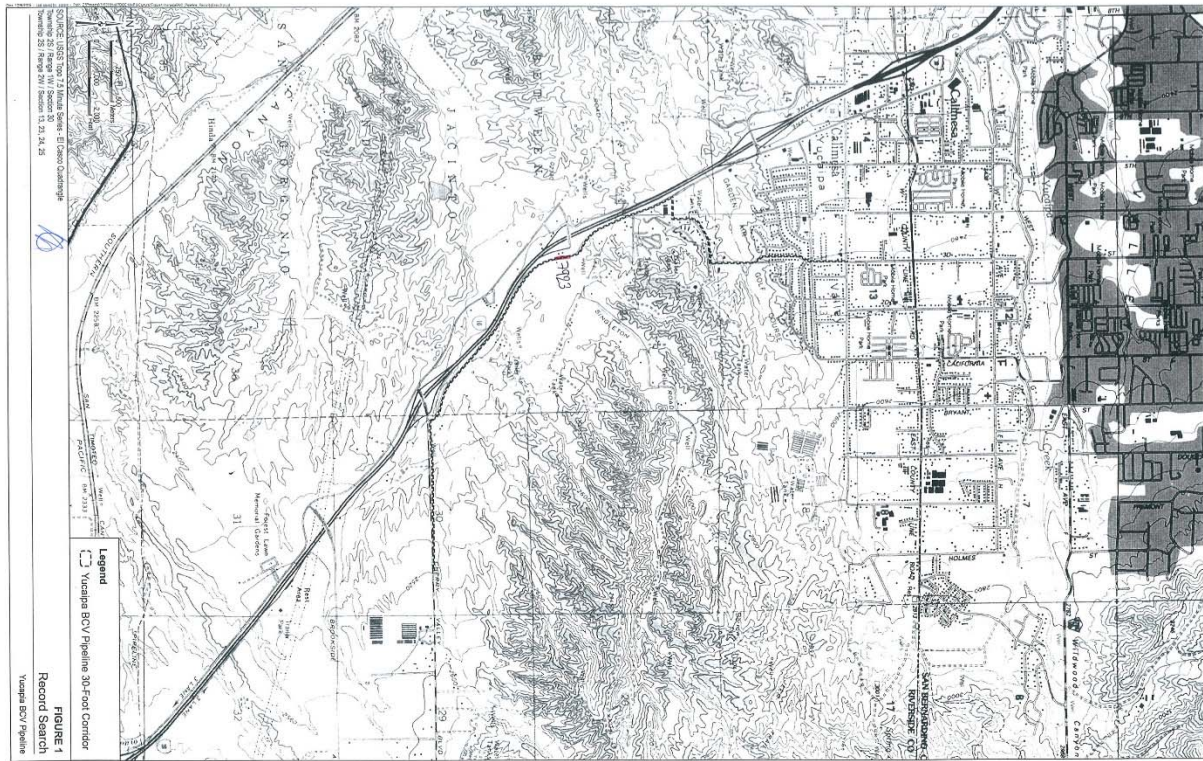
## Report List

| Report No. | Other IDs  | Year | Author(s)   | Title  | Affiliation                                    | Resources |
|------------|--|------|---|--|--|-----------|
| RI-00576   | NADB-R - 1080615;<br>Voided - MF-0503                      | 1979 | Mary A. Brown   | Archaeological Investigation of Portions of Parcel Map 12218, Cherry Valley, Riverside County, California  | Archaeological Consultant, Riverside, CA       |           |
| RI-02493   | NADB-R - 1082983;<br>Voided - MF-2723                      | 1989 | MACKO, MICHAEL E.   | RESULTS OF AN ANTENSIVE CULTURAL RESOURCES SURVEY OF A 120 ACRE PARCEL NEAR CALIMESA, RIVERSIDE COUNTY, CALIFORNIA   | THE KEITH COMPANIES                            |           |
| RI-02649   | NADB-R - 1083119;<br>Voided - MF-2854                      | 1990 | BROWN, ROBERT S.  | ARCHAEOLOGICAL SURVEY OF THE WILMA PACIFIC PROPERTY, A 243 ACRE PARCEL IN CHERRY VALLEY, RIVERSIDE COUNTY, CALIFORNIA.                                     | ARCHAEOLOGICAL RESOURCE MANAGEMENT CORPORATION |           |
| RI-02981   | NADB-R - 1083521;<br>Voided - MF-3202                      | 1990 | DROVER, CHRISTOPHER                                       | AN ARCHAEOLOGICAL ASSESSMENT OF GENERAL PLAN AMENDMENT 280, RIVERSIDE COUNTY, CALIFORNIA.  | AUTHOR(S)                                      |           |
| RI-03852   | NADB-R - 1084726;<br>Submitter - 1008;<br>Voided - MF-4197 | 1993 | WHITNEY-DESAUTELS, NANCY                                  | CULTURAL RESOURCE ASSESSMENT OF THE SAN GORGONIO PASS WATER AGENCY WATER IMPORTATION PROJECT, RIVERSIDE AND SAN BERNARDINO COUNTIES, CALIFORNIA            | SCIENTIFIC RESOURCE SURVEYS, INC.              |           |
| RI-04145   | NADB-R - 1085337;<br>Voided - MF-4621                      | 1998 | MASON, ROGER, PHILIPPE LAPIN, and WAYNE H. BONNER         | CULURAL RESOURCES RECORDS SEARCH AND SURVEY REPORT FOR A PACIFIC BELL MOBILE SERVICES TELECOMMUNICATIONS FACILITY, CM206-01, CITY OF CALIMESA, CCALIFORNIA | CHAMBERS GROUP, INC.                           |           |
| RI-05249   | NADB-R - 1086612   | 2004 | DICE, MICHAEL and CHRISTEEN TANIGUCHI                     | PHASE I CULTURAL RESOURCE SURVEY OF THE EGG RANCH PROJECT FOOTPRINT, SECTION 29 AND 30 OF T.2S, R.1W, COUNTY OF RIVERSIDE, CA                              | MICHAEL BRANDMAN ASSOCIATES                    |           |
| RI-05445   | NADB-R - 1086808;<br>Submitter - 725                       | 2001 | LOVE, BRUCE, BAI TANG, ADRIAN MORENO, and VICTORIA AVALOS | HISTORICAL/ARCHAEOLOGICAL RESOURCES SURVEY REPORT. LUTHER'S TRUCK AND EQUIPMENT, 36233 CHERRY VALLEY BOULEVARD, CHERRY VALLEY, RIVERSIDE COUNTY, CA        | CRM TECH                                       |           |

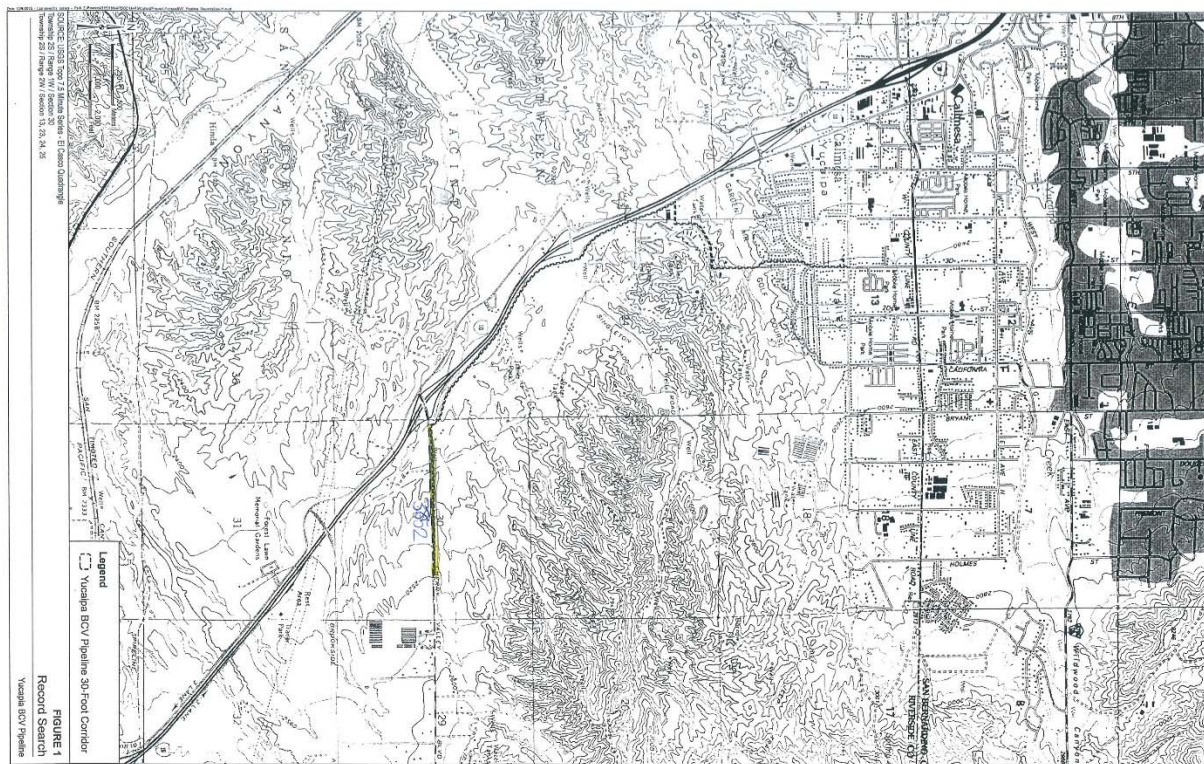
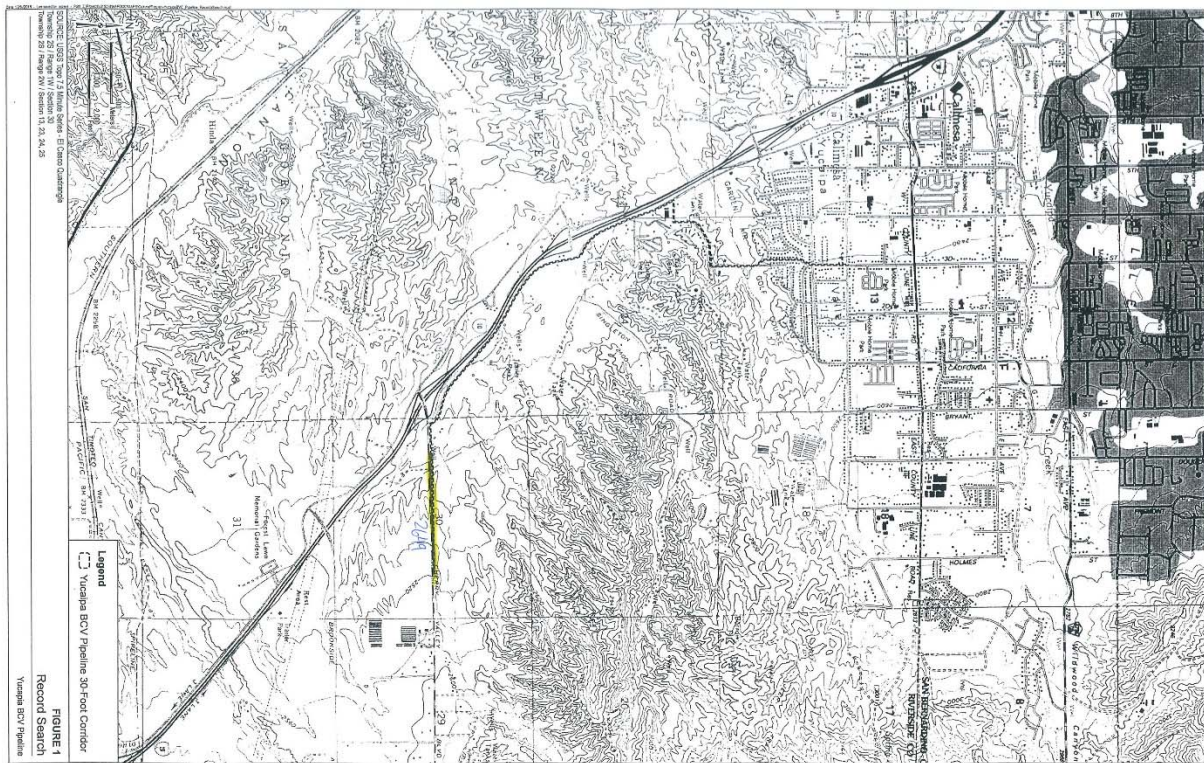
## Report List

| Report No. | Other IDs | Year | Author(s)                              | Title   | Affiliation                            | Resources |
|------------|-----------|------|--|---|--|-----------|
| RI-09071   |           | 2013 | Tracy A. Stropes and<br>Brian F. Smith | PHASE I CULTURAL RESOURCES<br>SURVEY FOR THE SUNNY CAL PROJECT,<br>CITY OF BEAUMONT, COUNTY OF<br>RIVERSIDE. Assessor's Parcel Numbers:<br>407-190-016-6, 407-190-017-7, 407-230-022-<br>4, 407 -230-023-5, 407 -230-024-6, 407 -230-<br>025-7, 407 -230-026-8, 407-230-027-9, and<br>407-230-028-0 | Brian F. Smith and<br>Associates, Inc. |           |

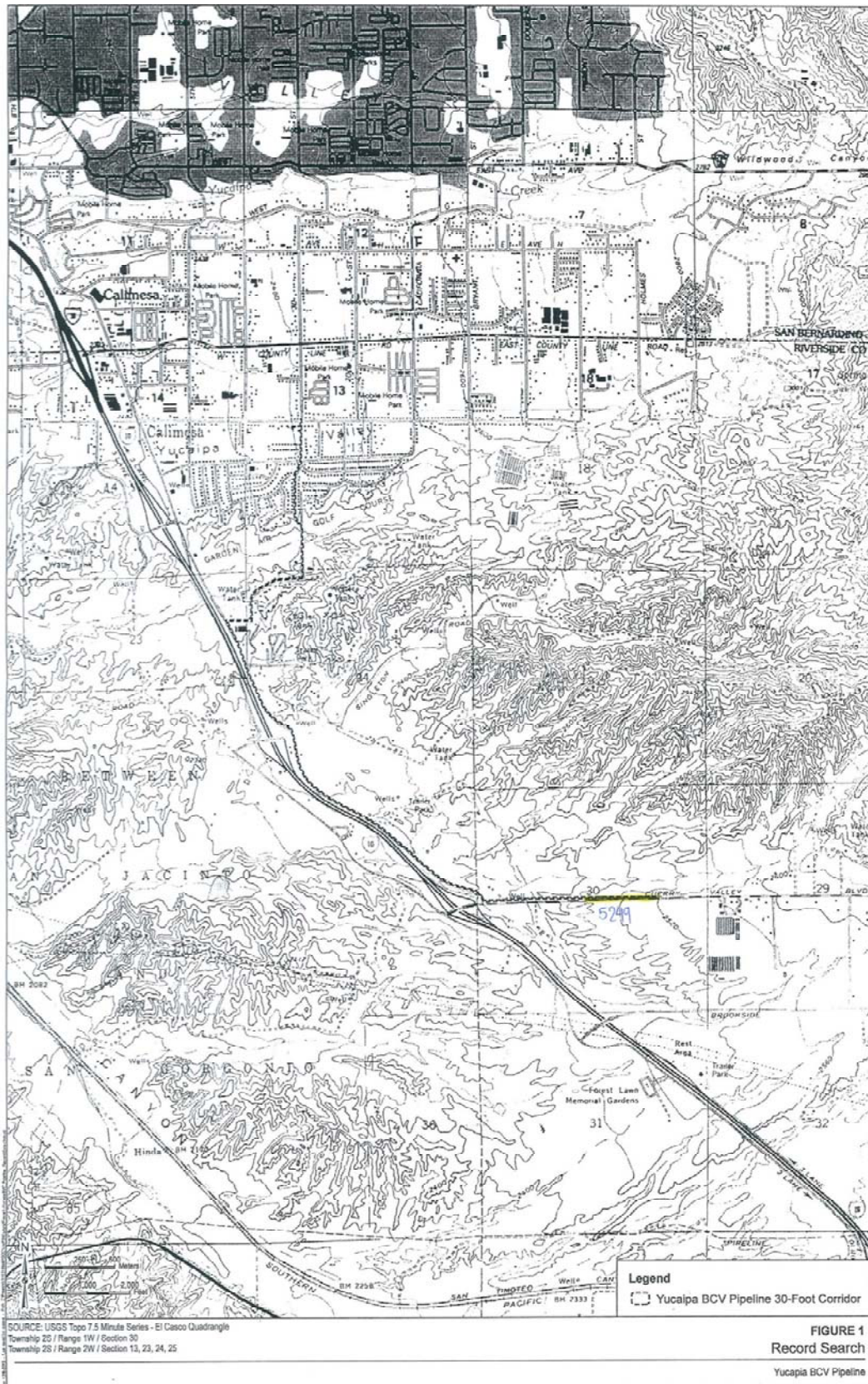














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January 8, 2016

3163-32

Mr. Joseph Zoba  
Yucaipa Valley Water District  
12770 Second Street  
Yucaipa, California 92399

***Subject: Biological Resources Letter Report, Beaumont-Cherry Valley Recycled Water Pipeline Extension, Riverside County, California***

Dear Mr. Zoba:

This letter report documents the results of 2015 updates to the general biological resources surveys completed by Dudek in April and May 2011 for the Yucaipa Valley Water District (YVWD) Beaumont-Cherry Valley Recycled Water Pipeline Extension located within the City of Calimesa and the community of Cherry Valley in Riverside County, California.

This updated letter report is intended to (1) describe the existing conditions of biological resources within the project site in terms of vegetation, flora, wildlife, and wildlife habitats; (2) discuss potential impacts to biological resources that would result from development of the project; and (3) recommend mitigation measures for potential impacts to special-status biological resources, if necessary.

## **1 INTRODUCTION**

### **1.1 Project Location**

The proposed extension of the Beaumont-Cherry Valley water pipeline (i.e., the proposed project) is located within the City of Calimesa and community of Cherry Valley in Riverside County (Figures 1 and 2). The proposed project lies within the El Casco U.S. Geological Survey 7.5-minute quadrangle, between Township 2 South, Range 2 West, Sections 13, 23, and 24; and Township 2 South, Range 1 West, Section 30 (Figure 2). The proposed project would be located almost exclusively within developed areas associated with existing roadways and one previously disturbed slope. The project site is surrounded by residential and commercial development, agricultural areas, a golf course, and open space.

### **1.2 Project Description**

The proposed project would involve the construction of approximately 18,500 linear feet (3.5 miles) of 24-inch waterline to connect an existing YVWD waterline to an existing Beaumont-

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*Mr. Joseph Zoba*

*Subject: Biological Resources Letter Report, Beaumont-Cherry Valley Recycled Water Pipeline Extension, Riverside County, California*

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Cherry Valley Water District (BCVWD) waterline via a proposed BCVWD booster. The intent of the proposed project is to deliver recycled water to the BCVWD to offset current water supply shortages. The entire pipeline would be constructed within existing roadways, and all construction work, staging areas, and access routes would be confined to existing paved rights-of-way and disturbed/developed areas. The proposed 24-inch pipeline alignment would extend south from an existing YVWD waterline for approximately 3,000 feet along 3rd Street and would continue up a nonvegetated slope for approximately 162 feet. It would then turn west for 2,450 feet to Calimesa Boulevard for approximately 9,300 feet and continue along Cherry Valley Boulevard for approximately 5,500 feet, connecting with the BCVWD waterline at the proposed booster (Figure 3).

The proposed project represents a relatively minor increase in linear footage compared to the previously approved recycled water distribution alignment, and it would not substantially change the environmental conditions from those analyzed in the Environmental Impact Report/Environmental Impact Statement (EIR/EIS). All construction work, staging areas, and improvements would be located within the existing right-of-way, and any minor ground disturbance resulting from construction activities would be restored to preconstruction conditions as described in the EIR/EIS project description. Additionally, the proposed project would be subject to all project design features and mitigation measures identified in the EIR/EIS, as applicable.

The proposed project would primarily be installed using conventional trenching methods. All construction activities would occur within a temporary 30-foot-wide construction corridor along the proposed alignment. In addition, temporary staging areas required during construction for equipment and materials storage would be located within the 30-foot-wide construction corridor.

## **2 METHODS**

### **2.1 Special-Status Species Definition**

For the purposes of the analysis presented in this report, special-status species are defined as follows:

- Have been designated as either rare, threatened, or endangered by the California Department of Fish and Wildlife (CDFW) or the U.S. Fish and Wildlife Service and are protected under either the California Endangered Species Act (California Fish and Game Code, 2050 et seq.) or federal Endangered Species Act (16 U.S.C. 1531 et seq.); or meet the California Environmental Quality Act definition for endangered, rare, or threatened (14 CCR 15380(b)(d)).

Mr. Joseph Zoba

Subject: *Biological Resources Letter Report, Beaumont-Cherry Valley Recycled Water Pipeline Extension, Riverside County, California*

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- Are candidate species being considered or proposed for listing under these same acts.
- Are fully protected by the California Fish and Game Code Sections 3511, 4700, 5050, or 5515.
- Are of expressed concern to resource/regulatory agencies or local jurisdictions. This includes wildlife considered a state Species of Special Concern and plants with California Rare Plant Rank (CRPR) 1 2, 3, or 4:
  - CRPR 1B: plants rare, threatened, or endangered in California and elsewhere
  - CRPR 2B: plants are rare, threatened, or endangered in California, but more common elsewhere

## 2.2 Literature Review

Prior to conducting the field reconnaissance, a literature review was conducted to identify special-status biological resources present or potentially present within the vicinity of the study area using the California Natural Diversity Data Base (CNDDB) (CDFW 2015) and California Native Plant Society's (CNPS's) *Online Inventory of Rare and Endangered Vascular Plants* (2015). Latin and common names of animals follow the American Ornithologists' Union (AOU) (2015) for birds, Crother (2012) for reptiles and amphibians, Wilson and Reeder (2005) for mammals, and North American Butterfly Association (NABA) (2001) or San Diego Natural History Museum (2002) for butterflies.

## 2.3 Field Reconnaissance

A general habitat assessment, including updated vegetation mapping, of the proposed project was conducted by Dudek biologist Mikael Romich on December 28, 2015. Previous surveys were conducted by Dudek biologists Patricia Schuyler on April 20, 2011, and Callie Ford on May 4, 2011. Surveys were conducted to identify existing biological resources and potential biological constraints within the project footprint, including burrowing owl (*Athene cunicularia*). The habitat assessments and reconnaissance survey were generally conducted within 100 feet of the proposed alignment. However, areas within 500 feet of the proposed alignment were reviewed in the field to identify suitable habitat for potentially occurring special-status wildlife species that could potentially be affected by noise during construction. Areas of the buffer that were separated from the project site by Interstate 10 (I-10) were not assessed since no indirect impacts would be feasible. The study area was also surveyed to identify the locations of jurisdictional waters, including wetlands, regulated by the U.S. Army Corps of Engineers, California Regional Water Quality Control Board, and CDFW. However, a formal jurisdictional delineation was not

*Mr. Joseph Zoba*

*Subject: Biological Resources Letter Report, Beaumont-Cherry Valley Recycled Water Pipeline Extension, Riverside County, California*

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conducted. The proposed project is located primarily within existing roadways; therefore, focused surveys for special-status plant or wildlife species were not conducted.

Vegetation communities and land covers located within 500 feet of the project alignment were mapped in the field using color aerial imagery (Google Earth aerial dated April 27, 2014), except for areas of the buffer that were separated from the project site by I-10. Mapped vegetation polygons were digitized using ArcGIS, and geographic information system (GIS) coverage was created. Acreage of vegetation communities and land covers were calculated using ArcGIS. Vegetation communities were mapped according to Holland (1986). All plant species encountered during the surveys were identified and recorded. Latin names for plant species follow the *Jepson Interchange List of Currently Accepted Names of Native and Naturalized Plants of California* (Jepson Flora Project 2015), and common names follow the U.S. Department of Agriculture (USDA) Natural Resources Conservation Service State PLANTS Checklist (USDA 2015).

Appendix A provides a series of site photographs that were taken during the December 28, 2015, field assessment to document current conditions.

### **3 PHYSICAL CHARACTERISTICS**

#### **3.1 Environmental Setting**

The proposed project is located south and west of the foothills of the San Bernardino Mountains. The area is characterized by a series of alluvial valleys and upland hills and ridges. The elevation on site ranges from approximately 2,280 to 2,520 feet.

#### **3.2 Site Description**

The proposed project occurs within existing roadways and disturbed/developed areas surrounded by residential and commercial development, agricultural areas, and undeveloped land. The majority of the proposed project runs parallel to I-10. Undeveloped lands in the vicinity of the project include non-native grasslands, sage scrub, chaparral, and primarily ornamental woodland areas.

#### **3.3 Soils**

Thirteen soil types are mapped within the study area. The majority of the study area is dominated by three soil types, including the following: Hanford coarse sandy loam, 2% to 8% slopes; Terrace escarpments and Ramona sandy loam, 2% to 5% slopes, eroded. For the purposes of evaluating biological resources within an area, mapped soils information is typically used to



*Mr. Joseph Zoba*

*Subject: Biological Resources Letter Report, Beaumont-Cherry Valley Recycled Water Pipeline  
Extension, Riverside County, California*

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determine whether suitable substrates for special-status plant species are potentially present. However, because the proposed project occurs entirely within paved roadways and adjacent disturbed/developed areas, soils that are mapped within the study area are unlikely to be affected by implementation of the proposed project. Soils mapped within the study area include:

- Gorgonio gravelly loamy fine sand, 2% to 15% slopes
- Greenfield sandy loam, 2% to 8% slopes, eroded
- Greenfield sandy loam, 8% to 15% slopes, eroded
- Hanford coarse sandy loam, 2% to 8% slopes
- Hanford coarse sandy loam, 8% to 15% slopes, eroded
- Ramona sandy loam, 2% to 5% slopes, eroded
- Ramona sandy loam, 5% to 8% slopes, eroded
- Ramona sandy loam, 5% to 8% slopes, severely eroded
- Ramona sandy loam, 8% to 15% slopes, severely eroded
- Ramona sandy loam, moderately deep, 8% to 15% slopes, eroded
- Riverwash
- Terrace escarpments
- Tujunga loamy sand, channeled, 0% to 8% slopes.

## **4 RESULTS**

### **4.1 Vegetation Communities and Land Covers**

The proposed project includes approximately 3.74 miles (19,744 feet) of pipeline located within existing roadways and adjacent disturbed/developed areas. Other vegetation communities or land covers within the study area include non-native grassland, Riversidean sage scrub, disturbed Riversidean sage scrub, chaparral, agriculture, and ornamental plantings. These vegetation communities and land covers and their acreages in the study area are listed in Table 1 and are shown on Figures 3 and 3A–G.

Mr. Joseph Zoba

Subject: *Biological Resources Letter Report, Beaumont-Cherry Valley Recycled Water Pipeline Extension, Riverside County, California*

**Table 1**  
**Vegetation Communities and Land Covers**

| Vegetation Communities and Land Covers | Acres        |
|--|--------------|
| <i>Woodland</i>                        |              |
| Eucalyptus woodland                    | 2.4          |
| Tree of heaven woodland                | 1.3          |
| <i>Scrub and Chaparral</i>             |              |
| Southern mixed chaparral               | 18.9         |
| Riversidean sage scrub                 | 16.3         |
| Disturbed Riversidean sage scrub       | 6.1          |
| <i>Grassland</i>                       |              |
| Non-native grassland                   | 36.7         |
| <i>Other</i>                           |              |
| Agriculture                            | 3.7          |
| Urban/Developed                        | 228.1        |
| Disturbed habitat                      | 124.4        |
| Ornamental                             | 6.8          |
| Park-golf course                       | 18.6         |
| <b>Total</b>                           | <b>439.4</b> |

#### **4.1.1 Urban/Developed**

Developed land consists of buildings, structures, homes, parking lots, paved roads, and maintained areas, and may include associated ornamental plantings. Developed areas do not support native vegetation and consist of predominantly impervious surfaces.

#### **4.1.2 Park-Golf Course**

The golf course landcover type is dominated by turf grass, sand traps, ornamental trees, cart paths, and associated infrastructure like the clubhouse, driving range, and cart maintenance area.

#### **4.1.3 Disturbed Habitat**

Disturbed habitat refers to areas that are not developed yet lack native vegetation, and generally are the result of severe or repeated mechanical perturbation. Many areas in the buffer of the project contain soils that appear to be either frequently disturbed or have been severely disturbed in the past (such as grazing) such that they are largely bare or are dominated exclusively by non-native species such as mustards and non-native grasses.

Mr. Joseph Zoba

Subject: *Biological Resources Letter Report, Beaumont-Cherry Valley Recycled Water Pipeline Extension, Riverside County, California*

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#### **4.1.4 Ornamental**

Ornamental plantings refer to areas where non-native ornamentals and landscaping have been installed. On site, ornamental plantings refer to areas adjacent to roadways or residential and commercial buildings that have been landscaped with ornamental shrubs and trees, such as liquid amber (*Liquidambar styraciflua*), eucalyptus (*Eucalyptus* spp.), Peruvian peppertree (*Schinus molle*), pines (*Pinus* species), and Brazilian peppertree (*Schinus terebinthifolius*).

#### **4.1.5 Non-native Grassland**

According to Jones & Stokes (1993), non-native grassland is characterized by weedy, introduced annuals, primarily grasses, including wild oat (*Avena* spp.), bromes (*Bromus diandrus*, *B. madritensis*, *B. hordeaceus*), black mustard (*Brassica nigra*), filaree (*Erodium* spp.), and Russian-thistle (*Salsola tragus*). It may occur where disturbance by maintenance (mowing, scraping, disking, spraying, etc.), grazing, repetitive fire, agriculture, or other mechanical disruption have altered soils and removed native seed sources from areas formerly supporting native vegetation. Non-native grassland typically occurs adjacent to roads or other developed areas where there has been some historic disturbance. Non-native grassland may support sensitive plant and animal species and provide valuable foraging habitat for raptors (birds of prey). On site, non-native grassland is mapped along various portions of the project footprint. Species include wild oat, bromes, filaree, short-pod mustard (*Hirschfeldia incana*), and fiddleneck (*Amsinckia menziesii*).

#### **4.1.6 Riversidean Sage Scrub**

According to Holland (1986), Riversidean sage scrub is composed of a variety of soft, low shrubs, characteristically dominated by drought-deciduous species such as California sagebrush (*Artemisia californica*), California buckwheat (*Eriogonum fasciculatum*), and sages (*Salvia* spp.), with scattered evergreen shrubs, including lemonadeberry (*Rhus integrifolia*) and laurel sumac (*Malosma laurina*). It typically develops on xeric slopes. On site, Riversidean sage scrub was comprised primarily of California sagebrush, California buckwheat, deerweed (*Acmispon glaber*), sand aster (*Corethrogyne filaginifolia*), phacelia (*Phacelia* sp.), and cryptantha (*Cryptantha* sp.).

#### **4.1.7 Disturbed Riversidean Sage Scrub**

Disturbed Riversidean sage scrub is similar in species composition to Riversidean sage scrub but has higher cover of bare ground or non-native shrubs, forbs, and grasses. Disturbed Riversidean sage scrub intergrades with annual grassland and disturbed habitat depending on



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the abundance of annual grasses or non-native forbs. On site, disturbed Riversidean sage scrub consists primarily of California buckwheat, but has greater than 20% cover of non-native grasses and forbs.

#### **4.1.8 Eucalyptus Woodland**

Although not recognized by Holland (1986) as a native plant community, eucalyptus woodland is a distinct “naturalized” vegetation type that is fairly widespread in Southern California and is considered a woodland habitat. It typically consists of monotypic stands of introduced Australian eucalyptus trees. The understory is either depauperate or absent owing to shade and the possible allelopathic (toxic) properties of the eucalyptus leaf litter. Although eucalyptus woodlands are of limited value to most native plants and animals, they frequently provide nesting and perching sites for several raptor species. On site, eucalyptus woodland is mapped in one area that is dominated by tall eucalyptus trees and a grassland understory.

#### **4.1.9 Tree of Heaven Woodland**

Similar to eucalyptus woodland, but dominated instead by the non-native tree of heaven (*Ailanthus altissima*).

#### **4.1.10 Southern Mixed Chaparral**

This vegetation community is a drought- and fire-adapted community of woody shrubs, 1.5 to 3 meters tall, frequently forming dense, impenetrable stands. It develops primarily on mesic north-facing slopes and in canyons, and is characterized by crown- or stump-sprouting species that regenerate following burns or other ecological catastrophes. This vegetation community is typically a mixture of chamise (*Adenostoma fasciculatum*), mission manzanita (*Xylococcus bicolor*), ceanothus (*Ceanothus* spp.), interior scrub oak (*Quercus berberidifolia*), laurel sumac, and black sage (*Salvia mellifera*). On site, southern mixed chaparral is dominated by interior scrub oak; other species include chamise, spiny redberry (*Rhamnus crocea*), toyon (*Heteromeles arbutifolia*), hollyleaf cherry (*Prunus ilicifolia*), California buckwheat, and California sagebrush. Very occasional coast live oaks (*Quercus agrifolia*) are also present.

## **4.2 Floral Diversity**

A total of 25 plant species were identified within the study area during the survey. Of these, 13 (52%) are native and 12 (48%) are non-native. The list of plant species identified in the study area is provided as Appendix B.

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#### 4.3 Wildlife

A total of 19 wildlife species were directly observed or detected by sign in the study area, as described below. A total of 15 bird species were observed during the wildlife surveys, including red-tailed hawk (*Buteo jamaicensis*), northern flicker (*Colaptes auratus*), phainopepla (*Phainopepla nitens*), bushtit (*Psaltirparus minimus*), mourning dove (*Zenaida macroura*), common raven (*Corvus corax*), American crow (*Corvus brachyrhynchos*), western meadowlark (*Sturnella neglecta*), California towhee (*Melospiza crissalis*), white-crowned sparrow (*Zonotrichia leucophrys*), yellow-rumped warbler (*Setophaga coronata*), house finch (*Carpodacus mexicanus*), lesser goldfinch (*Spinus psaltria*), Anna's hummingbird (*Calypte anna*), and Bewick's wren (*Thryomanes bewickii*). Two reptile species were directly observed during surveys: side-blotched lizard (*Uta stansburiana*) and western fence lizard (*Sceloporus occidentalis*). Finally, two mammal species were detected during the surveys: California ground squirrel (*Spermophilus beecheyi*) and desert cottontail (*Sylvilagus audubonii*), as well as evidence (burrows) of Botta's pocket gopher (*Thomomys bottae*).

#### 4.4 Special-Status Biological Resources

##### 4.4.1 Plant Species

No special-status plant species were identified on site during surveys. Based on the habitat assessment and reconnaissance surveys, no special-status plants are expected to occur within the project footprint due to a lack of suitable habitat.

Based on the results of the literature search (CDFW 2015; CNPS 2015), two historical occurrences of special-status plant species are recorded in the vicinity of the proposed project: slender horned spineflower (*Dodecahema leptoceras*), a federal and state endangered species and CRPR 1B.1, and Plummer's mariposa lily (*Calochortus plummerae*), a CRPR 4.2. Slender horned spineflower is recorded from a 1923 occurrence in the Yucaipa area, but lacks specific location information. No suitable habitat occurs in the vicinity of the project. Plummer's mariposa lily is recorded from a 1978 occurrence near I-10 and Cherry Valley Boulevard. However, because the project lies within exiting roadways and adjacent disturbed/developed areas, neither species is expected to occur within or adjacent to the project footprint. Similarly, other special-status plant species may occur in the vicinity of the project but are not expected to occur within the project footprint. Plant species with the potential to occur in the general vicinity of the project based on suitable habitat, elevation, and soils, but that are not expected to occur or have only a low potential to occur within the project footprint are listed in Table C-1 in Appendix C.



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#### **4.4.2 Wildlife Species**

Although native habitats potentially suitable for special-status wildlife species are present within the study area, the proposed project would occur entirely within existing paved roadways and adjacent disturbed/developed land where special-status wildlife species are not expected to occur. No special-status wildlife species were observed during surveys. No state or federally listed threatened or endangered wildlife species were observed and none are expected to occur within the project footprint as breeding residents or migrants.

Coastal California gnatcatcher (*Poliophtila californica californica*), a federally listed threatened species, has a low potential to occur adjacent to the project where Riversidean sage scrub (including disturbed) vegetation provides suitable habitat. In addition, burrowing, black-tailed jackrabbit (*Lepus californicus*), and western spadefoot (*Spea hammondi*) (all Species of Special Concern) have a moderate potential to occur where fallow agriculture or non-native grasslands are present in the study area. However, based on the lack of suitable burrows, evidence of rain pools, and the high degree of vegetation maintenance activities along the roadways and existing residences, active agriculture, and other disturbances evident adjacent to the project, the potential for these species to occur immediately adjacent to the project is considered low.

Several common and special-status raptors may occasionally forage in the study area, but only common species such as American kestrel (*Falco sparverius*), red-tailed hawk, and red-shouldered hawk (*Buteo lineatus*) would be expected to breed in the vicinity. Special-status wildlife species with the potential to occur in the general vicinity of the project based on suitable habitat, elevation, and general knowledge of species distributions in the area, but that are not expected to occur or have only a low potential to occur within the project footprint are listed in Table C-2 in Appendix C.

#### **4.4.3 Jurisdictional Waters and Wetlands**

A sandy-bottomed channel occurs near the intersection of Calimesa Boulevard and Cherry Valley Boulevard. The channel enters a culvert under Cherry Valley Boulevard and continues as a concrete-lined channel that runs parallel to Calimesa Boulevard for approximately 1,500 feet where it enters a box culvert underneath I-10 (referenced as El Casco Creek). A small drainage on the eastern/northern side of Calimesa Boulevard also enters a box culvert cross Calimesa Boulevard and connects to the concrete-lined channel. Further upstream this feature roughly parallels Cherry Valley Boulevard on the north side. These features are likely to be considered under the jurisdiction of the U.S. Army Corps of Engineers pursuant to Section 404 of the federal Clean Water Act, by the Regional Water Quality Control Board pursuant to Section 401 of the

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federal Clean Water Act and Porter-Cologne Act, and by CDFW pursuant to Section 1600 et seq. of the California Fish and Game Code. However, they are not expected to be impacted during pipeline construction.

#### **4.5 Wildlife Corridors and Habitat Linkages**

Wildlife corridors are linear features that connect large patches of natural open space and provide avenues for the migration of animals. Habitat linkages are small patches that join larger blocks of habitat and help reduce the adverse effects of habitat fragmentation; they may be continuous habitat or discrete habitat islands that function as stepping stones for wildlife dispersal. Undeveloped lands, including creeks and drainage features in the vicinity of the project likely support local wildlife movement and may function as regional habitat linkages.

#### **4.6 Regional Resources Planning Context**

The proposed project lies within the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP). Although the YVWD's sphere of influence includes the City of Calimesa and lands within the County of Riverside, the YVWD is not a part of the MSHCP. However, the YVWD still must show that any proposed project is compatible with the conservation goals of the MSHCP. The proposed project does intersect Constrained Linkage 23 of the MSHCP, including criteria cells 410 and 411. However, the proposed project will not impact this linkage or the ability of the MSHCP to acquire the necessary lands to assemble this linkage.

### **5 ANTICIPATED PROJECT IMPACTS**

This section addresses direct, indirect, and cumulative impacts to biological resources that would result from implementation of the proposed project.

#### **Direct Impacts**

For the purposes of this assessment, direct impacts were quantified by evaluating resources within the impact footprint of the proposed project, which is defined by a 30-foot-wide construction corridor located along the proposed alignment. Direct impacts would include trenching and stockpiling associated with pipeline construction. Direct impacts due to pipeline construction are considered to be temporary and would be restored to pre-existing conditions following construction.

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### **Indirect Impacts**

Indirect impacts result primarily from adverse “edge effects” and may be short-term in nature, related to construction, or long-term in nature, associated with development in proximity to biological resources within natural open space. During construction activities, short-term indirect impacts may include dust, which could disrupt plant vitality, construction-related soil erosion and water runoff, noise, and lighting, which may disrupt wildlife. It is assumed, however, that standard construction best management practices (BMPs) and minimization measures to control construction-related dust, erosion, and runoff will be implemented and will reduce these effects. All project construction will be subject to the typical restrictions and requirements that address erosion and runoff, including the federal Clean Water Act, National Pollution Discharge Elimination System, and preparation of a Stormwater Pollution Prevention Plan.

### **Cumulative Impacts**

Cumulative impacts refer to incremental individual environmental effects of two or more projects when considered together. These impacts taken individually may be minor but collectively significant as they occur over a period of time. The indirect impacts associated with this project are relatively minor and therefore do not greatly contribute to cumulative impacts for the surrounding area.

## **5.1 Vegetation Communities and Land Covers**

### **Direct Impacts**

The proposed project alignment was overlayed with the existing land cover/vegetation map to determine the approximate direct impacts (Table 2). These are approximations since it is expected that these may be changed slightly once the project is implemented to remain on existing roadways to an even greater extent.

None of the land cover/vegetation types to be impacted are considered special status or rare. Therefore, impacts to vegetation communities are considered less than significant.

**Table 2**  
**Impacted Vegetation Communities and Land Covers**

| Vegetation Communities and Land Covers | Acres Impacted |
|--|----------------|
| <i>Scrub and Chaparral</i>             |                |
| Southern mixed chaparral               | 0.1            |



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**Table 2**  
**Impacted Vegetation Communities and Land Covers**

| Vegetation Communities and Land Covers | Acres Impacted |
|--|----------------|
| <i>Other</i>                           |                |
| Urban/Developed                        | 13.1           |
| Disturbed habitat                      | 0.1            |
| Ornamental                             | 0.2            |
| Park-golf course                       | 0.1            |
| <b>Total</b>                           | <b>13.6</b>    |

### **Indirect Impacts**

Indirect impacts to vegetation communities and land covers are expected to be less than significant with the use of standard construction BMPs and minimization measures to control construction-related dust, erosion, and runoff.

## **5.2 Special-Status Plants**

### **Direct Impact**

No direct impacts to special-status plants are expected to occur because the proposed project is located within existing disturbed/developed areas.

### **Indirect Impacts**

Potential indirect impacts to special-status plants are expected to be less than significant through the use of standard construction BMPs and minimization measures to control construction-related dust, erosion, and runoff.

## **5.3 Special-Status Wildlife**

### **Direct Impacts**

No direct impacts to special-status animals are expected to occur because the proposed project is located within existing disturbed/developed areas. For areas where vegetation or ground-disturbing will occur during the nesting bird season (defined as February 15 to August 15), the project could result in impacts to nests that would be in violation of the Migratory Bird Treaty

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Act and California Fish and Game Code. Mitigation measure BIO-1 would reduce this potential violation to less than significant.

### **Indirect Impacts**

During the breeding season from February 15 through August 15, construction-related noise could result in short-term indirect impacts to the California gnatcatcher, burrowing owl, and other common nesting species if active nests are located within 300 feet of construction. However, considering the existing baseline of the project area of high levels of noise, light, and motion from I-10, Calimesa Boulevard, Cherry Valley Boulevard, other residential areas, and the existing golf course, any species nesting in close proximity to the project site would be acclimated to these conditions. Therefore, potential indirect impacts to nesting species is considered less than significant.

## **5.4 Jurisdictional Waters/Wetlands**

### **Direct Impacts**

It is assumed that where the project crosses potential jurisdictional features, construction methods will not result in impacts to these features. However, if construction could result in impacts to culverts below the roadway, then a formal jurisdictional delineation may be justified. If impacts to jurisdictional features are identified, the project would need to acquire all necessary permits.

### **Indirect Impacts**

Potential indirect impacts to jurisdictional areas would be less than significant through the implementation of standard construction BMPs and minimization measures to control construction-related dust, erosion, and runoff. All project construction will be subject to the typical restrictions and requirements that address erosion and runoff, including the federal Clean Water Act, National Pollution Discharge Elimination System, and preparation of a Stormwater Pollution Prevention Plan.

## **5.5 Wildlife Corridors and Habitat Linkages**

The proposed project would be located entirely within existing paved roadways and adjacent disturbed/developed lands that are not expected to affect the function of wildlife corridors or habitat linkages in the vicinity of the project.



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## 6 MITIGATION MEASURES

**BIO-1** If vegetation or ground-disturbing activities occur between February 15 and August 15, a preconstruction survey for nesting birds must be performed no more than 3 days before any construction-related activities. If nests are found, a qualified biologist will provide recommendations as to any minimization measures that may be required, such as construction-free setbacks from active nests. These setbacks would be established to avoid direct and indirect impacts on active bird nests and would be in place until the nest cycle is complete. Implementation of this measure would reduce impacts to nesting birds to a level that is less than significant.

Please contact me if you have any questions regarding this report at 760.479.4292 or kmuri@dudek.com.

Sincerely,



Kamarul Muri  
Biologist  
Environmental Sciences Division

Att: *Figures 1, 2, 3A-G*  
*Appendix A – Photo Documentation*  
*Appendix B – Plant Compendium*  
*Appendix C – Special-Status Species Tables*

cc: Jennifer Ares, YVWD

## REFERENCES CITED

16 U.S.C. 1531–1544. Endangered Species Act of 1973, as amended.

AOU (American Ornithologists' Union). 2015. *Check-List of North American Birds: List of the 2,078 Bird Species Known From the AOU Check-List Area*. Accessed November 2015.  
<http://www.aou.org/checklist/north/full.php>.

California Fish and Game Code, Section 2050–2115.5. California Endangered Species Act.

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CDFW (California Department of Fish and Wildlife). 2015. *Rarefind*. Version 3.1.0. California Natural Diversity Database (CNDDB). November 2015.

CNPS (California Native Plant Society). 2015. *CNPS Inventory of Rare and Endangered Plants* (online edition, v8-02). Sacramento, California: California Native Plant Society. Accessed October 2015. <http://www.cnps.org/inventory>.

Crother, B.I. 2012. *Scientific and Standard English Names of Amphibians and Reptiles of North America North of Mexico, with Comments Regarding Confidence in our Understanding*. 7th ed. Edited by J.J. Moriarty. Shoreview, Minnesota: Society for the Study of Amphibians and Reptiles.

Holland, R.F. 1986. *Preliminary Descriptions of the Terrestrial Natural Communities of California*. Nongame-Heritage Program, California Department of Fish and Game.

Jepson Flora Project. 2015. *Jepson Interchange List of Currently Accepted Names of Native and Naturalized Plants of California*. Berkeley, California: University of California. Accessed November 2015. [http://ucjeps.berkeley.edu/interchange/I\\_status\\_1+2.html](http://ucjeps.berkeley.edu/interchange/I_status_1+2.html).

Jones & Stokes Associates, Inc. 1993. *Methods Used to Survey the Vegetation of Orange County Parks and Open Space Areas and The Irvine Company Property*. Prepared for County of Orange Environmental Management Agency, Santa Ana, California.

NABA (North American Butterfly Association). 2001. "Checklist of North American Butterflies Occurring North of Mexico." Adapted from *North American Butterfly Association (NABA) Checklist & English Names of North American Butterflies*. 2nd ed. Edited by B. Cassie, J. Glassberg, A. Swengel, and G. Tudor. Morristown, New Jersey: NABA. Accessed November 2015. <http://www.naba.org/pubs/enames2.html>.

San Diego Natural History Museum. 2002. "Butterflies of San Diego County." Revised September 2002. Accessed November 2015. <http://www.sdnhm.org/archive/research/entomology/sdbutterflies.html>.

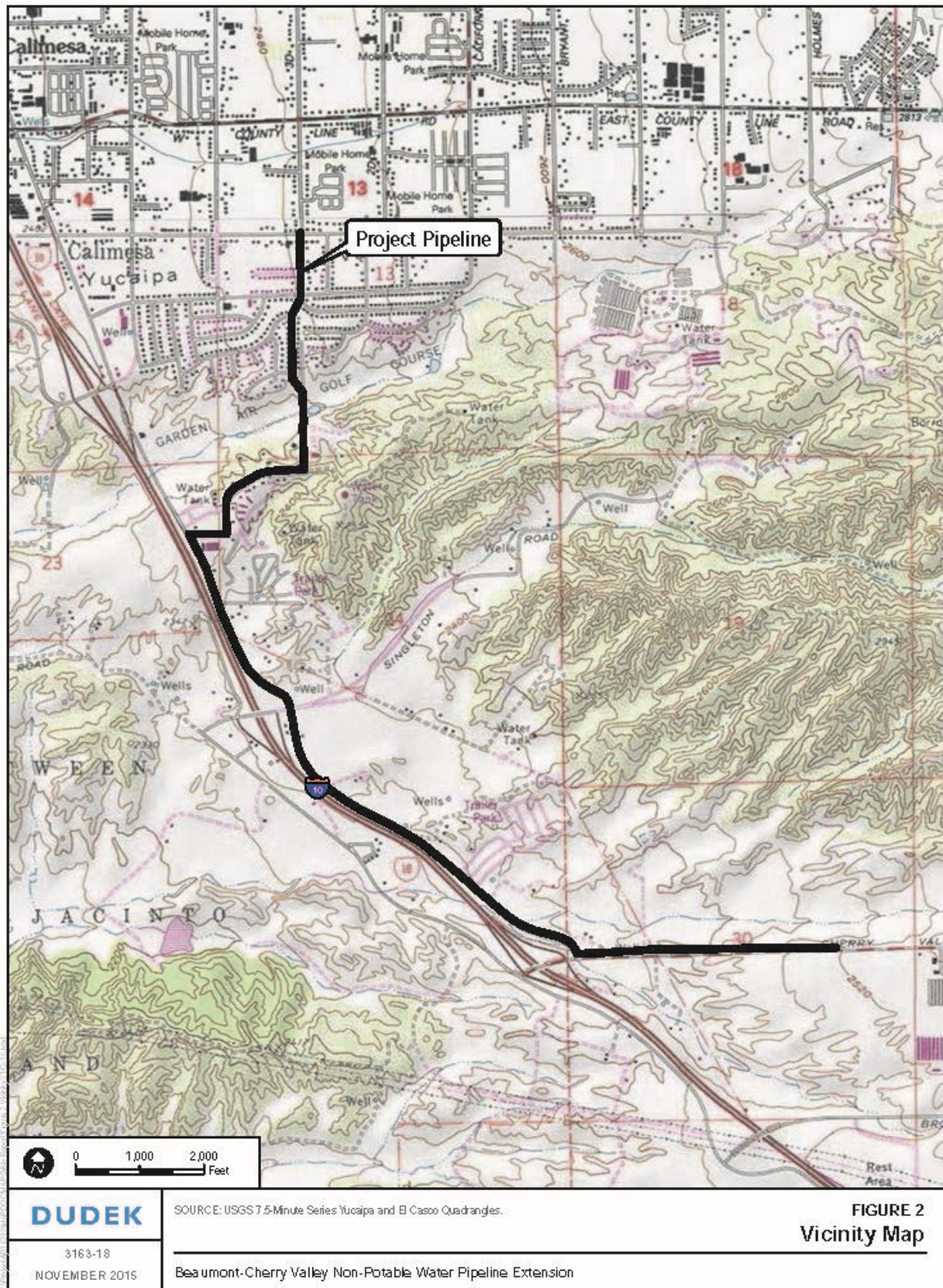
USDA (U.S. Department of Agriculture). 2015. "California." State PLANTS Checklist. Accessed November 2015. [http://plants.usda.gov/dl\\_state.html](http://plants.usda.gov/dl_state.html).

Wilson, D.E., and D.M. Reeder, eds. 2005. *Mammal Species of the World: A Taxonomic and Geographic Reference*. 3rd ed. Baltimore, Maryland: Johns Hopkins University Press.





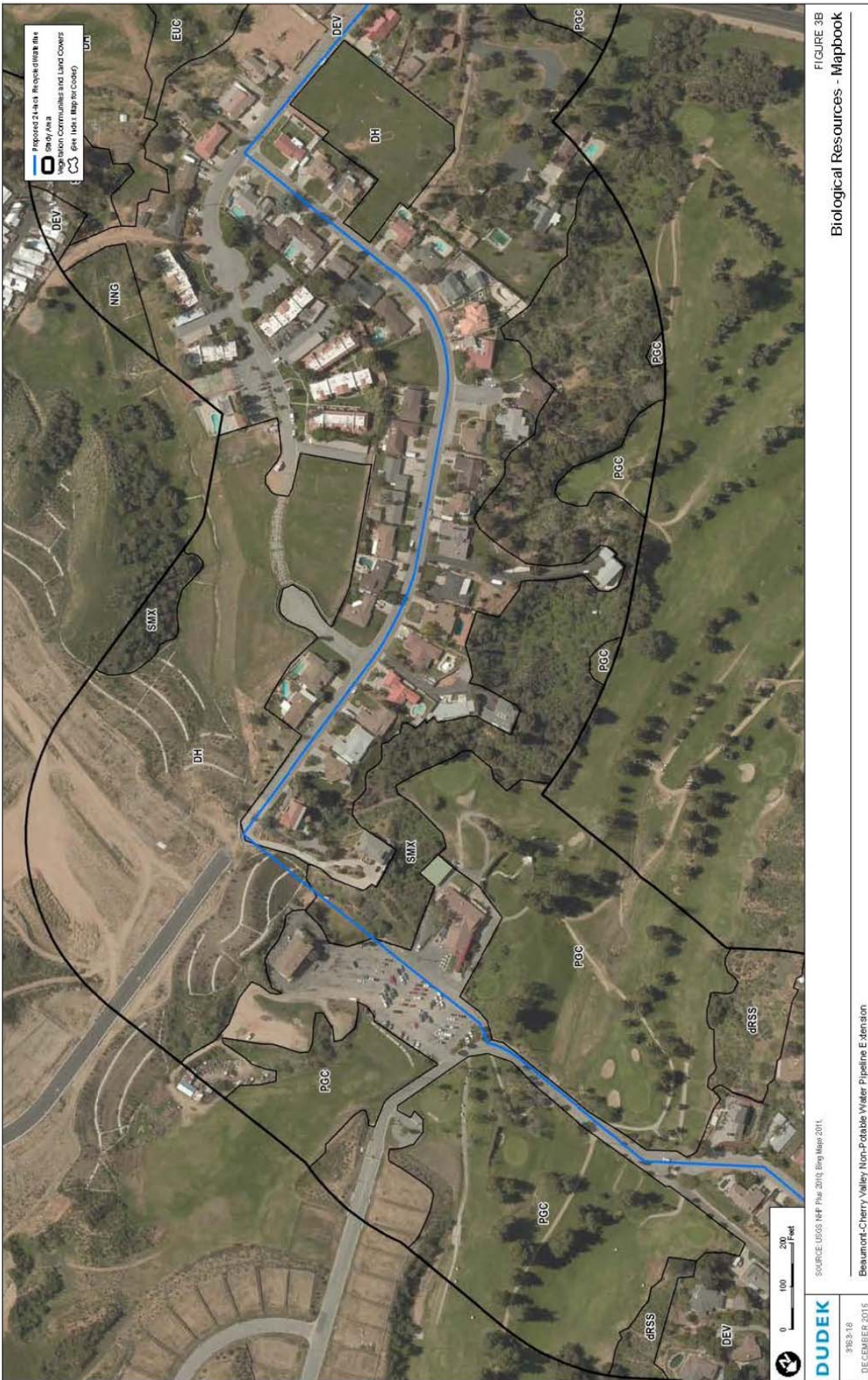


















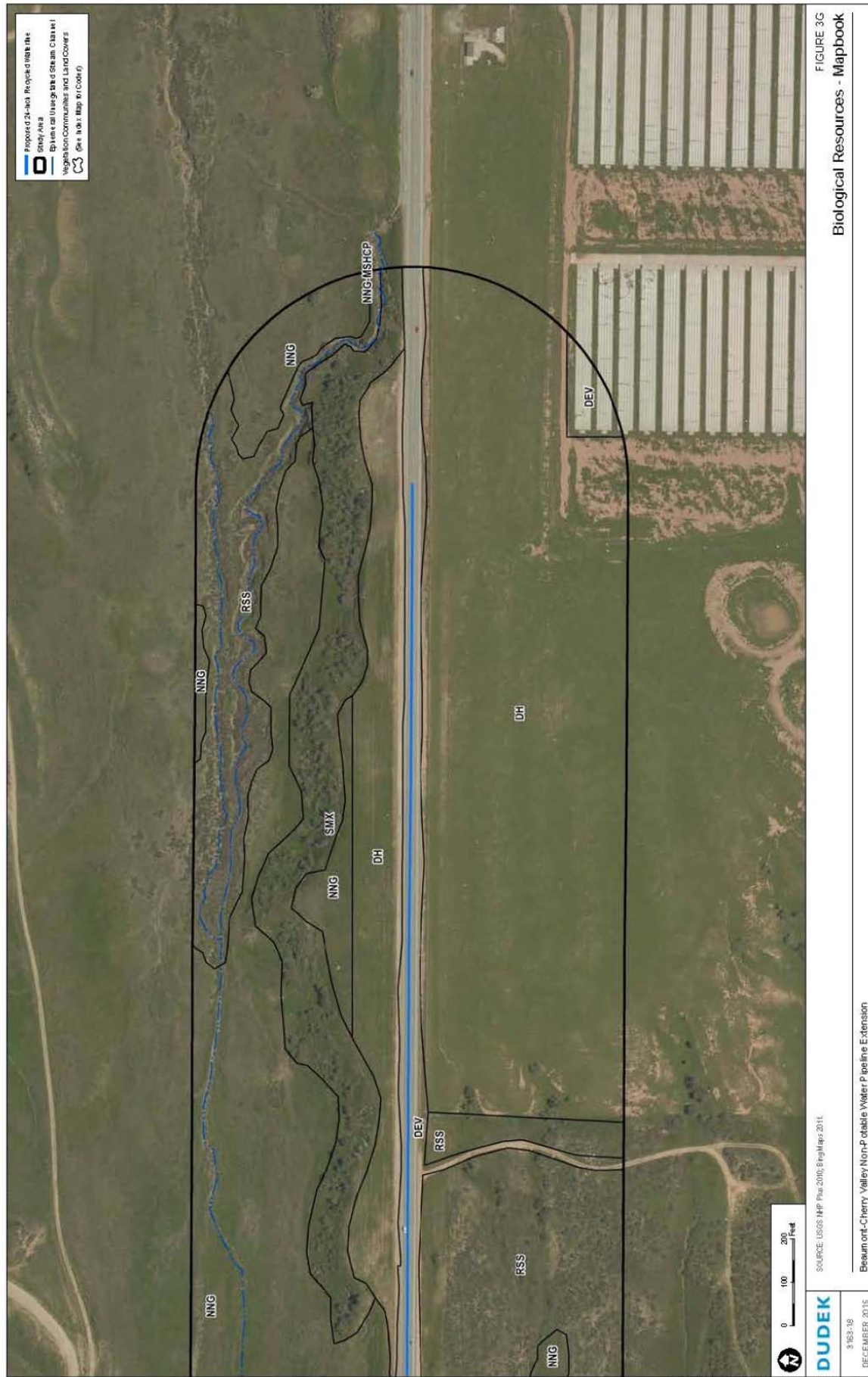
















# **APPENDIX A**

## ***Photo Documentation***

## APPENDIX A

### Photo Documentation

|  |  |
|--|--|
|           |    |
| <b>Location 1:</b> Southeastern end of project site along Cherry Valley Road. Facing west. | <b>Location 2:</b> Drainage feature located at the southeastern end of project site along Cherry Valley Road. Facing east. |
|         |                                        |
| <b>Location 3:</b> Facing north along Cherry Valley Road and Roberts Street.               | <b>Location 4:</b> Drainage feature adjacent to Cherry Valley Road. Facing northeast.                                      |



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**APPENDIX A (Continued)**





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|   |  |
|---|--|
|    |    |
| <b>Location 5:</b> Project site along Calimesa Blvd.<br>Facing southeast.           | <b>Location 6:</b> Drainage feature along Calimesa Blvd.<br>Facing northwest.        |
|  |  |
| <b>Location 7:</b> Project site along Calimesa Blvd.<br>Facing southeast.           | <b>Location 8:</b> Project site along Calimesa Blvd.<br>Facing southeast.            |

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**APPENDIX A (Continued)**



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|   |  |
|---|--|
|    |    |
| <b>Location 9:</b> Project site along Calimesa Blvd. Facing southeast.              | <b>Location 10:</b> Project site south of Buena Vista Drive. Facing south.           |
|  |  |
| <b>Location 11:</b> Concrete channel north of Buena Mesa Drive. Facing southwest.   | <b>Location 12:</b> Concrete channel north of Buena Mesa Drive. Facing southeast.    |

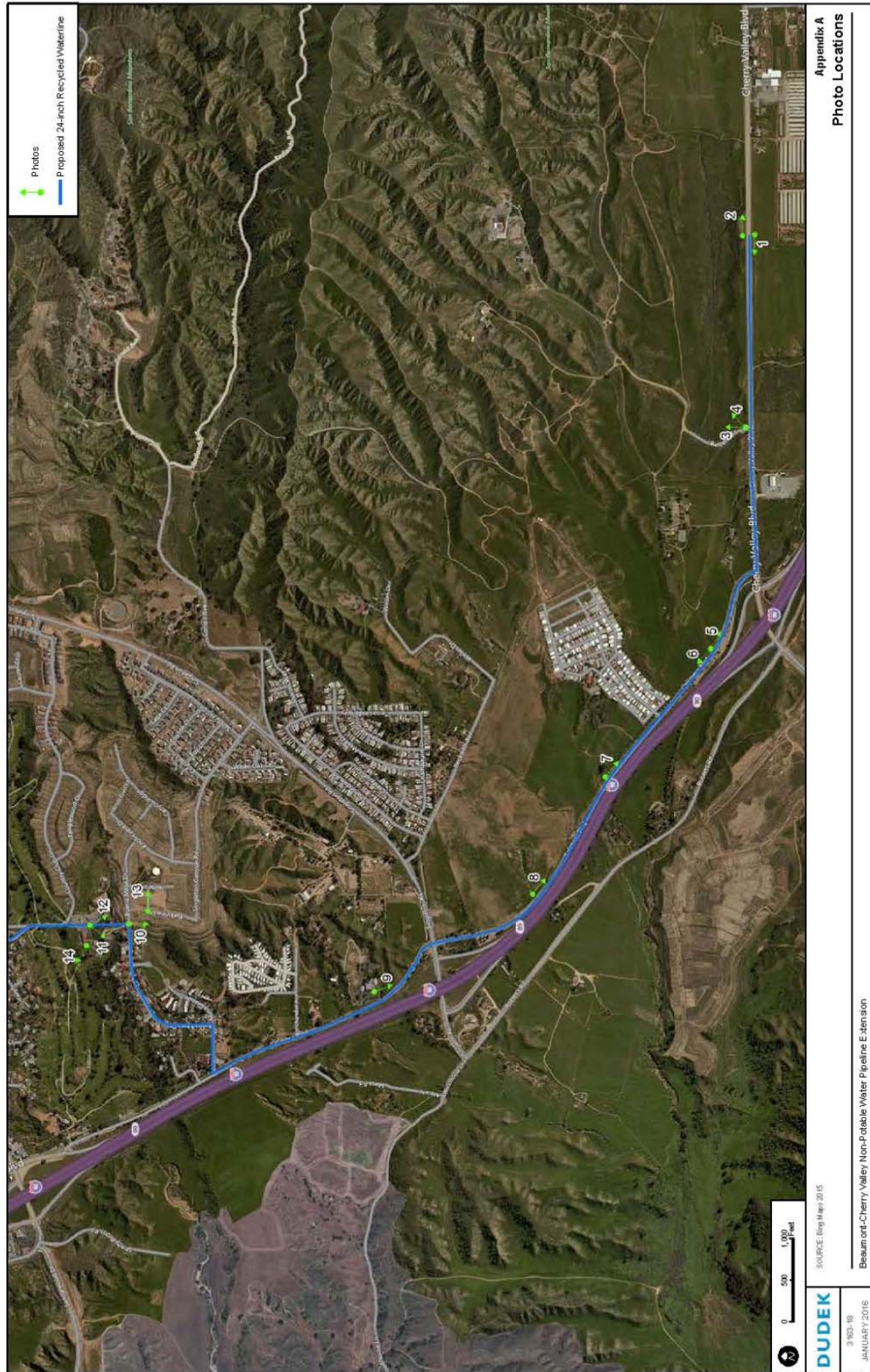
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**APPENDIX A (Continued)**

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|   |   |
|---|---|
|  |                               |
| <b>Location 13:</b> Water tower located south of Buena Vista Drive. Facing east.  | <b>Location 14:</b> Calimesa Country Club north of Buena Vista Drive and west of Slack Place. Facing northwest. |





# **APPENDIX B**

## *Plant Compendium*

## APPENDIX B Plant Compendium

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### ANGIOSPERMS (DICOTS)

#### ***ADOXACEAE—MUSKROOT FAMILY***

*Sambucus nigra*—black elderberry

#### ***ANACARDIACEAE—SUMAC OR CASHEW FAMILY***

- \* *Schinus molle*—Peruvian peppertree
- \* *Schinus terebinthifolius*—Brazilian peppertree

#### ***APOCYNACEAE—DOGBANE FAMILY***

- \* *Nerium oleander*—oleander

#### ***ASTERACEAE—SUNFLOWER FAMILY***

*Artemisia californica*—coastal California sagebrush  
*Corethrogyne filaginifolia*—common sandaster

#### ***BORAGINACEAE—BORAGE FAMILY***

*Amsinckia menziesii*—Menzie’s fiddleneck  
*Cryptantha* sp.—cryptantha  
*Eriodictyon californicum*—California yerba santa  
*Phacelia* sp.—phacelia

#### ***BRASSICACEAE—MUSTARD FAMILY***

- \* *Hirschfeldia incana*—shortpod mustard

#### ***CHENOPODIACEAE—GOOSEFOOT FAMILY***

- \* *Salsola tragus*—prickly Russian thistle

#### ***FABACEAE—LEGUME FAMILY***

*Acmispon glaber*—common deerweed

#### ***FAGACEAE—OAK FAMILY***

*Quercus agrifolia*—California live oak  
*Quercus durata*—California scrub oak

#### ***GERANIACEAE—GERANIUM FAMILY***

- \* *Erodium cicutarium*—redstem stork’s bill

#### ***MYRTACEAE—MYRTLE FAMILY***

- \* *Eucalyptus* spp.—eucalyptus



## APPENDIX B (Continued)

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### ***POLYGONACEAE—BUCKWHEAT FAMILY***

*Eriogonum fasciculatum*—California buckwheat

### ***RHAMNACEAE – BUCKTHORN FAMILY***

*Rhamnus crocea*—spiny redberry

### ***ROSACEAE—ROSE FAMILY***

*Adenostoma fasciculatum*—chamise

*Heteromeles arbutifolia*—toyon

*Prunus ilicifolia*—hollyleaf cherry

### ***SIMAROUBACEAE – QUASSIA OR SIMAROUBA FAMILY***

\* *Ailanthus altissima*—tree of heaven

## MONOCOTS

### ***POACEAE—GRASS FAMILY***

\* *Avena barbata*—slender oat

\* *Avena fatua*—wild oat

\* *Bromus diandrus*—ripgut brome

\* *Bromus madritensis*—compact brome

## GYMNOSPERMS AND GNETOPHYTES

### ***PINACEAE—PINE FAMILY***

\* *Pinus* spp.—ornamental pine

\* signifies introduced (non-native) species

**APPENDIX C**  
*Special-Status Species Tables*

## APPENDIX C

### Special-Status Species Tables

**Table C-1**  
**Special-Status Plants Not Observed and with Low Potential or Not Expected to Occur On Site**

| Scientific Name                                      | Common Name                   | Federal/State Status <sup>1</sup> | CRPR <sup>1</sup> | Primary Habitat Associations/Life Form/Blooming Period   | Status on Site or Potential to Occur  |
|--|-------------------------------|-----------------------------------|-------------------|--|---|
| <i>Abronia villosa</i> var. <i>aurita</i>            | Chaparral sand-verbena        | None/ None                        | 1B.1              | Chaparral, Coastal scrub, Desert dunes/sandy/ annual herb/ Jan-Sep/ 246-5249   | Not expected to occur on the project site, but has a low potential to occur in the buffer where there is suitable chaparral and coastal scrub with sandy soils present. However, the site is at the northern end of the species' known distribution and the nearest occurrence is over 7 miles southeast of the project site (CDFW 2015). |
| <i>Allium marvinii</i>                               | Yucaipa onion                 | None/ None                        | 1B.2              | Chaparral (clay, openings)/ perennial bulbiferous herb/ Apr-May/ 2493-3494   | Not expected to occur on the project site, but has a low potential to occur in the buffer where there is suitable chaparral with potential clay soils.  |
| <i>Arenaria lanuginosa</i> var. <i>saxosa</i>        | Rock sandwort                 | None/ None                        | 2B.3              | Subalpine coniferous forest, Upper montane coniferous forest/mesic, sandy/ perennial herb/ Jul-Aug/ 5906-8530                    | Not expected to occur. The site is below the species' known elevation range.  |
| <i>Arenaria paludicola</i>                           | Marsh sandwort                | FE/ CE                            | 1B.1              | Marshes and swamps (freshwater or brackish)/sandy, openings/ perennial stoloniferous herb/ May-Aug/ 10-558                       | Not expected to occur. The site is above the species' known elevation range.  |
| <i>Astragalus lentiginosus</i> var. <i>cochellae</i> | Coachella Valley milk-vetch   | FE/ None                          | 1B.2              | Desert dunes, Sonoran desert scrub(sandy)/ annual / perennial herb/ Feb-May/ 131-2149  | Not expected to occur. The site is outside the species' known distribution.   |
| <i>Astragalus pachypus</i> var. <i>jaegeri</i>       | Jaeger's bush milk-vetch      | None/ None                        | 1B.1              | Chaparral, Cismontane woodland, Coastal scrub, Valley and foothill grassland/sandy or rocky/ perennial shrub/ Dec-Jun/ 1198-3002 | Not expected to occur on the project site, but has a low potential to occur in the buffer where there is suitable chaparral and sage scrub habitat.   |
| <i>Atriplex coronata</i> var. <i>notator</i>         | San Jacinto Valley Crownscale | FE/ None                          | 1B.1              | Playas, Valley and foothill grassland (mesic), Vernal pools/alkaline/ annual   | Not expected to occur. The site is above the species' known elevation   |

DUDEK

C-1

3163-32  
January 2016

## APPENDIX C (Continued)

**Table C-1**  
**Special-Status Plants Not Observed and with Low Potential or Not Expected to Occur On Site**

| Scientific Name                                 | Common Name            | Federal/State Status <sup>1</sup> | CRPR <sup>1</sup> | Primary Habitat Associations/Life Form/Blooming Period  | Status on Site or Potential to Occur  |
|---|------------------------|-----------------------------------|-------------------|---|---|
|   |                        |                                   |                   | herb/ Apr-Aug/ 456-1640   | range.  |
| <i>Atriplex pacifica</i>                        | South Coast saltscale  | None/ None                        | 1B.2              | Coastal bluff scrub, Coastal dunes, Coastal scrub, Playas/ annual herb/ Mar-Oct/ 0-459  | Not expected to occur. The site is above the species' known elevation range.  |
| <i>Atriplex parishii</i>                        | Parish's brittle scale | None/ None                        | 1B.1              | Chenopod scrub, Playas, Vernal pools/alkaline/ annual herb/ Jun-Oct/ 82-6234  | Not expected to occur on the project site, and has only a low potential to occur in the buffer based on lack of suitable alkaline habitat.          |
| <i>Atriplex serenana</i> var. <i>davidsonii</i> | Davidson's saltscale   | None/ None                        | 1B.2              | Coastal bluff scrub, Coastal scrub/alkaline/ annual herb/ Apr-Oct/ 33-656   | Not expected to occur. The site is above the species' known elevation range and there is no suitable alkaline habitat.                              |
| <i>Berberis nevadensis</i>                      | Nevadensis barberry    | FE/ CE                            | 1B.1              | Chaparral, Cismontane woodland, Coastal scrub, Riparian scrub/sandy or gravelly/ perennial evergreen shrub/ Mar-Jun/ 230-2707   | Not expected to occur on the project site, but has a low potential to occur in the buffer where there is suitable chaparral and sage scrub habitat. |
| <i>Botrychium crenulatum</i>                    | Scalloped moonwort     | None/ None                        | 2B.2              | Bogs and fens, Lower montane coniferous forest, Meadows and seeps, Marshes and swamps(freshwater), Upper montane coniferous forest/ perennial rhizomatous herb/ Jun-Sep/ 4160-10761 | Not expected to occur. The site is below the species' known elevation range.  |
| <i>Brodiaea filifolia</i>                       | Thread-leaved brodiaea | FT/ CE                            | 1B.1              | Chaparral(openings), Cismontane woodland, Coastal scrub, Playas, Valley and foothill grassland, Vernal pools/often clay/ perennial bulbiferous herb/ Mar-Jun/ 82-3675               | Not expected to occur on the project site, and has only a low potential to occur in the buffer based on lack of mapped suitable clay soils.         |
| <i>California macrophylla</i>                   | Round-leaved filaree   | None/ None                        | 1B.2              | Cismontane woodland, Valley and foothill grassland/clay/ annual herb/ Mar-May/ 49-3937  | Not expected to occur on the project site, and has only a low potential to occur in the buffer based on lack of                                     |

## APPENDIX C (Continued)

**Table C-1**  
**Special-Status Plants Not Observed and with Low Potential or Not Expected to Occur On Site**

| Scientific Name  | Common Name                           | Federal/State Status <sup>1</sup> | CRPR <sup>1</sup> | Primary Habitat Associations/Life Form/Blooming Period  | Status on Site or Potential to Occur  |
|--|---------------------------------------|-----------------------------------|-------------------|---|---|
|  |                                       |                                   |                   |   | mapped suitable clay soils.   |
| <i>Castilleja lasiorhyncha</i>                         | San Bernardino Mountains owl's-clover | None/ None                        | 1B.2              | Chaparral, Meadows and seeps, Pebble plain, Riparian woodland, Upper montane coniferous forest/mesic/ annual herb (hemiparasitic)/ May-Aug/ 4265-7841 | Not expected to occur. The site is below the species' known elevation range.  |
| <i>Centromadia pungens</i> ssp. <i>laevis</i>          | Smooth tarplant                       | None/ None                        | 1B.1              | Chenopod scrub, Meadows and seeps, Playas, Riparian woodland, Valley and foothill grassland/alkaline/ annual herb/ Apr-Sep/ 0-2100                    | Not expected to occur. The site is above the species' known elevation range.  |
| <i>Chloropyron maritimum</i> ssp. <i>maritimum</i>     | Salt marsh bird's-beak                | FE/ CE                            | 1B.2              | Coastal dunes, Marshes and swamps(coastal salt)/ annual herb (hemiparasitic)/ May-Oct/ 0-98   | No potential to occur on site based on lack of suitable habitat; the project site is above salt marsh bird's-beak' elevation range.   |
| <i>Chorizanthe parryi</i> var. <i>parryi</i>           | Parry's spineflower                   | None/ None                        | 1B.1              | Chaparral, Cismontane woodland, Coastal scrub, Valley and foothill grassland/sandy or rocky, openings/ annual herb/ Apr-Jun/ 902-4003                 | Not expected to occur on the project site, but has only a high potential to occur in the buffer based on records in the site vicinity, including within 2 miles of the site (CDFW 2015). There is suitable chaparral, scrub, and grassland vegetation present, along with suitable sandy soils. |
| <i>Chorizanthe polygonoides</i> var. <i>longispina</i> | Long-spined spineflower               | None/ None                        | 1B.2              | Chaparral, Coastal scrub, Meadows and seeps, Valley and foothill grassland, Vernal pools/often clay/ annual herb/ Apr-Jul/ 98-5020                    | Not expected to occur on the project site, but has a low potential to occur in the buffer where there is suitable chaparral and coastal scrub with potential unmapped clay soils.   |
| <i>Chorizanthe xanti</i> var. <i>leucotheca</i>        | White-bracted spineflower             | None/ None                        | 1B.2              | Coastal scrub (alluvial fans), Mojavean desert scrub, Pinyon and juniper woodland/sandy or gravelly/ annual herb/                                     | Not expected to occur on the project site, but has a low potential to occur in the buffer where there is suitable   |

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### APPENDIX C (Continued)

**Table C-1**  
**Special-Status Plants Not Observed and with Low Potential or Not Expected to Occur On Site**

| Scientific Name                                    | Common Name                    | Federal/State Status <sup>1</sup> | CRPR <sup>1</sup> | Primary Habitat Associations/Life Form/Blooming Period   | Status on Site or Potential to Occur  |
|--|--------------------------------|-----------------------------------|-------------------|--|---|
|  |                                |                                   |                   | Apr-Jun/ 984-3937  | coastal scrub habitat with sandy soils.   |
| <i>Cuscuta obtusiflora</i> var. <i>glandulosa</i>  | Peruvian dodder                | None/ None                        | 2B.2              | Marshes and swamps (freshwater)/ annual vine (parasitic)/ Jul-Oct/ 49-919  | Not expected to occur. There is no suitable marsh or swamp habitat on site.   |
| <i>Deinandra mohavensis</i>                        | Mojave tarplant                | None/ CE                          | 1B.3              | Chaparral, Coastal scrub, Riparian scrub/mesic/ annual herb/ (May), Jun-Oct(Jan)/ 2100-5249  | Not expected to occur as site is outside known range.   |
| <i>Dodecahema leptoceras</i>                       | Slender-horned spineflower     | FE/ CE                            | 1B.1              | Chaparral, Cismontane woodland, Coastal scrub (alluvial fan)/sandy/ annual herb/ Apr-Jun/ 656-2493   | Not expected to occur. Although there is a possibly extirpated CNDD record overlapping the project site, there is no suitable alluvial fan habitat. |
| <i>Eriastrum densifolium</i> ssp. <i>sanctorum</i> | Santa Ana River woollystar     | FE/ CE                            | 1B.1              | Chaparral, Coastal scrub(alluvial fan)/sandy or gravelly/ perennial herb/ Apr-Sep/ 299-2001  | Not expected to occur as site is outside of known range.  |
| <i>Eriogonum kennedyi</i> var. <i>alpigenum</i>    | Southern alpine buckwheat      | None/ None                        | 1B.3              | Alpine boulder and rock field, Subalpine coniferous forest/granitic, gravelly/ perennial herb/ Jul-Sep/ 8530-11483   | Not expected; the project site is below southern alpine buckwheat's elevation range.  |
| <i>Galium angustifolium</i> ssp. <i>jacinticum</i> | San Jacinto Mountains Bedstraw | None/ None                        | 1B.3              | Lower montane coniferous forest/ perennial herb/ Jun-Aug/ 4429-6890  | Not expected to occur. The site is below San Jacinto Mountains Bedstraw's known elevation range.  |
| <i>Gilia leptantha</i> ssp. <i>leptantha</i>       | San Bernardino gilia           | None/ None                        | 1B.3              | Lower montane coniferous forest(sandy or gravelly)/ annual herb/ Jun-Aug/ 4921-8399  | Not expected to occur. The site is below the species' known elevation range.  |
| <i>Heuchera parishii</i>                           | Parish's alumroot              | None/ None                        | 1B.3              | Alpine boulder and rock field, Lower montane coniferous forest, Subalpine coniferous forest, Upper montane coniferous forest/rocky, sometimes carbonate/ perennial rhizomatous herb/ Jun-Aug/ 4921-12467 | Not expected; the project site is below this species' elevation range.  |

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## APPENDIX C (Continued)

**Table C-1**  
**Special-Status Plants Not Observed and with Low Potential or Not Expected to Occur On Site**

| Scientific Name                                | Common Name                | Federal/State Status <sup>1</sup> | CRPR <sup>1</sup> | Primary Habitat Associations/Life Form/Blooming Period   | Status on Site or Potential to Occur  |
|--|----------------------------|-----------------------------------|-------------------|--|---|
| <i>Horkelia cuneata</i> var. <i>puberula</i>   | Mesa horkelia              | None/ None                        | 1B.1              | Chaparral (maritime), Cismontane woodland, Coastal scrub/sandy or gravelly/ perennial herb/ Feb-Jul(Sep)/ 230-2657   | Not expected to occur on the project site, but has a low potential to occur in the buffer where there is suitable coastal scrub and chaparral habitat with sandy soils. |
| <i>Hulsea vestita</i> ssp. <i>pygmaea</i>      | Pygmy hulsea               | None/ None                        | 1B.3              | Alpine boulder and rock field, Subalpine coniferous forest/granitic, gravelly/ perennial herb/ Jun-Oct/ 9301-12795   | Not expected to occur. The site is outside of the species' known elevation range.   |
| <i>Imperata brevifolia</i>                     | California satintail       | None/ None                        | 2B.1              | Chaparral, Coastal scrub, Mojavean desert scrub, Meadows and seeps (often alkali), Riparian scrub/mesic/ perennial rhizomatous herb/ Sep-May/ 0-3986       | Not expected to occur. The site is outside of the species' known elevation range.   |
| <i>Lasthenia glabrata</i> ssp. <i>coulteri</i> | Coulter's goldfields       | None/ None                        | 1B.1              | Marshes and swamps (coastal salt), Playas, Vernal pools/ annual herb/ Feb-Jun/ 3-4003  | Not expected to occur based on lack of suitable habitat.  |
| <i>Lepechinia cardiophylla</i>                 | Heart-leaved pitcher sage  | None/ None                        | 1B.2              | Closed-cone coniferous forest, Chaparral, Cismontane woodland/ perennial shrub/ Apr-Jul/ 1706-4495   | Not expected to occur. The site is outside of the species' known elevation range.   |
| <i>Lilium pumili</i>                           | Lemon lily                 | None/ None                        | 1B.2              | Lower montane coniferous forest, Meadows and seeps, Riparian forest, Upper montane coniferous forest/mesic/ perennial bulbiferous herb/ Jul-Aug/ 4003-9006 | Not expected; the project site is outside of this species' elevation range.   |
| <i>Mentzelia tricuspidis</i>                   | Spiny-hair blazing star    | None/ None                        | 2B.1              | Mojavean desert scrub/sandy, gravelly, slopes, and washes/ annual herb/ Mar-May/ 492-4199  | Not expected to occur on site as the project site is outside the known range.   |
| <i>Mimulus purpureus</i>                       | Little purple monkeyflower | None/ None                        | 1B.2              | Meadows and seeps, Pebble plain, Upper montane coniferous forest/ annual herb/ May-Jun/ 6234-7546  | Not expected to occur. The site is outside of the species' known elevation range.   |

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## APPENDIX C (Continued)

**Table C-1**  
**Special-Status Plants Not Observed and with Low Potential or Not Expected to Occur On Site**

| Scientific Name                                  | Common Name                       | Federal/State Status <sup>1</sup> | CRPR <sup>1</sup> | Primary Habitat Associations/Life Form/Blooming Period  | Status on Site or Potential to Occur  |
|--|-----------------------------------|-----------------------------------|-------------------|---|---|
| <i>Monardella macrantha</i> ssp. <i>hallii</i>   | Hall's monardella                 | None/ None                        | 1B.3              | Broadleaved upland forest, Chaparral, Cismontane woodland, Lower montane coniferous forest, Valley and foothill grassland/ perennial rhizomatous herb/ Jun-Oct/ 2395-7201 | Not expected to occur on the project site, but has a low potential to occur in the buffer where there is suitable chaparral habitat and grasslands. |
| <i>Nama stenocarpa</i>                           | Mud nama                          | None/ None                        | 2B.2              | Marshes and swamps (lake margins, riverbanks)/ annual / perennial herb/ Jan-Jul/ 16-1640  | Not expected to occur; the project site is outside of this species' elevation range.  |
| <i>Navarretia fossalis</i>                       | Spreading navarretia              | FT/ None                          | 1B.1              | Chenopod scrub, Marshes and swamps (assorted shallow freshwater), Playas, Vernal pools/ annual herb/ Apr-Jun/ 98-2149   | Not expected to occur. The site is outside of the species' known elevation range.   |
| <i>Oxytropis oreophila</i> var. <i>oreophila</i> | Rock-loving oxytrope              | None/ None                        | 2B.3              | Alpine boulder and rock field, Subalpine coniferous forest/gravelly or rocky/ perennial herb/ Jun-Sep/ 11155-12467  | Not expected to occur. The site is outside of the species' known elevation range.   |
| <i>Parnassia cirrata</i> var. <i>cirrata</i>     | San Bernardino grass-of-Parnassus | None/ None                        | 1B.3              | Lower montane coniferous forest, Meadows and seeps, Upper montane coniferous forest/mesic, streamsides, sometimes calcareous/ perennial herb/ Aug-Sep/ 4101-8005          | Not expected to occur. The site is outside of the species' known elevation range.   |
| <i>Sidalcea hickmanii</i> ssp. <i>parishii</i>   | Parish's checkerbloom             | None/ CR                          | 1B.2              | Chaparral, Cismontane woodland, Lower montane coniferous forest/ perennial herb/ Jun-Aug/ 3281-8199   | Not expected to occur. The site is outside of the species' known elevation range.   |
| <i>Sidalcea neomexicana</i>                      | Salt spring checkerbloom          | None/ None                        | 2B.2              | Chaparral, Coastal scrub, Lower montane coniferous forest, Mojavean desert scrub, Playas/alkaline, mesic/ perennial herb/ Mar-Jun/ 49-5020                                | Not expected to occur. The site is outside of the species' known elevation range..  |

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## APPENDIX C (Continued)

**Table C-1**  
**Special-Status Plants Not Observed and with Low Potential or Not Expected to Occur On Site**

| Scientific Name                                    | Common Name            | Federal/State Status <sup>1</sup> | CRPR <sup>1</sup> | Primary Habitat Associations/Life Form/Blooming Period  | Status on Site or Potential to Occur  |
|--|------------------------|-----------------------------------|-------------------|---|---|
| <i>Streptanthus campestris</i>                     | Southern jewel-flower  | None/ None                        | 1B.3              | Chaparral, Lower montane coniferous forest, Pinyon and juniper woodland/rocky/ perennial herb/ (Apr), May-Jul/ 2953-7546  | Not expected to occur. The site is outside of the species' known elevation range. |
| <i>Symphytotrichum defoliatum</i>                  | San Bernardino aster   | None/ None                        | 1B.2              | Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Meadows and seeps, Marshes and swamps, Valley and foothill grassland(vernally mesic)/near ditches, streams, springs/ perennial rhizomatous herb/ Jul-Nov/ 7-6693 | Not expected to occur. The site is outside of the species' known elevation range. |
| <i>Tortula californica</i>                         | California screw-moss  | None/ None                        | 1B.2              | Chenopod scrub, Valley and foothill grassland/sandy, soil/ moss/ N.A./ 33-4790  | Not expected to occur. The site is outside of the species' known elevation range. |
| <i>Trichocoronis wrightii</i> var. <i>wrightii</i> | Wright's trichocoronis | None/ None                        | 2B.1              | Meadows and seeps, Marshes and swamps, Riparian forest, Vernal pools/alkaline/ annual herb/ May-Sep/ 16-1427  | Not expected to occur. The site is outside of the species' known elevation range. |

<sup>1</sup> Regulatory Status (CDFW 2015; CNPS 2015)

**Federal Designations**

FE: Species listed as endangered by USFWS

FT: Species listed as threatened by USFWS

**State Designations**

CE: State endangered

CT: State threatened

CR: State Rare

**CRPR (California Rare Plant Rank)**

CRPR 1B: Plants Rare, Threatened, or Endangered in California and Elsewhere

CRPR 2B: Plants Rare, Threatened, or Endangered in California, But More Common Elsewhere

1 Seriously threatened in California (over 80% of occurrences threatened / high degree and immediacy of threat)

2 Moderately threatened in California (20-80% occurrences threatened / moderate degree and immediacy of threat)

3 Not very threatened in California (<20% of occurrences threatened / low degree and immediacy of threat or no current threats known)

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## APPENDIX C (Continued)

**Table C-2**  
**Special-Status Wildlife Species Observed or Potentially Occurring in Project Area**

| Scientific Name                                 | Common Name                          | Status<br>Federal/ State      | Primary Habitat Associations   | Status on Site or Potential to Occur   |
|---|--------------------------------------|-------------------------------|--|--|
| <i>Amphibians</i>                               |                                      |                               |  |  |
| <i>Anaxyrus californicus</i>                    | Arroyo toad                          | FE/ SSC                       | Semi-arid areas near washes, sandy riverbanks, riparian areas, palm oasis, Joshua tree, mixed chaparral and sagebrush; stream channels for breeding (typically 3rd order); adjacent stream terraces and uplands for foraging and wintering | Not expected to occur. No suitable stream habitat.   |
| <i>Taricha torosa</i> (Monterey Co. south only) | California newt                      | None/ SSC (Monterey Co south) | Wet forests, oak forests, chaparral, and rolling grassland   | Not expected to occur. No suitable stream habitat for breeding.  |
| <i>Rana draytonii</i>                           | California red-legged frog           | FT/ SSC                       | Lowland streams, wetlands, riparian woodlands, livestock ponds; dense, shrubby or emergent vegetation associated with deep, still or slow-moving water; uses adjacent uplands  | Not expected to occur. No suitable habitat in Project area.  |
| <i>Rana muscosa</i>                             | Southern mountain yellow-legged frog | FE/ SE, SSC                   | Lakes, ponds, meadow streams, isolated pods and open riverbanks; rocky canyons in narrow canyons and in chaparral  | Not expected to occur. No suitable habitat in Project area.  |
| <i>Spea hammondi</i>                            | Western spadefoot                    | None/ SSC                     | Primarily grassland and vernal pools, but also in ephemeral wetlands that persist at least 3 weeks in chaparral, coastal scrub, valley-foothill woodlands, pastures, and other agriculture   | Not expected to occur in project site, and has only a low potential to occur in buffer because not likely that any rain pools would persist more than 3 weeks with the sandy soils observed. |
| <i>Reptiles</i>                                 |                                      |                               |  |  |
| <i>Phrynosoma blainvillii</i>                   | Blainville's horned lizard           | None/ SSC                     | Open areas of sandy soil in valleys, foothills and semi-arid mountains including coastal scrub, chaparral, valley-foothill hardwood, conifer, riparian, pine-cypress, juniper and annual grassland   | Not expected to occur in project site, but has moderate potential to occur in sage scrub, chaparral, and grasslands adjacent to project site.  |

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## APPENDIX C (Continued)

**Table C-2**  
**Special-Status Wildlife Species Observed or Potentially Occurring in Project Area**

| Scientific Name                         | Common Name   | Status<br>Federal/ State | Primary Habitat Associations   | Status on Site or Potential to Occur   |
|---|---|--------------------------|--|--|
| <i>Lampropeltis zonata (parvirubra)</i> | California mountain kingsnake (San Bernardino population) | None/ SSC                | Wide range of habitats including conifer forest, oak-pine woodlands, riparian woodland, chaparral, manzanita and coastal scrub                                 | Not expected to occur in project site, but has moderate potential to occur in sage scrub and chaparral adjacent to project site. |
| <i>Lampropeltis zonata (pulchra)</i>    | California mountain kingsnake (San Diego population)      | None/ SSC                | Habitat generalist found in habitats ranging from conifer forest, oak-pine woodlands, riparian woodland, chaparral, manzanita and coastal scrub                | Not expected to occur because outside known range.   |
| <i>Salvadora hexalepis virgulata</i>    | Coast patch-nosed snake                                   | None/ SSC                | Brushy or shrubby vegetation; requires small mammal burrows for refuge and overwintering sites   | Not expected to occur in project site, and only low potential to occur in sage scrub and chaparral adjacent to project site.     |
| <i>Aspidoscelis hyperythra</i>          | Orangethroat whiptail                                     | None/ SSC                | Low-elevation coastal scrub, chaparral, and valley-foothill hardwood   | Moderate potential to occur in Riversidean sage scrub and chaparral adjacent to project site.                                    |
| <i>Crotalus ruber</i>                   | Red diamondback rattlesnake                               | None/ SSC                | Coastal scrub, chaparral, oak and pine woodlands, rocky grasslands, cultivated areas, and desert flats   | Moderate potential to occur in habitat adjacent to the project site.   |
| <i>Anniella pulchra pulchra</i>         | Silvery legless lizard                                    | None/ SSC                | Stabilized dunes, beaches, dry washes, chaparral, scrubs, pine, oak, and riparian woodlands; associated with sparse vegetation and sandy or loose, loamy soils | Not expected to occur in project site, but has moderate potential to occur in sage scrub and chaparral adjacent to project site. |
| <i>Thamnophis hammondi</i>              | Two-striped gartersnake                                   | None/ SSC                | Streams, creeks, ponds, streams with rocky beds, ponds, lakes, vernal pools  | Not expected to occur. No suitable streams and creeks in Project area and no vernal pools available.                             |
| <i>Actinemys marmorata</i>              | Western pond turtle                                       | None/ SSC                | Slow-moving permanent or intermittent streams, ponds, small lakes, reservoirs with emergent basking sites; adjacent uplands used for nesting and during winter | Not expected to occur. No suitable streams and creeks in Project area  |

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## APPENDIX C (Continued)

**Table C-2**  
**Special-Status Wildlife Species Observed or Potentially Occurring in Project Area**

| Scientific Name   | Common Name                    | Status<br>Federal/ State | Primary Habitat Associations  | Status on Site or Potential to Occur   |
|---|--------------------------------|--------------------------|---|--|
| <i>Birds</i>  |                                |                          |   |  |
| <i>Falco peregrinus anatum</i><br>(nesting)                     | American peregrine falcon      | None/FP                  | Nests on cliffs, buildings, and bridges; forages in wetlands, riparian, meadows, croplands, especially where waterfowl are present  | Low potential to occasionally forage in agriculture in Project area. No nesting habitat available.   |
| <i>Haliaeetus leucocephalus</i><br>(nesting & wintering)        | Bald eagle                     | None/SE, FP              | Nests in forested areas adjacent to large bodies of water, including seacoasts, rivers, swamps, large lakes; winters near large bodies of water in lowlands and mountains   | No suitable nesting habitat in Project area.   |
| <i>Cypseloides niger</i> (nesting)                              | Black swift                    | None/SSC                 | Nests in moist crevices, caves, and cliffs behind or adjacent to waterfalls in deep canyons; forages over a wide range of habitats  | Not expected to occur. The site is outside of the species' known geographic range.   |
| <i>Athene cunicularia</i> (burrow sites & some wintering sites) | Burrowing owl                  | None/ SSC                | Nests and forages in grassland, open scrub, and agriculture, particularly with ground squirrel burrows.   | Moderate potential to occur in non-native grassland and fallow agriculture areas adjacent to portions of the project site.   |
| <i>Polioptila californica californica</i>                       | Coastal California gnatcatcher | FT/ SSC                  | Nests and forages in various sage scrub communities, often dominated by California sagebrush and buckwheat; generally avoids nesting in areas with a slope of greater than 40%; majority of nesting at less than 1,000 ft in elevation            | Not expected to occur in the project site, and has only a low potential to occur in the buffer where sage scrub habitat is present as this site is on the fringe of its known range. |
| <i>Aquila chrysaetos</i> (nesting & wintering)                  | Golden eagle                   | None/ FP, WL             | Nests and winters in hilly, open/semi-open areas, including shrublands, grasslands, pastures, riparian areas, mountainous canyon land, open desert rimrock terrain; nests in large trees and on cliffs in open areas and forages in open habitats | Moderate potential to occasionally forage in areas adjacent to the project site.   |

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## APPENDIX C (Continued)

**Table C-2**  
**Special-Status Wildlife Species Observed or Potentially Occurring in Project Area**

| Scientific Name                             | Common Name                    | Status<br>Federal/ State | Primary Habitat Associations  | Status on Site or Potential to Occur  |
|---|--------------------------------|--------------------------|---|---|
| <i>Toxostoma lecontei</i>                   | Le Conte's thrasher            | None/ SSC                | Nests and forages in desert wash, desert scrub, alkali desert scrub, desert succulent, and Joshua tree; nests in spiny shrubs or cactus   | Not expected to occur. The site is outside of the species' known geographic range.                                  |
| <i>Vireo bellii pusillus (nesting)</i>      | Least Bell's vireo             | FE/ SE                   | Nests and forages in low, dense riparian thickets along water or along dry parts of intermittent streams; forages in riparian and adjacent shrubland late in nesting season   | Not expected to occur. No suitable riparian habitat in Project area.  |
| <i>Lanius ludovicianus (nesting)</i>        | Loggerhead shrike              | None/ SSC                | Nests and forages in open habitats with scattered shrubs, trees, or other perches   | Not expected to occur in project site, but has a moderate potential to occur in adjacent areas.                     |
| <i>Charadrius montanus (wintering)</i>      | Mountain plover                | None/ SSC                | Winters in shortgrass prairies, plowed fields, open sagebrush and sandy deserts   | Low potential to occur in agricultural areas.   |
| <i>Circus cyaneus (nesting)</i>             | Northern harrier               | None/ SSC                | Nests in open wetlands including marshy meadows, wet lightly-grazed pastures, old fields, freshwater and brackish marshes, but also in drier habitats such as grassland and grain fields; forages in variety of habitats, including grassland, scrubs, rangelands, emergent wetlands, and other open habitats | No suitable nesting habitat in Project area. Low potential to forage in agriculture and grasslands in Project area. |
| <i>Progne subis (nesting)</i>               | Purple martin                  | None/ SSC                | Nest and forages in woodland habitats including riparian, coniferous, and valley foothill and montane woodlands; in the Sacramento region often nests in weep holes under elevated freeways   | No suitable habitat in Project area.  |
| <i>Empidonax traillii eximius (nesting)</i> | Southwestern willow flycatcher | FE/ SE                   | Nests in dense riparian habitats along streams, reservoirs, or wetlands; uses variety of riparian and shrubland habitats during migration   | Not expected to occur. No suitable riparian habitat in Project area.  |

DUDEK

C-11

3163-32  
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## APPENDIX C (Continued)

**Table C-2**  
**Special-Status Wildlife Species Observed or Potentially Occurring in Project Area**

| Scientific Name                                   | Common Name                  | Status<br>Federal/ State | Primary Habitat Associations  | Status on Site or Potential to Occur  |
|---|------------------------------|--------------------------|---|---|
| <i>Buteo swainsoni</i> (nesting)                  | Swainson's hawk              | None/ ST                 | Nests in open woodland and savanna, riparian and in isolated large trees; forages in nearby grasslands and agricultural areas such as wheat and alfalfa fields and pasture              | Outside of breeding range. Low potential to occasionally forage in open grassland habitat in migration.                           |
| <i>Agelaius tricolor</i> (nesting colony)         | Tricolored blackbird         | None/ SSC                | Nests near fresh water, emergent wetland with cattails or tules, but also in Himalayan blackberry; forages in grasslands, woodland, and agriculture                                     | Not expected occur in Project area. No suitable nesting habitat.  |
| <i>Coccyzus americanus occidentalis</i> (nesting) | Western yellow-billed cuckoo | FT/SE                    | Nests dense, wide riparian woodlands and forest with well-developed understories  | No expected to occur as there is no suitable habitat in Project area.   |
| <i>Elanus leucurus</i> (nesting)                  | White-tailed kite            | None/ FP                 | Nests in woodland, riparian, and individual trees near open lands; forages opportunistically in grassland, meadows, scrubs, agriculture, emergent wetland, savanna, and disturbed lands | No nesting habitat available. Low potential to occasionally forage in agriculture and grassland habitat adjacent to project site. |
| <i>Setophaga petechia</i> (nesting)               | Yellow warbler               | None/ SSC                | Nests and forages in riparian and oak woodlands, montane chaparral, open ponderosa pine and mixed conifer habitats  | Not expected to occur as a breeder. No suitable riparian habitat in Project area.   |
| <i>Icteria virens</i> (nesting)                   | Yellow-breasted chat         | None/ SSC                | Nests and forages in dense, relatively wide riparian woodlands and thickets of willows, vine tangles and dense brush  | Not expected to occur. No suitable riparian habitat in Project area.  |
| <i>Fishes</i>                                     |                              |                          |   |   |
| <i>Gila orcuttii</i>                              | Arroyo chub                  | None/ SSC                | Warm, fluctuating streams with slow-moving or backwater sections of warm to cool streams at depths >40 centimeters; substrates of sand or mud   | Not expected to occur. The site is outside of the species' known geographic range.  |
| <i>Rhinichthys osculus</i> ssp. 3                 | Santa Ana speckled dace      | None/ SSC                | Headwaters of the Santa Ana and San Gabriel rivers. May be extirpated from the Los Angeles River system.  | Not expected to occur. The site is outside of the species' known geographic range.  |

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## APPENDIX C (Continued)

**Table C-2**  
**Special-Status Wildlife Species Observed or Potentially Occurring in Project Area**

| Scientific Name                            | Common Name                         | Status<br>Federal/ State | Primary Habitat Associations   | Status on Site or Potential to Occur  |
|--|-------------------------------------|--------------------------|--|---|
| <i>Catostomus santaanae</i>                | Santa Ana sucker                    | FT/ SSC                  | Small, shallow, cool, clear streams less than 7 meters in width and a few centimeters to more than a meter in depth; substrates are generally coarse gravel, rubble and boulder                                      | Not expected to occur. The site is outside of the species' known geographic range.                |
| <i>Mammals</i>                             |                                     |                          |  |   |
| <i>Taxidea taxus</i>                       | American badger                     | None/ SSC                | Dry, open, treeless areas; grasslands, coastal scrub, agriculture, pastures, especially with friable soils   | Not expected to occur in project site, but has a moderate potential to occur in adjacent areas.   |
| <i>Chaetodipus californicus femoralis</i>  | Dulzura pocket mouse                | None/ SSC                | Open habitat, coastal scrub, chaparral, oak woodland, chamise chaparral, mixed conifer habitats; disturbance specialist; 0 to 3,000 ft   | Not expected to occur in project site, but has a moderate potential to occur in adjacent areas.   |
| <i>Leptonycteris yerbabuenae</i>           | Lesser long-nosed bat               | FE/ None                 | Sonoran desert scrub, semi-desert grasslands, lower oak woodlands  | Not expected to occur. The Project site lacks suitable cave habitat.                              |
| <i>Perognathus longimembris brevinasus</i> | Los Angeles pocket mouse            | None/ SSC                | Lower elevation grassland, alluvial sage scrub, and coastal scrub  | Not expected to occur in project site, but has a moderate potential to occur in adjacent areas.   |
| <i>Chaetodipus fallax fallax</i>           | Northwestern San Diego pocket mouse | None/ SSC                | Coastal scrub, mixed chaparral, sagebrush, desert wash, desert scrub, desert succulent shrub, pinyon-juniper, and annual grassland   | Not expected to occur in project site, but has a high potential to occur in adjacent areas.       |
| <i>Antrozous pallidus</i>                  | Pallid bat                          | None/ SSC                | Grasslands, shrublands, woodlands, forests; most common in open dry habitats with rocky outcrops for roosting, but also roosts in man-made structures and trees  | No roosting habitat available. May occasionally forage in agricultural areas in Project area.     |
| <i>Nyctinomops femorosaccus</i>            | Pocketed free-tailed bat            | None/ SSC                | Pinyon-juniper woodlands, desert scrub, desert succulent shrub, desert riparian, desert wash, alkali desert scrub, Joshua tree, palm oases; roosts in high cliffs or rock outcrops with dropoffs, caverns, buildings | No roosting habitat available. Low potential to forage in and agricultural areas in Project area. |

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3163-32  
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## APPENDIX C (Continued)

**Table C-2**  
**Special-Status Wildlife Species Observed or Potentially Occurring in Project Area**

| Scientific Name                        | Common Name                       | Status<br>Federal/ State | Primary Habitat Associations  | Status on Site or Potential to Occur   |
|--|-----------------------------------|--------------------------|---|--|
| <i>Glaucomys sabrinus californicus</i> | San Bernardino flying squirrel    | None/ SSC                | Coniferous and deciduous forests including riparian forests   | Not expected to occur. The site is outside of the species' known geographic range.   |
| <i>Dipodomys merriami parvus</i>       | San Bernardino kangaroo rat       | FE/ SSC                  | Sparse scrub habitat, alluvial scrub/coastal scrub habitats on gravelly and sandy soils near river and stream terraces  | No suitable habitat in Project area and is outside known geographic range.   |
| <i>Lepus californicus bennettii</i>    | San Diego black-tailed jackrabbit | None/ SSC                | Arid habitats with open ground; grasslands, coastal scrub, agriculture, disturbed areas, and rangelands   | Not expected to occur in project site, but has a moderate potential to occur in adjacent areas.  |
| <i>Neotoma lepida intermedia</i>       | San Diego desert woodrat          | None/ SSC                | Coastal scrub, desert scrub, chaparral, cacti, rocky areas  | Not expected to occur in project site, but has a moderate potential to occur in adjacent areas.  |
| <i>Onychomys torridus ramona</i>       | Southern grasshopper mouse        | None/ SSC                | Grassland and sparse coastal scrub  | Not expected to occur in project site, but has a moderate potential to occur in adjacent areas.  |
| <i>Dipodomys stephensi</i>             | Stephens' kangaroo rat            | FE/ ST                   | Annual and perennial grassland habitats, coastal scrub or sagebrush with sparse canopy cover or in disturbed areas  | Not expected. No suitable natural habitat in Project area.   |
| <i>Corynorhinus townsendii</i>         | Townsend's big-eared bat          | None/ SC, SSC            | Mesic habitats characterized by coniferous and deciduous forests and riparian habitat, but also xeric areas; roosts in limestone caves and lava tubes, also man-made structures and tunnels                   | No roosting habitat available. May rarely forage in agricultural areas in Project area.  |
| <i>Eumops perotis californicus</i>     | Western mastiff bat               | None/ SSC                | Chaparral, coastal and desert scrub, coniferous and deciduous forest and woodland; roosts in crevices in rocky canyons and cliffs where the canyon or cliff is vertical or nearly vertical, trees and tunnels | No roosting habitat available. May occasionally forage in agricultural areas in Project area. CNDDB record within 5 miles of Project area. |

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## APPENDIX C (Continued)

**Table C-2**  
**Special-Status Wildlife Species Observed or Potentially Occurring in Project Area**

| Scientific Name                 | Common Name              | Status<br>Federal/ State | Primary Habitat Associations   | Status on Site or Potential to Occur   |
|---------------------------------|--------------------------|--------------------------|--|--|
| <i>Lasiurus xanthinus</i>       | Western yellow bat       | None/ SSC                | Valley foothill riparian, desert riparian, desert wash, and palm oasis habitats; below 2,000 ft; roost in riparian and palms | No roosting habitat available. May occasionally forage in agricultural areas in Project area. CNDDB record within 5 miles of Project area. |
| <i>Invertebrates</i>            |                          |                          |  |  |
| <i>Streptocephalus woottoni</i> | Riverside fairy shrimp   | FE/ None                 | Vernal pools, non-vegetated ephemeral pools  | Not expected to occur as suitable vernal pools appear absent from Project area.  |
| <i>Branchinecta lynchi</i>      | Vernal pool fairy shrimp | FT/ None                 | Vernal pools, seasonally ponded areas within vernal swales, and ephemeral freshwater habitats                                | Not expected to occur as suitable vernal pools appear absent from Project area.  |

## Federal Designations:

FD Federally Delisted  
 FE Federally listed Endangered  
 FT Federally listed as Threatened

## State Designations:

SSC California Special Concern Species  
 FP CDFG Protected and Fully Protected Species  
 SE State-listed as Endangered  
 ST State-listed as Threatened

DUDEK

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3163-32  
January 2016



Print Form

Appendix C

**Notice of Completion & Environmental Document Transmittal**

Mail to: State Clearinghouse, P.O. Box 3044, Sacramento, CA 95812-3044 (916) 445-0613  
 For Hand Delivery/Street Address: 1400 Tenth Street, Sacramento, CA 95814

SCH #2003091108

**Project Title:** Calimesa Regional Recycled Water Project**Lead Agency:** Yucaipa Valley Water District**Contact Person:** Joseph Zoba**Mailing Address:** P.O. Box 730**Phone:** 909-797-5119**City:** Yucaipa**Zip:** 92399**County:** San Bernardino**Project Location:** County: San Bernardino, Riverside City/Nearest Community: Yucaipa, Calimesa**Cross Streets:** Multiple**Zip Code:** 92399**Longitude/Latitude (degrees, minutes and seconds):** 33 ° 59 ' 39 " N / 117 ° 01 ' 32 " W **Total Acres:****Assessor's Parcel No.:** Not Applicable**Section:** 10-14**Twp.:** 2S**Range:** 2/3W**Base:** El Casco**Within 2 Miles:** State Hwy #: 10**Waterways:** San Timoteo Creek**Airports:** N/A**Railways:** Union Pacific Railroad**Schools:** Various**Document Type:****CEQA:**☐ NOP☐ Early Cons☐ Neg Dec☐ Mit Neg Dec☐ Draft EIR☐ Supplement/Subsequent EIR

(Prior SCH No.) 2003091108

**Other:** Addendum**NEPA:**☐ NOI☐ EA☐ Draft EIS☐ FONSI**Other:**☐ Joint Document☐ Final Document☐ Other:**Local Action Type:**☐ General Plan Update☐ General Plan Amendment☐ General Plan Element☐ Community Plan☐ Specific Plan☐ Master Plan☐ Planned Unit Development☐ Site Plan☐ Rezone☐ Prezone☐ Use Permit☐ Land Division (Subdivision, etc.)☐ Annexation☐ Redevelopment☐ Coastal Permit☒ Other:**Development Type:**☐ Residential: Units

Acres

☐ Office: Sq.ft.

Acres

Employees

☐ Commercial: Sq.ft.

Acres

Employees

☐ Industrial: Sq.ft.

Acres

Employees

☐ Educational:☐ Recreational:☒ Water Facilities: Type Recycled Water

MGD

☐ Transportation: Type☐ Mining: Mineral☐ Power: Type☐ Waste Treatment: Type☐ Hazardous Waste: Type☐ Other:**Project Issues Discussed in Document:**☒ Aesthetic/Visual☐ Agricultural Land☒ Air Quality☒ Archeological/Historical☒ Biological Resources☐ Coastal Zone☐ Drainage/Absorption☐ Economic/Jobs☐ Fiscal☐ Flood Plain/Flooding☐ Forest Land/Fire Hazard☒ Geologic/Seismic☐ Minerals☒ Noise☐ Population/Housing Balance☒ Public Services/Facilities☐ Recreation/Parks☐ Schools/Universities☐ Septic Systems☐ Sewer Capacity☐ Soil Erosion/Compaction/Grading☐ Solid Waste☐ Toxic/Hazardous☒ Traffic/Circulation☐ Vegetation☒ Water Quality☐ Water Supply/Groundwater☐ Wetland/Riparian☐ Growth Inducement☒ Land Use☐ Cumulative Effects☒ Other: Socioeconomics**Present Land Use/Zoning/General Plan Designation:**

Various

**Project Description:** (please use a separate page if necessary)

The proposed project construct approximately 18,500 linear feet of recycled water pipeline to connect Yucaipa Valley Water District's recycled water distribution system to Beaumont Cherry Valley Water District's (BCVWD) non-potable water pipeline, and will allow delivery of recycled water between the two agencies. Water will be delivered to customers within BCVWD's service area.

Note: The State Clearinghouse will assign identification numbers for all new projects. If a SCH number already exists for a project (e.g. Notice of Preparation or previous draft document) please fill in.

Revised 2010



**Reviewing Agencies Checklist**

Lead Agencies may recommend State Clearinghouse distribution by marking agencies below with an "X".  
If you have already sent your document to the agency please denote that with an "S".

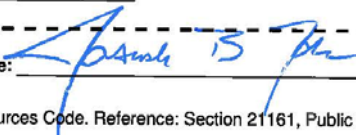
|  |  |
|--|--|
| <input checked="" type="checkbox"/> Air Resources Board              | <input type="checkbox"/> Office of Historic Preservation                     |
| <input type="checkbox"/> Boating & Waterways, Department of          | <input type="checkbox"/> Office of Public School Construction                |
| <input type="checkbox"/> California Emergency Management Agency      | <input type="checkbox"/> Parks & Recreation, Department of                   |
| <input type="checkbox"/> California Highway Patrol                   | <input type="checkbox"/> Pesticide Regulation, Department of                 |
| <input checked="" type="checkbox"/> Caltrans District #8             | <input type="checkbox"/> Public Utilities Commission                         |
| <input type="checkbox"/> Caltrans Division of Aeronautics            | <input checked="" type="checkbox"/> Regional WQCB #8                         |
| <input type="checkbox"/> Caltrans Planning                           | <input type="checkbox"/> Resources Agency                                    |
| <input type="checkbox"/> Central Valley Flood Protection Board       | <input type="checkbox"/> Resources Recycling and Recovery, Department of     |
| <input type="checkbox"/> Coachella Valley Mtns. Conservancy          | <input type="checkbox"/> S.F. Bay Conservation & Development Comm.           |
| <input type="checkbox"/> Coastal Commission                          | <input type="checkbox"/> San Gabriel & Lower L.A. Rivers & Mtns. Conservancy |
| <input type="checkbox"/> Colorado River Board                        | <input type="checkbox"/> San Joaquin River Conservancy                       |
| <input type="checkbox"/> Conservation, Department of                 | <input type="checkbox"/> Santa Monica Mtns. Conservancy                      |
| <input type="checkbox"/> Corrections, Department of                  | <input type="checkbox"/> State Lands Commission                              |
| <input type="checkbox"/> Delta Protection Commission                 | <input checked="" type="checkbox"/> SWRCB: Clean Water Grants                |
| <input type="checkbox"/> Education, Department of                    | <input checked="" type="checkbox"/> SWRCB: Water Quality                     |
| <input type="checkbox"/> Energy Commission                           | <input type="checkbox"/> SWRCB: Water Rights                                 |
| <input checked="" type="checkbox"/> Fish & Game Region #6            | <input type="checkbox"/> Tahoe Regional Planning Agency                      |
| <input type="checkbox"/> Food & Agriculture, Department of           | <input type="checkbox"/> Toxic Substances Control, Department of             |
| <input type="checkbox"/> Forestry and Fire Protection, Department of | <input checked="" type="checkbox"/> Water Resources, Department of           |
| <input type="checkbox"/> General Services, Department of             |  |
| <input type="checkbox"/> Health Services, Department of              | Other: _____   |
| <input type="checkbox"/> Housing & Community Development             | Other: _____   |
| <input type="checkbox"/> Native American Heritage Commission         |  |

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**Local Public Review Period (to be filled in by lead agency)**

Starting Date January 25, 2016 Ending Date February 8, 2016

-----  
**Lead Agency (Complete if applicable):**

|   |   |
|---|---|
| Consulting Firm: <u>RMC Water and Environment</u> | Applicant: <u>Yucaipa Valley Water District</u> |
| Address: <u>15510-C Rockfield Blvd, Ste. 200</u>  | Address: <u>12770 Second Street</u>             |
| City/State/Zip: <u>Irvine, CA 92616</u>           | City/State/Zip: <u>Yucaipa, CA 92399</u>        |
| Contact: <u>Scott Goldman</u>                     | Phone: <u>909-797-5119</u>                      |
| Phone: <u>949-420-5314</u>                        |   |

-----  
**Signature of Lead Agency Representative:**

**Date:** 1/20/2016

Authority cited: Section 21083, Public Resources Code. Reference: Section 21161, Public Resources Code.

Revised 2010



**Date:** March 16, 2016

**Prepared By:** Joseph Zoba, General Manager

**Subject:** Discussion Regarding Regional Imported Water Supply Issues, Goals and Solutions in the San Gorgonio Pass Area

**Recommendation:** Pending

At the Yucaipa Valley Water District board workshop on February 9, 2016, the Board of Directors decided to continue the discussion regarding Resolution No. 2016-10 until April 20, 2016.

At the board meeting on February 17, 2016, the Board of Directors authorized the District staff to schedule a public meeting with elected officials from the San Gorgonio Pass area to discuss regional water issues. A public meeting was scheduled for Thursday, March 10, 2016 at 6:00 pm. The meeting was hosted by the Beaumont Cherry Valley Water District and invitations were sent to the following entities:

- Banning Heights Mutual Water Company
- Beaumont Cherry Valley Water District
- Cabazon Water District
- City of Banning
- City of Beaumont
- City of Calimesa
- High Valleys Water District
- San Gorgonio Pass Water Agency
- South Mesa Mutual Water Company
- Yucaipa Valley Water District

The email message encouraged representatives from these agencies to invite other interested parties not included in the original email invitation.

On Thursday, March 10, 2016, the Special Meeting of the Board of Directors was conducted and the discussion by all participants seemed to be very productive and informative. The District staff recognized the following two points of consensus at the meeting:



Yucaipa Valley Water District

12770 Second Street, Yucaipa, California 92399 Phone: (909) 797-5117

**Notice and Call of a Special Meeting  
of the Board of Directors at the  
Beaumont Cherry Valley Water District  
560 Magnolia Avenue, Beaumont, California 92223**

Thursday, March 10, 2016 at 6:00 PM

**NOTICE IS HEREBY GIVEN** that a Special Meeting of the Board of Directors of the Yucaipa Valley Water District will be held on March 10, 2016, at 6:00 pm, at the Beaumont Cherry Valley Water District located at the address above. The following business will be transacted and is the Agenda for this Special Meeting:

**AGENDA**

1. Call Meeting to Order
2. Welcome and Introductions
3. Public Comment - *At this time, members of the public may provide general comments. To provide comments on specific agenda items, please complete a speaker's request form and submit the completed form to the Board Secretary before that agenda item.*
4. Discussion of Regional Water Supply Issues, Concepts, and Solutions
5. Discussion of Opportunities to Work Together to Resolve Issues
6. Discussion of a Facilitated Process to Resolve Issues
7. Topics for Future Meetings
8. Next Meeting Date and Time
9. Adjournment

Any person with a disability who requires accommodation in order to participate in this meeting contact the Beaumont Cherry Valley Water District at (951) 845-0159 at least 48 hours prior to the scheduled meeting.

- That the elected officials from the local water agencies had a strong desire to continue discussions without the use of an outside consultant at this time; and
- That the elected officials would like to focus on the creation of a methodology and public policy that provides a reasonable manner to distribute the existing San Gorgonio Pass Water Agency entitlement of 17,300 acre feet per year to all retail water partners.

A future meeting with the San Gorgonio Pass Water Agency and the water retailers in the area will be scheduled in the near future to further discuss the distribution of imported water in the region.

The purpose of this board meeting item is as follows:

1. To provide an opportunity for the Board of Directors, District staff and the public to discuss the special meeting held on March 10, 2016;
2. To determine if there are other points of consensus between the water agencies in the area or correct the interpretation of the meeting by the District staff as discussed above; and
3. Provide direction to the District staff regarding ways to promote positive and sustainable solutions to the water shortages in the area of the San Gorgonio Pass Water Agency.

# Director Comments



Yucaipa Valley Water District

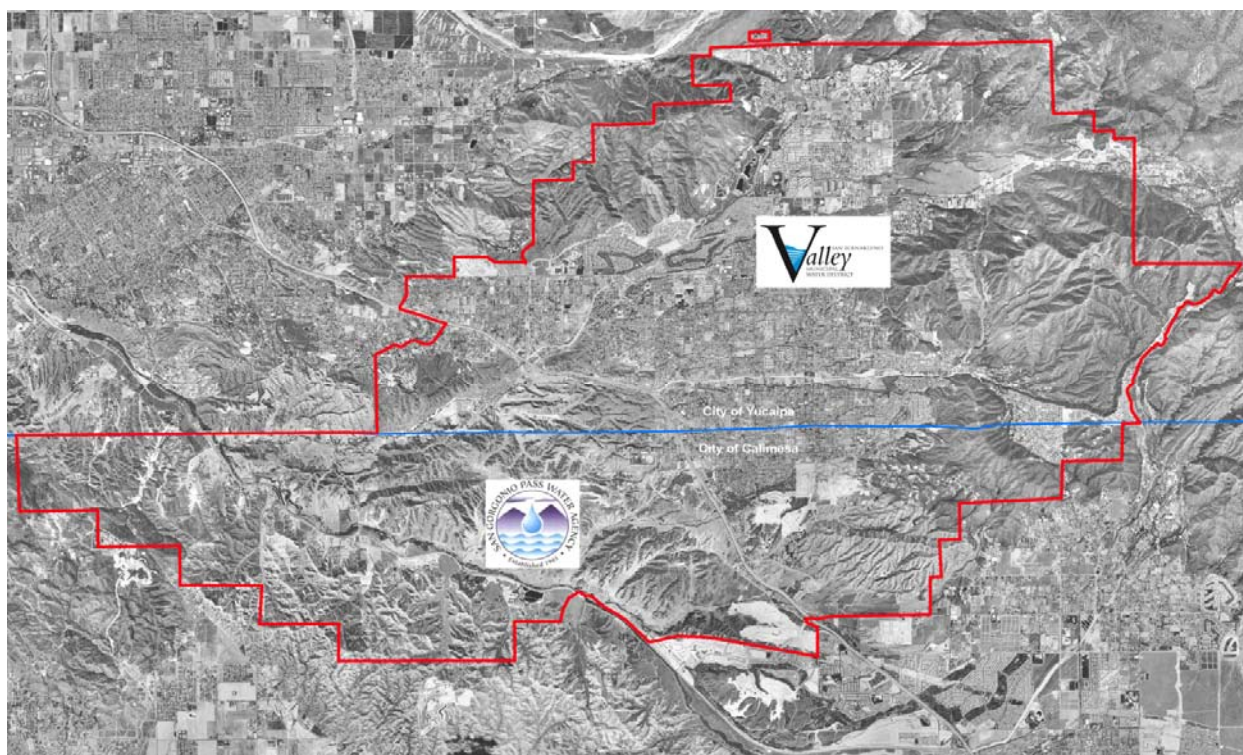


## FACTS ABOUT THE YUCAIPA VALLEY WATER DISTRICT

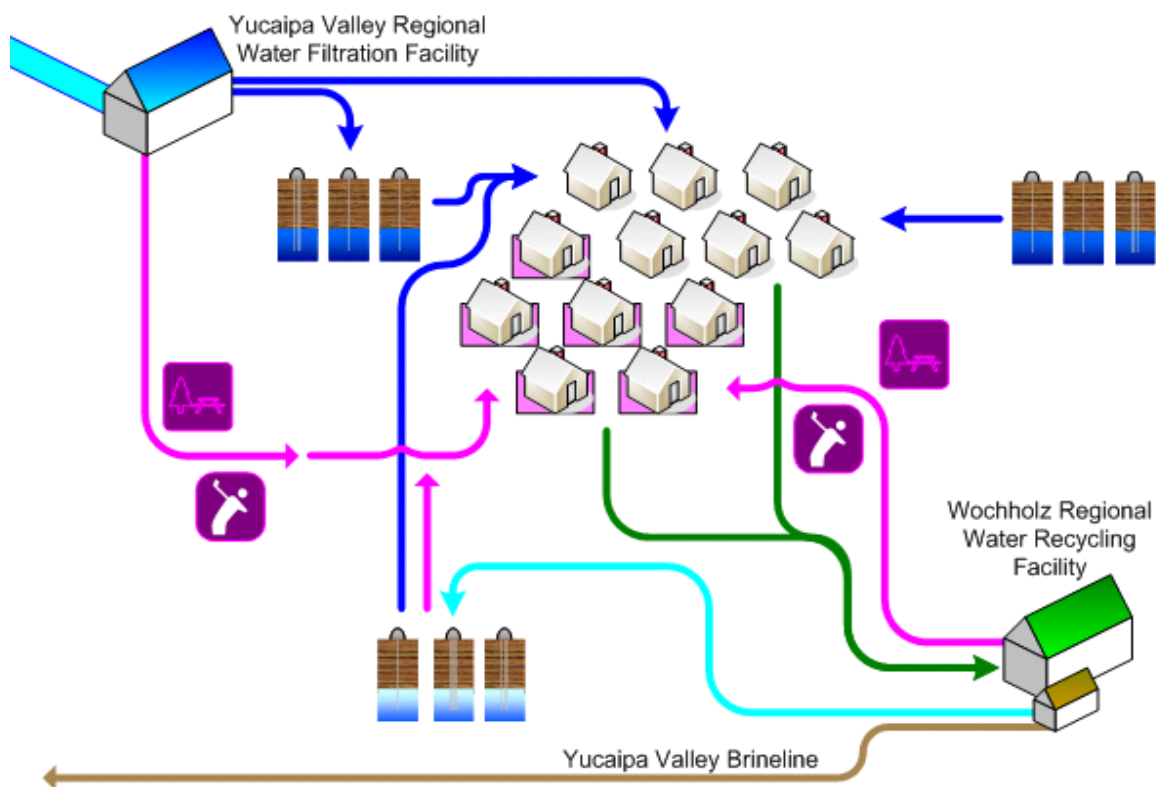
|                             |   |
|-----------------------------|---|
| <b>Service Area Size:</b>   | 40 square miles (sphere of influence is 68 square miles)  |
| <b>Elevation Change:</b>    | 3,140 foot elevation change (from 2,044 to 5,184 feet)  |
| <b>Number of Employees:</b> | 5 elected board members<br>62 full time employees   |
| <b>Operating Budget:</b>    | Water Division - \$13,397,500<br>Sewer Division - \$11,820,000<br>Recycled Water Division - \$537,250<br>Total Annual Budget - \$25,754,750   |
| <b>Number of Services:</b>  | 12,434 water connections serving 17,179 units<br>13,559 sewer connections serving 20,519 units<br>64 recycled water connections   |
| <b>Water System:</b>        | 215 miles of drinking water pipelines<br>27 reservoirs - 34 million gallons of storage capacity<br>18 pressure zones<br>12,000 ac-ft annual water demand (3.9 billion gallons)<br>Two water filtration facilities: <ul style="list-style-type: none"> <li>- 1 mgd at Oak Glen Surface Water Filtration Facility</li> <li>- 12 mgd at Yucaipa Valley Regional Water Filtration Facility</li> </ul> |
| <b>Sewer System:</b>        | 8.0 million gallon treatment capacity - current flow at 4.0 mgd<br>205 miles of sewer mainlines<br>5 sewer lift stations<br>4,500 ac-ft annual recycled water prod. (1.46 billion gallons)  |
| <b>Recycled Water:</b>      | 22 miles of recycled water pipelines<br>5 reservoirs - 12 million gallons of storage<br>1,200 ac-ft annual recycled demand (0.4 billion gallons)  |
| <b>Brine Disposal:</b>      | 2.2 million gallon desalination facility at sewer treatment plant<br>1.108 million gallons of Inland Empire Brine Line capacity<br>0.295 million gallons of treatment capacity in Orange County   |



**State Water Contractors:** San Bernardino Valley Municipal Water District  
San Geronio Pass Water Agency



**Sustainability Plan:** A Strategic Plan for a Sustainable Future: The Integration and Preservation of Resources, adopted on August 20, 2008.







## THE MEASUREMENT OF WATER PURITY

**One part per hundred** is generally represented by the percent (%).  
This is equivalent to about fifteen minutes out of one day.

**One part per thousand** denotes one part per 1000 parts.  
This is equivalent to about one and a half minutes out of one day.

**One part per million (ppm)** denotes one part per 1,000,000 parts.  
This is equivalent to about 32 seconds out of a year.

**One part per billion (ppb)** denotes one part per 1,000,000,000 parts.  
This is equivalent to about three seconds out of a century.

**One part per trillion (ppt)** denotes one part per 1,000,000,000,000 parts.  
This is equivalent to about three seconds out of every hundred thousand years.

**One part per quadrillion (ppq)** denotes one part per 1,000,000,000,000,000 parts.  
This is equivalent to about two and a half minutes out of the age of the Earth (4.5 billion years).





## GLOSSARY OF COMMONLY USED TERMS

Every profession has specialized terms which generally evolve to facilitate communication between individuals. The routine use of these terms tends to exclude those who are unfamiliar with the particular specialized language of the group. Sometimes jargon can create communication cause difficulties where professionals in related fields use different terms for the same phenomena.

Below are commonly used water terms and abbreviations with commonly used definitions. If there is any discrepancy in definitions, the District's Regulations Governing Water Service is the final and binding definition.

**Acre Foot of Water** - The volume of water (325,850 gallons, or 43,560 cubic feet) that would cover an area of one acre to a depth of 1 foot.

**Activated Sludge Process** – A secondary biological sewer treatment process where bacteria reproduce at a high rate with the introduction of excess air or oxygen, and consume dissolved nutrients in the wastewater.

**Annual Water Quality Report** - The document is prepared annually and provides information on water quality, constituents in the water, compliance with drinking water standards and educational material on tap water. It is also referred to as a Consumer Confidence Report (CCR).

**Aquifer** - The natural underground area with layers of porous, water-bearing materials (sand, gravel) capable of yielding a supply of water; see Groundwater basin.

**Backflow** - The reversal of water's normal direction of flow. When water passes through a water meter into a home or business it should not reverse flow back into the water mainline.

**Best Management Practices (BMPs)** - Methods or techniques found to be the most effective and practical means in achieving an objective. Often used in the context of water conservation.

**Biochemical Oxygen Demand (BOD)** – The amount of oxygen used when organic matter undergoes decomposition by microorganisms. Testing for BOD is done to assess the amount of organic matter in water.

**Biosolids** – Biosolids are nutrient rich organic and highly treated solid materials produced by the sewer treatment process. This high-quality product can be used as a soil amendment on farm land or further processed as an earth-like product for commercial and home gardens to improve and maintain fertile soil and stimulate plant growth.

**Catch Basin** – A chamber usually built at the curb line of a street, which conveys surface water for discharge into a storm sewer.

**Capital Improvement Program (CIP)** – Projects for repair, rehabilitation, and replacement of assets. Also includes treatment improvements, additional capacity, and projects for the support facilities.

**Collector Sewer** – The first element of a wastewater collection system used to collect and carry wastewater from one or more building sewer laterals to a main sewer.

**Coliform Bacteria** – A group of bacteria found in the intestines of humans and other animals, but also occasionally found elsewhere and is generally used as an indicator of sewage pollution.

**Combined Sewer Overflow** – The portion of flow from a combined sewer system, which discharges into a water body from an outfall located upstream of a wastewater treatment plant, usually during wet weather conditions.

**Combined Sewer System**– Generally older sewer systems designed to convey both sewage and storm water into one pipe to a wastewater treatment plant.

**Conjunctive Use** - The coordinated management of surface water and groundwater supplies to maximize the yield of the overall water resource. Active conjunctive use uses artificial recharge, where surface water is intentionally percolated or injected into aquifers for later use. Passive conjunctive use is to simply rely on surface water in wet years and use groundwater in dry years.

**Consumer Confidence Report (CCR)** - see Annual Water Quality Report.

**Cross-Connection** - The actual or potential connection between a potable water supply and a non-potable source, where it is possible for a contaminant to enter the drinking water supply.

**Disinfection By-Products (DBPs)** - The category of compounds formed when disinfectants in water systems react with natural organic matter present in the source water supplies. Different disinfectants produce different types or amounts of disinfection byproducts. Disinfection byproducts for which regulations have been established have been identified in drinking water, including trihalomethanes, haloacetic acids, bromate, and chlorite

**Drought** - a period of below average rainfall causing water supply shortages.

**Dry Weather Flow** – Flow in a sanitary sewer during periods of dry weather in which the sanitary sewer is under minimum influence of inflow and infiltration.

**Fire Flow** - The ability to have a sufficient quantity of water available to the distribution system to be delivered through fire hydrants or private fire sprinkler systems.

**Gallons per Capita per Day (GPCD)** - A measurement of the average number of gallons of water use by the number of people served each day in a water system. The calculation is made by dividing the total gallons of water used each day by the total number of people using the water system.

**Groundwater Basin** - An underground body of water or aquifer defined by physical boundaries.

**Groundwater Recharge** - The process of placing water in an aquifer. Can be a naturally occurring process or artificially enhanced.

**Hard Water** - Water having a high concentration of minerals, typically calcium and magnesium ions.

**Hydrologic Cycle** - The process of evaporation of water into the air and its return to earth in the form of precipitation (rain or snow). This process also includes transpiration from plants, percolation into the ground, groundwater movement, and runoff into rivers, streams and the ocean; see Water cycle.

**Infiltration** – Water other than sewage that enters a sewer system and/or building laterals from the ground through defective pipes, pipe joints, connections, or manholes. Infiltration does not include inflow. See *Inflow*.

**Inflow** - Water other than sewage that enters a sewer system and building sewer from sources such as roof vents, yard drains, area drains, foundation drains, drains from springs and swampy areas, manhole covers, cross connections between storm drains and sanitary sewers, catch basins, cooling towers, storm waters, surface runoff, street wash waters, or drainage. Inflow does not include infiltration. See *Infiltration*.

**Inflow / Infiltration (I/I)** – The total quantity of water from both inflow and infiltration.

**Mains, Distribution** - A network of pipelines that delivers water (drinking water or recycled water) from transmission mains to residential and commercial properties, usually pipe diameters of 4" to 16".

**Mains, Transmission** - A system of pipelines that deliver water (drinking water or recycled water) from a source of supply the distribution mains, usually pipe diameters of greater than 16".

**Meter** - A device capable of measuring, in either gallons or cubic feet, a quantity of water delivered by the District to a service connection.

**Overdraft** - The pumping of water from a groundwater basin or aquifer in excess of the supply flowing into the basin. This pumping results in a depletion of the groundwater in the basin which has a net effect of lowering the levels of water in the aquifer.

**Peak Flow** – The maximum flow that occurs over a specific length of time (e.g., daily, hourly, instantaneously).

**Pipeline** - Connected piping that carries water, oil or other liquids. See Mains, Distribution and Mains, Transmission.

**Point of Responsibility, Metered Service** - The connection point at the outlet side of a water meter where a landowner's responsibility for all conditions, maintenance, repairs, use and replacement of water service facilities begins, and the District's responsibility ends.

**Potable Water** - Water that is used for human consumption and regulated by the California Department of Public Health.

**Pressure Reducing Valve** - A device used to reduce the pressure in a domestic water system when the water pressure exceeds desirable levels.

**Pump Station** - A drinking water or recycled water facility where pumps are used to push water up to a higher elevation or different location.

**Reservoir** - A water storage facility where water is stored to be used at a later time for peak demands or emergencies such as fire suppression. Drinking water and recycled water systems will typically use concrete or steel reservoirs. The State Water Project system considers lakes, such as Shasta Lake and Folsom Lake to be water storage reservoirs.

**Runoff** - Water that travels downward over the earth's surface due to the force of gravity. It includes water running in streams as well as over land.

**Sanitary Sewer System** - Sewer collection system designed to carry sewage, consisting of domestic, commercial, and industrial wastewater. This type of system is not designed nor intended to carry water from rainfall, snowmelt, or groundwater sources. See *Combined Sewer System*.

**Sanitary Sewer Overflow** – Overflow from a sanitary sewer system caused when total wastewater flow exceeds the capacity of the system. See *Combined Sewer Overflow*.

**Santa Ana River Interceptor (SARI) Line** – A regional brine line designed to convey 30 million gallons per day of non-reclaimable wastewater from the upper Santa Ana River basin to the sewer treatment plant operated by Orange County Sanitation District.

**Secondary Treatment** – Biological sewer treatment, particularly the activated-sludge process, where bacteria and other microorganisms consume dissolved nutrients in wastewater.

**Supervisory Control and Data Acquisition (SCADA)** - A computerized system which provides the ability to remotely monitor and control water system facilities such as reservoirs, pumps and other elements of water delivery.

**Service Connection** - The water piping system connecting a customer's system with a District water main beginning at the outlet side of the point of responsibility, including all plumbing and equipment located on a parcel required for the District's provision of water service to that parcel.

**Sludge** – Untreated solid material created by the treatment of sewage.

**Smart Irrigation Controller** - A device that automatically adjusts the time and frequency which water is applied to landscaping based on real-time weather such as rainfall, wind, temperature and humidity.

**Special District** - A political subdivision of a state established to provide a public services, such as water supply or sanitation, within a specific geographic area.

**Surface Water** - Water found in lakes, streams, rivers, oceans or reservoirs behind dams.

**Total Suspended Solids (TSS)** – The amount of solids floating and in suspension in water or sewage.

**Transpiration** - The process by which water vapor is released into the atmosphere by living plants.

**Trickling Filter** – A biological secondary treatment process in which bacteria and other microorganisms, growing as slime on the surface of rocks or plastic media, consume nutrients in primary treated sewage as it trickles over them.

**Underground Service Alert (USA)** - A free service that notifies utilities such as water, telephone, cable and sewer companies of pending excavations within the area (dial 8-1-1 at least 2 working days before you dig).

**Urban Runoff** - Water from city streets and domestic properties that typically carries pollutants into the storm drains, rivers, lakes, and oceans.

**Valve** - A device that regulates, directs or controls the flow of water by opening, closing or partially obstructing various passageways.

**Wastewater** – Any water that enters the sanitary sewer.

**Water Banking** - The practice of actively storing or exchanging in-lieu surface water supplies in available groundwater basin storage space for later extraction and use by the storing party or for sale or exchange to a third party. Water may be banked as an independent operation or as part of a conjunctive use program.

**Water cycle** - The continuous movement water from the earth's surface to the atmosphere and back again; see Hydrologic cycle.

**Water Pressure** - Pressure created by the weight and elevation of water and/or generated by pumps that deliver water to the tap.

**Water Service Line** - The pipeline that delivers potable water to a residence or business from the District's water system. Typically the water service line is a 1" to 1½" diameter pipe for residential properties.

**Watershed** - A region or land area that contributes to the drainage or catchment area above a specific point on a stream or river.

**Water Table** - The upper surface of the zone of saturation of groundwater in an unconfined aquifer.

**Water Transfer** - A transaction, in which a holder of a water right or entitlement voluntarily sells/exchanges to a willing buyer the right to use all or a portion of the water under that water right or entitlement.

**Water Well** - A hole drilled into the ground to tap an underground water aquifer.

**Wetlands** - Lands which are fully saturated or under water at least part of the year, like seasonal vernal pools or swamps.

**Wet Weather Flow** – Dry weather flow combined with stormwater introduced into a combined sewer system, and dry weather flow combined with infiltration/inflow into a separate sewer system.





## COMMONLY USED ABBREVIATIONS

|                  |   |
|------------------|---|
| <b>AQMD</b>      | Air Quality Management District                 |
| <b>BOD</b>       | Biochemical Oxygen Demand                       |
| <b>CARB</b>      | California Air Resources Board                  |
| <b>CCTV</b>      | Closed Circuit Television                       |
| <b>CWA</b>       | Clean Water Act                                 |
| <b>EIR</b>       | Environmental Impact Report                     |
| <b>EPA</b>       | U.S. Environmental Protection Agency            |
| <b>FOG</b>       | Fats, Oils, and Grease                          |
| <b>GPD</b>       | Gallons per day                                 |
| <b>MGD</b>       | Million gallons per day                         |
| <b>O &amp; M</b> | Operations and Maintenance                      |
| <b>OSHA</b>      | Occupational Safety and Health Administration   |
| <b>POTW</b>      | Publicly Owned Treatment Works                  |
| <b>PPM</b>       | Parts per million                               |
| <b>RWQCB</b>     | Regional Water Quality Control Board            |
| <b>SARI</b>      | Santa Ana River Inceptor                        |
| <b>SAWPA</b>     | Santa Ana Watershed Project Authority           |
| <b>SBVMWD</b>    | San Bernardino Valley Municipal Water District  |
| <b>SCADA</b>     | Supervisory Control and Data Acquisition system |
| <b>SSMP</b>      | Sanitary Sewer Management Plan                  |
| <b>SSO</b>       | Sanitary Sewer Overflow                         |
| <b>SWRCB</b>     | State Water Resources Control Board             |
| <b>TDS</b>       | Total Dissolved Solids                          |
| <b>TMDL</b>      | Total Maximum Daily Load                        |
| <b>TSS</b>       | Total Suspended Solids                          |
| <b>WDR</b>       | Waste Discharge Requirements                    |
| <b>YVWD</b>      | Yucaipa Valley Water District                   |